**FOR PLANNING USE ONLY**

Case #: _____
Application Fee: \$ _____
Filing Date: _____
Acceptance Date: _____
Review Type: P&Z

Site Plan Application

Reference City of Alachua Land Development Regulations Article 2.4.9

A. PROJECT

1. Project Name: Copeland Park Phase I
2. Address of Subject Property: _____
3. Parcel ID Number(s): Portion of Tax Parcel Number 03230-002-000 & a Portion of Tax Parcel Number 03927-000-000
4. Existing Use of Property: Grazing land soil capability Glass VI
5. Future Land Use Map Designation: Industrial
6. Zoning Designation: Industrial, Light and Warehousing
7. Acreage: +/- 5.26

B. APPLICANT

1. Applicant's Status ☐ Owner (title holder) ☒ Agent
2. Name of Applicant(s) or Contact Person(s): Randy Olney Title: Project Manager
Company (if applicable): CHW
Mailing address: 132 NW 76th Drive
City: Gainesville State: Florida ZIP: 32607
Telephone: (352) 331-1976 FAX: _____ e-mail: randyo@chw-inc.com
3. If the applicant is agent for the property owner*:
Name of Owner (title holder): ADC Development & Investment
Mailing Address: P.O.Box 238
City: Lake Butler State: Florida ZIP: 32054

* Must provide executed Property Owner Affidavit authorizing the agent to act on behalf of the property owner.

C. ADDITIONAL INFORMATION

1. Is there any additional contact for sale of, or options to purchase, the subject property? ☐ Yes ☒ No
If yes, list names of all parties involved: _____
If yes, is the contract/option contingent or absolute? ☐ Contingent ☐ Absolute

D. ATTACHMENTS

1. Site Plan including but not limited to:
 - a. Name, location, owner, and designer of the proposed development.
 - b. Zoning of the subject property.
 - c. Vicinity map - indicating general location of the site and all abutting streets and properties.
 - d. Complete legal description.
 - e. Statement of Proposed Uses.
 - f. Location of the site in relation to adjacent properties, including the means of ingress and egress to such properties and any screening or buffers along adjacent properties.
 - g. Date, north arrow, and graphic scale (not to exceed one (1) inch equal to fifty (50) feet.)
 - h. Area and dimensions of site.
 - i. Location of all property lines, existing right-of-way approaches, sidewalks, curbs, and gutters.
 - j. Access and points of connection to utilities (electric, potable water, sanitary sewer, gas, etc.)
 - k. Location and dimensions of all existing and proposed parking areas and loading areas.
 - l. Location, size, and design of proposed landscaped areas (including existing trees and required landscaped buffer areas) with detail illustrating compliance with Section 6.2.2 of the Land Development Regulations.

- m. Location and size of any lakes, ponds, canals, or other waters and waterways.
- n. Structures and major features – fully dimensioned – including setbacks, distances between structures, floor area, width of driveways, parking spaces, property or lot lines, and floor area ratio.
- o. Location of waste receptacles and detail of waste receptacle screening.
- p. For development consisting of a nonresidential use, except for single tenant retail sales and services uses greater than or equal to 20,000 square feet in area and except for use types within the industrial services, manufacturing and production, warehouse freight and movement, waste-related services, and wholesale sales use categories:
 - i. Architectural plans and dimension plans which demonstrate compliance with the design standards for business uses as provided in Section 6.8.2 of the LDRs, including:
 - (a) Calculation of glazing of the front façade.
 - (b) Calculation of the area of ground floor façades subject to glazing.
 - (c) Detail on the architectural plans and dimension plans depicting façade massing and/or alternatives to required façade massing.
 - (d) Sufficient plan detail and calculations of each material utilized in each façade.
- q. For development consisting of a nonresidential use where a single tenant is greater than or equal to 20,000 square feet in area:
 - i. Architectural plans and dimension plans which demonstrate compliance with the design standards for single tenant retail sales and service uses greater than or equal to 20,000 square feet in area as provided in Section 6.8.3 of the LDRs, including:
 - (a) Calculation of glazing of the façades facing streets, residential uses, and vacant residential/agricultural land.
 - (b) Calculation of the area of ground floor façades subject to glazing.
 - (c) If glazing alternatives are used, calculation of area of alternative materials used.
 - (d) Detail on the architectural plans and dimension plans depicting façade massing and/or alternatives to required façade massing.
 - (e) Color architectural plans depicting the color of all materials used in the façade.
- r. For development consisting of one or more of the following: Multi-family residential; Hotel; or Mobile Home Park:
 - i. Tabulation of gross acreage.
 - ii. Tabulation of density.
 - iii. Number of dwelling units proposed.
 - iv. Location and percent of total open space and recreation areas.
 - v. Floor area of dwelling units.
 - vi. Number of proposed parking spaces.
 - vii. Street layout.
 - viii. Layout of mobile home stands (for mobile home parks only).
 - ix. City of Alachua Public School Student Generation Form.

Sheet Size: 24" X 36" with 3" left margin and ½" top, bottom, and right margins

- 2. Stormwater management plan - including the following:
 - a. Existing contours at one (1) foot intervals based on U.S. Coastal and Geodetic Datum.
 - b. Proposed finished floor elevation of each building site.
 - c. Existing and proposed stormwater management facilities with size and grades.
 - d. Proposed orderly disposal of surface water runoff.
 - e. Centerline elevations along adjacent streets.
 - f. Water Management District surfacewater management Statement of proposed uses on the site plan
- 3. Fire Department Access and Water Supply: The design criteria shall be Chapter 18 of the Florida Fire Prevention Code. Plans must be on separate sealed sheets and must be prepared by a professional Fire engineer licensed in the State of Florida. Fire flow calculations must be provided for each newly constructed building. When required, fire flow calculations shall be in accordance with the Guide for Determination of Required Fire Flow, latest edition, as published by the Insurance Service Office (ISO) and /or Chapter 18, Section 18.4 of the Florida Fire Prevention Code, whichever is greater. All calculations must be demonstrated and provided. All calculations and specifications must be on the plans and not on separate sheets. All fire protection plans are reviewed and approved by the Alachua County Fire Marshal.
- 4. Concurrency Impact Analysis showing the impact on public facilities, including potable water, sanitary sewer, transportation, solid waste, recreation, stormwater, and public schools in accordance with Article 2.4.14 of the Land Development Regulations.
- 5. Analysis of Consistency with the City of Alachua Comprehensive Plan (analysis must identify specific Goals, Objectives, and Policies and describe in detail how the application complies with the noted Goal, Objective, or Policy.)

For commercial project Applications:

- a. In addition to submitting specific written information regarding your **commercial** development's compliance with the relevant Goals, Objectives, and Policies of the City of Alachua Comprehensive Plan, you must respond directly to the standards listed below. You should be specific in terms of how your commercial development will comply with these standards.

Policy 1.3.d Design and performance standards

The following criteria shall apply when evaluating commercial development proposals:

1. Integration of vehicular and non-vehicular access into the site and access management features of site in terms of driveway cuts and cross access between adjacent sites, including use of frontage roads and/or shared access;
2. Buffering from adjacent existing/potential uses;
3. Open space provisions and balance of proportion between gross floor area and site size;
4. Adequacy of pervious surface area in terms of drainage requirements;
5. Placement of signage;
6. Adequacy of site lighting and intrusiveness of lighting upon the surrounding area;
7. Safety of on-site circulation patterns (patron, employee and delivery vehicles), including parking layout and drive aisles, and points of conflict;
8. Landscaping, as it relates to the requirements of the Comprehensive Plan and Land Development Regulations;
9. Unique features and resources which may constrain site development, such as soils, existing vegetation and historic significance; and
10. Performance based zoning requirements, which may serve as a substitute for or accompany land development regulations in attaining acceptable site design.
11. Commercial uses shall be limited to an intensity of less than or equal to .50 floor area ratio for parcels 10 acres or greater, .50 floor area ratio for parcels less than 10 acres but 5 acres or greater, a .75 floor area ratio for parcels less than 5 acres but greater than 1 acre, and 1.0 floor area ratio to parcels 1 acre or less.

For industrial project Applications:

- b. In addition to submitting specific written information regarding your **industrial** development's compliance with the relevant Goals, Objectives, and Policies of the City of Alachua Comprehensive Plan, you must respond directly to the standards listed below. You should be specific in terms of how your industrial development will comply with these standards.

Policy 1.5.d


The City shall develop performance standards for industrial uses in order to address the following:

1. Integration of vehicular and non-vehicular access into the site and access management features of site in terms of driveway cuts and cross access between adjacent sites, including use of frontage roads and/or shared access;
2. Buffering from adjacent existing/potential uses;
3. Open space provisions and balance of proportion between gross floor area and site size;
4. Adequacy of pervious surface area in terms of drainage requirements;
5. Placement of signage;
6. Adequacy of site lighting and intrusiveness of lighting upon the surrounding area;
7. Safety of on-site circulation patterns (patron, employee and delivery vehicles, trucks), including parking layout and drive aisles, and points of conflict;
8. Landscaping, as it relates to the requirements of the Comprehensive Plan and Land Development Regulations;
9. Unique features and resources which may constrain site development, such as soils, existing vegetation and historic significance; and
10. Performance based zoning requirements that may serve as a substitute for or accompany land development regulations in attaining acceptable site design.
11. Industrial uses shall be limited to an intensity of less than or equal to .50 floor area ratio for parcels 10 acres or greater, .50 floor area ratio for parcels less than 10 acres by 5 acres or greater, .75 floor area ratio for parcels less than 5 acres but greater than 1 acre, and 1.0 floor area ratio for parcels 1 acre or less.

6. For Site Plans for Buildings Less than 80,000 Square Feet in Area: One (1) set of labels for all property owners within 400 feet of the subject property boundaries – even if property within 400 feet falls outside of City limits (obtain from the Alachua County Property Appraiser's web site) – and all persons/organizations registered to receive notice of development applications.
For Site Plans for Buildings Greater than or Equal to 80,000 Square Feet in Area: Two (2) sets of labels for all property owners within 400 feet of the subject property boundaries – even if property within 400 feet falls outside of City limits (obtain from the Alachua County Property Appraiser's web site) – and all persons/organizations registered to receive notice of development applications.
7. Neighborhood Meeting Materials, including:
 - i. Copy of the required published notice (advertisement) – must be published a newspaper of general circulation, as defined in Article 10 of the City's Land Development Regulations
 - ii. Copy of written notice (letter) sent to all property owners within 400 feet and to all persons/organizations registered with the City to receive notice, and mailing labels or list of those who received written notice
 - iii. Written summary of meeting – must include (1) those in attendance; (2) a summary of the issues related to the development proposal discussed; (3) comments by those in attendance about the development proposal; and, (4) any other information deemed appropriate.
8. Legal description with tax parcel number, separate from all other documentation on 8.5" x 11" paper.
9. Proof of ownership (i.e., copy of deed.)
10. Proof of payment of taxes.
11. Environmental Resource Permit (or Letter of Exemption) from the Suwannee River Water Management District or Self-Certification for a Stormwater Management System in Uplands Serving Less than 10 Acres of Total Project Area and Less than 2 Acres of Impervious Surfaces from the Florida Department of Environmental Protection pursuant to Section 403.814(12), Florida Statutes.
12. If access is from a County Road, access management permit from Alachua County Public Works (or documentation providing evidence that a permit application has been submitted).
13. If access is from a State Road, access management permit from Florida Department of Transportation (or documentation providing evidence that a permit application has been submitted).
14. **Fee.** Please see fee schedule for fee determination. No application shall be accepted for processing until the required application fee is paid in full by the applicant. Any necessary technical review or additional reviews of the application beyond the initial engineering review fee will be billed to the applicant at the rate of the reviewing entity. The invoice shall be paid in full prior to any legislative and/or quasi-judicial action of any kind on the petition, appeal, or development application.

All 14 attachments are required for a complete application. A completeness review of the application will be conducted within five (5) business days of receipt. If the application is determined to be incomplete, the application will be returned to the applicant.

I/We certify and acknowledge that the information contained herein is true and correct to the best of my/our knowledge.



Signature of Applicant

Randall Olney, P.E.

Typed or printed name and title of applicant

Signature of Co-applicant

Typed or printed name of co-applicant

State of Florida County of Alachua

The foregoing application is acknowledged before me this 28th day of Oct, 2016 by Randall

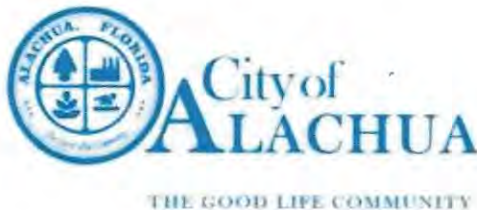
Olney, PE, who is/are personally known to me, or who has/have produced _____
as identification.

NOTARY SEAL




Signature of Notary Public, State of Florida

City of Alachua ♦ Planning and Community Development Department
PO Box 9 ♦ Alachua, FL 32616 ♦ (386) 418-6121



Authorized Agent Affidavit

A. PROPERTY INFORMATION

Address of Subject Property: _____
Parcel ID Number(s): A portion of tax parcels 03230-002-000 & 03927-000-000
Acreage: +/- 10

B. PERSON PROVIDING AGENT AUTHORIZATION

Name: Avery C. Roberts Title: Manager
Company (if applicable): ADC Development & Investment
Mailing Address: P.O. Box 238
City: Lake Butler State: Florida ZIP: 32054
Telephone: (386) 496-3509 FAX: (386) 496-4309 e-mail: avery@flaland.com

C. AUTHORIZED AGENT

Name: _____ Title: _____
Company (if applicable): CHW
Mailing address: 132 NW 76th Drive
City: Gainesville State: Florida ZIP: 32607
Telephone: (352) 331-1976 FAX: _____ e-mail: randyo@chw-inc.com

D. REQUESTED ACTION:

Authorization to apply for and obtain permits for the Copeland Park project.

I hereby certify that I am the property owner of record, or I have received authorization from the property owner of record to file an application for a development permit related to the property identified above. I authorize the agent listed above to act on my behalf for purposes of this application.

Signature of Applicant

Avery C. Roberts, Manager

Typed or printed name and title of applicant

Signature of Co-applicant

Typed or printed name of co-applicant

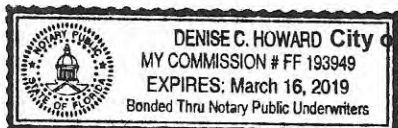
State of Florida County of Union

The foregoing application is acknowledged before me this 19th day of October, 2016, by Avery C. Roberts

_____, who is/are personally known to me, or who has/have produced _____
as identification.

NOTARY SEAL

Signature of Notary Public, State of Florida



City of Alachua ♦ Planning and Community Development Department
PO Box 9 ♦ Alachua, FL 32616 ♦ (386) 418-6121
Revised 9/30/2014

MEMORANDUM

To: City of Alachua 16-0386
From: Randall S. Olney, P.E.
Date: November 28, 2016
RE: Fire Flow Calculations for Copeland Park Phase I

The Copeland Park Phase I site is located on the southeast corner of Rachel Boulevard and NW 129th Way in the City of Alachua. The project site is ± 5.26 acres and proposes the construction of a 13,300 sf and 11,750 sf research buildings along with associated parking, stormwater conveyance, utilities, and related site improvements. The associated building types are II (000) and all buildings include an automatic sprinkler system.

The attached fire flow calculations were calculated for Copeland Park Phase I. The ISO Guide for Determination of Needed Fire Flow states that "ISO does not determine a needed fire flow for buildings rated and coded by ISO as protected by an automatic sprinkler system meeting applicable NFPA standards." NFPA permits a 75% reduction in required flow for sprinklered buildings, however, the ISO procedure does not provide a mechanism to account for sprinkler systems. Note that for unsprinklered buildings, the ISO calculation requires a lower flow rate than the NFPA table; therefore the application of a factor similar to the NFPA 75% reduction would result in an ISO sprinklered requirement also being less than the NFPA value. For this project, the ISO calculation does not apply as it does not determine fire flow for sprinklered buildings. Therefore, the NFPA requirement is taken as the needed fire flow for each building.

WEST BUILDING (13,300 SF)

NFPA Table 18.4.5.1.2

Building Type = II (000)

Building Square Footage = $\pm 13,300$ sf

Fire Flow per Building = 2,500 gpm

75% reduction to Fire Flow per approved automatic sprinkler system (18.4.5.3.3) = 625 gpm

Minimum Fire Flow per Building (18.4.5.3.3) = 1,000 gpm

Flow Duration = 2 hours

ISO Needed Fire Flow

Fire Flow per Building = 1,500 gpm

EAST BUILDING (11,750 SF)

NFPA Table 18.4.5.1.2

Building Type = II (000)

Building Square Footage = ±11,750 sf

Fire Flow per Building = 2,250 gpm

75% reduction to Fire Flow per approved automatic sprinkler system (18.4.5.3.3) = 563 gpm

Minimum Fire Flow per Building (18.4.5.3.3) = 1,000 gpm

Flow Duration = 2 hours

ISO Needed Fire Flow

Fire Flow per Building = 1,500 gpm

RANDALL S. OLNEY
PE LICENSE #68382

L:\2016\16-0386\Engineering\GRU Utilities\Fire Flow\MEMO 161026 Copeland Park Phase I Fire Flow.docx

Table 18.4.5.1.2 Minimum Required Fire Flow and Flow Duration for Buildings

See FFPC 1-18.4 for information regarding flow credits for fully sprinkled buildings.					Fire Flow gpm† (× 3.785 for L/min)	Flow Duration (hours)
Fire Area ft2 (×0.0929 for m2)						
I(443),I(332), II(222)*	II(111), III(211)*	IV(2HH), V(111)*	II(000), III(200)*	V(000)*		
0–22,700	0–12,700	0–8,200	0–5,900	0–3,600	1,500	2
22,701–30,200	12,701–17,000	8,201–10,900	5,901–7,900	3,601–4,800	1,750	
30,201–38,700	17,001–21,800	10,901–12,900	7,901–9,800	4,801–6,200	2,000	
38,701–48,300	21,801–24,200	12,901–17,400	9,801–12,600	6,201–7,700	2,250	
48,301–59,000	24,201–33,200	17,401–21,300	12,601–15,400	7,701–9,400	2,500	
59,001–70,900	33,201–39,700	21,301–25,500	15,401–18,400	9,401–11,300	2,750	3
70,901–83,700	39,701–47,100	25,501–30,100	18,401–21,800	11,301–13,400	3,000	
83,701–97,700	47,101–54,900	30,101–35,200	21,801–25,900	13,401–15,600	3,250	
97,701–112,700	54,901–63,400	35,201–40,600	25,901–29,300	15,601–18,000	3,500	
112,701–128,700	63,401–72,400	40,601–46,400	29,301–33,500	18,001–20,600	3,750	
128,701–145,900	72,401–82,100	46,401–52,500	33,501–37,900	20,601–23,300	4,000	4
145,901–164,200	82,101–92,400	52,501–59,100	37,901–42,700	23,301–26,300	4,250	
164,201–183,400	92,401–103,100	59,101–66,000	42,701–47,700	26,301–29,300	4,500	
183,401–203,700	103,101–114,600	66,001–73,300	47,701–53,000	29,301–32,600	4,750	
203,701–225,200	114,601–126,700	73,301–81,100	53,001–58,600	32,601–36,000	5,000	
225,201–247,700	126,701–139,400	81,101–89,200	58,601–65,400	36,001–39,600	5,250	
247,701–271,200	139,401–152,600	89,201–97,700	65,401–70,600	39,601–43,400	5,500	
271,201–295,900	152,601–166,500	97,701–106,500	70,601–77,000	43,401–47,400	5,750	
Greater than 295,900	Greater than 166,500	106,501–115,800	77,001–83,700	47,401–51,500	6,000	
		115,801–125,500	83,701–90,600	51,501–55,700	6,250	
		125,501–135,500	90,601–97,900	55,701–60,200	6,500	
		135,501–145,800	97,901–106,800	60,201–64,800	6,750	
		145,801–156,700	106,801–113,200	64,801–69,600	7,000	
		156,701–167,900	113,201–121,300	69,601–74,600	7,250	
		167,901–179,400	121,301–129,600	74,601–79,800	7,500	
		179,401–191,400	129,601–138,300	79,801–85,100	7,750	
		Greater than 191,400	Greater than 138,300	Greater than 85,100	8000	

*Types of construction are based on NFPA 220.

† Measured at 20 psi (139.9 kPa).

Table A.4.1.1 Cross-Reference of Building Construction Types**

NFPA 220 (NFPA 5000)	I(442)	I(332)	II(222)	II(111)	II(000)	III(211)	III(200)	IV(2HH)	V(111)	V(000)
IBC	—	IA	IB	IIA	IIB	IIIA	IIIB	IV	VA	VB

IBC: International Building Code.

[5000: Table A.7.2.1.1]

** This table has been edited to exclude codes not adopted by the State.

ISO Needed Fire Flow (NFF) Worksheet

(Page references are to the appropriate sections in the ISO Guide for Determination of Needed Fire Flow)

Petition Number:	16-0386	Date:	10/26/2016
Project:	Copeland Park	Engineer:	R. Olney, PE
	West Building	Checked By:	R. Olney, P.E.
Location:	SW Corner of Rachel Blvd and		
	NW 129th Way Alachua, FL		

Subject Building

Construction Class (p. 4): Noncombustible Construction ▼ **construction coefficient (F) (p. 2):** 0.8

Area of largest floor in the building (if modifications are made for division walls (p. 8), the division walls must be shown on the site plan.): 13,300 sq.ft.

Total area of all other floors (if modifications are made for division walls (p. 8), the division walls must be shown on the site plan.): 0 sq. ft.

Effective Area (A_i) (p. 9) : 13,300 sq. ft. (Show calculations below)

A _i =13,300+ 0/2 = 13,300 sf

Needed Fire Flow attributed to construction (C_i) (per formula (p. 2)): 1660.689014

(Round to the nearest 250 gpm. See p. 10 for maximum and minimum values of C_i)

Type of Occupancy: Limited-combustible (C-2) ▼ **Occupancy Factor (O_i) (p. 11):** 0.85

Exposures (p. 16)

Front: construction of facing wall of exposure building (p. 4): Noncombustible Construction ▼
Distance (ft.) to the exposure building: 61 - 100 ▼ **Length of exposure wall:** 178
Number of stories of exposure wall: 1 **Length x number of stories:** 178
Opening Protection in exposure wall: Unprotected ▼
Factor for exposure (X_i) from Table 330.A (p. 17): 0.08

Back: construction of facing wall of exposure building (p. 4): Noncombustible Construction ▼
Distance (ft.) to the exposure building: 61 - 100 ▼ **Length of exposure wall:** 178
Number of stories of exposure wall: 1 **Length x number of stories:** 178
Opening Protection in exposure wall: Unprotected ▼
Factor for exposure (X_i) from Table 330.A (p. 17): 0.08

Left: construction of facing wall of exposure building (p. 4): Noncombustible Construction ▼
Distance (ft.) to the exposure building: 61 - 100 ▼ **Length of exposure wall:** 73
Number of stories of exposure wall: 1 **Length x number of stories:** 73
Opening Protection in exposure wall: Unprotected ▼
Factor for exposure (X_i) from Table 330.A (p. 17): 0.08

Right: construction of facing wall of exposure building (p. 4): Noncombustible Construction ▼
Distance (ft.) to the exposure building: 61 - 100 ▼ **Length of exposure wall:** 73
Number of stories of exposure wall: 1 **Length x number of stories:** 73
Opening Protection in exposure wall: Unprotected ▼
Factor for exposure (X_i) from Table 330.A (p. 17): 0.08

Communications (p. 18)

Passageway Opening Protection:

Construction class of communication (Table 330.B):

Is communication open or enclosed?

Length of communication (in feet):

Factor for Communications (P_i) from Table 330.B on p.19):

Calculation of Needed Fire Flow (p. 1)

NFF=(C_i)(O_i)[1.0+(X+P)_i] (substitute values as determined above. For exposures and communications use the single side with the highest charge.)

NFF= 1750 x 0.85 x [1 + (0.08 + 0)

NFF= 1606.5 gpm

NFF= 1500 gpm (rounded to nearest 250 gpm per ISO requirements)

Note: ISO evaluates hydrant distribution by examining the number and type of hydrants within 1,000 feet of each representative building. They also look at the distance from each such hydrant to the subject building, measured as apparatus can lay hose.

Hydrants with at least one large pumper outlet may receive credit for up to 1,000 gpm. Hydrants with at least two hose outlets, but no pumper outlet, may receive credit for up to 750 gpm. And hydrants with only one hose outlet may receive credit for up to 500 gpm.

Hydrants within 300 feet of the subject building may receive credit for up to 1,000 gpm (but not more than the credit that would apply based on the number and type of outlets). Hydrants from 301 feet to 600 feet from the subject building may receive credit for up to 670 gpm (but not more than the credit that would apply based on the number and type of outlets). And hydrants from 601 feet to 1,000 feet from the subject building receive credit for 250 gpm. Under certain circumstances, when all fire department pumpers carry sufficient large-diameter hose, ISO may allow maximum credit for hydrants up to 1,000 feet from the subject building.

More than one fire hydrant may be required for proper distribution of water per ISO requirements.

Table 18.4.5.1.2 Minimum Required Fire Flow and Flow Duration for Buildings

See FFPC 1-18.4 for information regarding flow credits for fully sprinkled buildings.					Fire Flow gpm† (× 3.785 for L/min)	Flow Duration (hours)
Fire Area ft2 (×0.0929 for m2)						
I(443),I(332), II(222)*	II(111), III(211)*	IV(2HH), V(111)*	II(000), III(200)*	V(000)*		
0–22,700	0–12,700	0–8,200	0–5,900	0–3,600	1,500	2
22,701–30,200	12,701–17,000	8,201–10,900	5,901–7,900	3,601–4,800	1,750	
30,201–38,700	17,001–21,800	10,901–12,900	7,901–9,800	4,801–6,200	2,000	
38,701–48,300	21,801–24,200	12,901–17,400	9,801–12,600	6,201–7,700	2,250	
48,301–59,000	24,201–33,200	17,401–21,300	12,601–15,400	7,701–9,400	2,500	
59,001–70,900	33,201–39,700	21,301–25,500	15,401–18,400	9,401–11,300	2,750	3
70,901–83,700	39,701–47,100	25,501–30,100	18,401–21,800	11,301–13,400	3,000	
83,701–97,700	47,101–54,900	30,101–35,200	21,801–25,900	13,401–15,600	3,250	
97,701–112,700	54,901–63,400	35,201–40,600	25,901–29,300	15,601–18,000	3,500	
112,701–128,700	63,401–72,400	40,601–46,400	29,301–33,500	18,001–20,600	3,750	
128,701–145,900	72,401–82,100	46,401–52,500	33,501–37,900	20,601–23,300	4,000	4
145,901–164,200	82,101–92,400	52,501–59,100	37,901–42,700	23,301–26,300	4,250	
164,201–183,400	92,401–103,100	59,101–66,000	42,701–47,700	26,301–29,300	4,500	
183,401–203,700	103,101–114,600	66,001–73,300	47,701–53,000	29,301–32,600	4,750	
203,701–225,200	114,601–126,700	73,301–81,100	53,001–58,600	32,601–36,000	5,000	
225,201–247,700	126,701–139,400	81,101–89,200	58,601–65,400	36,001–39,600	5,250	
247,701–271,200	139,401–152,600	89,201–97,700	65,401–70,600	39,601–43,400	5,500	
271,201–295,900	152,601–166,500	97,701–106,500	70,601–77,000	43,401–47,400	5,750	
Greater than 295,900	Greater than 166,500	106,501–115,800	77,001–83,700	47,401–51,500	6,000	
		115,801–125,500	83,701–90,600	51,501–55,700	6,250	
		125,501–135,500	90,601–97,900	55,701–60,200	6,500	
		135,501–145,800	97,901–106,800	60,201–64,800	6,750	
		145,801–156,700	106,801–113,200	64,801–69,600	7,000	
		156,701–167,900	113,201–121,300	69,601–74,600	7,250	
		167,901–179,400	121,301–129,600	74,601–79,800	7,500	
		179,401–191,400	129,601–138,300	79,801–85,100	7,750	
		Greater than 191,400	Greater than 138,300	Greater than 85,100	8000	

*Types of construction are based on NFPA 220.

† Measured at 20 psi (139.9 kPa).

Table A.4.1.1 Cross-Reference of Building Construction Types**

NFPA 220 (NFPA 5000)	I(442)	I(332)	II(222)	II(111)	II(000)	III(211)	III(200)	IV(2HH)	V(111)	V(000)
IBC	—	IA	IB	IIA	IIB	IIIA	IIIB	IV	VA	VB

IBC: International Building Code.

[5000: Table A.7.2.1.1]

** This table has been edited to exclude codes not adopted by the State.

ISO Needed Fire Flow (NFF) Worksheet

(Page references are to the appropriate sections in the ISO Guide for Determination of Needed Fire Flow)

Petition Number:	16-0386	Date:	10/26/2016
Project:	Copeland Park	Engineer:	R. Olney, PE
	East Building	Checked By:	R. Olney, P.E.
Location:	SW Corner of Rachel Blvd and		
	NW 129th Way Alachua, FL		

Subject Building

Construction Class (p. 4): Noncombustible Construction ▼ **construction coefficient (F) (p. 2):** 0.8

Area of largest floor in the building (if modifications are made for division walls (p. 8), the division walls must be shown on the site plan.): 11,750 sq.ft.

Total area of all other floors (if modifications are made for division walls (p. 8), the division walls must be shown on the site plan.): 0 sq. ft.

Effective Area (A_i) (p. 9) : 11,750 sq. ft. (Show calculations below)

A _i =11,750+ 0/2 = 13,300 sf

Needed Fire Flow attributed to construction (C_i) (per formula (p. 2)): 1560.922804

(Round to the nearest 250 gpm. See p. 10 for maximum and minimum values of C_i)

Type of Occupancy: Limited-combustible (C-2) ▼ **Occupancy Factor (O_i) (p. 11):** 0.85

Exposures (p. 16)

Front: construction of facing wall of exposure building (p. 4): Noncombustible Construction ▼

Distance (ft.) to the exposure building: 61 - 100 ▼	Length of exposure wall: 156
Number of stories of exposure wall: 1	Length x number of stories: 156
Opening Protection in exposure wall: Unprotected ▼	
Factor for exposure (X_i) from Table 330.A (p. 17):	0.08

Back: construction of facing wall of exposure building (p. 4): Noncombustible Construction ▼

Distance (ft.) to the exposure building: 61 - 100 ▼	Length of exposure wall: 156
Number of stories of exposure wall: 1	Length x number of stories: 156
Opening Protection in exposure wall: Unprotected ▼	
Factor for exposure (X_i) from Table 330.A (p. 17):	0.08

Left: construction of facing wall of exposure building (p. 4): Noncombustible Construction ▼

Distance (ft.) to the exposure building: 61 - 100 ▼	Length of exposure wall: 73
Number of stories of exposure wall: 1	Length x number of stories: 73
Opening Protection in exposure wall: Unprotected ▼	
Factor for exposure (X_i) from Table 330.A (p. 17):	0.08

Right: construction of facing wall of exposure building (p. 4): Noncombustible Construction ▼

Distance (ft.) to the exposure building: 61 - 100 ▼	Length of exposure wall: 73
Number of stories of exposure wall: 1	Length x number of stories: 73
Opening Protection in exposure wall: Unprotected ▼	
Factor for exposure (X_i) from Table 330.A (p. 17):	0.08

Communications (p. 18)

Passageway Opening Protection:

Construction class of communication (Table 330.B):

Is communication open or enclosed?

Length of communication (in feet):

Factor for Communications (P_i) from Table 330.B on p.19):

Calculation of Needed Fire Flow (p. 1)

$NFF = (C_i)(O_i)[1.0 + (X + P)_i]$ (substitute values as determined above. For exposures and communications use the single side with the highest charge.)

$NFF = 1500 \times 0.85 \times [1 + (0.08 + 0)]$

$NFF = 1377$ gpm

$NFF = 1500$ gpm (rounded to nearest 250 gpm per ISO requirements)

Note: ISO evaluates hydrant distribution by examining the number and type of hydrants within 1,000 feet of each representative building. They also look at the distance from each such hydrant to the subject building, measured as apparatus can lay hose.

Hydrants with at least one large pumper outlet may receive credit for up to 1,000 gpm. Hydrants with at least two hose outlets, but no pumper outlet, may receive credit for up to 750 gpm. And hydrants with only one hose outlet may receive credit for up to 500 gpm.

Hydrants within 300 feet of the subject building may receive credit for up to 1,000 gpm (but not more than the credit that would apply based on the number and type of outlets). Hydrants from 301 feet to 600 feet from the subject building may receive credit for up to 670 gpm (but not more than the credit that would apply based on the number and type of outlets). And hydrants from 601 feet to 1,000 feet from the subject building receive credit for 250 gpm. Under certain circumstances, when all fire department pumpers carry sufficient large-diameter hose, ISO may allow maximum credit for hydrants up to 1,000 feet from the subject building.

More than one fire hydrant may be required for proper distribution of water per ISO requirements.

Hydrant Flow Test Report

Test Date 10/25/2016

Test Time 3:15 pm

Location

Copeland Park
Nano Court & NW 126th Terrace
Alachua, FL

Tested by

Gator Fire Equipment
1032 S. Main Street
Gainesville, FL 32601
Tester: J. Mallard
Witness: Billy J. City of Alachua

Notes

Flowing Nano Court Hydrant
Reading NW 126th Terrace Hydrant

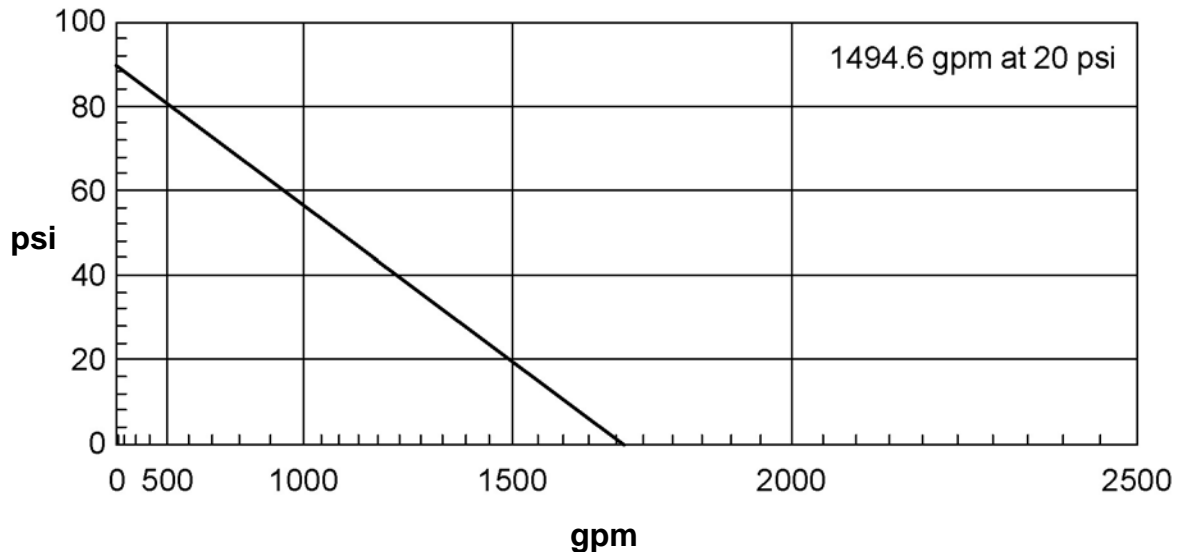
Read Hydrant

90 psi **static pressure**
75 psi **residual pressure**
0 ft **hydrant elevation**

Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1	0	2.5	.9	15	650 gpm

Flow Graph



Hydrant Flow Test Report

Test Date 10/25/2016

Test Time 3:30 pm

Location

Copeland Park
Nano Court & NW 126th Terrace
Alachua, FL

Tested by

Gator Fire Equipment
1032 S. Main Street
Gainesville, FL 32601
Tester: J. Mallard
Witness: Billy J. City of Alachua

Notes

Reading Nano Court Hydrant
Flowing NW 126th Terrace Hydrant

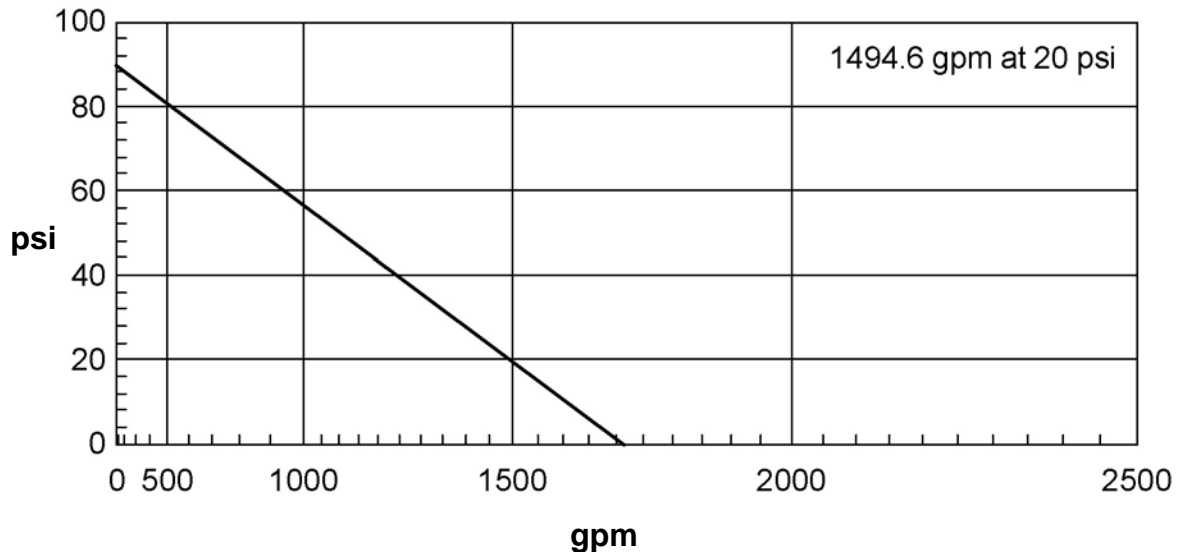
Read Hydrant

90 psi **static pressure**
75 psi **residual pressure**
0 ft **hydrant elevation**

Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1	0	2.5	.9	15	650 gpm

Flow Graph



MEMORANDUM

To: City of Alachua Planning & Zoning
From: Ryan Thompson, AICP, Project Manager
Date: January 2, 2017
RE: Copeland Park Phase I – Concurrency Analysis

16-0386

Copeland Park Phase I consists of two Research & Development buildings (13,300 sf and 11,750 sf), parking area, stormwater conveyance system, and associated infrastructure. The Concurrency Impact Analysis for this application is based on an **increase of 25,050 ft² of non-residential space**.

Trip generation is based on the proposed use, Research & Development facilities (ITE 760). Trip generation figures are based on the Institute of Transportation Engineers (ITE) Trip Generation Manual, 9th Edition.

The following tables include data from the City of Alachua October 2016 Development Monitoring Report, as well as, data obtained within the City Comprehensive Plan and Florida Administrative Code (F.A.C.).

Table 1: Trip Generation Calculations

ITE Land Use ¹	Units ²	Daily		AM Peak		PM Peak	
		Rate	Trips	Rate	Trips	Rate	Trips
Research & Development (ITE 760)	25	8.11	203	1.22	31	1.07	27
Total	-	-	203		31		27

- Source: Institute of Transportation Engineers (ITE) Trip Generation Manual, 9th Edition.
- Estimated AM and PM peak trip generator rates are calculated per dwelling or 1,000 square feet.

To determine affected roadway segments, the City of Alachua LDR §2.4.14(H)(2) bases analysis on whether the proposed development generates fewer or more than 1,000 Average Daily Trips (ADT). Based on the calculations in Table 1, the anticipated use only generates **203** ADT. Therefore, the following regulation applies:

- Development generating 1,000 or fewer trips.* For proposed developments generating less than or equal to 1,000 external average daily trips (ADT), affected roadway segments are all those wholly or partially located within one-half mile of the development's ingress/egress, or to the nearest intersecting major street, whichever is greater.

The intersection used to calculate the ½ mile radius was the NW 129th Way (Adjacent to the Project Site) and Rachel Boulevard (CR 2054). There is only one affected roadway segment, as defined by the LDR §2.4.14(H)(2)(a). The affected roadway segment is listed in Table 2.

Table 2: Affected Roadway Segments

Segment Description		Lanes	Functional Classification	Area Type	LOS
-	CR 2054 (East of SR 235)	2LU	Major Collector	Urban Trans	D

Figure 1 illustrates the anticipated trip distribution. Since the project site directly accesses CR 2054 (East of SR 235), 100% of the vehicles will utilize this roadway. It is anticipated that there will be an even split between vehicles heading west (toward town and I-75) and east (toward Turkey Creek and the City of Gainesville along US 441). Generally, potential trips are evenly dispersed in all directions, accounting for the population, cultural, and commerce draw of Alachua, Gainesville, and High Springs.

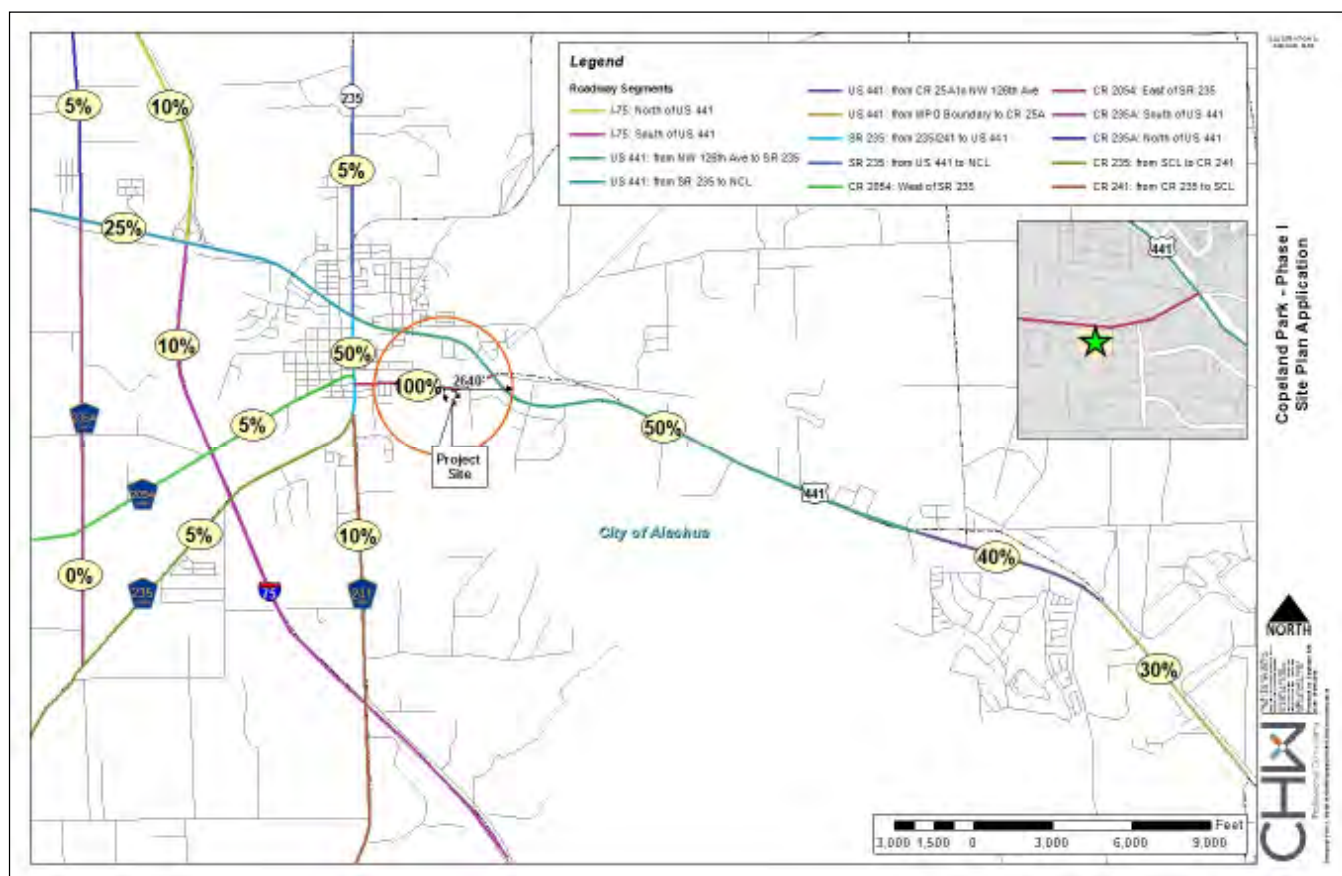


Figure 1: Anticipated Trip Distribution by Roadway Segment

Table 3 identifies the specific impacts for the affected roadway segment. CR 2054 East, which is anticipated to receive the highest percentage of trips generated from this application's approval, retains sufficient roadway capacity during both AADT and PM Peak. In fact, the affected roadway segment will not experience a failing adopted roadway Level of Service (LOS) as a result of this application's approval.

Table 3: Potential Impacts on Roadways for CR 2054 East

	AADT	PM
Traffic System Category	CR 2054	
	(East of SR 235)	
Maximum Service Volume ¹	14,580	1,314
Existing Traffic ¹	2,161	205
Reserved Trips ¹	431	66
Available Capacity	11,988	1,043
Projected Trip Generation ²	203	27
Available Capacity w/ application approval	11,785	1,016

1. City of Alachua Development Monitoring Report, October 2016.

2. This roadway segment's projected trip distribution percentage is estimated to be 100% for CR 2054 East.

PUBLIC FACILITIES IMPACT ANALYSIS

Table 4: Projected Potable Water Impact

System Category	Gallons Per Day
Current Permitted Capacity ¹	2,300,000
Less actual Potable Water Flows ¹	1,190,000
Reserved Capacity ²	112,897
Residual Capacity ¹	997,103
Percentage of Permitted Design Capacity Utilized	56.65%
Net Potential potable water demand ³	
25,050 ft ² x 0.1 gallons per unit	2,505
Residual Capacity after application approval	994,598

1. City of Alachua Public Services Department, March 2015.

2. City of Alachua Development Monitoring Report, October 2016.

3. City of Alachua Comprehensive Plan & Chapter 64-E, F.A.C.

Table 5: Projected Sanitary Sewer Impact

System Category	Gallons Per Day
Treatment Plant Current Permitted Capacity ¹	1,500,000
Less Actual Treatment Plant Flows ¹	615,000
Reserved Capacity ²	73,307
Residual Capacity ¹	811,693
Percentage of Permitted Design Capacity Utilized	45.89%
Projected Sanitary Sewer Demand from proposed project ³	
25,050 ft ² x 0.1 gallons per unit	2,505
Residual Capacity After application approval	809,188

1. City of Alachua Public Services Department, March 2015.

2. City of Alachua Development Monitoring Report, October 2016.

3. City of Alachua Comprehensive Plan & Chapter 64-E, F.A.C.

As calculated in Table 4 and 5, approval of this application will increase demands on the City potable water and sanitary sewer systems, but will not degrade the level of service of such facilities.

Table 6: Project Solid Waste Impact

System Category	LBs Per Day	Tons Per Year
Existing Demand ¹	39,152.00	7,145.24
Reserved Capacity ²	4,928.41	899.43
New River Solid Waste Facility Capacity ³	50 years	-
Proposed Potential Solid waste generated ⁴		
(((12 lbs. / 1,000 sq. ft. / day x 25,050 ft2) x 365) / 2000)		54.86

1. City of Alachua Development Monitoring Report, October 2016.

2. City of Alachua Comprehensive Plan; U.S Census Bureau, 2010 Census.

3. Darrell O'Neal, Executive Director, New River Solid Waste Association, March 2015.

4. Sincero and Sincero, Environmental *Engineering: A Design Approach*. Prentice Hall, New Jersey, 1996.

Table 6 illustrates there is sufficient solid waste capacity based on existing usage, reserved capacity, residual capacity, and the Comprehensive Plan's LOS standards.

Since this application does not propose residential uses, no analysis for recreational facilities or student generation was performed.

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MEMORANDUM

To: City of Alachua Planning & Zoning 16-0386
From: Ryan Thompson, AICP, Project Manager
Date: January 2, 2017
RE: Copeland Park Phase I – Comprehensive Plan Consistency Analysis

The following identifies how this application is consistent with the City's Comprehensive Plan. Language from the comprehensive plan is provided in normal font, and the consistency statements are provided in **bold font**.

Future Land Use Element (FLUE)

Objective 1.5: Industrial

The City of Alachua shall establish one industrial district: Industrial. This district shall provide a broad range of clean industry, warehousing, research, and technology industries, to provide a variety of job opportunities to the citizens of Alachua and the North Central Florida Region.

Response: The proposed development includes two Research and Development buildings, which total ±25,050 square feet (sf). These uses are consistent with the allowed uses within the Industrial Future Land Use (FLU) category.

Policy 1.5.d: The City shall develop performance standards for industrial uses in order to address the following:

1. Integration of vehicular and non-vehicular access into the site and access management features of site in terms of driveway cuts and cross access between adjacent sites, including use of frontage roads and/or shared access;

Response: Vehicular access to the site is provided via NW 129th Way, which connects Rachael Boulevard (CR-2054, a major collector roadway) and Nano Court. Currently, sidewalks are located along both sides of NW 129th Way. The proposed development plans include pedestrian connections to NW 129th Way, sidewalk along the property site frontage of CR 2054 (D1), parking areas, and building entrances. Enhanced crosswalks are provided where pedestrians must cross parking area drive isles.

2. Buffering from adjacent existing/potential uses;

Response: All adjacent parcels (west of the site) are developed and share the Industrial FLU and Industrial, Light and Warehouse (ILW) Zoning designations. As required by the City's LDR, a 5' Type A buffer or a 7.5' Type B buffer will be provided where the site abuts adjacent property. The proposed plan also includes a 20'-wide drainage easement along the entire west boundary and a 20'-wide Public Utility Easement (PUE) along the northern border of the development area and an additional 20'-wide PUE that cuts through the southern portion of the site.

3. Open space provisions and balance of proportion between gross floor area and site size;

Response: City of Alachua LDR §6.7.3(A) states that the minimum open space set-aside shall be 10% of the development site. As shown on the Cover Sheet, approximately 74.9% of the site has been categorized as open area, which includes open space, landscaped areas, and buffers.

4. Adequacy of pervious surface area in terms of drainage requirements;

Response: A stormwater report has been submitted indicating that the proposed stormwater management facility has the capacity to accept runoff from the impervious surface of the entire site.

5. Placement of signage;

Response: All on-site signage will be consistent with City of Alachua's LDR §6.5 Signage requirements.

6. Adequacy of site lighting and potential impacts of lighting upon the surrounding area. Lighting should be designed to minimize impacts and preserve the ambiance and quality of the nighttime sky by reducing light trespass and light pollution on adjacent properties by utilizing lighting at an appropriate intensity, direction and times to ensure light is not overused or impacting areas where it is not intended;

Response: The Photometric Site Plan shows the locations of all lights. Light placement will not adversely affect surrounding properties and are specifically directed toward building entrances.

7. Safety of on-site circulation patterns (patron, employee and delivery vehicles, trucks), including parking layout and drive aisles, and points of conflict;

Response: As detailed on the Master Site Plan, the parking area is primarily located internal to the proposed development site. Pedestrian circulation is clearly marked and is arranged such that the majority of vehicle traffic is out of the way of pedestrian walkways. Loading areas for delivery trucks are separated from the main parking areas, between the two buildings.

8. Landscaping, as it relates to the requirements of the Comprehensive Plan and Land Development Regulations;

Response: Per Comprehensive Plan policy 2.4.1, minimum landscaped area shall be 30% of the development site. The proposed Landscape Plan designates more than 30% for landscaped area. As previously mentioned, perimeter buffers and canopy tree requirements have been met as shown on the Landscape Site Plan, as well as parking landscape requirements.

9. Unique features and resources which may constrain site development, such as soils, existing vegetation and historic significance; and

Response: Site topography is addressed by design. There are no wetlands on-site, nor are there any elements of historic significance present on-site.

10. Performance based zoning requirements that may serve as a substitute for or accompany land development regulations in attaining acceptable site design

Response: There is no performance based zoning being proposed for this site.

11. Industrial uses shall be limited to an intensity of less than or equal to .50 floor area ratio for parcels 10 acres or greater, .50 floor area ratio for parcels less than 10 acres by 5 acres or greater, .75 floor area ratio for parcels less than 5 acres but greater than 1 acre, and 1.0 floor area ratio for parcels 1 acre or less.

Response: The size of the parcel is 5.26-acres. The site's proposed floor area is 25,050 sf, which results in a 0.11 Floor Area Ratio (FAR). Therefore, the .50 FAR requirement is met. All other design standards addressed within 1-10 of this subsection will also be met.

Transportation Element (TE)

Objective 1.1: Level of Service: The City shall establish a safe, convenient and efficient level of service standard for all motorized and non-motorized transportation systems.

Response: The proposed Research and Development buildings will not result in a degradation of transportation Level of Service (LOS) standards. The proposed development will result in 203 AADT and 27 PM Peak trips. Per LDR section 2.4.14(H)(2)(a), affected roadway segments are those that fall within one-half (½) mile of the parcel's boundaries. CR 2054 East is the only affected roadway.

According to the most recent, October 2016 Development Monitoring Report made available by City staff, there is more than enough capacity on the affected roadway segment to handle the minor increase in AADT created by the proposed application. Therefore, after build-out of the proposed development, there will continue to be a substantial surplus of available trips.

Community Facilities and Natural Groundwater Recharge Element (CFNGAR)

Policy 1.1.d: The City hereby establishes the following Level of Service standards for sanitary sewer facilities:

b. Quantity: System-wide wastewater collection and treatment will be sufficient to provide a minimum of 250 gallons per day per equivalent residential unit (ERU) on an average annual basis.

Response: The proposed development will allow a net increase of ±25,050 sf of non-residential uses, resulting in an increased demand of 2,505 gallons per day on the City's sanitary sewer system. Currently, there is a residual capacity of 809,188 gallons per day.

Objective 4.1: Achieve and maintain acceptable levels of service for potable water quantity and quality.

Policy 4.1.c: The City establishes the following level of service standards for potable water:

2. Quantity: System-wide potable water distribution and treatment will be sufficient to provide a minimum of 275 gallons per day per equivalent residential unit (ERU) on an average annual basis.

Response: The proposed development will allow a net increase of $\pm 25,050$ sf of non-residential uses, resulting in an increased demand of 2,505 gallons per day on the City's potable water system. Currently, there is a residual capacity of 994,598 gallons per day.

Objective 2.1: Continue to ensure satisfactory and economical solid waste service for all City residents, with an emphasis on reuse and recycling.

Policy 2.1.a: The City hereby establishes the following level of service standards for solid waste disposal facilities:

FACILITY TYPE	LEVEL OF SERVICE STANDARD
Solid Waste Landfill	.73 tons per capita per year

Response: The proposed development will allow a net increase of $\pm 25,050$ sf of non-residential uses, resulting in an increased demand of 54.86 tons per year on the City's solid waste system. Currently, there is a 50-year build-out capacity for the solid waste disposal facility.

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PUBLIC NOTICE

A Neighborhood Meeting will be held to discuss a proposed site plan for the Copeland Park Phase I project. This project encompasses Alachua County tax parcels 03230-002-000 & 03927-000-000. The overall site is approximately 10 acres in size and the plan is to construct four 10,000 square foot research buildings in separate phases, along with associated parking, outdoor storage area, stormwater, utilities, and related site improvements. Phase I will include a single building, parking, and access

The meeting's purpose is to inform neighboring property owners of the proposed development plan and to seek their comments.

The meeting is Tuesday, July 26 at 6:00 p.m. in the Perry Center, 14180 NW 119th Terrace, Alachua, FL 32615.

Contact:

Daniel Young, P.E.

Phone Number:

(352) 331-1976



Farm construction this year in Manatee, Martin counties, Ft. Myers

SOLAR FARM:
Continued from page A1

said, "It would have no immediate impact on the city of Hawthorne, but over time, could run both Waldo and Hawthorne with '0' emissions."

FPL currently operates two more solar farms, one in Martin County and one on the Space Coast with cooperation from NASA.

This year, FPL will build three more solar farms: one in Manatee County, one in DeSoto County and one in Fort Myers. Each will produce 74-megawatts, the same output expected for the proposed Alachua County site.

FPL spokesperson Stephen Heiman said,

"Currently we are building three other universal scale plants down in south Florida. They're clean and plants like these benefit our customers in the long run, help keeping their bills low."

FPL will go before the Alachua County Commission in September before official construction will begin.

"It would be clean," Vause said. "We all need to be cognizant of cleaner energy sources."

Email Rhamett@alachuatoday.com

"It would have no immediate impact on the city of Hawthorne, but over time, could run both Waldo and Hawthorne with '0' emissions."

■ Hawthorne City Manager Ellen Vause



RAINA BARNETT/Alachua County Today

Local residents and other interested individuals turned out to hear about Florida Power & Light's proposed solar farm that would be built on 1,300 acres just outside Hawthorne. The meeting was held in Hawthorne's City Hall.

Motive unclear

SHOOTING:
Continued from page A1

been twenty-four-year-old Richard Sned, Jr. of Gainesville, but Sandusky says, "That's unclear at this time."

"It is also unclear who rented the vehicle," said Sandusky, who emphasized the incident is still under investigation and details are not known at this time.

Initial reports indicated that a black male wearing blue basketball shorts and a white tank top opened fire on the two subjects standing in their front yard. However, the vehicle has been processed by the Alachua County Sheriff's Crime Scene Investigation team and, Sandusky said, "bullet holes were found in the vehicle."

"At this time," said Sandusky, "it's unclear who was shooting at whom."

APD responded to multiple calls regarding the shooting at approximately 7:16 p.m., according to Sandusky's press release. "Three of our officers arrived on scene and made contact with several witnesses," he said. "Our department is currently following up on leads and should have a clearer picture of the details in the near future."

Email Cwalker@alachuatoday.com

ALACHUA COUNTY TODAY
is your best source for local news
386.462.3355

FAIR HOUSING / EQUAL HOUSING OPPORTUNITY

It is illegal to discriminate based on race, color, religion, sex, national origin, age, disability, or familial status when renting, selling or financing a home or property.

The City of Hawthorne is a Fair Housing Advocate as explained in the City's Fair Housing Ordinance which outlines steps that can be taken locally to report housing discrimination.

A copy of this ordinance can be obtained at the City of Hawthorne City Hall. In addition, information on Fair Housing and Fair Housing Law can be obtained by contacting the Housing Discrimination Hotline at, 1-800-669-9777 (Voice) 1-800-927-9275 (TTY) or on the world wide web at <http://www.hud.gov/offices/fhco/index.cfm>

You Have Rights!! If you feel you have been discriminated against when buying or renting a home please contact Ms. LaKesha McGruder, City Clerk, City of Hawthorne at (352) 481-2432.

(Published: Alachua County Today - July 14, 2016)

PUBLIC NOTICE

A Neighborhood Meeting will be held to discuss a proposed site plan for the Copeland Park Phase I project. This project encompasses Alachua County tax parcels 01210-002-000 & 01927-000-000. The overall site is approximately 10 acres in size and the plan is to construct four 10,000 square foot research buildings in separate phases, along with associated parking, outdoor storage area, stormwater, utilities, and related site improvements. Phase I will include a single building, parking, and access.

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Contact:
Daniel Young, P.E.
Phone Number:
(352) 331-1976

CHI
Professional Consultants

(Published: Alachua County Today - July 14, 2016)

A Neighborhood Meeting at the Library
Announcing Parking lot change:

A Concrete pad is plan for site, to be added to the parking area of the building at: 15417 NW 140th St, Alachua to serve the needs of handicap persons that visit and need haircuts.

Date: July 27th
Time: 5 PM
Meeting Room A
Contact Person: R. McDaniel (352) 284-3189

(Published: Alachua County Today - July 14, 2016)

Custom Lighting, Inc.
A Lighting Storefront

OPEN:
Mon-Fri 8:30 to 5
& Saturday By Appointment

Custom Lighting, Inc.
14545 Main Street, Alachua, FL 386-462-2456
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NOTICE OF PROPOSED ENACTMENT OF ORDINANCE FOR VOLUNTARY ANNEXATION BY CITY COMMISSION OF NEWBERRY, FLORIDA

NOTICE IS HEREBY GIVEN that the proposed Ordinance Number 2016-08 for a voluntary annexation request to the City of Newberry, which title hereinafter appears, will be considered on first reading on Monday, July 25, 2016, at the City Commission meeting starting at 7:00 p.m. in the City Hall at 25440 Newberry Road in Newberry, Florida. A copy of said Ordinance may be inspected by any member of the public at the Office of the Clerk of the Commission in the City Hall, Newberry, Florida. On the date first above mentioned, all interested parties may appear and be heard with respect to the proposed Ordinance.

ORDINANCE NO. 2016-08

AN ORDINANCE OF THE CITY OF NEWBERRY, FLORIDA, ANNEXING CERTAIN PORTIONS OF UNINCORPORATED ALACHUA COUNTY THAT INCLUDES TAX PARCEL NOS. 01924-010-003, 02519-002-000, 02524-005-001, 02524-005-002, 02524-005-006, 02666-004-000, 02667-001-000, 04377-003-000, 04377-004-000, 04377-004-001, 04377-004-002, 01780-000-000, 01831-000-000, 01832-002-000, 01832-004-000, 01919-000-000, 02516-001-000, 02516-002-001, 02516-003-000, 02519-000-000, 02602-006-000, 02666-002-000, 02678-008-000, AS MORE SPECIFICALLY DESCRIBED IN THIS ORDINANCE, AS PETITIONED FOR BY THE PROPERTY OWNERS PURSUANT TO SECTION 171.044, FLORIDA STATUTES; MAKING CERTAIN FINDINGS; PROVIDING FOR LAND USE, ZONING, AND LAND DEVELOPMENT REGULATIONS, AND ENFORCEMENT OF THE SAME; PROVIDING DIRECTIONS TO THE CLERK OF THE COMMISSION; PROVIDING A SEVERABILITY CLAUSE; AND PROVIDING AN IMMEDIATE EFFECTIVE DATE.

CITY OF NEWBERRY ANNEXATION GENERAL PROPERTY LOCATIONS

Complete legal descriptions by metes and bounds and the ordinance can be obtained from the office of the city clerk.

If a person or entity decides to appeal any decision made by the city of Newberry City Commission with respect to any matter considered at such meeting or hearing, said individual or entity will need a record of the proceedings, and that for such purpose, the individual or entity may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. A copy of this ordinance is available at the Newberry City Hall. A metes and bounds description of the property subject to the annexation are available at the Newberry City Hall.

(Published: Alachua County Today - July 14 & 21, 2016)

MEMORANDUM

To: Neighbors of tax parcels 03230-002-000 & 03927-000-000 16-0386
From: Daniel Young, P.E.
Date: Monday July 11, 2016
RE: Neighborhood Meeting Public Notice

A Neighborhood Meeting will be held to discuss a proposed site plan for the Copeland Park Phase I project. This project encompasses Alachua County tax parcels 03230-002-000 & 03927-000-000. The overall site is approximately 10 acres in size and the plan is to construct four 10,000 square foot research buildings in separate phases, along with associated parking, outdoor storage area, stormwater, utilities, and related site improvements. Phase I will include a single building, parking, and access.

Date: Tuesday July 26, 2016

Time: 6:00 p.m.

Place: Perry Center
14180 NW 119th Terrace
Alachua, Florida 32615

Contact: Daniel Young, P.E.
(352) 331-1976

This is not a public hearing. The purpose of the workshop is to inform neighboring property owners of the proposed development plan and to seek their comments. We look forward to seeing you at the workshop.

Directions to Workshop: From Alachua head northwest on Martin Luther King Boulevard toward NW 141 Street, continue on Bob Hitchcock's Main Street, turn right onto NW 140th Street, take Rachel Boulevard to the Perry Center.

03229-000-000

MARLOW ALACHUA HOLDINGS LLC
5212 SNEAD ISLAND RD
PALMETTO FL 34221

03230-002-000

ADC DEVELOPMENT & INVESTMENT
PO BOX 238
LAKE BUTLER FL 32054

03231-001-000

BARBER LUMBER SALES OF ALACHUA
PO BOX 263
ALACHUA FL 32616-0263

03231-005-000

ADC DEVELOPMENT & INVESTMENT
PO BOX 238
LAKE BUTLER FL 32054

03927-002-000

KOOZ PROPERTIES LLC
2815 NW 13TH ST STE 423
GAINESVILLE FL 32609

03927-005-000

CV II PARTNERSHIP
4656 34TH ST SOUTHWEST
ORLANDO FL 32811

03927-007-001

ADC DEVELOPMENT & INVESTMENT
PO BOX 238
LAKE BUTLER FL 32054

03927-010-000

O'STEEN BROTHERS INC
1006 SE 4TH ST
GAINESVILLE FL 32601

03956-010-004

STATE OF FLA IIF TIITF/UNIVERSITY
OF FLORIDA
LIVESTOCK TESTING SITE/BIO BLD
TALLAHASSEE FL 32399

03956-010-038

PROGRESS CENTER PROPERTY, OWNE
13709 PROGRESS BLVD
ALACHUA FL 32615

03229-002-000

THE CHRISTOPHER CORPORATION
PO BOX 1000
ALACHUA FL 32616

03230-002-001

PETRA HOLDINGS COMPANY LLC
12775 RACHEL BLVD
ALACHUA FL 32615-6698

03231-002-000

BLUMBERG, GLENN
11421 NW 120TH TER
ALACHUA FL 32615

03927-000-000

ADC DEVELOPMENT & INVESTMENT
PO BOX 238
LAKE BUTLER FL 32054

03927-003-000

KOOZ PROPERTIES LLC
2815 NW 13TH ST STE 423
GAINESVILLE FL 32609

03927-006-000

BARBER LUMBER SALES OF, ALACHU
PO BOX 263
ALACHUA FL 32616-0263

03927-008-000

O'STEEN BROTHERS INC
1006 SE 4TH ST
GAINESVILLE FL 32601

03927-012-000

NANO ADM LLC
13859 PROGRESS BLVD STE 300
ALACHUA FL 32615

03956-010-018

CITY OF ALACHUA
PO BOX 9
ALACHUA FL 32616

03956-011-000

SNH MEDICAL OFFICE PROPERTIES
TWO NEWTON PLACE
NEWTON MA 02458

03229-003-000

PHOENIX COMMERCIAL PARK
PO BOX 1000
ALACHUA FL 32616

03230-002-002

PETRA HOLDINGS COMPANY LLC
12775 RACHEL BLVD
Alachua FL 32615

03231-004-000

DUAL ENTERPRISES LLC
PO BOX 1808
ALACHUA FL 32616

03927-001-000

NANOSONIC PRODUCTS INC
14120 NW 126TH TER
ALACHUA FL 32615

03927-004-000

BB&C LLC
14000 NW 126TH TER
ALACHUA FL 32615

03927-007-000

O'STEEN BROTHERS INC
1006 SE 4TH ST
GAINESVILLE FL 32601

03927-009-000

O'STEEN BROTHERS INC
1006 SE 4TH ST
GAINESVILLE FL 32601

03929-001-000

CITY OF ALACHUA
PO BOX 9
ALACHUA FL 32616-0009

03956-010-019

CITY OF ALACHUA
PO BOX 9
ALACHUA FL 32616

92060-517-900

CSX TRANSPORTATION INC
TAX DEPARTMENT J-910
JACKSONVILLE FL 32202-4423

Name	Company	Street Address	City	State	Zip
Antoinette Endelicato		5562 NW 93rd Avenue	Gainesville	FL	32653
Dan Rhine		288 Turkey Creek	Alachua	FL	32615
Tom Gorman		9210 NW 59th Street	Alachua	FL	32653
Richard Gorman		5716 NW 93rd Avenue	Alachua	FL	32653
Peggy Arnold		410 Turkey Creek	Alachua	FL	32615
David Forest		23 Turkey Creek	Alachua	FL	32615
John Tingue		333 Turkey Creek	Alachua	FL	32615
President	TCMOA	1000 Turkey Creek	Alachua	FL	32615
Linda Dixon, AICP	Assistant Director Planning	PO Box 115050	Gainesville	FL	32611
Craig Parenteau	FL Deptarment of Environmental Protection	4801 Camp Ranch Road	Gainesville	FL	32641
Jeannette Hinsdale		P.O. Box 1156	Alachua	FL	32616
Lynn Coullias		7406 NW 126th Ave	Alachua	FL	32615
Lynda Coon		7216 NW 126 Avenue	Alachua	FL	32615
Tamara Robbins		PO Box 2317	Alachua	FL	32616
Dr. Lee A. Niblock	Alachua County Manager	12 SE 1st Street	Gainesville	FL	32601
John Amerson	All County Marion Property Management	2916 NE Jacksonville Rd	Ocala	FI	34479

SIGN-IN SHEET

Event: Neighborhood Workshop
Date/Time: July 26, 2016 at 6:00pm
Place: Perry Center, 174180 NW 119th Terrace, Alachua, FL 32615
Re: Copeland Park Phase I

<u>No.</u>	<u>Print Name</u>	<u>Street Address</u>	<u>Signature</u>
1	Randall Olney	CHW 132 NW 76th Drive Gainesville, FL 32607	
2	GLENN BLOOMBERG	13101 ROCHADEL BLVD AL, FL	
3	ELIZABETH HELEN	13909 PROGRESS BVD ALACHUA, FL	
4			
5			
6			
7			
8			
9			
10			
11			
12			

MEETING MINUTES

Project: Copeland Park Phase I 16-0386
From: Randy Olney, P.E.
Date: July 27, 2016
RE: Neighborhood Workshop

A workshop presentation was prepared for this project on Wednesday, July 27, 2016 at 6:00 p.m. as shown in the advertisement. The presentation included an explanation of the review process and an explanation of the proposed project. In attendance were two property owners. The attendees requested a copy of the presentation. A PDF of the presentation was emailed to them the next day. No questions or complaints were received from the public. Please refer to the attached sign-in sheet for additional information.

The meeting began promptly at 6:00 p.m. and ended at 6:30 p.m.

Parcel: 03230-002-000

Search Date: 10/11/2016 at 3:33:14 PM

Taxpayer:	ADC DEVELOPMENT & INVESTMENT	Legal:	THAT PART OF SW1/4 OF SE1/4 LYING S OF OLD SR-2 (LESS COM SE COR OF NW 1/4 OF NE 1/4 SEC N 1332.71 FT S 39.88 FT W - 224.37 FT POB W 168.02 FT N 180.36 FT NELY ALG CURVE 168.23 FT S 190.87 FT POB PER OR 3214/1296)(LESS COM SE COR OF - SW1/4 OF SE1/4 W 40 FT POB W 224.32 FT N 190.89 FT NELY ALG CURVE 226.95 FT S 227.94 FT POB PER OR 4311/0549) OR 3416/ - 0742
Mailing:	PO BOX 238 LAKE BUTLER, FL 32054		
Location:			
Sec-Twn-Rng:	14-08-18		
Property Use:	06500 - Grzgsoil Class6		
Tax Jurisdiction:	Alachua - 1700		
Area:	Progress Center		
Subdivision:	Placeholder		

	Property	Land	Land	Building	Misc	Total	Deferred	County	School	County	School	County	School	Total
YeaR	Use	Assessed Value	Just Value	Value	Value	Just Value	Value	Assessed	Assessed	Exempt	Exempt	Taxable	Taxable	Taxes
2015	Grzgsoil Class6	1900	233600	0	0	233600	0	1900	1900	0	0	1900	1900	47.78
2014	Grzgsoil Class6	2200	280100	0	0	280100	0	2200	2200	0	0	2200	2200	54.64
2013	Grzgsoil Class6	2200	115900	0	0	115900	0	2200	2200	0	0	2200	2200	54.62
2012	Grzgsoil Class6	2200	115900	0	0	115900	0	2200	2200	0	0	2200	2200	54.53
2011	Grzgsoil Class6	2200	115900	0	0	115900	0	2200	2200	0	0	2200	2200	55.73
2010	Grzgsoil Class6	2200	210400	0	0	210400	0	2200	2200	0	0	2200	2200	55.33
2009	Grzgsoil Class6	2300	210400	0	0	210400	0	2300	2300	0	0	2300	2300	57.57
2008	Vacant Industrial	210400	210400	0	0	210400	0	210400	0	0	0	210400	0	4767
2007	Vacant Comm	210400	210400	0	0	210400	0	210400	0	0	0	210400	0	4783.59
2006	Vacant Comm	136800	136800	0	0	136800	0	136800	0	0	0	136800	0	3455.92

Land

Use	Zoning Type	Zoning Desc	Unit Type	Units
Hay	ILW		Acre	4.78
			2015 Certified Land Just Value: 233600	2015 Certified Land Assessed Value: 1900

Sale

Date	Price	Vac/Imp	Qualified	OR Book	OR Page	Instrument
07/11/2006	1600000	I	U	3416	742	MS
12/20/2001	301600	V	U	2410	896	MS
12/01/1985	23400	I	U	1614	2167	WD
06/01/1981	100	V	U	1357	587	WD

Parcel: 03927-000-000

Search Date: 10/11/2016 at 3:35:13 PM

Taxpayer:	ADC DEVELOPMENT & INVESTMENT	Legal:	NW1/4 OF NE1/4 & NE1/4 OF NW1/4 OR 1293/893 (LESS ELY 40 FT R/W PER OR 1261/102) (LESS OR 1559/2388) (LESS - OR 2044/2959) (LESS OR 2296/1975) (LESS THAT PT OF OR 2330/1452) (LESS THAT PT OF OR 2340/1962)(LESS COM SE COR OF - NW 1/4 OF NE 1/4 W 1002.55 FT POB W 958.56 FT N 480 FT E 163.50 FT NELY ALG CURVE 347.26 FT S 52 DEG E 391.90 - FT N 86 DEG E 75.99 FT S 212.53 FT S 34 DEG E 229.82 FT POB)(LESS PARCEL PER OR 3519/1030 PARCEL K/A 3231-5-1) - (LESS PARCEL PER OR 3537/1378 K/A 3927-8)(LESS PARCELS PER OR 3561 /1415 K/A 3927-9 & 3927-10) (LESS PARCEL - PER OR 3836/988 K/A 3927-11)(LESS PARCEL K/A 3927-12 PER OR 4234/1566) (LESS R/W FOR NANO CT & NW 129TH WAY PER OR 4398/1815) OR 1390/ 294 & OR 3416/742
Mailing:	PO BOX 238 LAKE BUTLER, FL 32054		
Location:	13200 NW NANO CT Alachua		
Sec-Twn-Rng:	23-08-18		
Property Use:	06500 - Grzgsoil Class6		
Tax Jurisdiction:	Alachua - 1700		
Area:	Progress Center		
Subdivision:	PlaceHolder		

	Property	Land	Land	Building	Misc	Total	Deferred	County	School	County	School	County	School	Total
YeaR	Use	Assessed Value	Just Value	Value	Value	Just Value	Value	Assessed	Assessed	Exempt	Exempt	Taxable	Taxable	Taxes
2015	Grzgsoil Class6	4700	572900	0	9100	582000	1970	11830	13800	0	1970	11830	11830	313.96
2014	Grzgsoil Class6	4500	572900	0	9400	582300	2910	10990	13900	0	2910	10990	10990	297.38
2013	Grzgsoil Class6	12400	655400	0	5900	661300	0	18300	18300	0	0	18300	18300	454.29
2012	Grzgsoil Class6	12400	655400	0	6200	661600	0	18600	18600	0	0	18600	18600	559.76
2011	Grzgsoil Class6	12400	655400	0	6600	662000	0	19000	19000	0	0	19000	19000	481.29
2010	Grzgsoil Class6	12400	655400	0	6900	662300	0	19300	19300	0	0	19300	19300	485.34
2009	Grzgsoil Class6	12700	655400	0	7200	662600	0	19900	19900	0	0	19900	19900	497.99
2008	Misc. Residence	744700	744700	0	7500	752200	0	752200	0	0	0	752200	0	17348.9
2007	Vacant Comm	817400	817400	0	0	817400	0	817400	0	0	0	817400	0	18596.28
2006	Misc. Residence	456700	456700	0	3400	460100	0	460100	0	0	0	460100	0	11623.32

Land

Use	Zoning Type	Zoning Desc	Unit Type	Units
Hay	ILW		Acre	9.81
			2015 Certified Land Just Value: 572900	2015 Certified Land Assessed Value: 4700

Miscellaneous

Description	Unit Type	Units
0883 - Fence CL	SF	6000
1682 - Paving 2	SF	6000
2015 Certified Miscellaneous Value: 9100		

Sale

Date	Price	Vac/Imp	Qualified	OR Book	OR Page	Instrument
07/11/2006	1600000	I	U	3416	742	WD
12/01/1981	0	I	U	1390	294	WD
06/01/1980	0	I	U	1293	893	WD

RECORDED IN OFFICIAL RECORDS
INSTRUMENT # 2256568 7 PGS
2006 JUL 12 12:25 PM BK 3416 PG 742
J. K. "BUDDY" IRBY
CLERK OF CIRCUIT COURT
ALACHUA COUNTY, FLORIDA
CLERK13 Receipt#291666
Doc Stamp-Deed: 11,200.00

This Document Prepared By and Return to:

Darryl J. Tompkins, Esquire
Darryl J. Tompkins, P.A.
14420 NW 151st Blvd.
P.O. Box 519
Alachua, FL 32616

Parcel ID Number: 03927-000-000, 03230-002-000, 03231-005-000



Warranty Deed

This Indenture, Made this 11th day of July, 2006 A.D., Between
O'Steen Brothers, Inc., a corporation existing under the laws of the
State of Florida
of the County of Alachua, State of Florida, grantor, and
ADC Development & Investment Group, LLC, a Florida limited liability
company
Document #L06000044225 FEI #20-4798771
whose address is: Post Office Box 238, Lake Butler, FL 32054

of the County of Union, State of Florida, grantee.

Witnesseth that the GRANTOR, for and in consideration of the sum of
-----TEN DOLLARS (\$10)----- DOLLARS,
and other good and valuable consideration to GRANTOR in hand paid by GRANTEE, the receipt whereof is hereby acknowledged, has
granted, bargained and sold to the said GRANTEE and GRANTEE'S heirs, successors and assigns forever, the following described land, situate,
lying and being in the County of Alachua State of Florida to wit:
See Exhibit "A" attached hereto.

SUBJECT TO THE FOLLOWING:

- A. Zoning restrictions, prohibitions and other requirements imposed by governmental authority;
- B. Restrictions and matters appearing on the plat and/or common to the subdivision;
- C. Taxes for the year 2006 and subsequent years.

The purpose of reflecting the document number and tax identification number of the Grantee is to avoid any confusion with a limited liability company of the same or similar name.

Grantor hereby reserves for itself, it's successors and/or assigns a non-exclusive easement for Ingress/Egress and Public Utilities over and across the property described in Exhibit B attached hereto.

and the grantor does hereby fully warrant the title to said land, and will defend the same against lawful claims of all persons whomsoever.

In Witness Whereof, the grantor has hereunto set its hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

O'Steen Brothers, Inc.

Printed Name: DARRYL J. TOMPKINS
Witness

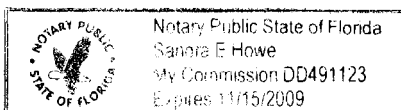
By: William B. O'Steen (Seal)
William Brad O'Steen, President
P.O. Address: 1006 SE 4th Street, Gainesville, FL 32601

Printed Name: Sandra E. Howe
Witness

(Corporate Seal)

STATE OF Florida
COUNTY OF Alachua

The foregoing instrument was acknowledged before me this 11th day of July, 2006 by
William Brad O'Steen, President of O'Steen Brothers, Inc., a Florida
Corporation, on behalf of the corporation
he is personally known to me or he has produced his Florida driver's license as identification.



Printed Name: Sandra E. Howe
Notary Public
My Commission Expires: 11/15/2009

Exhibit "A"

LEGAL DESCRIPTION

A TRACT OF LAND SITUATED IN SECTIONS 14 AND 23, TOWNSHIP 8 SOUTH, RANGE 18 EAST, ALACHUA COUNTY, FLORIDA, SAID TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE AFOREMENTIONED SECTION 23, TOWNSHIP 8 SOUTH, RANGE 18 EAST FOR THE POINT OF REFERENCE AND RUN SOUTH 88 DEG. 59 MIN. 32 SEC. WEST, ALONG THE SOUTH LINE OF SAID NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 23, A DISTANCE OF 40.00 FEET TO THE INTERSECTION OF SAID SOUTH LINE WITH THE WEST RIGHT-OF-WAY LINE OF N.W. 126TH TERRACE (80 FOOT RIGHT-OF-WAY); THENCE RUN SOUTH 89 DEG. 09 MIN. 48 SEC. WEST, ALONG SAID SOUTH LINE, A DISTANCE OF 824.69 FEET TO THE SOUTHWEST CORNER OF THAT CERTAIN PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 2336, PAGE 2030 AND THE TRUE POINT OF BEGINNING; THENCE CONTINUE SOUTH 89 DEG. 08 MIN. 48 SEC. WEST, ALONG SAID SOUTH LINE, A DISTANCE OF 455.86 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 23; THENCE RUN SOUTH 88 DEG. 56 MIN. 13 SEC. WEST, A DISTANCE OF 1526.63 FEET TO THE SOUTHWEST CORNER OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SAID SECTION 23; THENCE RUN NORTH 01 DEG. 25 MIN. 37 SEC. WEST, A DISTANCE OF 1335.11 FEET TO THE NORTHWEST CORNER OF SAID NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 23; THENCE RUN SOUTH 89 DEG. 13 MIN. 54 SEC. WEST, A DISTANCE OF 29.24 FEET TO A CONCRETE MONUMENT; THENCE RUN NORTH 01 DEG. 23 MIN. 30 SEC. WEST, A DISTANCE OF 448.94 FEET TO AN IRON PIPE; THENCE RUN NORTH 89 DEG. 37 MIN. 00 SEC. EAST, ALONG THE SOUTH RIGHT-OF-WAY LINE OF COUNTY ROAD NO. 340-A (66 FOOT RIGHT-OF-WAY), A DISTANCE OF 228.17 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHERLY, SAID CURVE HAVING A RADIUS OF 1723.55 FEET; THENCE RUN SOUTHEASTERLY, ALONG SAID RIGHT-OF-WAY LINE AND WITH SAID CURVE, THROUGH AN ARC ANGLE OF 07 DEG. 09 MIN. 49 SEC., AN ARC DISTANCE OF 215.49 FEET (CHORD BEARING AND DISTANCE OF SOUTH 86 DEG. 47 MIN. 30 SEC. EAST, 215.35 FEET RESPECTIVELY) TO THE END OF SAID CURVE; THENCE RUN SOUTH 83 DEG. 11 MIN. 05 SEC. EAST, ALONG SAID SOUTH RIGHT-OF-WAY LINE, A DISTANCE OF 145.67 FEET TO A BOUNDARY CORNER ALONG THE WEST LINE OF THAT CERTAIN PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 2340, PAGE 1962; THENCE RUN SOUTHERLY AND THEN EASTERLY ALONG THE WEST AND SOUTH BOUNDARY LINES OF SAID LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 2340, PAGE 1962 WITH THE FOLLOWING SIX (6) COURSES; SOUTH 06 DEG. 50 MIN. 15 SEC. WEST, 121.22 FEET; SOUTH 71 DEG. 15 MIN. 38 SEC. WEST, 24.34 FEET; SOUTH 03 DEG. 37 MIN. 22 SEC. WEST, 110.55 FEET; NORTH 86 DEG. 46 MIN. 19 SEC. WEST, 107.04 FEET; SOUTH 00 DEG. 51 MIN. 23 SEC. EAST, 358.93 FEET; SOUTH 80 DEG. 27 MIN. 41 SEC. EAST, 690.19 FEET TO THE SOUTHWEST CORNER OF THAT CERTAIN PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 2330, PAGE 1452 OF SAID PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA; THENCE RUN EASTERLY, NORTHERLY, THEN WESTERLY, ALONG THE SOUTH, EAST, AND NORTH BOUNDARY LINES RESPECTIVELY OF SAID LANDS WITH THE FOLLOWING FOUR (4) COURSES; SOUTH 80 DEG. 34 MIN. 55 SEC. EAST, 279.85 FEET; THENCE RUN NORTHEASTERLY, WITH A CURVE CONCAVE WESTERLY, SAID CURVE HAVING A RADIUS OF 970.00 FEET, THROUGH AN ARC ANGLE OF 19 DEG. 28 MIN. 17 SEC., AN ARC DISTANCE OF 329.64 FEET (CHORD BEARING AND DISTANCE OF NORTH 12 DEG. 41 MIN. 16 SEC. EAST, 328.06 FEET); NORTH 02 DEG. 57 MIN. 06 SEC. EAST, 185.30 FEET; NORTH 82 DEG. 15 MIN. 45 SEC. WEST, 21.42 FEET TO THE NORTHEAST CORNER OF THAT CERTAIN PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 1986, PAGE 2681 OF SAID PUBLIC RECORDS; THENCE RUN NORTH 82 DEG. 15 MIN. 45 SEC. WEST, ALONG THE NORTH LINE OF SAID LANDS, A DISTANCE OF 100.71 FEET TO THE

Exhibit "A" (Continued Pg. 2)

SOUTHEAST CORNER OF THAT CERTAIN PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 2189, PAGE 412 OF SAID PUBLIC RECORDS; THENCE RUN NORTH 06 DEG. 23 MIN. 52 SEC. EAST, A DISTANCE OF 136.86 FEET TO THE NORTHEAST CORNER OF SAID LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 2189, PAGE 412; THENCE RUN SOUTH 83 DEG. 11 MIN. 05 SEC. EAST, ALONG THE AFOREMENTIONED SOUTH LINE OF COUNTY ROAD NO. 340-A, A DISTANCE OF 793.94 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHERLY, SAID CURVE HAVING A RADIUS OF 1943.08 FEET; THENCE RUN NORTHEASTERLY, ALONG SAID RIGHT-OF-WAY LINE AND WITH SAID CURVE, THROUGH AN ARC ANGLE OF 20 DEG. 01 MIN. 25 SEC., AN ARC DISTANCE OF 679.06 FEET (CHORD BEARING AND DISTANCE OF NORTH 86 DEG. 35 MIN. 25 SEC. EAST, 675.61 FEET) TO THE WEST RIGHT-OF-WAY LINE OF N.W. 126 TERRACE (80 FOOT RIGHT-OF-WAY); THENCE RUN SOUTH 01 DEG. 35 MIN. 03 SEC. EAST, ALONG SAID WEST RIGHT-OF-WAY LINE, A DISTANCE OF 227.96 FEET TO THE NORTHEAST CORNER OF THAT CERTAIN PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 2280, PAGE 2275 OF SAID PUBLIC RECORDS; THENCE RUN WESTERLY THEN SOUTHERLY, ALONG THE NORTH AND WEST BOUNDARY LINES OF SAID LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 2280, PAGE 2275 WITH THE FOLLOWING TWO (2) COURSES; SOUTH 89 DEG. 20 MIN. 04 SEC. WEST, 392.39 FEET; SOUTH 01 DEG. 36 MIN. 01 SEC. EAST, 222.49 FEET TO THE SOUTHWEST CORNER OF SAID LANDS, SAID SOUTHWEST CORNER LOCATED ON THE NORTH BOUNDARY LINE OF THAT CERTAIN PARCEL OF LAND AS DESCRIBED IN RECORDS BOOK 2355, PAGE 2784 OF SAID PUBLIC RECORDS; THENCE RUN WESTERLY, SOUTHERLY, AND EASTERLY ALONG SAID NORTH LINE AND THE WEST AND SOUTH BOUNDARY LINES OF SAID LANDS DESCRIBED OFFICIAL RECORDS BOOK 2355, PAGE 2784 WITH THE FOLLOWING FOUR (4) COURSES; SOUTH 89 DEG. 09 MIN. 52 SEC. WEST, 163.26 FEET; SOUTH 01 DEG. 44 MIN. 38 SEC. EAST, 137.92 FEET; SOUTH 57 DEG. 02 MIN. 36 SEC. EAST, 183.57 FEET; NORTH 89 DEG. 09 MIN. 52 SEC. EAST, 403.95 FEET TO THE SOUTHEAST CORNER OF SAID LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 2355, PAGE 2784; THENCE RUN SOUTH 01 DEG. 35 MIN. 03 SEC. EAST, ALONG THE AFOREMENTIONED WEST RIGHT-OF-WAY LINE OF N.W. 126TH TERRACE, A DISTANCE OF 160.80 FEET TO THE NORTHEAST CORNER OF THAT CERTAIN PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 2044, PAGE 2959 OF THE SAID PUBLIC RECORDS; THENCE RUN WESTERLY AND THEN SOUTHERLY ALONG THE NORTH AND WEST BOUNDARY LINES OF SAID LANDS THAT WITH THE FOLLOWING TWO (2) COURSES; SOUTH 89 DEG. 00 MIN. 44 SEC. WEST, 314.88 FEET; SOUTH 19 DEG. 04 MIN. 06 SEC. WEST, 170.11 FEET TO THE SOUTHWEST CORNER OF SAID LANDS; THENCE RUN WESTERLY AND THEN SOUTHERLY ALONG THE NORTH AND WEST BOUNDARY LINES OF THAT CERTAIN PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 2336, PAGE 2030 OF SAID PUBLIC RECORDS WITH THE FOLLOWING TWO (2) COURSES; SOUTH 89 DEG. 10 MIN. 24 SEC. WEST, 450.16 FEET; SOUTH 01 DEG. 36 MIN. 44 SEC. EAST, 549.84 FEET, TO THE TRUE POINT OF BEGINNING.

LESS AND EXCEPT:

A PARCEL OF LAND BEING SITUATED IN SECTION 14, TOWNSHIP 8 SOUTH, RANGE 18 EAST, ALACHUA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER (NW 1/4) OF THE NORTHEAST ONE-QUARTER (NE 1/4) OF SECTION 23, TOWNSHIP 8 SOUTH, RANGE 18 EAST, ALACHUA COUNTY, FLORIDA; THENCE NORTH 01°35'03" WEST ALONG THE EAST LINE OF THE SAID NORTHWEST ONE-QUARTER (NW 1/4) OF THE NORTHEAST ONE-QUARTER (NE 1/4) OF SAID SECTION 23, A DISTANCE OF 1332.71 FEET TO THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER (NW 1/4) OF THE NORTHEAST ONE-QUARTER (NE 1/4); THENCE SOUTH 89°20'04" WEST, ALONG THE NORTH LINE OF THE NORTHWEST ONE-QUARTER (NW 1/4) OF THE NORTHEAST ONE-QUARTER (NE 1/4), A DISTANCE OF 39.88 FEET TO THE NORTHEAST CORNER OF LANDS DESCRIBED IN OFFICIAL

Exhibit "A" (Continued Pg. 3)

RECORDS BOOK 2280, PAGE 2275 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA; THENCE CONTINUE SOUTH 89°20'04" WEST ALONG THE NORTH LINE OF SAID LANDS, A DISTANCE OF 224.37 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 89°20'04" WEST, ALONG SAID NORTH LINE, A DISTANCE OF 168.02 FEET TO THE NORTHWEST CORNER OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 2280, PAGE 2275; THENCE NORTH 01°36'01" WEST, A DISTANCE OF 180.36 FEET TO THE SOUTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 340-A (66 FOOT RIGHT OF WAY), SAID RIGHT OF WAY LINE BEING A CURVE CONCAVE NORTHERLY WITH A RADIUS OF 1943.08 FEET; THENCE NORTHEASTERLY ALONG SAID RIGHT OF WAY AND WITH SAID CURVE, THROUGH AN ARC ANGLE OF 04°57'38", AN ARC DISTANCE OF 168.23 FEET (CHORD BEARING AND DISTANCE OF NORTH 85°45'10" EAST, A DISTANCE OF 168.18 FEET); THENCE DEPARTING SAID RIGHT OF WAY SOUTH 01°36'01" EAST, A DISTANCE OF 190.87 FEET TO THE POINT OF BEGINNING.

SUBJECT TO A 20 FOOT PUBLIC UTILITY EASEMENT OVER, UNDER, AND ACROSS THE SOUTH 20 FEET THEREOF.

ALSO LESS AND EXCEPT:

A TRACT OF LAND SITUATED IN SECTION 23, TOWNSHIP 8 SOUTH, RANGE 18 EAST, ALACHUA COUNTY, FLORIDA, SAID TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE AFOREMENTIONED SECTION 23, TOWNSHIP 8 SOUTH, RANGE 18 EAST FOR THE POINT OF REFERENCE AND RUN SOUTH 88 DEG. 59 MIN. 32 SEC. WEST, ALONG THE SOUTH LINE OF SAID NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 23, A DISTANCE OF 40.00 FEET TO THE INTERSECTION OF SAID SOUTH LINE WITH THE WEST RIGHT OF WAY LINE OF N.W. 126TH TERRACE (80 FOOT RIGHT OF WAY); THENCE RUN SOUTH 89 DEG. 09 MIN. 48 SEC. WEST, ALONG SAID SOUTH LINE, A DISTANCE OF 824.69 FEET TO THE SOUTHWEST CORNER OF THAT CERTAIN PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 2336, PAGE 2030 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA; THENCE RUN SOUTH 89 DEG. 09 MIN. 35 SEC. WEST, ALONG SAID SOUTH LINE, A DISTANCE OF 137.86 FEET TO THE TRUE POINT OF BEGINNING; THENCE CONTINUE SOUTH 89 DEG. 09 MIN. 35 SEC. WEST, ALONG SAID SOUTH LINE, A DISTANCE OF 318.00 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 23; THENCE RUN SOUTH 88 DEG. 55 MIN. 49 SEC. WEST, ALONG THE SOUTH LINE OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SAID SECTION 23, A DISTANCE OF 640.56 FEET; THENCE RUN NORTH 01 DEG. 03 MIN. 47 SEC. WEST, A DISTANCE OF 480.00 FEET TO THE SOUTH LINE OF A 60 FOOT WIDE INGRESS, EGRESS, AND PUBLIC UTILITIES EASEMENT; THENCE RUN NORTH 88 DEG. 56 MIN. 13 SEC. EAST, ALONG SAID SOUTH LINE, A DISTANCE OF 163.50 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHWESTERLY, SAID CURVE HAVING A RADIUS OF 330.00 FEET; THENCE RUN NORTHEASTERLY, ALONG SAID SOUTHERLY LINE OF THE 60 FOOT WIDE INGRESS, EGRESS, AND PUBLIC UTILITIES EASEMENT AND WITH SAID CURVE, THROUGH AN ARC ANGLE OF 60 DEG. 17 MIN. 32 SEC., AN ARC DISTANCE OF 347.26 FEET (CHORD BEARING AND DISTANCE OF NORTH 58 DEG. 47 MIN. 27 SEC. EAST, 331.46 FEET RESPECTIVELY); THENCE RUN SOUTH 52 DEG. 15 MIN. 02 SEC. EAST, A DISTANCE OF 391.90 FEET; THENCE RUN NORTH 86 DEG. 26 MIN. 19 SEC. EAST, A DISTANCE OF 75.99 FEET; THENCE RUN SOUTH 01 DEG. 36 MIN. 44 SEC. EAST, A DISTANCE OF 212.53 FEET; THENCE RUN SOUTH 34 DEG. 02 MIN. 42 SEC. EAST, A DISTANCE OF 229.82 FEET TO THE TRUE POINT OF BEGINNING, CONTAINING 10.05 ACRES MORE OR LESS.

THE ABOVE DESCRIBED OVERALL TRACT OF LAND OF LAND CONTAINS 64.731 ACRES MORE OR LESS.

Exhibit "B"

60 FOOT INGRESS/EGRESS AND PUBLIC UTILITIES PARCEL

A TRACT OF LAND SITUATED IN SECTION 23, TOWNSHIP 8 SOUTH, RANGE 18 EAST, ALACHUA COUNTY, FLORIDA, SAID TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF THE NORTHWEST $\frac{1}{4}$ OF THE NORTHEAST $\frac{1}{4}$ OF THE AFOREMENTIONED SECTION 23, TOWNSHIP 8 SOUTH, RANGE 18 EAST, FOR THE POINT OF REFERENCE AND RUN S $88^{\circ} 59' 32''$ W, ALONG THE SOUTH LINE OF SAID NORTHWEST $\frac{1}{4}$ OF THE NORTHEAST $\frac{1}{4}$ OF SECTION 23, A DISTANCE OF 40.00 FEET TO THE INTERSECTION OF SAID SOUTH LINE WITH THE WEST RIGHT OF WAY LINE OF N.W. 126TH TERRACE (80 FOOT RIGHT OF WAY); THENCE RUN N $01^{\circ} 34' 39''$ W, ALONG SAID WEST RIGHT OF WAY LINE, A DISTANCE OF 710.84 FEET; THENCE RUN N $01^{\circ} 34' 50''$ W, ALONG SAID WEST RIGHT OF WAY LINE, A DISTANCE OF 41.44 FEET TO AN INTERSECTION WITH A NON-TANGENT CURVE CONCAVE SOUTHWESTERLY, HAVING A RADIUS OF 32.00 FEET AND THE POINT OF BEGINNING; THENCE RUN NORTHWESTERLY, ALONG SAID CURVE, THROUGH AN ARC ANGLE OF $43^{\circ} 51' 09''$ AND AN ARC DISTANCE OF 24.49 FEET (CHORD BEARING AND DISTANCE OF N $69^{\circ} 39' 16''$ W, 23.90 FEET RESPECTIVELY) TO THE END OF SAID CURVE; THENCE RUN S $88^{\circ} 25' 10''$ W, A DISTANCE OF 238.14 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 330.00 FEET; THENCE RUN NORTHWESTERLY ALONG SAID CURVE, THROUGH AN ARC ANGLE OF $34^{\circ} 32' 14''$ AN ARC DISTANCE OF 198.92 FEET (CHORD BEARING AND DISTANCE OF N $74^{\circ} 18' 43''$ W, 195.92 FEET RESPECTIVELY) TO THE END OF SAID CURVE; THENCE RUN N $57^{\circ} 02' 36''$ W, A DISTANCE OF 413.15 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 270.00 FEET; THENCE RUN SOUTHWESTERLY ALONG SAID CURVE, THROUGH AN ARC ANGLE OF $95^{\circ} 26' 40''$ AN ARC DISTANCE OF 449.77 FEET (CHORD BEARING AND DISTANCE OF S $75^{\circ} 14' 04''$ W, 399.54 FEET RESPECTIVELY) TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 393.89 FEET; THENCE RUN SOUTHWESTERLY, ALONG SAID CURVE, THROUGH AN ARC ANGLE OF $24^{\circ} 18' 35''$ AN ARC DISTANCE OF 167.12 FEET (CHORD BEARING AND DISTANCE OF S $39^{\circ} 40' 02''$ W, 165.87 FEET RESPECTIVELY) TO THE END OF SAID CURVE; THENCE RUN S $51^{\circ} 49' 20''$ W, A DISTANCE OF 110.99 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 300.00 FEET; THENCE RUN SOUTHWESTERLY ALONG SAID CURVE, THROUGH AN ARC ANGLE OF $24^{\circ} 56' 20''$ AN ARC DISTANCE OF 130.58 FEET (CHORD BEARING AND DISTANCE OF S $39^{\circ} 21' 10''$ W, 129.55 FEET RESPECTIVELY) TO THE POINT OF REVERSE CURVATURE OF A CURVE

CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 330.00 FEET; THENCE RUN SOUTHWESTERLY, ALONG SAID CURVE, THROUGH AN ARC ANGLE OF $62^{\circ} 03' 13''$ AN ARC DISTANCE OF 357.40 FEET (CHORD BEARING AND DISTANCE OF S $57^{\circ} 54' 37''$ W, 340.19 FEET RESPECTIVELY) TO THE END OF SAID CURVE; THENCE RUN S $88^{\circ} 56' 13''$ W, A DISTANCE OF 530.79 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 52.00 FEET; THENCE RUN SOUTHWESTERLY ALONG SAID CURVE, THROUGH AN ARC ANGLE OF $49^{\circ} 00' 16''$ AN ARC DISTANCE OF 44.48 FEET (CHORD BEARING AND DISTANCE OF S $64^{\circ} 26' 05''$ W, 43.13 FEET RESPECTIVELY) TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE NORTHERLY, EASTERLY AND SOUTHERLY, SAID CURVE HAVING A RADIUS OF 73.00 FEET; THENCE RUN SOUTHWESTERLY, WESTERLY, NORTHWESTERLY, NORTHERLY, NORTHEASTERLY, EASTERLY AND SOUTHEASTERLY ALONG SAID CURVE, THROUGH AN ARC ANGLE OF $278^{\circ} 00' 32''$ AN ARC DISTANCE OF 354.21 FEET (CHORD BEARING AND DISTANCE OF

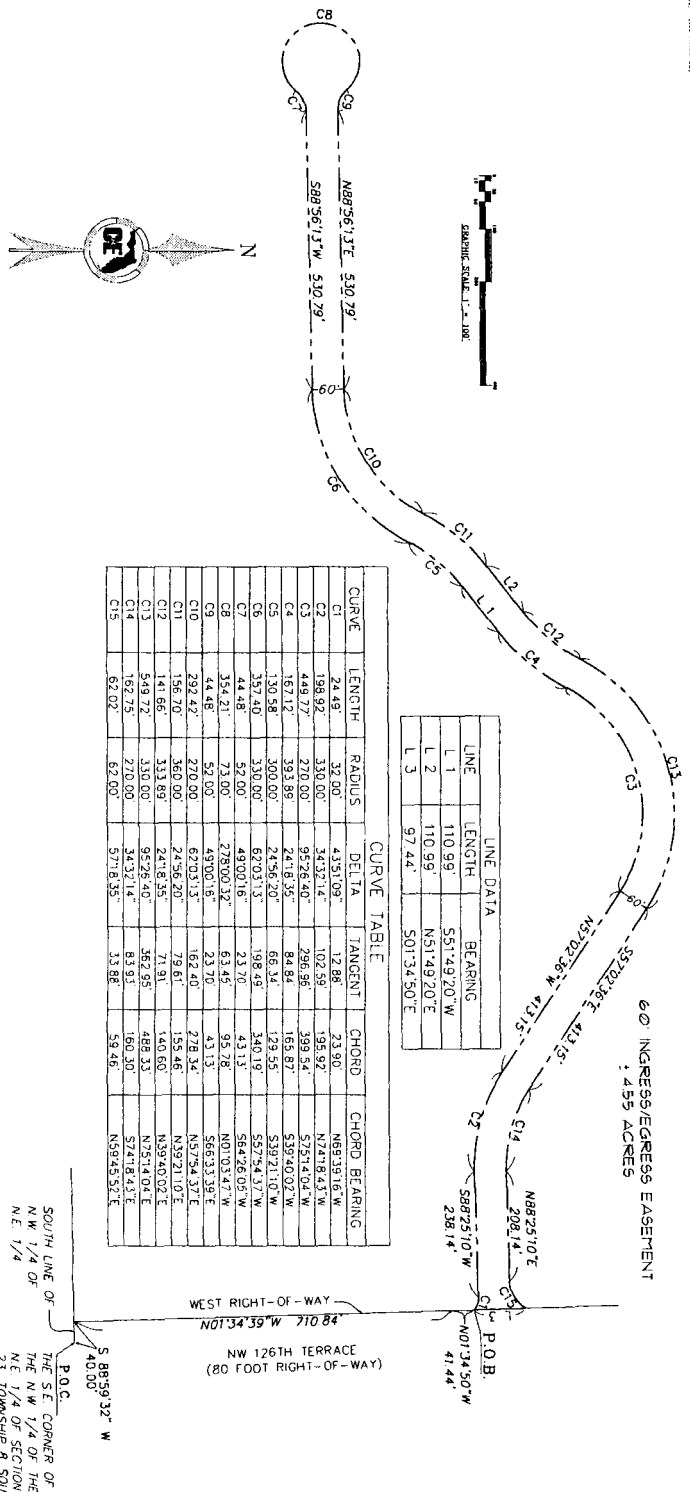
Exhibit "B" (Continued Pg. 2)

N 01° 03' 47" W, 95.78 FEET RESPECTIVELY) TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 52.00 FEET; THENCE RUN SOUTHEASTERLY, ALONG SAID CURVE, THROUGH AN ARC ANGLE OF 49° 00' 16" AN ARC DISTANCE OF 44.48 FEET (CHORD BEARING AND DISTANCE OF S 66° 33' 39" E, 43.13 FEET RESPECTIVELY) TO THE END OF SAID CURVE; THENCE RUN N 88° 56' 13" E, A DISTANCE OF 530.79 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 270.00 FEET; THENCE RUN NORTHEASTERLY ALONG SAID CURVE, THROUGH AN ARC ANGLE OF 62° 03' 13" AN ARC DISTANCE OF 292.42 FEET (CHORD BEARING AND DISTANCE OF N 57° 54' 37" E, 278.34 FEET RESPECTIVELY) TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 360.00 FEET; THENCE RUN NORTHEASTERLY, ALONG SAID CURVE, THROUGH AN ARC ANGLE OF 24° 56' 20" AN ARC DISTANCE OF 156.70 FEET (CHORD BEARING AND DISTANCE OF N 39° 21' 10" E, 155.46 FEET RESPECTIVELY) TO THE END OF SAID CURVE; THENCE RUN N 51° 49' 20" E, A DISTANCE OF 110.99 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 333.89 FEET; THENCE RUN NORTHEASTERLY ALONG SAID CURVE, THROUGH AN ARC ANGLE OF 24° 18' 35" AN ARC DISTANCE OF 141.66 FEET (CHORD BEARING AND DISTANCE OF N 39° 40' 02" E, 140.60 FEET RESPECTIVELY) TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 330.00 FEET; THENCE RUN NORTHEASTERLY, ALONG SAID CURVE, THROUGH AN ARC ANGLE OF 95° 26' 40" AN ARC DISTANCE OF 549.72 FEET (CHORD BEARING AND DISTANCE OF N 75° 14' 04" E, 488.33 FEET RESPECTIVELY) TO THE END OF SAID CURVE; THENCE RUN S 57° 02' 36" E, A DISTANCE OF 413.15 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 270.00 FEET; THENCE RUN SOUTHEASTERLY ALONG SAID CURVE, THROUGH AN ARC ANGLE OF 34° 32' 14" AN ARC DISTANCE OF 162.75 FEET (CHORD BEARING AND DISTANCE OF S 74° 18' 43" E, 160.30 FEET RESPECTIVELY) TO THE END OF SAID CURVE; THENCE RUN N 88° 25' 10" E, A DISTANCE OF 208.14 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 62.00 FEET; THENCE RUN NORTHEASTERLY, ALONG SAID CURVE, THROUGH AN ARC ANGLE OF 57° 18' 35" AN ARC DISTANCE OF 62.02 FEET (CHORD BEARING AND DISTANCE OF N 59° 45' 52" E, 59.46 FEET RESPECTIVELY) TO THE AFOREMENTIONED WEST RIGHT OF WAY LINE OF N.W. 126TH TERRACE; THENCE RUN S 01° 34' 50" E, ALONG SAID WEST RIGHT OF WAY LINE, A DISTANCE OF 97.44 FEET TO THE POINT OF BEGINNING; CONTAINING 4.550 ACRES MORE OR LESS.

**ALL AS SHOWN ON THE MAP ATTACHED
HEREWITH AND MADE A PART HEREOF**

SITUATED IN SECTION 23, TOWNSHIP 8 SOUTH, RANGE 18 EAST,

ALACHUA COUNTY, FLORIDA
 SKETCH - NOT A BOUNDARY SURVEY.



LINE DATA		
LINE	LENGTH	BEARING
L 1	110.99'	S51°49'20"W
L 2	110.99'	N51°49'20"E
L 3	97.44'	S01°34'50"E

CURVE	LENGTH	RADIUS	CURVE TABLE		CHORD	CHORD BEARING
			DELTA	TANGENT		
C1	24.45'	37.00'	43.51.09"	12.88'	73.90'	N85.15.15"E
C2	148.92'	330.00'	74.52.50"	102.58'	109.82'	N47.68.43"E
C3	448.17'	270.00'	95.28.40"	229.58'	338.87'	S35.40.47"W
C4	16.12'	33.95'	19.3.35"	68.34'	19.87'	S32.40.02"W
C5	130.58'	300.00'	24.16.32"	68.34'	128.55'	S39.21.01"E
C6	37.40'	370.00'	62.03.13"	198.79'	340.19'	S87.34.03"W
C7	44.48'	54.00'	49.00.16"	23.70'	64.13'	S84.26.03"W
C8	35.21'	72.00'	27.80.32"	32.70'	93.76'	N01.03.14"E
C9	44.48'	54.00'	49.00.16"	23.70'	64.13'	S86.33.39"E
C10	229.42'	270.00'	67.03.15"	168.40'	278.28'	N65.54.31"E
C11	156.70'	360.00'	24.36.20"	79.61'	158.46'	N59.21.01"E
C12	41.66'	33.69'	62.18.55"	71.51'	46.60'	N39.40.07"E
C13	549.72'	330.00'	95.25.40"	385.95'	468.33'	N15.14.01"E
C14	16.75'	70.00'	34.52.14"	33.93'	16.30'	S74.16.41"E
C15	62.02'	67.00'	57.16.35"	33.86'	58.46'	S59.45.51"E

This map prepared by STACY & HALL	DATE: 05/01/08 SHEET NO: 01-001 PROJECT NO: 05-001 DRAWING NO: 05-001	CE Causseaux & Ellington, Inc. Engineering & Surveying & Planning 5011 NW 1st Place, Gainesville, Florida 32607 Phone: (352) 331-1976 Fax: (352) 331-2478	CERTIFIED TO: AEC DEV & INVESTMENT GROUP, LLC	JOB NO: 06-0362 SHEET NO: 1 OF 1
Certificate of Authorization No. 1.B. 5079 was valid WITHOUT the SIGNATURE AND SEAL OF A P.E. IN THE PROFESSION OF SURVEYING.	PROFESSIONAL SURVEYOR & MAPPER License No. 5798			



2015 Roll Details — Real Estate Account #03230 002 000

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Real Estate Account #03230 002 000

Parcel details

Latest bill

Full bill history

2015	2014	2013	2012	...	2002
PAID	PAID	PAID	PAID		PAID

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PAID 2015-11-18 \$45.87

Receipt #15-0022115

Owner: ADC DEVELOPMENT & INVESTMENT GROUP LLC

PO BOX 238

LAKE BUTLER, FL 32054

Situs: (unknown)

Account number: 03230 002 000

Alternate Key: 1012711

Millage code: 1700

Millage rate: 25.1507

Assessed value: 1,900

School assessed value: 1,900

Property Appraiser

Location is not guaranteed to be accurate.

2015 Annual bill

View

Ad valorem: \$47.78

Non-ad valorem: \$0.00

Total Discountable: 47.78

No Discount NAVA: 0.00

Total tax:

Legal description

THAT PART OF SW1/4 OF SE1/4 LYING S OF OLD SR-2 (LESS COM SE COR OF NW 1/4 OF NE 1/4 SEC N 1332.71 FT S 39.88 FT W 224.37 FT POB W 168.02 FT N 180.36 FT NELY ALG CURVE 168.23 FT S 190.87 FT POB PER OR 3214/1296)(LESS COM SE COR OF SW1/4 OF SE1/4 W 40 FT POB W 224.32 FT N 190.89 FT NELY ALG CURVE 226.95 FT S 227.94 FT POB PER OR 4311/0549) OR 3416/ 0742

Location

Book, page, item: --

Geo number: 14-08-18-03230002000

Range: 18

Township: 08


Section: 14








2015 Roll Details — Real Estate Account #03927 000 000

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Real Estate Account #03927 000 000

 Parcel details

 Latest bill

 Full bill history

2015

2014

2013

2012

...

2002

PAID

PAID

PAID

PAID

PAID

 Get Bills by Email

PAID 2015-11-18 \$301.40

Receipt #15-0022115

Owner: ADC DEVELOPMENT & INVESTMENT GROUP LLC

PO BOX 238

LAKE BUTLER, FL 32054

Situs: (unknown)

Account number: 03927 000 000

Alternate Key: 1014333

Millage code: 1700

Millage rate: 25.1507

Assessed value: 11,830


School assessed value: 13,800



Property Appraiser

Location is not guaranteed to be accurate.

2015 Annual bill

 View

Ad valorem: \$313.96

Non-ad valorem: \$0.00

Total Discountable: 313.96

No Discount NAVA: 0.00

Total tax:

Legal description

NW1/4 OF NE1/4 & NE1/4 OF NW1/4 OR 1293/893 (LESS ELY 40 FT R/W PER OR 1261/102) (LESS OR 1559/2388) (LESS OR 2044/2959) (LESS OR 2296/1975) (LESS THAT PT OF OR 2330/1452) (LESS THAT PT OF OR 2340/1962)(LESS COM SE COR OF NW 1/4 OF NE 1/4 W 1002.55 FT POB W 958.56 FT N 480 FT E 163.50 FT NELY ALG CURVE 347.26 FT S 52 DEG E 391.90 FT N 86 DEG E 75.99 FT S 212.53 FT S 34 DEG E 229.82 FT POB)(LESS PARCEL PER OR 3519/1030 PARCEL K/A 3231-5-1) (LESS PARCEL PER OR 3537/1378 K/A 3927-8)(LESS PARCELS PER OR 3561 /1415 K/A 3927-9 & 3927-10) (LESS PARCEL PER OR 3836/988 K/A 3927-11)(LESS PARCEL K/A 3927-12 PER OR 4234/1566) OR 1390/ 294 & OR 3416/742

Location

Book, page, item: --

Geo number: 23-08-18-03927000000

Range: 18

Township: 08

Section: 23







SUWANNEE RIVER WATER MANAGEMENT DISTRICT

9225 CR 49 • LIVE OAK, FLORIDA 32060 • TELEPHONE 386/362-1001 • 800/226-1066 • FAX 386/362-1056
mysuwanneeriver.com

December 1, 2016

Avery C. Roberts
ADC Development & Investment
P.O. Box 238
Lake Butler, FL 32054

Subject: Environmental Resource Permit (ERP): No Permit Required (NPR), ERP-001-2287241, Copeland Park – Research & Development Buildings, Alachua County

Dear Mr. Roberts:

The above referenced proposed project does not require a new ERP from the Suwannee River Water Management District (District). This decision was based on the fact that this project is part of the master system permitted under ERP-001-206572-4. According to the documentation submitted on or before November 2, 2016, it has been determined that the proposed activity: the construction of a 1.32-acre impervious area research & development facility, provides reasonable assurance that:

1. The existing stormwater system is functioning as permitted.
2. The master system will not change as a result of the connection.
3. The project will not exceed any thresholds established by the existing permit.

Please ensure that turbidity, sedimentation, and erosion are controlled during and after construction of the exempt activity to prevent violations of state water quality standards, including any antidegradation provisions of paragraphs 62-4.242(1)(a) and (b), subsections 62-4.242(2) and (3) and Rule 62-302.300, F.A.C., and any special standards for Outstanding Florida Waters and Outstanding National Resource Waters. Erosion and sediment control best management practices shall be installed and maintained in accordance with the guidelines and specifications described in the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual* (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007) (<https://www.flrules.org/Gateway/reference.asp?No=Ref-02530>), and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual* (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008) (<https://www.flrules.org/Gateway/reference.asp?No=Ref-02531>).

DON QUINCEY, Chair
Chiefland, Florida

ALPHONAS ALEXANDER, Vice Chair
Madison, Florida

VIRGINIA H. JOHNS, Secretary/Treasurer
Alachua, Florida

KEVIN BROWN
Alachua, Florida

GARY F. JONES
Old Town, Florida

CHARLES KEITH
Lake City, Florida

VIRGINIA M. SANCHEZ
Old Town, Florida

RICHARD SCHWAB
Perry, Florida

BRADLEY WILLIAMS
Monticello, Florida

NOAH VALENSTEIN
Executive Director

In addition, construction, alteration, and operation shall not:

- Adversely impound or obstruct existing water flow, cause adverse impacts to existing surface water storage and conveyance capabilities, or otherwise cause adverse water quantity or flooding impacts to receiving water and adjacent lands;
- Cause an adverse impact to the minimum flows and levels established pursuant to Section 373.042, F.S.
- Cause adverse impacts to a Work of the District established pursuant to Section 373.086, F.S.;
- Adversely impede navigation or create a navigational hazard; or
- Cause or contribute to a violation of state water quality standards.

If you have any questions, you may contact me by phone at 386.362.1001 or by email at Brian.Brooker@srwmd.org.

Sincerely,



Brian Brooker, E.I.
Division of Resource Management

BB/tm

cc: Randall Olney, CHW, Inc.
Matt Cason, Concept Development, Inc.

FLORIDA DEPARTMENT OF STATE
DIVISION OF CORPORATIONS



Detail by Entity Name

Florida Limited Liability Company

ADC DEVELOPMENT & INVESTMENT GROUP, LLC.

Filing Information

Document Number L06000044225
FEI/EIN Number 20-4798771
Date Filed 04/28/2006
State FL
Status ACTIVE

Principal Address

12469 W SR 100
LAKE BUTLER, FL 32054

Changed: 04/16/2007

Mailing Address

P.O. BOX 238
LAKE BUTLER, FL 32054

Registered Agent Name & Address

ROBERTS, AVERY C
12469 W SR 100
LAKE BUTLER, FL 32054

Address Changed: 04/16/2007

Authorized Person(s) Detail

Name & Address

Title MGR

ROBERTS, AVERY C
PO BOX 233
LAKE BUTLER, FL 32054

Title Manager

OSTEEN, DEXTER A
16707 NW CR 241
ALACHUA, FL 32615

Annual Reports

Report Year	Filed Date
2014	04/01/2014
2015	04/10/2015
2016	03/28/2016

Document Images

03/28/2016 -- ANNUAL REPORT	View image in PDF format
04/10/2015 -- ANNUAL REPORT	View image in PDF format
04/01/2014 -- ANNUAL REPORT	View image in PDF format
04/01/2013 -- ANNUAL REPORT	View image in PDF format
03/05/2012 -- ANNUAL REPORT	View image in PDF format
03/18/2011 -- ANNUAL REPORT	View image in PDF format
03/19/2010 -- ANNUAL REPORT	View image in PDF format
03/31/2009 -- ANNUAL REPORT	View image in PDF format
02/18/2008 -- ANNUAL REPORT	View image in PDF format
04/16/2007 -- ANNUAL REPORT	View image in PDF format
04/28/2006 -- Florida Limited Liability	View image in PDF format

DESCRIPTION

DATE: January 3, 2017
CLIENT: Concept Development
PROJECT NO: 16-0386
DESCRIPTION FOR: Public Utilities Easement #1

A PARCEL OF LAND SITUATED IN SECTION 14, TOWNSHIP 8 SOUTH, RANGE 18 EAST, ALACHUA COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 3214, PAGE 1296 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, SAID POINT BEING ON THE SOUTH RIGHT OF WAY LINE OF RACHAEL BOULEVARD, A PUBLIC RIGHT OF WAY AND THE BEGINNING OF A CURVE CONCAVE NORTHERLY, HAVING A RADIUS OF 1943.08 FEET AND BEING SUBTENDED BY A CHORD HAVING A BEARING AND DISTANCE OF NORTH 89°21'54" WEST, 162.84 FEET; THENCE WESTERLY ALONG THE ARC OF SAID CURVE AND SAID SOUTHERLY RIGHT OF WAY LINE, THROUGH A CENTRAL ANGLE OF 4°48'11", AN ARC LENGTH OF 162.89 FEET; THENCE DEPARTING SAID SOUTH RIGHT OF WAY LINE, SOUTH 3°02'11" WEST, A DISTANCE OF 20.00 FEET TO THE POINT OF BEGINNING LYING ON THE SOUTHERLY BOUNDARY LINE OF A 20-FOOT PUBLIC UTILITIES EASEMENT; THENCE SOUTH 0°00'00" EAST, A DISTANCE OF 27.03 FEET; THENCE SOUTH 89°48'56" WEST, A DISTANCE OF 4.65 FEET; THENCE NORTH 0°11'04" WEST, A DISTANCE OF 2.23 FEET; THENCE SOUTH 89°48'56" WEST, A DISTANCE OF 24.55 FEET; THENCE SOUTH 0°11'04" EAST, A DISTANCE OF 9.44 FEET; THENCE SOUTH 89°48'56" WEST, A DISTANCE OF 17.63 FEET; THENCE NORTH 44°58'19" WEST, A DISTANCE OF 21.16 FEET; THENCE SOUTH 89°48'56" WEST, A DISTANCE OF 27.15 FEET; THENCE SOUTH 44°48'56" WEST, A DISTANCE OF 9.33 FEET; THENCE SOUTH 89°48'56" WEST, A DISTANCE OF 17.63 FEET; THENCE NORTH 0°11'04" WEST, A DISTANCE OF 9.44 FEET; THENCE SOUTH 89°48'56" WEST, A DISTANCE OF 24.55 FEET; THENCE SOUTH 0°11'04" EAST, A DISTANCE OF 2.23 FEET; THENCE SOUTH 89°48'56" WEST, A DISTANCE OF 4.67 FEET; THENCE NORTH 0°00'00" EAST, A DISTANCE OF 31.79 FEET TO THE AFOREMENTIONED SOUTHERLY BOUNDARY LINE OF A 20-FOOT PUBLIC UTILITIES EASEMENT; THENCE SOUTH 83°11'33" EAST ALONG SAID EASEMENT LINE, A DISTANCE OF 20.88 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHERLY, HAVING A RADIUS OF 1963.08 FEET AND BEING SUBTENDED BY A CHORD HAVING A BEARING AND DISTANCE OF SOUTH 85°10'56" EAST, 122.05 FEET; THENCE EASTERLY ALONG THE ARC OF SAID CURVE AND SAID EASEMENT LINE, THROUGH A CENTRAL ANGLE OF 3°33'47", AN ARC LENGTH OF 122.07 FEET TO THE POINT OF BEGINNING.

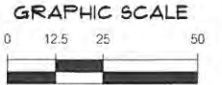
THE ABOVE DESCRIBED PARCEL CONTAINS 4,168 SQUARE FEET , MORE OR LESS.

ALL AS SHOWN ON THE MAP ATTACHED HERewith AND MADE A PART HEREOF

SKETCH TO ACCOMPANY LEGAL DESCRIPTION

SITUATED IN SECTION 14, TOWNSHIP 8 SOUTH, RANGE 18 EAST,
CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA

SKETCH - NOT A BOUNDARY SURVEY



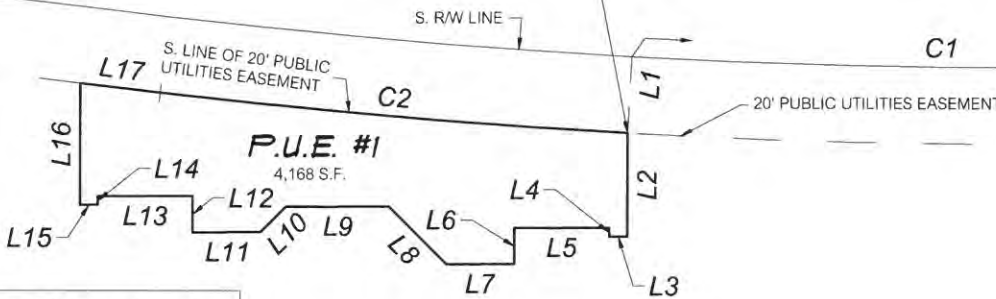
NW 143RD PLACE/
COUNTY ROAD NO 2054/
RACHAEL BLVD (PUBLIC R/W)

POINT OF
BEGINNING

SUBJECT PARCEL
P.U.E. #1
4,168 S.F.

POINT OF
COMMENCEMENT

NW CORNER OF O.R.B. 3214, PAGE 1296



PETRA HOLDINGS COMPANY, LLC
TAX PARCEL 03230-002-001
(O.R.B. 3214, PAGE 1296)

LINE DATA TABLE

LINE	DIRECTION	LENGTH
L1	S 3°02'11" W	20.00'
L2	S 0°00'00" E	27.03'
L3	S 89°48'56" W	4.65'
L4	N 0°11'04" W	2.23'
L5	S 89°48'56" W	24.55'
L6	S 0°11'04" E	9.44'
L7	S 89°48'56" W	17.63'
L8	N 44°58'19" W	21.16'
L9	S 89°48'56" W	27.15'
L10	S 44°48'56" W	9.33'
L11	S 89°48'56" W	17.63'
L12	N 0°11'04" W	9.44'
L13	S 89°48'56" W	24.55'
L14	S 0°11'04" E	2.23'
L15	S 89°48'56" W	4.67'
L16	N 0°00'00" E	31.79'
L17	S 83°11'33" E	20.88'

CURVE DATA TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD	CHORD BEARING
C1	162.89'	1943.08'	4°48'11"	81.49'	162.84'	N 89°21'54" W
C2	122.07'	1963.08'	3°33'47"	61.06'	122.05'	S 85°10'56" E

DESCRIPTION:
(SEE ATTACHED)

SURVEYOR'S NOTES:

1.) BEARINGS SHOWN HEREON ARE REFERRED TO AN ASSUMED VALUE OF NORTH 01°46'16" EAST FOR THE EAST RIGHT-OF-WAY LINE OF NW 129TH WAY

LEGEND:

O.R.B. = OFFICIAL RECORDS BOOK
S.F. = SQUARE FEET
R/W = RIGHT OF WAY
P.U.E. = PUBLIC UTILITIES EASEMENT

CERTIFIED TO:

CONCEPT DEVELOPMENT
CITY OF ALACHUA

7 OF 1

This map prepared by:

MICHAEL L. HARBERT

Certificate of Authorization No. L.B. 5075

NOT VALID WITHOUT THE SIGNATURE AND
ORIGINAL RAISED SEAL OF A FLORIDA
LICENSED SURVEYOR AND MAPPER

Michael L. Harbert
Professional Surveyor & Mapper Fla. License No. 4995

DATE:

1/3/2017

TECHNICIAN:

JTT

CHECKED BY:

MLH

PROJECT NUMBER:

16-0386

SCALE:

1" = 50'

VERIFY SCALE:

BAR IS ONE HALF INCH

ON ORIGINAL DRAWING

IF NOT ONE HALF INCH

ON THIS SHEET, ADJUST

SCALES ACCORDINGLY

CHW
Professional Consultants

132 NW 76th Drive
Gainesville, Florida 32607
(352) 331-1976 / (352) 331-2476
www.chw-inc.com

est. 1986 **FLORIDA**
LB-5075

DESCRIPTION

DATE: January 3, 2017
CLIENT: Concept Development
PROJECT NO: 16-0386
DESCRIPTION FOR: Sidewalk Easement

A 5.00-FOOT STRIP OF LAND SITUATED IN SECTION 14, TOWNSHIP 8 SOUTH, RANGE 18 EAST, ALACHUA COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BEGIN AT THE NORTHWEST CORNER OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 3214, PAGE 1296 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, SAID POINT BEING ON THE SOUTH RIGHT OF WAY LINE OF RACHAEL BOULEVARD, A PUBLIC RIGHT OF WAY; THENCE SOUTH 35°56'05" WEST, A DISTANCE OF 22.42 FEET; THENCE SOUTH 88°23'44" WEST, A DISTANCE OF 36.44 FEET; THENCE NORTH 88°23'28" WEST, A DISTANCE OF 207.94 FEET; THENCE NORTH 82°59'04" WEST, A DISTANCE OF 243.41 FEET TO A POINT LYING ON THE EAST RIGHT OF WAY LINE OF NW 129TH WAY, A PUBLIC RIGHT OF WAY, SAID POINT BEING ON THE ARC OF A CURVE CONCAVE EASTERLY, HAVING A RADIUS OF 35.00 FEET AND BEING SUBTENDED BY A CHORD HAVING A BEARING AND DISTANCE OF NORTH 34°42'11" EAST, 5.65 FEET; THENCE NORTHERLY ALONG THE ARC OF SAID CURVE AND SAID EAST RIGHT OF WAY LINE, THROUGH A CENTRAL ANGLE OF 9°15'13", AN ARC LENGTH OF 5.65 FEET; THENCE DEPARTING SAID EAST RIGHT OF WAY LINE, SOUTH 82°59'04" EAST, A DISTANCE OF 240.55 FEET; THENCE SOUTH 88°23'28" EAST, A DISTANCE OF 207.56 FEET; THENCE NORTH 88°23'44" EAST, A DISTANCE OF 33.70 FEET; THENCE NORTH 36°04'25" EAST, A DISTANCE OF 16.14 FEET TO A POINT LYING ON THE SOUTH RIGHT OF WAY LINE OF RACHAEL BOULEVARD, A PUBLIC RIGHT OF WAY, SAID POINT BEING ON THE ARC OF A CURVE CONCAVE NORTHERLY, HAVING A RADIUS OF 1943.08 FEET AND BEING SUBTENDED BY A CHORD HAVING A BEARING AND DISTANCE OF NORTH 88°19'39" EAST, 6.39 FEET; THENCE WESTERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 0°11'19", AN ARC LENGTH OF 6.39 FEET TO THE POINT OF BEGINNING.

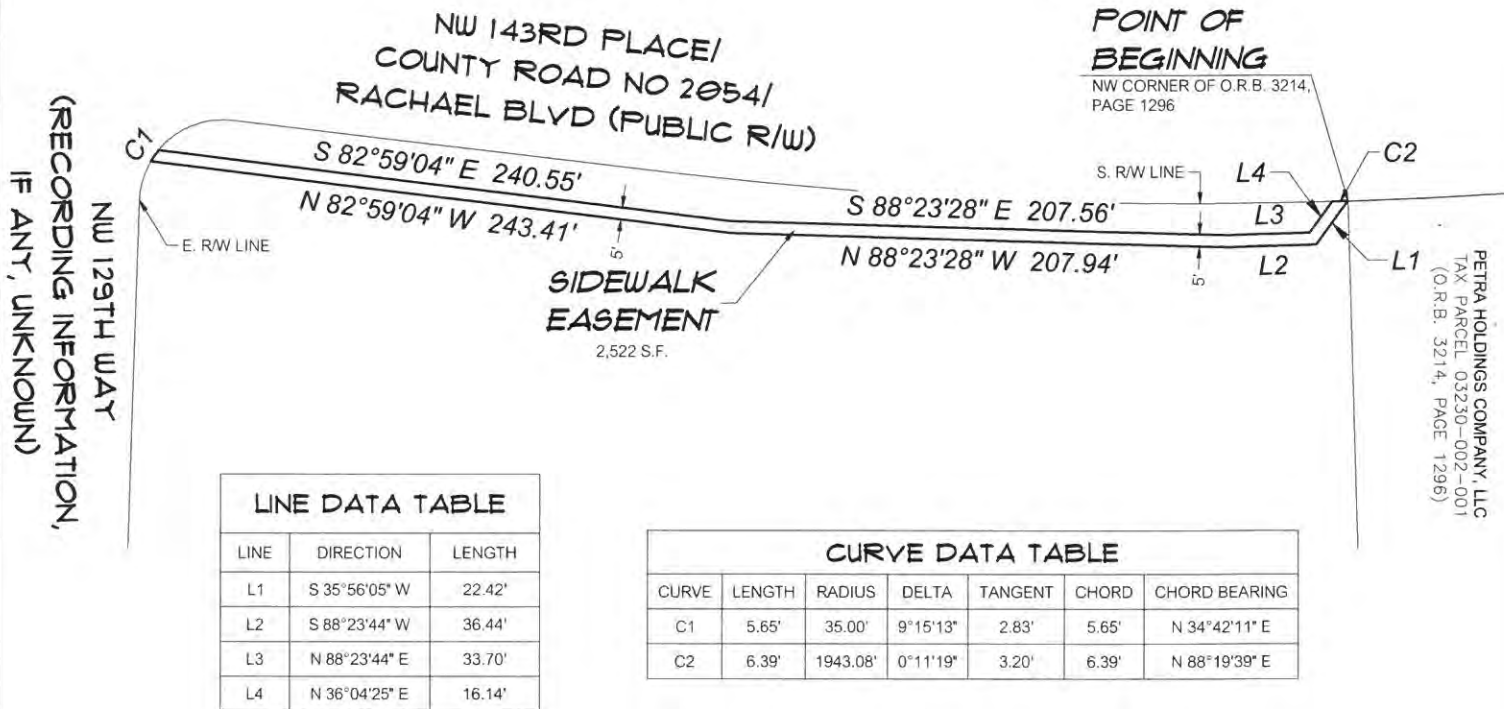
THE ABOVE DESCRIBED PARCEL CONTAINS 2,522 SQUARE FEET , MORE OR LESS.

**ALL AS SHOWN ON THE MAP
ATTACHED HERewith AND MADE
A PART HEREOF**

SKETCH TO ACCOMPANY LEGAL DESCRIPTION

SITUATED IN SECTION 14, TOWNSHIP 8 SOUTH, RANGE 18 EAST,
CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA

SKETCH - NOT A BOUNDARY SURVEY



LINE DATA TABLE

LINE	DIRECTION	LENGTH
L1	S 35°56'05" W	22.42'
L2	S 88°23'44" W	36.44'
L3	N 88°23'44" E	33.70'
L4	N 36°04'25" E	16.14'

CURVE DATA TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD	CHORD BEARING
C1	5.65'	35.00'	9°15'13"	2.83'	5.65'	N 34°42'11" E
C2	6.39'	1943.08'	0°11'19"	3.20'	6.39'	N 88°19'39" E

LEGEND:

O.R.B. = OFFICIAL RECORDS BOOK
S.F. = SQUARE FEET
R/W = RIGHT OF WAY

SURVEYOR'S NOTES:

1.) BEARINGS SHOWN HEREON ARE
REFERRED TO AN ASSUMED VALUE OF NORTH
01°46'16" EAST FOR THE EAST RIGHT-OF-WAY
LINE OF NW 129TH WAY

DESCRIPTION:

(SEE ATTACHED)

CERTIFIED TO:

CONCEPT DEVELOPMENT
CITY OF ALACHUA

SHEET NO.
1 OF 1

This map prepared by:

MICHAEL L. HARBERT

Certificate of Authorization No. L.B. 5075

NOT VALID WITHOUT THE SIGNATURE AND
ORIGINAL RAISED SEAL OF A FLORIDA
LICENSED SURVEYOR AND MAPPER

Michael L. Harbert 4 Jan. 17
Professional Surveyor & Mapper Fla. License No. 4995

DATE
1/3/2017

TECHNICIAN:
JTT

CHECKED BY:
MLH

PROJECT NUMBER:
16-0386

SCALE
1" = 80'

VERIFY SCALE
BAR IS ONE HALF INCH
ON ORIGINAL DRAWING
IF NOT ONE HALF INCH
ON THIS SHEET, ADJUST
SCALES ACCORDINGLY.

Sealed & Gasketed 7" Downlight • LED Type IC

Up to 90,000 Hour Life • 3 Distributions

LM-80 Qualified • LM-79 Certified Photometry • Wet Location



Specifications

Delivered System Performance*

- Standard MFL distribution: 1327 delivered lumens / 63 LPW / 0.7 SC.
- NFL: 1317 lumens / 63 LPW / 0.5 SC.
- WFL: 1187 lumens / 57 LPW / 1.3 SC.
- 20 watt LED array. 3500°K standard (or see Options -27K, -30K or -41K).
- Up to 85 CRI and 90,000 hour life (L70**).
- For 90+ CRI, see Option -HC.
- Option -43: 800 lumen / 11 watt instead.
- Fully sustainable: removable for servicing.

Thermal Management System

- All aluminum proprietary heat sink, components and housing maximize cool operation and long life while minimizing maintenance.

LED Power Supply

- Suitable for outdoor / indoor use: -30°C (-22°F) to 60°C (140°F).
- 120-277V / 50-60Hz standard. Load insensitive.
- 0-10V CCR dimming standard. (100-10%)**
- For Lutron HiLume dimming, see -29 or -39.
- Kirlin remote SmartSupply™ driver instead, see Option -SS for restrictions and details.

Trim / Lens Assembly

- Rustproof 100% aluminum grooveless,

smooth, self-flanged white trim.

- Regressed tempered prismatic spread lens.
- See Option -GE for green acrylic filter.

5X Sealed and Gasketed

- (1) Silicone seal between trim and lens seals lens to trim, (2) closed cell gasketing between trim and housing flange seals trim to housing, (3) closed cell gasketing on trim flange seals flange to ceiling (4) closed cell gasketing on bottom pan seals housing to ceiling and (5) neoprene O-rings on stainless steel fasteners seal fasteners to trim.
- Meets ASTM E283 restricted airflow of 2 CFM maximum.

Acrylic Enameled Aluminum Housing

- Rustproof and corrosion resistant: Exceeds 1000 hour ASTM 5% salt spray test.
- Shallow depth fits restricted plenums.
- Cool operation: Extends life of all components.
- Fully sustainable: Entire luminaire, including light engine, is modular, easily visible, serviced through aperture. Built-in plaster flange.
- Air Tight design (CCEA compliant) available, see Option -AT.

Outlet Box

- UL listed J-box with insulated removable cover. Prewired 14 GA (NEC) with 1/2" and 3/4" knockouts.



"IP65 Rated"

Sealed Housing Optional (CCEA)

Installation

- Recesses indoor/outdoor in covered locations.
- Accommodates ceilings up to 1 1/4" thick.
- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.
- For residential mounting hardware for wood joist ceilings, see Option -RH.

UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.
- Type IC: for direct contact with insulation.
- Through-branch conductors (4 #12 AWG 90°C) for Type IC Listing.

CE & FCC Compliance

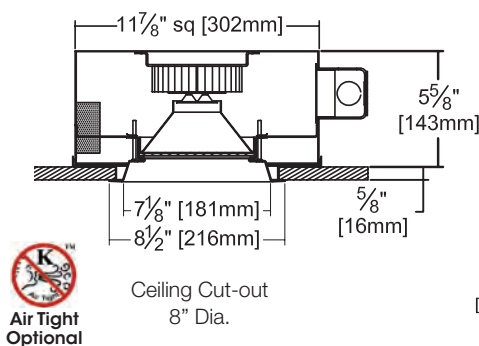
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment.
- FCC Part 15 certified for EMI/RFI emissions.



**FIVE YEAR
Limited Warranty**

- Complete standard fixture.

Performance at a Glance

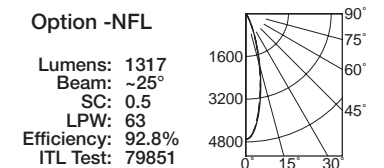
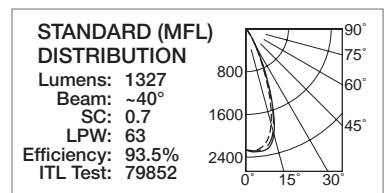
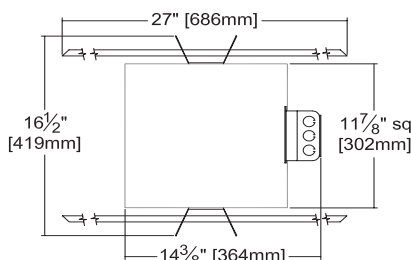


Projected L70** for Kirlin Luminaires	
In Open Plenum	90,000 hours
In Insulation (Type IC)	60,000 hours

**Hours at 70% lumen maintenance



**Exceptional
Energy
Efficiency**



-WFL also available - See next page

THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • www.kirlinlighting.com

*See note next page

LATITUDES LED LIGHTING

CATALOG NUMBER

LRR-07462

DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. THE KIRLIN COMPANY EXPECTS PHOTOMETRIC PERFORMANCE TO IMPROVE SIGNIFICANTLY AND FREQUENTLY AS LED SOURCE TECHNOLOGY IMPROVES.

Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79-08

Photometry from I.T.L., Boulder, CO

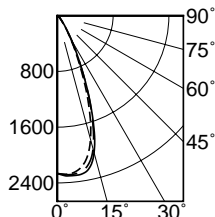
STANDARD (MFL)

Lumens: 1327
Beam: ~40°
SC: 0.7
LPW: 63
Efficiency: 93.5%
ITL Test: 79852



Total System Watts 21.0

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2265	2265	2265	2265	2265
5	2272	2279	2288	2305	2305
10	1835	1887	1978	2025	2035
15	717	754	795	813	801
20	189	190	181	198	205
25	59	58	56	60	64
30	23	24	25	25	24
35	10	23	11	11	10
40	3	3	3	3	2
45	1	1	1	1	0
90	0	0	0	0	0



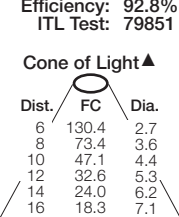
Option -NFL

Lumens: 1317
Beam: ~25°
SC: 0.5
LPW: 63
Efficiency: 92.8%
ITL Test: 79851



Total System Watts 21.0

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	4696	4696	4696	4696	4696
5	4204	4190	4217	4241	4249
10	1998	1980	1956	1998	2030
15	575	539	514	534	564
20	139	127	117	124	139
25	43	42	45	42	43
30	16	16	18	17	16
35	7	7	8	7	7
40	2	2	2	2	2
45	0	0	1	1	1
90	0	0	0	0	0



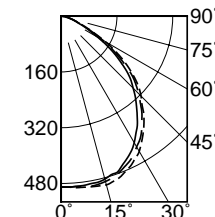
Option -WFL

Lumens: 1187
Beam: ~66°
SC: 1.3
LPW: 57
Efficiency: 73.2%
ITL Test: 83255



Total System Watts 20.9

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	490	490	490	490	490
5	494	493	491	490	490
10	501	498	491	484	484
15	473	472	461	450	449
20	410	407	402	387	381
25	324	322	314	301	292
30	214	213	200	189	185
35	86	86	82	76	76
40	30	29	29	28	28
45	8	8	8	8	8
90	0	0	0	0	0



LM-80 Qualified • LM-79 Certified Photometry

* LED manufacturers maintain a tolerance of $\pm 7\%$ on flux (lumens) and power (electrical) measurements. Kirlin photometrics are actual test data from Independent Testing Laboratories (ITL) where photometry was measured from 1418 lumen (20W) and 1622 lumen (20W -WFL) light engines (within the established tolerance).

▲ Cone of Light Key

(Dia. (in ft.) shown is where FC value is half the FC at nadir.)

Ft. Distance from fixture

FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC

Options

LED Power Supply

- 29 **Two wire** full range (100-1%) PWM dimming instead (Lutron). 120V only. Not available with Option -EI.
- 39 **Three wire** full range (100-1%) PWM dimming instead (Lutron).
- 43 800 lumen / 11 watt series package instead. Apply lumen factor of 60.7% to above data. Also see Options -29 and -39.
- 97 Specify other voltage. Consult factory.
- EI Remote emergency inverter for 100% of rated lumens. Run time: 90+ minutes. 120 or 277V, 60 Hz input only. Specify voltage. Not for use with -SS SmartSupply™ driver or with Option -29.
- SS Remote mounted Kirlin SmartSupply™ driver, sold separately. Drives up to 12

(20W only) luminaires. Order LPS-1220A (0-10V analog for 100-1% PWM dimming). See submittal sheet at www.kirlinlighting.com.

Color (CCT and CRI)

- 27K Color temperature 2700°K instead.
- 30K Color temperature 3000°K instead.
- 41K Color temperature 4100°K instead.
- HC 90+ CRI instead. 2700° or 3000°K only. Reduces output by ~15%.

Optics

- NFL Narrow flood distribution. (0.5 SC)
- WFL Wide flood distribution. (1.3 SC)

Trims

- 13 Clear poly lens below standard lens. Photometric distribution is unaffected.

- 35T Natural aluminum acrylic enameled trim.
- 37T Dark bronze acrylic enameled trim.
- 38T Black acrylic enameled trim.
- 94 Custom color/finish. Specify. Consult factory.
- CF Custom color filter (Rosco). Specify.
- DF Electrically isolated "dead front" gasketed trim.
- GE Green acrylic filter mounted in lens assembly.

Other

- 99 Special modification. Consult factory.
- AT Air tight version. Meets ASTM E283 restricted airflow of 2 CFM maximum. CCEA Approved.
- FS In-line fusing.
- RH Residential mounting hardware instead. Suitable for wood joist ceilings with spacing from 14 1/8" to 25 1/8" with 5/8" vertical adjustability.

SUBMITTAL DATA

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER

APPROVAL STAMP





IES ROAD REPORT

PHOTOMETRIC FILENAME : LRR-07462-WFL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL83255

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUE DATE]11/03/14

[MANUFACT]THE KIRLIN COMPANY

[LUMCAT]LRR-07462-WFL

[LUMINAIRE]FABRICATED METAL HOUSING, FABRICATED METAL HEAT SINK MOUNTING
[MORE]BRACKET, EXTRUDED FINNED BLACK FINISHED METAL HEAT SINK, 1 WHITE CIRCUIT
[MORE]BOARD WITH 4 LEDS, SPUN WHITE PAINTED METAL REFLECTOR AROUND LEDS, SPUN
[MORE]WHITE PAINTED METAL UPPER REFLECTOR, SPUN WHITE PAINTED METAL LOWER
[MORE]REFLECTOR/TRIM, CLEAR PRISMATIC FLAT GLASS LENS OVER UPPER APERTURE OF
[MORE]LOWER REFLECTOR. LENS PRISMS UP.

[LAMP]FOUR WHITE LIGHT EMITTING DIODES (LEDs) EACH WITH CLEAR HEMISPHERICAL
[MORE]INTEGRAL LENS, VERTICAL BASE-UP POSITION.

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 20.9 WATTS, 0.177 AMPS

[MOUNTING]RECESSED

[LEDDRIVER]THOMAS RESEARCH PRODUCTS LED25W-18-C1400-D, DRIVER HAS

[MORE]MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS

[MORE]CONNECTED FOR THIS TEST.

[NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT

[MORE]VOLTAGE (120VAC, 60Hz) TO THE DRIVER.

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[OTHER]TEST DISTANCE = 20.0 FEET

[ABSOLUTE LUMENS]1187

CHARACTERISTICS

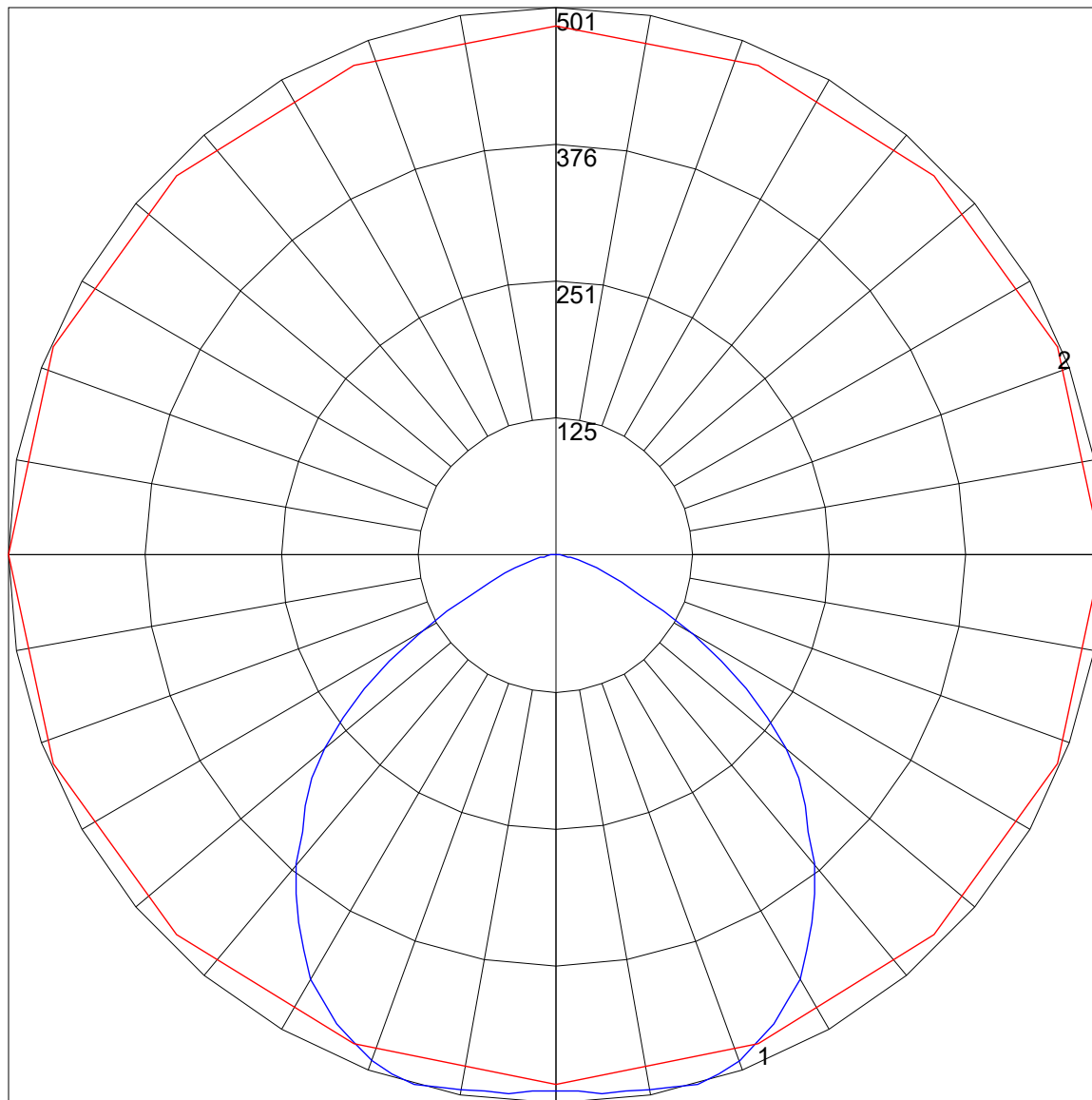
IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	1187 (1 lamp)
Total Lamp Lumens	1187
Luminaire Lumens	1187
Downward Total Efficiency	100 %
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	20.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	501
Maximum Candela Angle	0H 15V
Maximum Candela (<90 Degrees Vertical)	501
Maximum Candela Angle (<90 Degrees Vertical)	0H 15V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	14 (1.2% Lamp Lumens)
Cutoff Classification (deprecated)	Full Cutoff

IES ROAD REPORT
PHOTOMETRIC FILENAME : LRR-07462-WFL.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

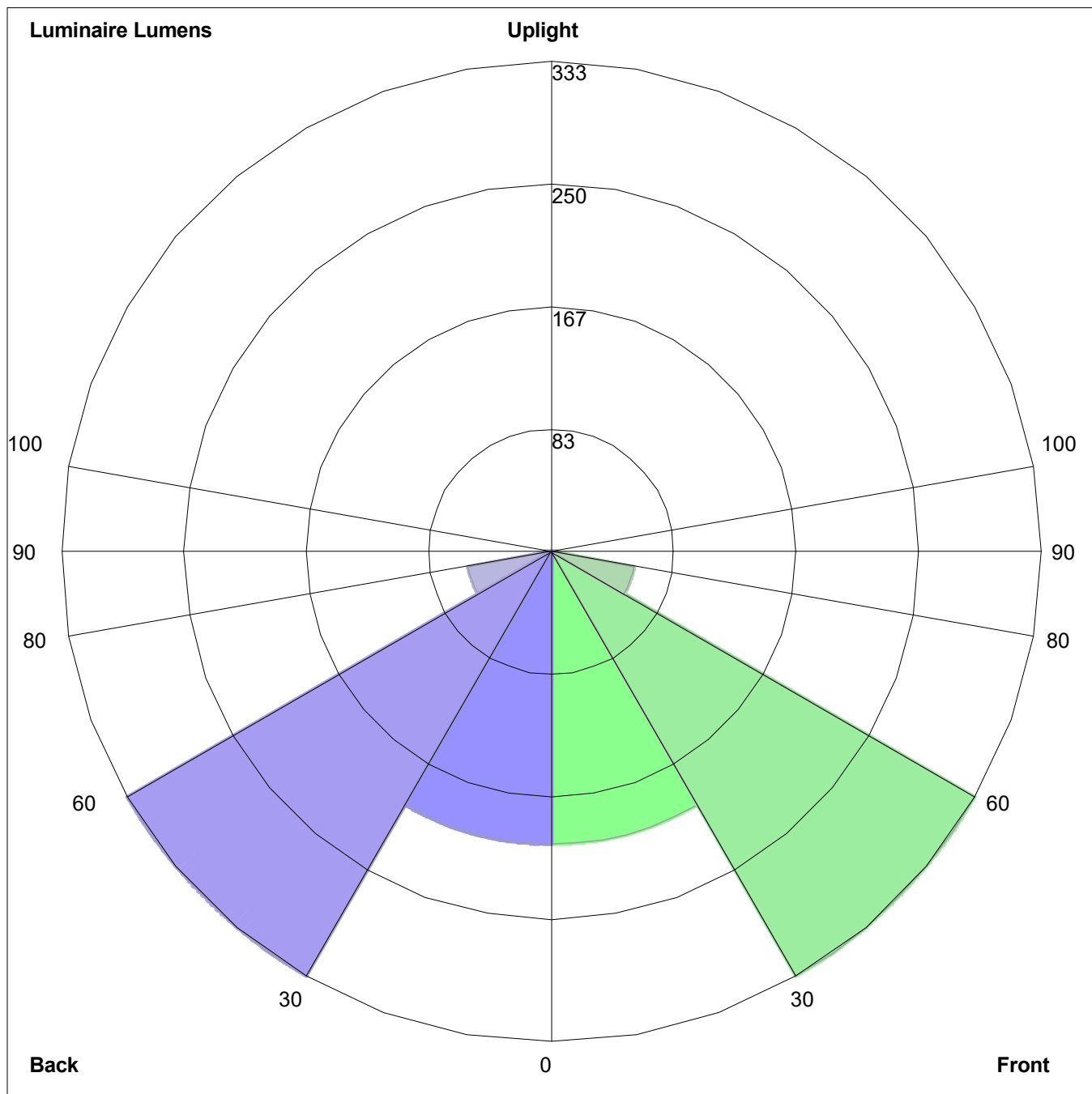
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	198.9	16.8	16.8
FM - Front-Medium (30-60)	333.2	28.1	28.1
FH - Front-High (60-80)	57.3	4.8	4.8
FVH - Front-Very High (80-90)	4.1	0.3	0.3
BL - Back-Low (0-30)	198.9	16.8	16.8
BM - Back-Medium (30-60)	333.2	28.1	28.1
BH - Back-High (60-80)	57.3	4.8	4.8
BVH - Back-Very High (80-90)	4.1	0.3	0.3
UL - Uplight-Low (90-100)	0.0	0.0	0.0
UH - Uplight-High (100-180)	0.0	0.0	0.0
Total	1187.0	100.0	100.0
BUG Rating	B1-U0-G0		

POLAR GRAPH



Maximum Candela = 501 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=198.9, Medium=333.2, High=57.3, Very High=4.1
Back: Low=198.9, Medium=333.2, High=57.3, Very High=4.1
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G0

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

COPELAND PARK TYPE S3H

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 6000K CCT and 3000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table.

Round pole adapter included.

For wall mounting, specify wall mount bracket option. 3G vibration rated. **QUICK MOUNT ARM:** Arm is bolted directly to the pole and the fixture slides onto the quick mount arm and is secured via a single fastener, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.

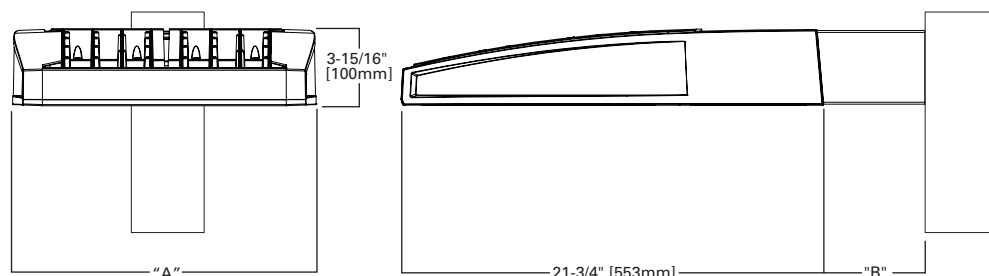


GLEON GALLEON LED

1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE

DIMENSIONS



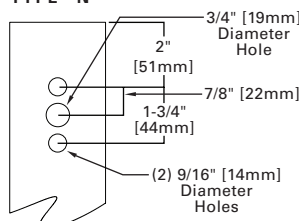
DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN

TYPE "N"



CERTIFICATION DATA

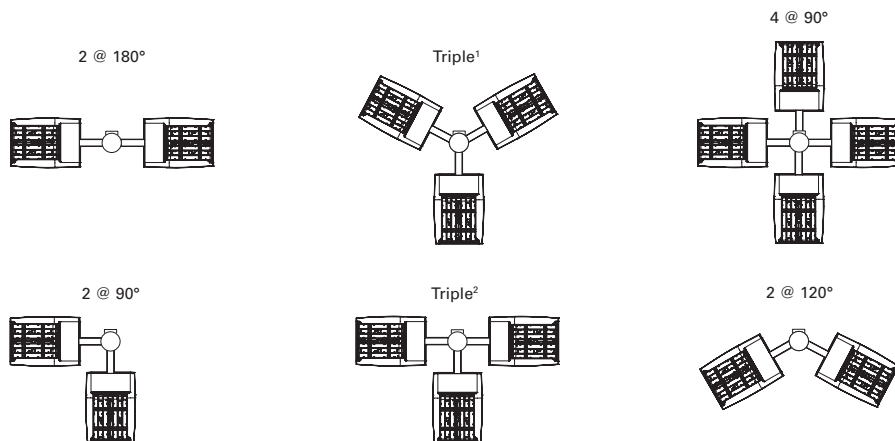
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium™ Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

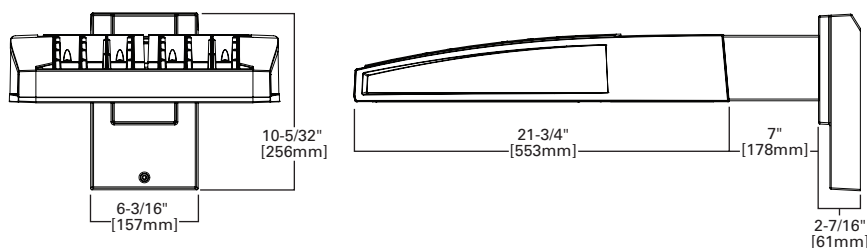
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)

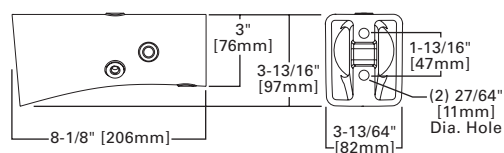


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

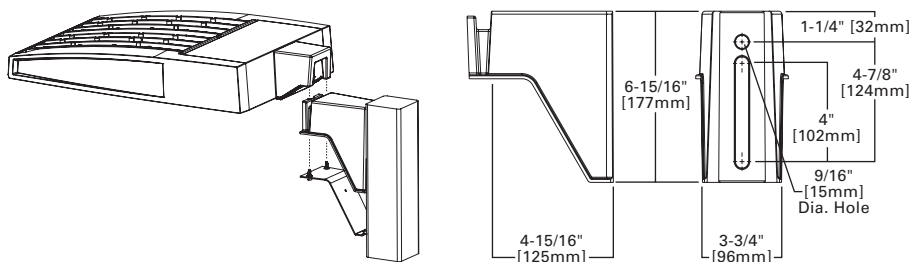
STANDARD WALL MOUNT



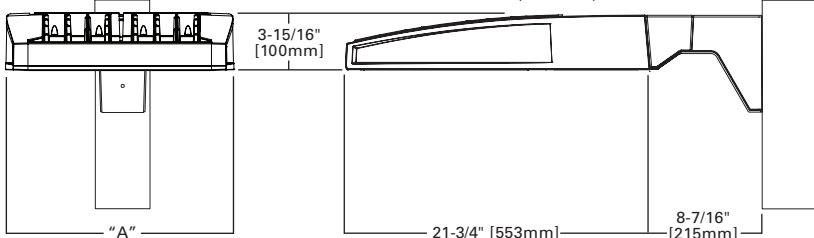
MAST ARM MOUNT



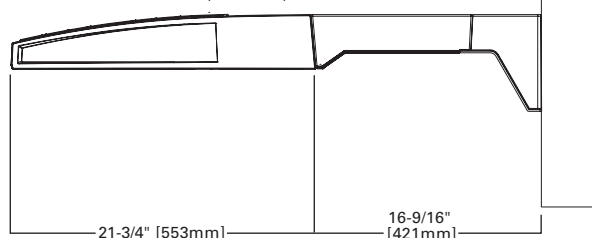
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

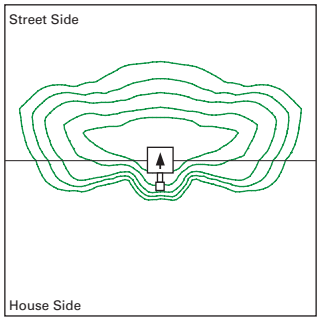


QUICK MOUNT ARM DATA

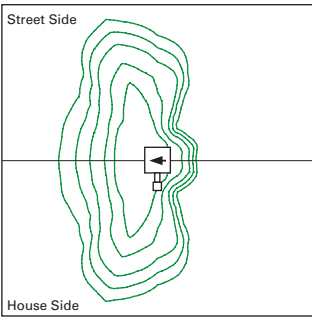
Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

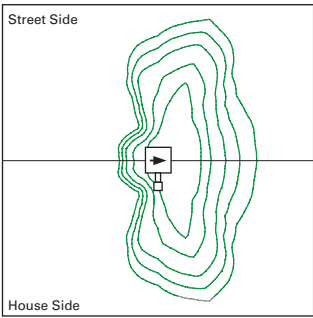
OPTIC ORIENTATION



Standard



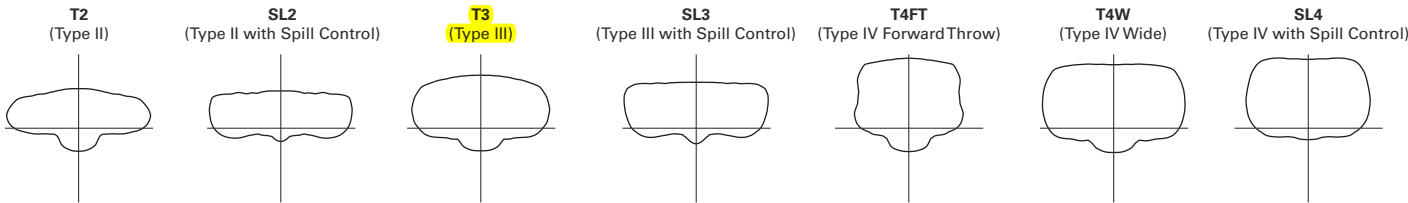
Optics Rotated Left @ 90° [L90]



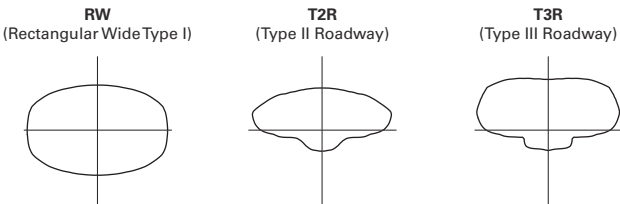
Optics Rotated Right @ 90° [R90]

OPTICAL DISTRIBUTIONS

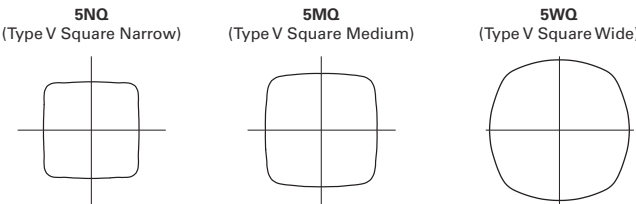
Asymmetric Area Distributions



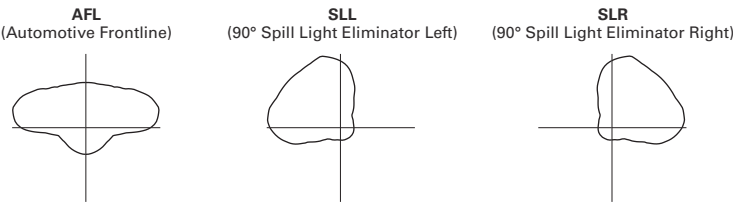
Asymmetric Roadway Distributions



Symmeric Distributions



Specialized Distributions



NOMINAL POWER AND LUMENS (700MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA
Nominal Power (Watts)		38	72	105	138	176	210	243	276	314	348
Input Current @ 120V (A)		0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86
Input Current @ 208V (A)		0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69
Input Current @ 240V (A)		0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49
Input Current @ 277V (A)		0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31
Optics											
T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON =Galleon	AE =1A Drive Current	01 =1 02 =2 03 =3 04 =4 05 =5 06 =6 07 =7 ⁴ 08 =8 ⁴ 09 =9 ⁵ 10 =10 ⁵	LED =Solid State Light Emitting Diodes	E1 =(120-277V) 347 =347V ⁶ 480 =480V ^{6,7}	T2 =Type II T2R =Type II Roadway T3 =Type III T3R =Type III Roadway T4FT =Type IV Forward Throw T4W =Type IV Wide 5NQ =Type V Narrow 5MQ =Type V Square Medium 5WQ =Type V Square Wide SL2 =Type II w/Spill Control SL3 =Type III w/Spill Control SL4 =Type IV w/Spill Control SLL =90° Spill Light Eliminator Left SLR =90° Spill Light Eliminator Right RW =Rectangular Wide Type I AFL =Automotive Frontline	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White	[Blank] =Arm for Round or Square Pole EA =Extended Arm ⁸ MA =Mast Arm Adapter ⁹ WM =Wall Mount QM =Quick Mount Arm (Standard Length) ¹⁰ QMEA =Quick Mount Arm (Extended Length) ¹¹
Options (Add as Suffix)					Accessories (Order Separately)		
2L =Two Circuits ^{12,13} 7030 =70 CRI / 3000K ¹⁴ 8030 =80 CRI / 3000K ¹⁵ 7050 =70 CRI / 5000K ¹⁵ 7060 =70 CRI / 6000K ¹⁴ 530 =Drive Current Factory Set to 530mA ¹⁶ 700 =Drive Current Factory Set to 700mA ¹⁶ P =Button Type Photocontrol (120, 208, 240 or 277V) PER7 =NEMA 7-PIN Twistlock Photocontrol Receptacle R =NEMA Twistlock Photocontrol Receptacle HA =50°C High Ambient ^{13,17} MS/DIM-L08 =Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{18,19,20,21,22} MS/DIM-L20 =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{18,19,20,21,22} MS/DIM-L40 =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{18,19,20,21} MS/DIM-L40W =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,21,25} MS/X-L08 =Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{18,19,20,21,22,26} MS/X-L20 =Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{18,19,20,21,23,26} MS/X-L40 =Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{18,19,20,21,24,26} MS/X-L40W =Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,21,25,26} MS-L08 =Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height ^{18,19,20,21,22} MS-L20 =Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ^{18,19,20,21,23} MS-L40 =Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ^{18,19,20,21,24} MS-L40W =Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,25} DIMRF-LW =LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ²⁷ DIMRF-LN =LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ²⁷ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right MT =Factory Installed Mesh Top TH =Tool-less Door Hardware LCF =Light Square Trim Plate Painted to Match Housing ²⁸ HSS =Factory Installed House Side Shield ²⁹ CE =CE Marking ³⁰					OA/RA1016 =NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027 =NEMA Photocontrol - 480V OA/RA1201 =NEMA Photocontrol - 347V OA/RA1013 =Photocontrol Shorting Cap OA/RA1014 =120V Photocontrol MA1252 =10kV Surge Module Replacement MA1036-XX =Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX =2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX =3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX =4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX =2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX =3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX =2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX =Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX =2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX =3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX =4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX =2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX =3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ³¹ GLEON-MT1 =Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2 =Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3 =Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4 =Field Installed Mesh Top for 9-10 Light Squares GLEON-QM =Quick Mount Arm Kit ¹⁰ GLEON-QM-EA =Quick Mount Extended Length Arm Kit ¹¹ LS/HSS =Field Installed House Side Shield ^{28,32}		

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- DesignLights Consortium™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI.
- Not compatible with extended quick mount arm (QMEA).
- Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
- Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- Factory installed.
- Maximum 8 light squares.
- Maximum 6 light squares.
- 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with LumaWatt wireless sensors.
- Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
- Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
- 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
- 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
- Consult factory for more information.
- Utilizes internal step-down transformer when 347V or 480V is selected.
- The FSIR-100 accessory is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- Not available with HA option.
- Approximately 22' detection diameter at 8' mounting height.
- Approximately 40' detection diameter at 20' mounting height.
- Approximately 60' detection diameter at 40' mounting height.
- Approximately 100' detection diameter at 40' mounting height.
- Replace X with number of light squares operating in low output mode.
- LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
- Not available with house side shield (HSS).
- Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
- CE is not available with the DIMRF, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.
- This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- One required for each Light Square.



IES ROAD REPORT
PHOTOMETRIC FILENAME : GLEON-AE-02-LED-E1-T3-700.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]P124259
[MORE]TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
[TESTLAB]Innovations Center P2
[ISSUE]DATE]1/16/2014
[LUMCAT]GLEON-AE-02-LED-E1-T3-700
[LUMINAIRE]GALLEON LED AREA AND ROADWAY LUMINAIRE
[MORE](2) 70 CRI, 4000K, 700mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
[DRIVER]ELECTRONIC DRIVER
[_ABSOLUTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[MORE]ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS
[MORE]CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER
[MORE]WITH TEST DISTANCE OF 28.75 FEET
[_ABSOLUTE]LUMENS]7676
[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER LIGHTING)
[_SEARCH_APPLICATION] Outdoor, Area, Commercial, Industrial, Parking, Roadway, Site, Street, Wet Location
[_SEARCH_MOUNTING] Arm, Pole
[_SEARCH_CRI] 70
[_SEARCH_SOURCE]TYPE] LED
[_SEARCH_COLOR]TEMP] 4000K

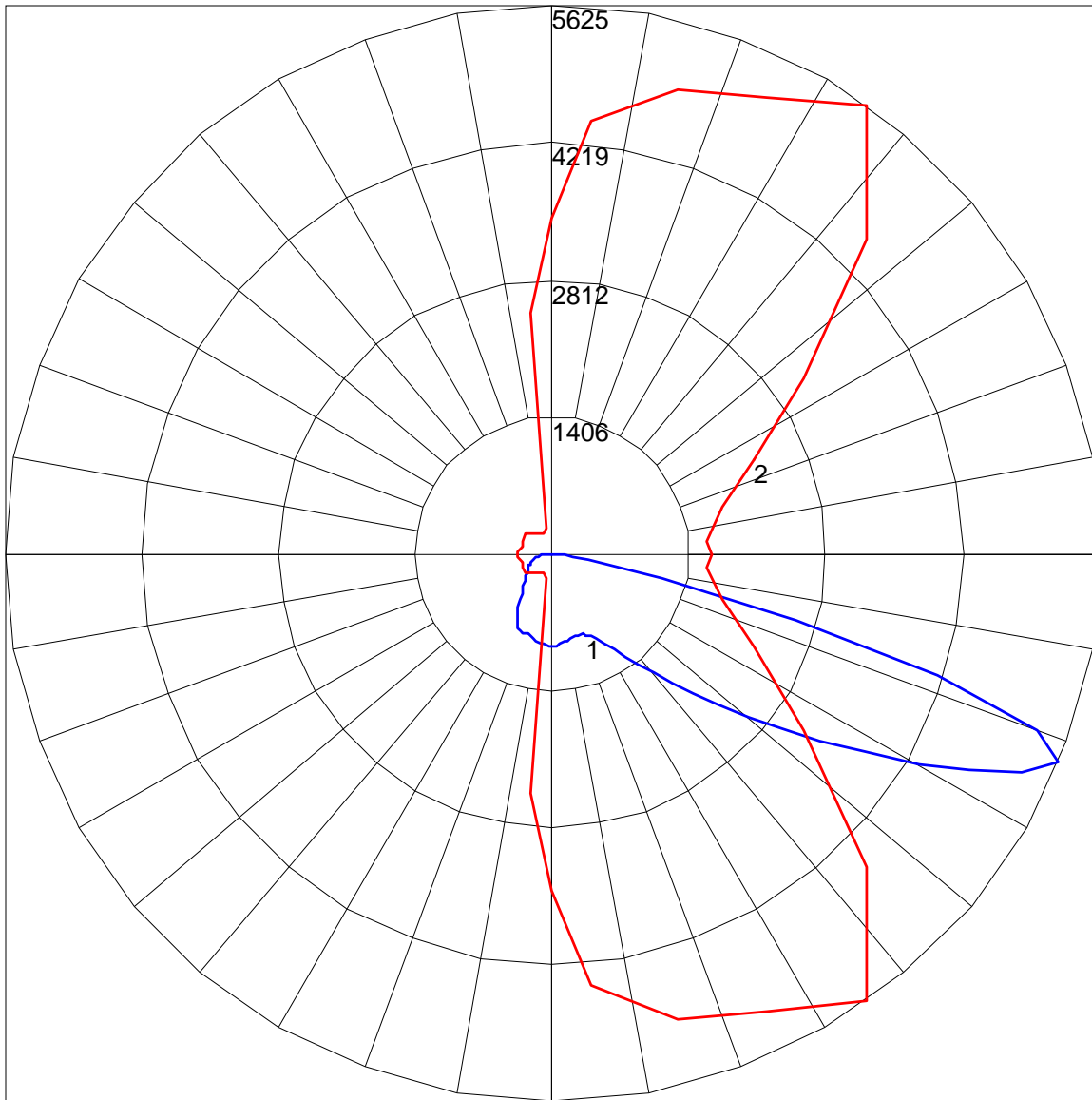
CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7676
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5624.7
Maximum Candela Angle	55H 67.5V
Maximum Candela (<90 Degrees Vertical)	5624.7
Maximum Candela Angle (<90 Degrees Vertical)	55H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	665.9 (8.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

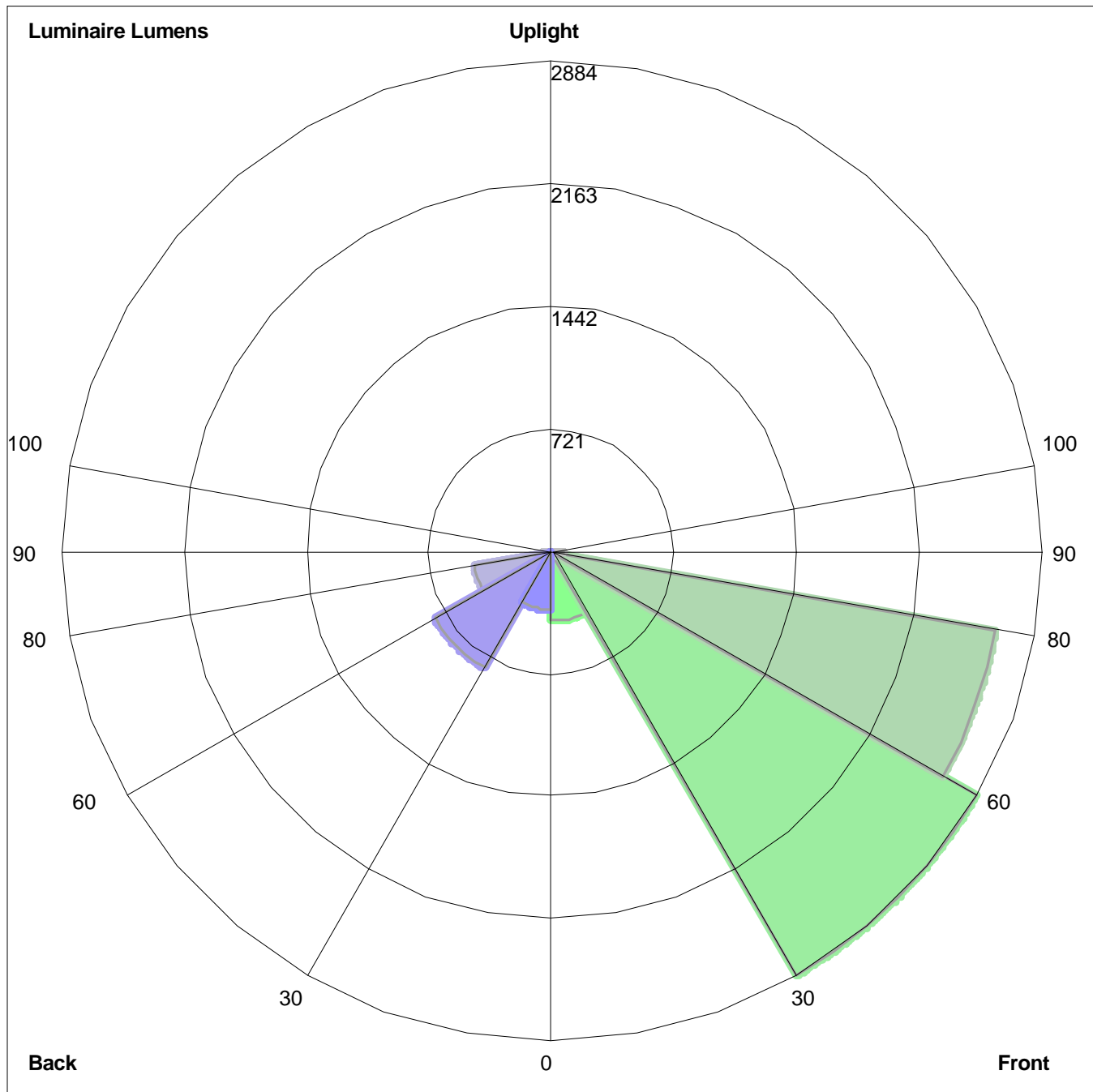
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	411.5	N.A.	5.4
FM - Front-Medium (30-60)	2883.7	N.A.	37.6
FH - Front-High (60-80)	2653.6	N.A.	34.6
FVH - Front-Very High (80-90)	69.1	N.A.	0.9
BL - Back-Low (0-30)	346.3	N.A.	4.5
BM - Back-Medium (30-60)	791.9	N.A.	10.3
BH - Back-High (60-80)	461.5	N.A.	6.0
BVH - Back-Very High (80-90)	58.5	N.A.	0.8
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7676.1	N.A.	100.0
BUG Rating	B1-U0-G2		

POLAR GRAPH



Maximum Candela = 5624.7 Located At Horizontal Angle = 55, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=411.5, Medium=2883.7, High=2653.6, Very High=69.1
Back: Low=346.3, Medium=791.9, High=461.5, Very High=58.5
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

COPELAND PARK TYPE S5

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 6000K CCT and 3000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table.

Round pole adapter included.

For wall mounting, specify wall mount bracket option. 3G vibration rated. **QUICK MOUNT ARM:** Arm is bolted directly to the pole and the fixture slides onto the quick mount arm and is secured via a single fastener, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.

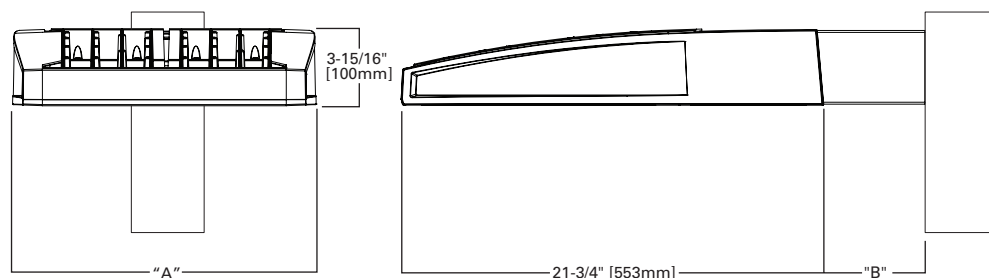


GLEON GALLEON LED

1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE

DIMENSIONS



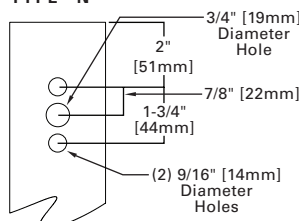
DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN

TYPE "N"



CERTIFICATION DATA

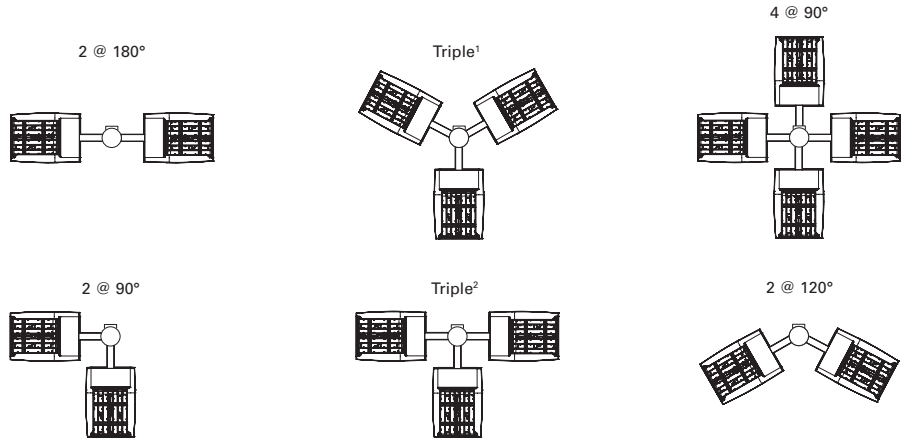
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium™ Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

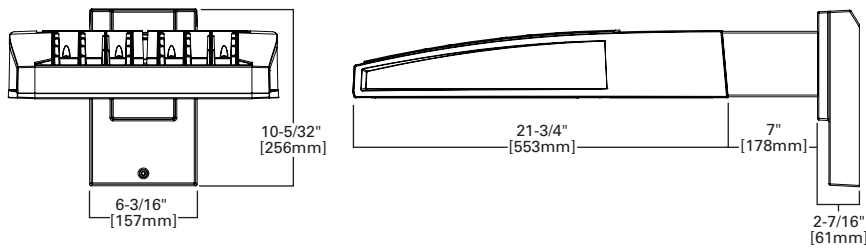
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)

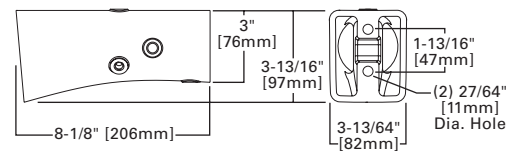


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

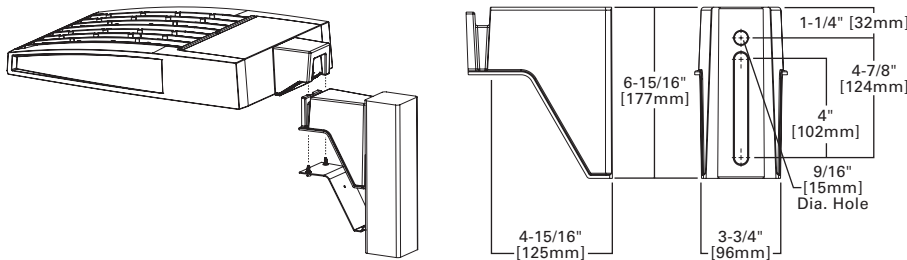
STANDARD WALL MOUNT



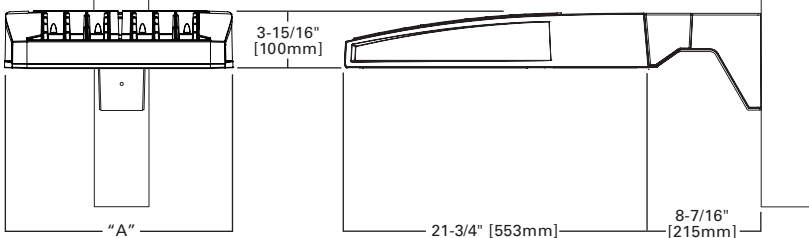
MAST ARM MOUNT



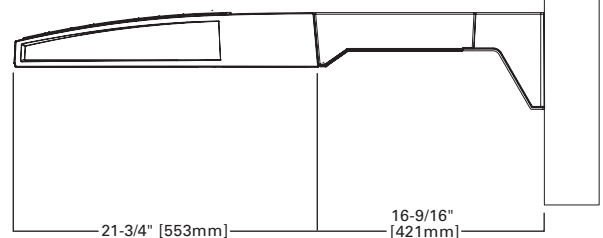
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

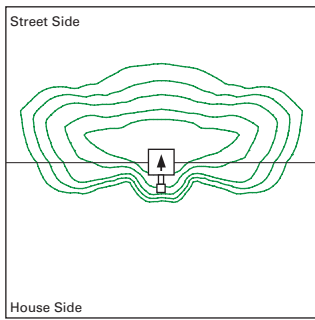


QUICK MOUNT ARM DATA

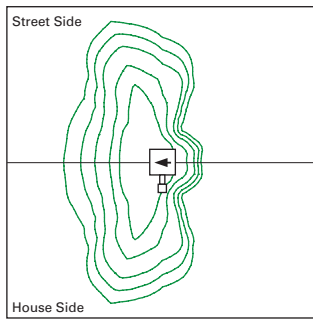
Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

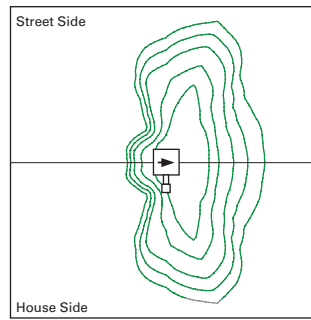
OPTIC ORIENTATION



Standard



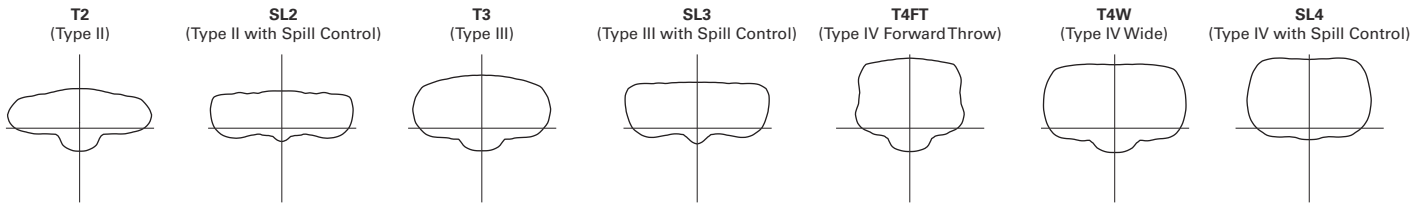
Optics Rotated Left @ 90° [L90]



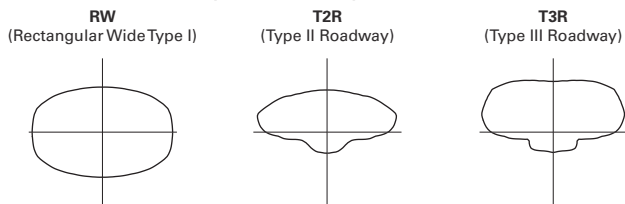
Optics Rotated Right @ 90° [R90]

OPTICAL DISTRIBUTIONS

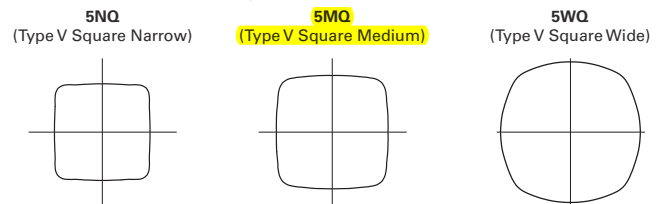
Asymmetric Area Distributions



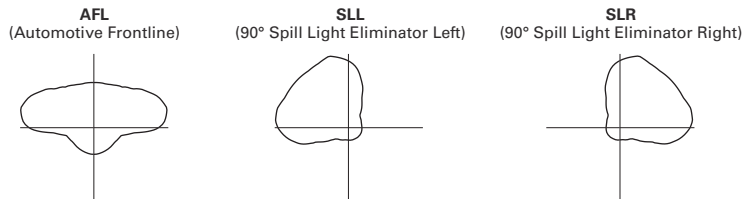
Asymmetric Roadway Distributions



Symmertric Distributions



Specialized Distributions



NOMINAL POWER AND LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Nominal Power (Watts)		56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)		0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)		0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)		0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)		0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON =Galleon	AE =1A Drive Current	01 =1 02 =2 03 =3 04 =4 05 =5 06 =6 07 =7 ⁴ 08 =8 ⁴ 09 =9 ⁵ 10 =10 ⁵	LED =Solid State Light Emitting Diodes	E1 =(120-277V) 347 =347V ⁶ 480 =480V ^{6,7}	T2 =Type II T2R =Type II Roadway T3 =Type III T3R =Type III Roadway T4FT =Type IV Forward Throw T4W =Type IV Wide 5NQ =Type V Narrow 5MQ =Type V Square Medium 5WQ =Type V Square Wide SL2 =Type II w/Spill Control SL3 =Type III w/Spill Control SL4 =Type IV w/Spill Control SLL =90° Spill Light Eliminator Left SLR =90° Spill Light Eliminator Right RW =Rectangular Wide Type I AFL =Automotive Frontline	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White	[Blank] =Arm for Round or Square Pole EA =Extended Arm ⁸ MA =Mast Arm Adapter ⁹ WM =Wall Mount QM =Quick Mount Arm (Standard Length) ¹⁰ QMEA =Quick Mount Arm (Extended Length) ¹¹
Options (Add as Suffix)					Accessories (Order Separately)		
2L =Two Circuits ^{12,13} 7030 =70 CRI / 3000K ¹⁴ 8030 =80 CRI / 3000K ¹⁵ 7050 =70 CRI / 5000K ¹⁵ 7060 =70 CRI / 6000K ¹⁴ 530 =Drive Current Factory Set to 530mA ¹⁶ 700 =Drive Current Factory Set to 700mA ¹⁶ P =Button Type Photocontrol (120, 208, 240 or 277V) PER7 =NEMA 7-PIN Twistlock Photocontrol Receptacle R =NEMA Twistlock Photocontrol Receptacle HA =50°C High Ambient ^{13,17} MS/DIM-L08 =Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{18,19,20,21,22} MS/DIM-L20 =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{18,19,20,21,22} MS/DIM-L40 =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{18,19,20,21} MS/DIM-L40W =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,21,25} MS/X-L08 =Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{18,19,20,21,22,26} MS/X-L20 =Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{18,19,20,21,23,26} MS/X-L40 =Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{18,19,20,21,24,26} MS/X-L40W =Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,21,25,26} MS-L08 =Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height ^{18,19,20,21,22} MS-L20 =Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ^{18,19,20,21,23} MS-L40 =Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ^{18,19,20,21,24} MS-L40W =Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,25} DIMRF-LW =LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ²⁷ DIMRF-LN =LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ²⁷ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right MT =Factory Installed Mesh Top TH =Tool-less Door Hardware LCF =Light Square Trim Plate Painted to Match Housing ²⁸ HSS =Factory Installed House Side Shield ²⁹ CE =CE Marking ³⁰					OA/RA1016 =NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027 =NEMA Photocontrol - 480V OA/RA1201 =NEMA Photocontrol - 347V OA/RA1013 =Photocontrol Shorting Cap OA/RA1014 =120V Photocontrol MA1252 =10kV Surge Module Replacement MA1036-XX =Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX =2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX =3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX =4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX =2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX =3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX =2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX =Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX =2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX =3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX =4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX =2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX =3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ³¹ GLEON-MT1 =Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2 =Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3 =Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4 =Field Installed Mesh Top for 9-10 Light Squares GLEON-QM =Quick Mount Arm Kit ¹⁰ GLEON-QM-EA =Quick Mount Extended Length Arm Kit ¹¹ LS/HSS =Field Installed House Side Shield ^{28,32}		

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- DesignLights Consortium™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI.
- Not compatible with extended quick mount arm (QMEA).
- Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
- Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- Factory installed.
- Maximum 8 light squares.
- Maximum 6 light squares.
- 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with LumaWatt wireless sensors.
- Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
- Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
- 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
- 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
- Consult factory for more information.
- Utilizes internal step-down transformer when 347V or 480V is selected.
- The FSIR-100 accessory is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- Not available with HA option.
- Approximately 22' detection diameter at 8' mounting height.
- Approximately 40' detection diameter at 20' mounting height.
- Approximately 60' detection diameter at 40' mounting height.
- Approximately 100' detection diameter at 40' mounting height.
- Replace X with number of light squares operating in low output mode.
- LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
- Not available with house side shield (HSS).
- Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
- CE is not available with the DIMRF, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.
- This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- One required for each Light Square.



IES ROAD REPORT

PHOTOMETRIC FILENAME : GLEON-AE-01-LED-E1-5MQ.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]P123920

[MORE]TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)

[TESTLAB]Innovations Center P2

[ISSUE]DATE]12/22/2013

[LUMCAT]GLEON-AE-01-LED-E1-5MQ

[LUMINAIRE]GALLEON LED AREA AND ROADWAY LUMINAIRE

[MORE](1) 70 CRI, 4000K, 1A LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS

[DRIVER]ELECTRONIC DRIVER

[_ABSOLUTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[MORE]ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS

[MORE]CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER

[MORE]WITH TEST DISTANCE OF 28.75 FEET

[_ABSOLUTE]LUMENS]5644

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER LIGHTING)

[_SEARCH_APPLICATION] Outdoor, Area, Commercial, Industrial, Parking, Roadway, Site, Street, Wet Location

[_SEARCH_MOUNTING] Arm, Pole

[_SEARCH_CRI] 70

[_SEARCH_SOURCETYPE] LED

[_SEARCH_COLORTEMP] 4000K

CHARACTERISTICS

IES Classification

Type VS

Longitudinal Classification

Short

Lumens Per Lamp

N.A. (absolute)

Total Lamp Lumens

N.A. (absolute)

Luminaire Lumens

5644

Downward Total Efficiency

N.A. (absolute)

Total Luminaire Efficiency

N.A. (absolute)

Luminaire Efficacy Rating (LER)

101

Total Luminaire Watts

56

Ballast Factor

1.00

Upward Waste Light Ratio

0.00

Maximum Candela

3321.8

Maximum Candela Angle

45H 67.5V

Maximum Candela (<90 Degrees Vertical)

3321.8

Maximum Candela Angle (<90 Degrees Vertical)

45H 67.5V

Maximum Candela At 90 Degrees Vertical

0 (0.0% Luminaire Lumens)

Maximum Candela from 80 to <90 Degrees Vertical

122.8 (2.2% Luminaire Lumens)

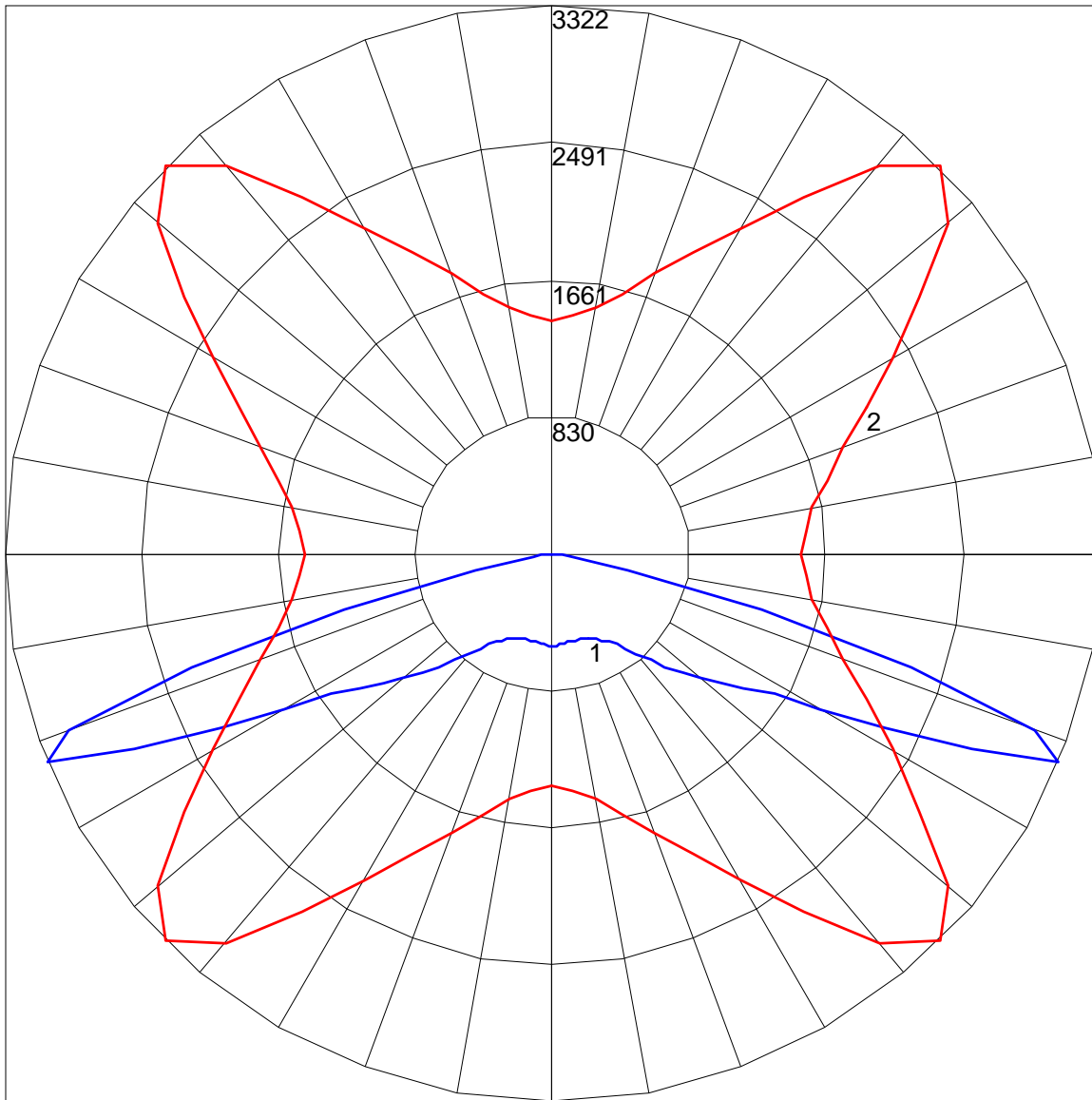
Cutoff Classification (deprecated)

N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

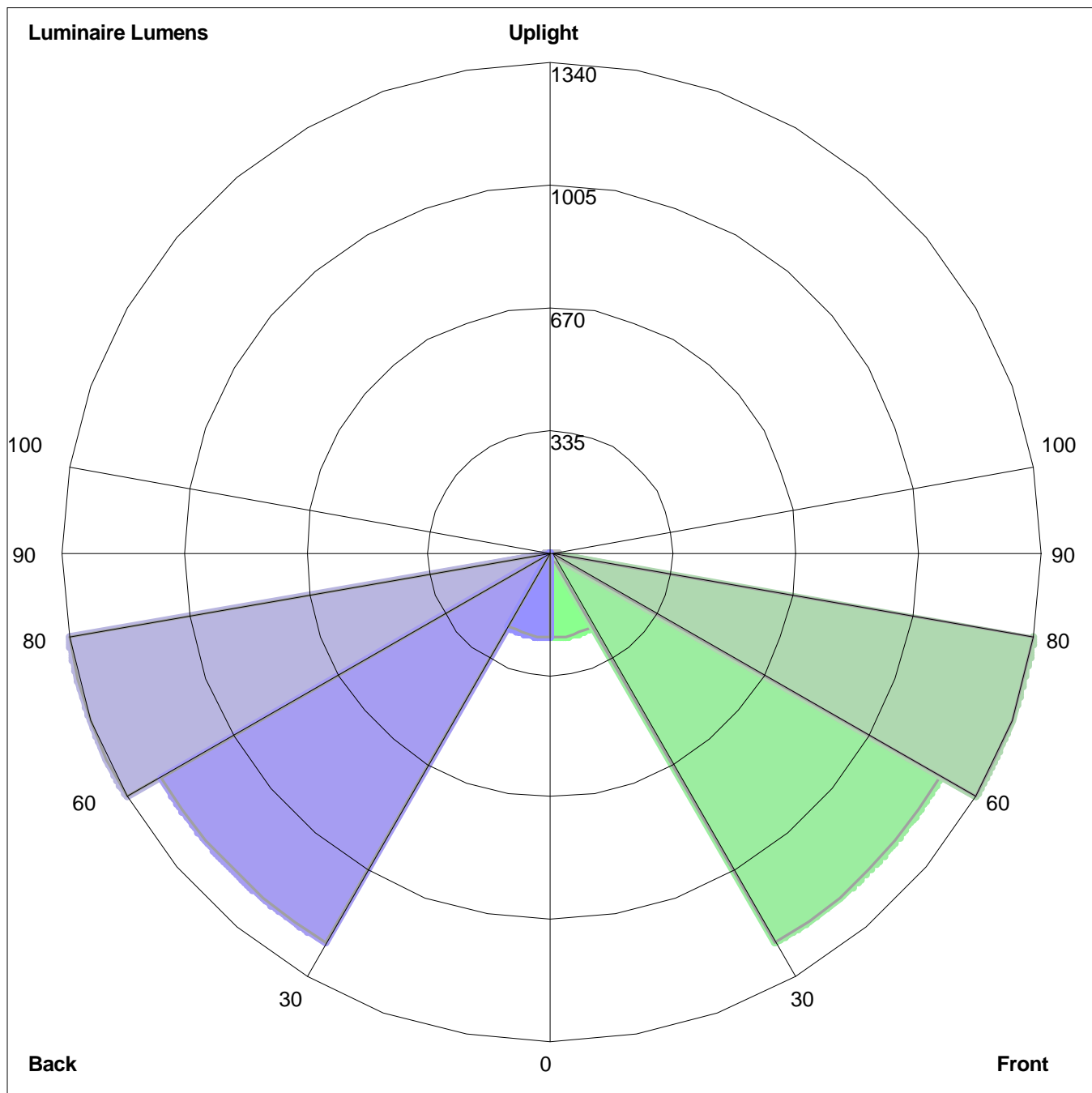
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	232.5	N.A.	4.1
FM - Front-Medium (30-60)	1230.0	N.A.	21.8
FH - Front-High (60-80)	1339.8	N.A.	23.7
FVH - Front-Very High (80-90)	19.7	N.A.	0.3
BL - Back-Low (0-30)	232.5	N.A.	4.1
BM - Back-Medium (30-60)	1230.0	N.A.	21.8
BH - Back-High (60-80)	1339.8	N.A.	23.7
BVH - Back-Very High (80-90)	19.7	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	5644.0	N.A.	100.0
BUG Rating	B3-U0-G1		

POLAR GRAPH



Maximum Candela = 3321.8 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=232.5, Medium= 1230.0, High=1339.8, Very High=19.7
Back: Low=232.5, Medium= 1230.0, High=1339.8, Very High=19.7
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G1

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

COPELAND PARK TYPE S5H

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 6000K CCT and 3000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table.

Round pole adapter included.

For wall mounting, specify wall mount bracket option. 3G vibration rated. **QUICK MOUNT ARM:** Arm is bolted directly to the pole and the fixture slides onto the quick mount arm and is secured via a single fastener, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.

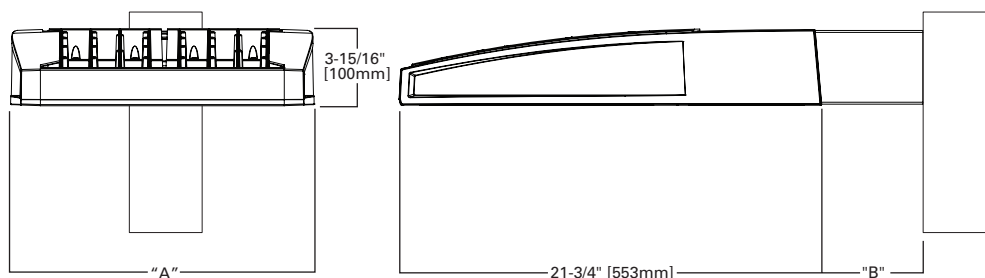


GLEON GALLEON LED

1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE

DIMENSIONS



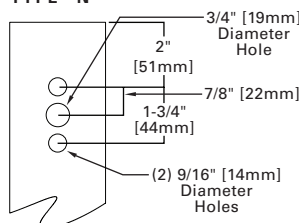
DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN

TYPE "N"



CERTIFICATION DATA

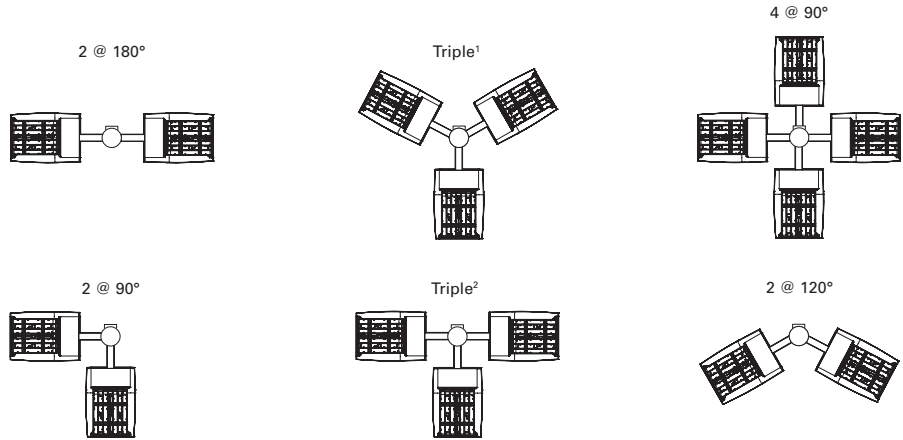
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium™ Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

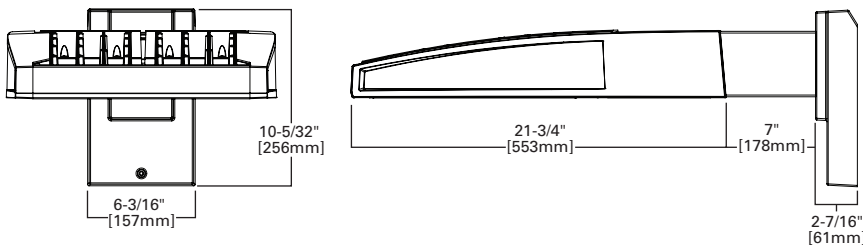
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)

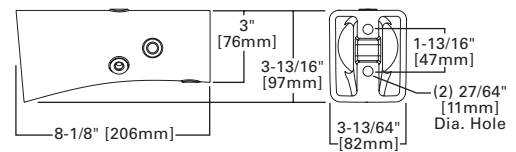


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

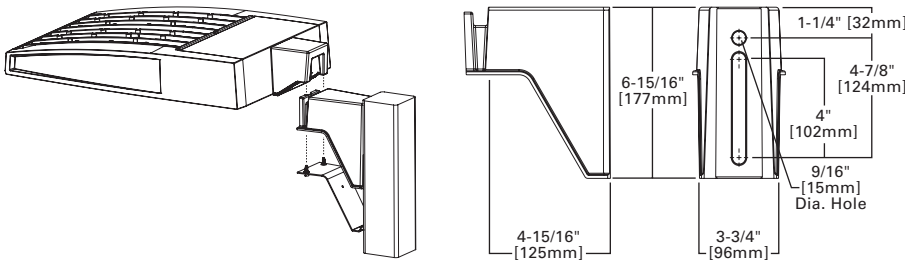
STANDARD WALL MOUNT



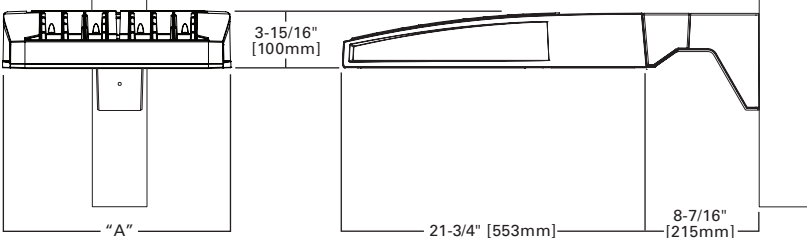
MAST ARM MOUNT



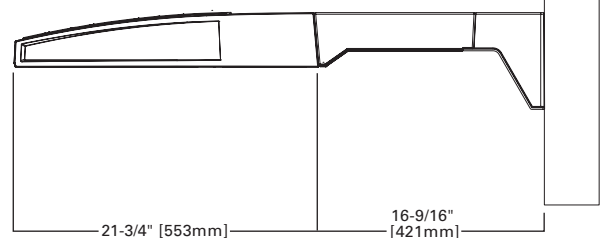
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

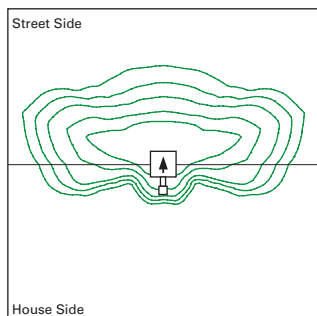


QUICK MOUNT ARM DATA

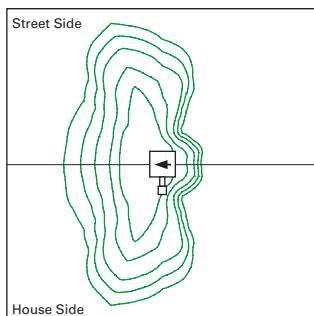
Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

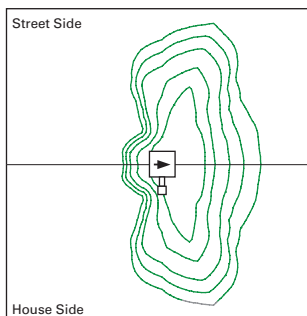
OPTIC ORIENTATION



Standard



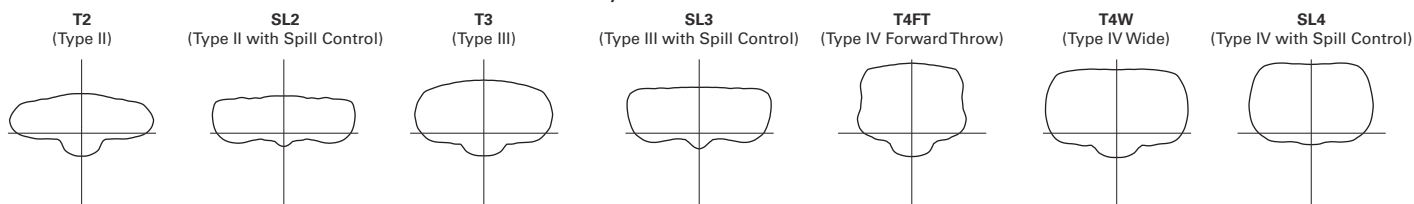
Optics Rotated Left @ 90° [L90]



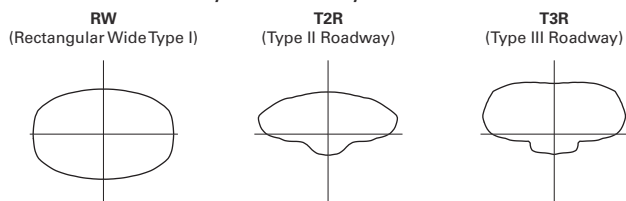
Optics Rotated Right @ 90° [R90]

OPTICAL DISTRIBUTIONS

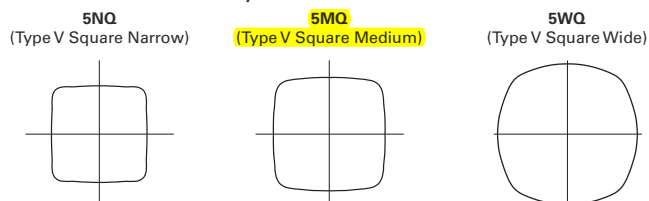
Asymmetric Area Distributions



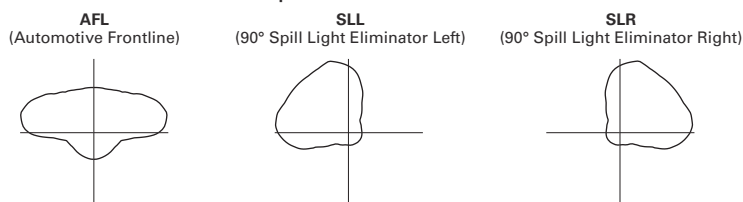
Asymmetric Roadway Distributions



Symmetrical Distributions



Specialized Distributions



NOMINAL POWER AND LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Nominal Power (Watts)		56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)		0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)		0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)		0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)		0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON =Galleon	AE =1A Drive Current	01 =1 02 =2 03 =3 04 =4 05 =5 06 =6 07 =7 ⁴ 08 =8 ⁴ 09 =9 ⁵ 10 =10 ⁵	LED =Solid State Light Emitting Diodes	E1 =(120-277V) 347 =347V ⁶ 480 =480V ^{6,7}	T2 =Type II T2R =Type II Roadway T3 =Type III T3R =Type III Roadway T4FT =Type IV Forward Throw T4W =Type IV Wide 5NQ =Type V Narrow 5MQ =Type V Square Medium 5WQ =Type V Square Wide SL2 =Type II w/Spill Control SL3 =Type III w/Spill Control SL4 =Type IV w/Spill Control SLL =90° Spill Light Eliminator Left SLR =90° Spill Light Eliminator Right RW =Rectangular Wide Type I AFL =Automotive Frontline	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White	[Blank] =Arm for Round or Square Pole EA =Extended Arm ⁸ MA =Mast Arm Adapter ⁹ WM =Wall Mount QM =Quick Mount Arm (Standard Length) ¹⁰ QMEA =Quick Mount Arm (Extended Length) ¹¹
Options (Add as Suffix)					Accessories (Order Separately)		
2L =Two Circuits ^{12,13} 7030 =70 CRI / 3000K ¹⁴ 8030 =80 CRI / 3000K ¹⁵ 7050 =70 CRI / 5000K ¹⁵ 7060 =70 CRI / 6000K ¹⁴ 530 =Drive Current Factory Set to 530mA ¹⁶ 700 =Drive Current Factory Set to 700mA ¹⁶ P =Button Type Photocontrol (120, 208, 240 or 277V) PER7 =NEMA 7-PIN Twistlock Photocontrol Receptacle R =NEMA Twistlock Photocontrol Receptacle HA =50°C High Ambient ^{13,17} MS/DIM-L08 =Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{18,19,20,21,22} MS/DIM-L20 =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{18,19,20,21,22} MS/DIM-L40 =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{18,19,20,21} MS/DIM-L40W =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,21,25} MS/X-L08 =Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{18,19,20,21,22,26} MS/X-L20 =Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{18,19,20,21,23,26} MS/X-L40 =Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{18,19,20,21,24,26} MS/X-L40W =Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,21,25,26} MS-L08 =Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height ^{18,19,20,21,22} MS-L20 =Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ^{18,19,20,21,23} MS-L40 =Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ^{18,19,20,21,24} MS-L40W =Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,25} DIMRF-LW =LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ²⁷ DIMRF-LN =LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ²⁷ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right MT =Factory Installed Mesh Top TH =Tool-less Door Hardware LCF =Light Square Trim Plate Painted to Match Housing ²⁸ HSS =Factory Installed House Side Shield ²⁹ CE =CE Marking ³⁰					OA/RA1016 =NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027 =NEMA Photocontrol - 480V OA/RA1201 =NEMA Photocontrol - 347V OA/RA1013 =Photocontrol Shorting Cap OA/RA1014 =120V Photocontrol MA1252 =10kV Surge Module Replacement MA1036-XX =Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX =2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX =3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX =4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX =2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX =3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX =2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX =Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX =2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX =3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX =4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX =2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX =3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ³¹ GLEON-MT1 =Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2 =Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3 =Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4 =Field Installed Mesh Top for 9-10 Light Squares GLEON-QM =Quick Mount Arm Kit ¹⁰ GLEON-QM-EA =Quick Mount Extended Length Arm Kit ¹¹ LS/HSS =Field Installed House Side Shield ^{28,32}		

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- DesignLights Consortium™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI.
- Not compatible with extended quick mount arm (QMEA).
- Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
- Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- Factory installed.
- Maximum 8 light squares.
- Maximum 6 light squares.
- 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with LumaWatt wireless sensors.
- Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
- Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
- 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
- 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
- Consult factory for more information.
- Utilizes internal step-down transformer when 347V or 480V is selected.
- The FSIR-100 accessory is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- Not available with HA option.
- Approximately 22' detection diameter at 8' mounting height.
- Approximately 40' detection diameter at 20' mounting height.
- Approximately 60' detection diameter at 40' mounting height.
- Approximately 100' detection diameter at 40' mounting height.
- Replace X with number of light squares operating in low output mode.
- LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
- Not available with house side shield (HSS).
- Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
- CE is not available with the DIMRF, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.
- This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- One required for each Light Square.



IES ROAD REPORT
PHOTOMETRIC FILENAME : GLEON-AE-02-LED-E1-5MQ.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]P123921
[MORE]TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
[TESTLAB]Innovations Center P2
[ISSUE]DATE]12/22/2013
[LUMCAT]GLEON-AE-02-LED-E1-5MQ
[LUMINAIRE]GALLEON LED AREA AND ROADWAY LUMINAIRE
[MORE](2) 70 CRI, 4000K, 1A LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
[DRIVER]ELECTRONIC DRIVER
[_ABSOLUTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[MORE]ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS
[MORE]CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER
[MORE]WITH TEST DISTANCE OF 28.75 FEET
[_ABSOLUTE]LUMENS]11030
[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER LIGHTING)
[_SEARCH_APPLICATION] Outdoor, Area, Commercial, Industrial, Parking, Roadway, Site, Street, Wet Location
[_SEARCH_MOUNTING] Arm, Pole
[_SEARCH_CRI] 70
[_SEARCH_SOURCE]TYPE] LED
[_SEARCH_COLOR]TEMP] 4000K

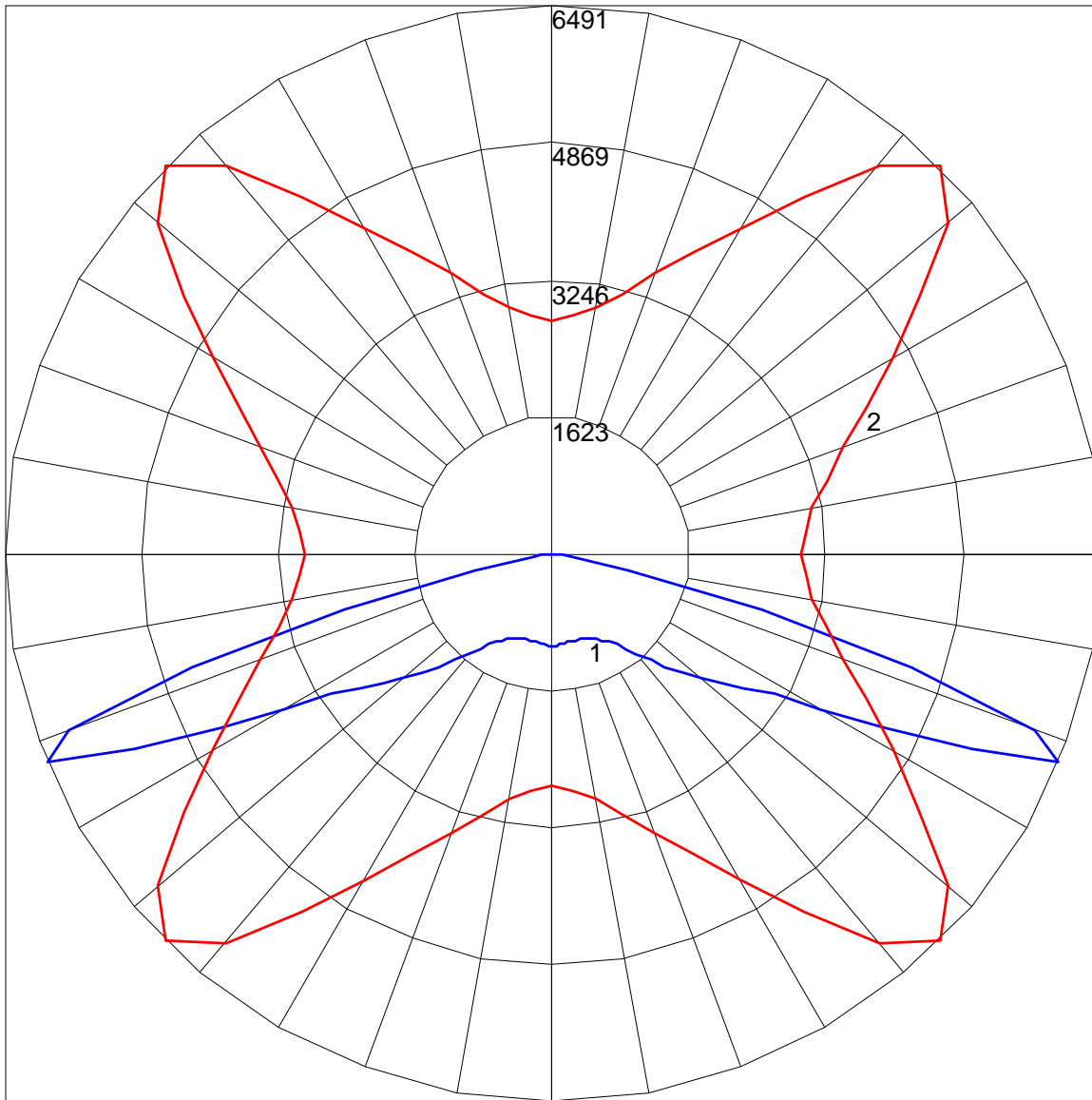
CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11030
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	107
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6491.4
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	6491.4
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	239.9 (2.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

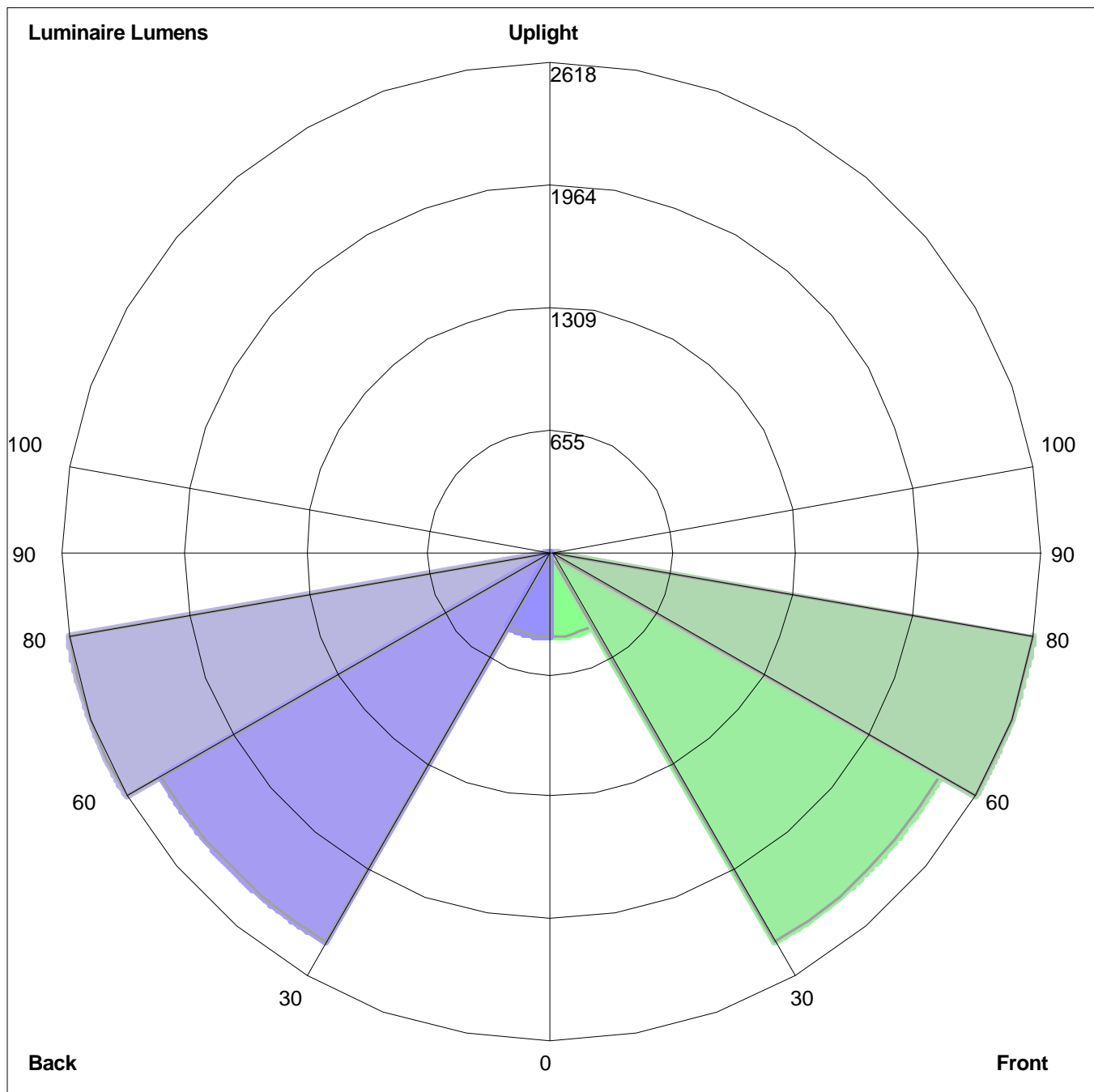
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	454.4	N.A.	4.1
FM - Front-Medium (30-60)	2403.7	N.A.	21.8
FH - Front-High (60-80)	2618.1	N.A.	23.7
FVH - Front-Very High (80-90)	38.5	N.A.	0.3
BL - Back-Low (0-30)	454.4	N.A.	4.1
BM - Back-Medium (30-60)	2403.7	N.A.	21.8
BH - Back-High (60-80)	2618.1	N.A.	23.7
BVH - Back-Very High (80-90)	38.5	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	11029.4	N.A.	100.0
BUG Rating	B4-U0-G2		

POLAR GRAPH



Maximum Candela = 6491.4 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=454.4, Medium=2403.7, High=2618.1, Very High=38.5
Back: Low=454.4, Medium=2403.7, High=2618.1, Very High=38.5
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2

VOLTAIRE ARCHITECTURAL WALL PACK

VWP

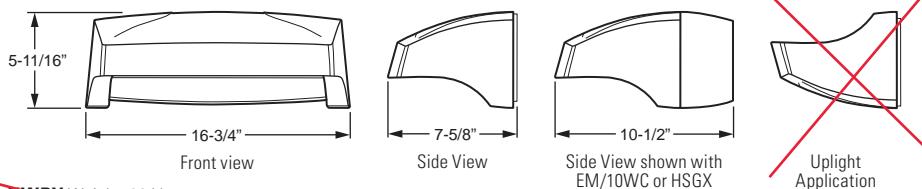
LED



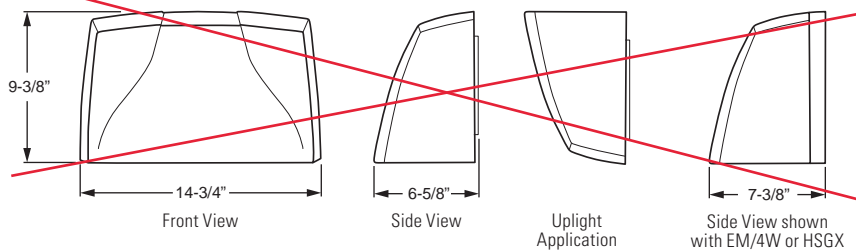
CATALOG	COPELAND PARK				TYPE:				
PROJECT:	TYPE W				NOTES:				
EXAMPLE	VWP	H	- L30/740	- T3	- DBZ	- SDGL	- OPTIONS	- DIM	- UNV
	SERIES	TYPE	LUMEN PACKAGE	CRI & CCT	DISTRIBUTION	FINISH	SHIELDING	OPTIONS	VOLTAGE

CROSS SECTIONS

VWPH Weight: 15 Lbs; maximum weight with EM/10WC or HSGX: 27 lbs.



VWPV Weight: 23 Lbs



ORDERING INFORMATION

SERIES

VWP Voltaire Architectural Wall Pack

TYPE

H Horizontal
V Vertical

LED PACKAGE

See back for fixture performance data.

Example: L60/740			
LUMEN PACKAGE	NOMINAL LUMENS	MINIMUM CRI & CCT	AVERAGE SYSTEM WATTAGE
L30	3,000	730 = 70 CRI, 3000K 740 = 70 CRI, 4000K 750 = 70 CRI, 5000K	36
L60	6,000		70

DISTRIBUTION

T3 Type III
TFT Type Forward Throw

FINISH OPTIONS

For custom color, visit the VWP at hew.com.¹

BLK Black (RAL #9004)
DBZ Dark bronze
DBR Medium bronze
GRAY Standard gray
SLV Satin aluminum (RAL #9006)
WHT White (RAL #9003)

SHIELDING

SDGL Solite® diffused textured tempered glass lens
CGL Clear tempered glass lens

OPTIONS

See page 3 for option details.

EM/4W 4-watt integral emergency LED driver, 500 lumen output (120-277V only) VWPV includes housing extension (increases fixture depth)

SF Single fuse (120V, 277V, or 347V only; must specify voltage)

DF Double fuse (208V, 240V, or 480V only; must specify voltage)

PC Factory-installed button-style photocell (120V, 208V, or 277V only; must specify voltage)

HSGX Empty housing extension used to match units with EM or OCC option.

Conduit entry options available. See page 3 for details.

CR Right side conduit entry
CL Left side conduit entry
CD Dual conduit entry (left and right)

VWPH ONLY

EM/10WC 10-watt emergency LED driver, 1000 lumen output, low temperature, includes housing extension (increases fixture depth; 120-277V only)

OCCWS FSP-211-L Factory-installed occupancy sensor, includes housing extension (increases fixture depth), must specify lens, see page 2 for details. Optional FSIR-100 remote controller available, ordered separately, see accessories.

ACCESSORIES (VWPH only)

FSIR-100 Remote controller for occupancy sensor²

DRIVER

DIM Dimming driver prewired for 0-10V controls

VOLTAGE

120	120V	UNV	120-277V
208	208V	347	347V
277	277V	480	480V

FEATURES

GENERAL

- Engineered with the highest quality materials to ensure reliability, performance, and quality.
- Provides security and accent lighting for walkways, entries, perimeters, and facades.
- Intended for use in both uplight and downlight applications.
- Aesthetically designed horizontal and vertical housings blend seamlessly with a variety of architectural styles.
- Purposefully modeled to allow runoff of dirt and water for an always-clean appearance.
- Architectural housing extension option can be used with or without EM to maintain aesthetics throughout an entire project
- Optional energy-saving photocell/occupancy sensor available.
- Rated >50,000 hours at 70% lumen maintenance (L70).
- ANSI 3000K, 4000K or 5000K CCT; minimum 70 CRI.
- Available in six standard finish options.
- This fixture is proudly made in the USA.

THERMAL

- Integral die-cast aluminum heatsink provides optimal passive thermal management.
- Concealed heatsink design preserves architectural appearance.
- Rated for -30°C to 40°C ambient operating temperature (-20°C to 40°C with EM/10WC; 0°C to 39°C with EM/4W).

OPTICAL

- Acrylic precision optics produce standard IES distributions.
- Full cutoff, dark-sky compliant optics (downlight only) place light where it's needed with minimal glare.

ELECTRICAL

- 0-10V dimming standard.
- 10kA/10kV surge protection standard.
- LED system is designed to minimize electrical connection points for increased reliability.

¹ For custom colors other than RAL, manufacturers' code plus two swatches (minimum 1" square) required.

² Please specify quantity required per project.



LED

SPECIFICATIONS

Housing – Die-cast aluminum enclosure.

Thermal Management – Integral die-cast aluminum heatsink and LED assembly provide passive thermal management. Rated -30°C to 40°C ambient operating temperature (-20°C to 40°C with EM/10WC; 0°C to 39°C with EM/4W).

Optical System – Precision, injection-molded, refractive acrylic lensing produces standard IES distributions.

LED Assembly – ANSI 3000K, 4000K, or 5000K CCT, minimum 70 CRI LEDs.

LED Driver – 0-10V dimming.

Electrical – 120-277, 347, and 480 VAC input range; 50-60Hz; power factor >.90; THD <20% at full load. FCC Class A compliant. 10kA/10kV surge protection standard. Quick-disconnect wiring provided.

Finish – Super durable polyester powder coat bonded to phosphate-free, multi-stage pretreated metal, meets and exceeds AAMA 2604 specifications for outdoor durability. Available in six standard colors. Custom colors available.

Mounting – Surface mounts directly over a 4" maximum outlet box. Must be anchored to adequate structure that can safely support fixture weight (VWPH = 15 lbs, VWPV = 23 lbs).

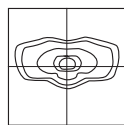
Labels – cCSAus certified as luminaire suitable for wet locations.

Certifications & Qualifications –

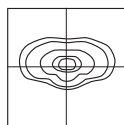
- Calculated L70 lumen maintenance >50,000 hours per IES TM-21.
- Tested to IES LM-79-08 standards.
- Lighting Facts listed.
- DLC qualified products listed at www.designlights.org.
- IDA Dark-Sky approved (downlight applications only).
- RoHS compliant.
- IP65 rated.
- Title 24 compliant with OCCWS FSP-211-L_ option.
- BUG classified per IES TM-15-11.

Warranty – 5-year limited warranty, see hew.com/warranty.

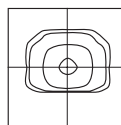
DISTRIBUTION



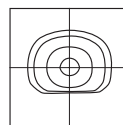
T3
Clear Glass (CGL)



T3
Solite Glass (SDGL)



TFT
Clear Glass (CGL)



TFT
Solite Glass (SDGL)

COPELAND PARK
TYPE W

FIXTURE PERFORMANCE DATA

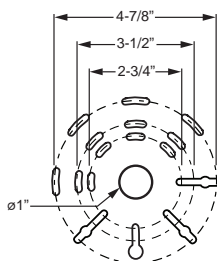
SERIES	DISTRIBUTION	LUMEN PACKAGE	WATTAGE ¹	CCT	CLEAR GLASS (CGL)		SOLITE GLASS (SDGL)		BUG RATINGS
					DELIVERED LUMENS ^{2,3}	EFFICACY (LM/W) ^{2,3}	DELIVERED LUMENS ^{2,3}	EFFICACY (LM/W) ^{2,3}	
VWPH	T3	L30	36	3000	3174	88.2	2963	82.3	B1-U0-G1
				4000	3327	92.4	3106	86.3	
				5000	3438	95.5	3209	89.1	
		L60	70	3000	5933	84.8	5887	84.1	B1-U0-G1
				4000	6611	94.4	6172	88.2	
				5000	6831	97.6	6376	91.1	
	TFT	L30	36	3000	2713	75.4	2533	70.4	B1-U0-G1
				4000	2844	79.0	2655	73.8	
				5000	2939	81.6	2743	76.2	
		L60	70	3000	5470	78.1	5065	72.4	B2-U0-G2
				4000	5688	81.3	5309	75.8	
				5000	5876	83.9	5486	78.4	
VWPV	T3	L30	36	3000	3115	86.5	2908	80.8	B1-U0-G1
				4000	3403	94.5	3177	88.3	
				5000	3385	94.0	3160	87.8	
		L60	70	3000	6171	88.2	5813	83.0	B2-U0-G1
				4000	6804	97.2	6351	90.7	
				5000	6767	96.7	6317	90.2	
	TFT	L30	36	3000	2840	78.9	2651	73.6	B1-U0-G1
				4000	3103	86.2	2896	80.4	
				5000	3086	85.7	2881	80.0	
		L60	70	3000	5822	83.2	5126	73.2	B3-U0-G1
				4000	5999	85.7	5600	80.0	
				5000	5967	85.2	5570	79.6	

¹ Wattage shown is average for 120V through 277V input.

² Efficacy/lumen output shown is average based on voltage input of 120V through 277V.

³ Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.

BOLT PATTERN DETAIL



H.E. WILLIAMS, INC.

H.E. Williams, Inc. ■ Carthage, Missouri ■ www.hew.com ■ 417-358-4065
Information contained herein is subject to change without notice. HEW70490JL REV.09/07/16



IES ROAD REPORT
PHOTOMETRIC FILENAME : VWPH-L30-740-T3-SDGL-OPT-DIM-UNV.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ATAL009418
[TESTLAB]ATAL-LABS
[ISSUEDATE]06/17/15
[MANUFAC]WILLIAMS OUTDOOR
[OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT]VWPH-L30-740-T3-SDGL-OPT-EDD-UNV
[LUMINAIRE]VOLTAIRE HORIZONTAL ARCHITECTURAL WALL PACK WITH TYPE III
[MORE]MOLDED REFRACTIVE CLEAR ACRYLIC LED LENS AND A SOLITE GLASS
[MORE]LENS.
[LAMPCAT]X4-LUXEON M 4000K
[LAMP](4) LUXEON M 4000K LEDS
[BALLASTCAT]X1-EUC-052S070DT
[BALLAST](1) INVENTRONICS ELECTRONIC DRIVER
[OTHER]INPUT WATTS: 35.42, AMPS: 0.2961, VAC: 120.04, TEMP: 25.6 C
[_SEARCH_SOURCE]TYPE] LED
[_SEARCH_APPLICATION] Outdoor, Architectural, Area, Commercial, Facade, Industrial, Manufacturing, Office, Site, Direct, Wet
[_SEARCH_MOUNTING] Wall
[_SEARCH_CERTIFICATION] DLC

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3106
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	35.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1192
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	1192
Maximum Candela Angle (<90 Degrees Vertical)	0H 30V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	301 (9.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

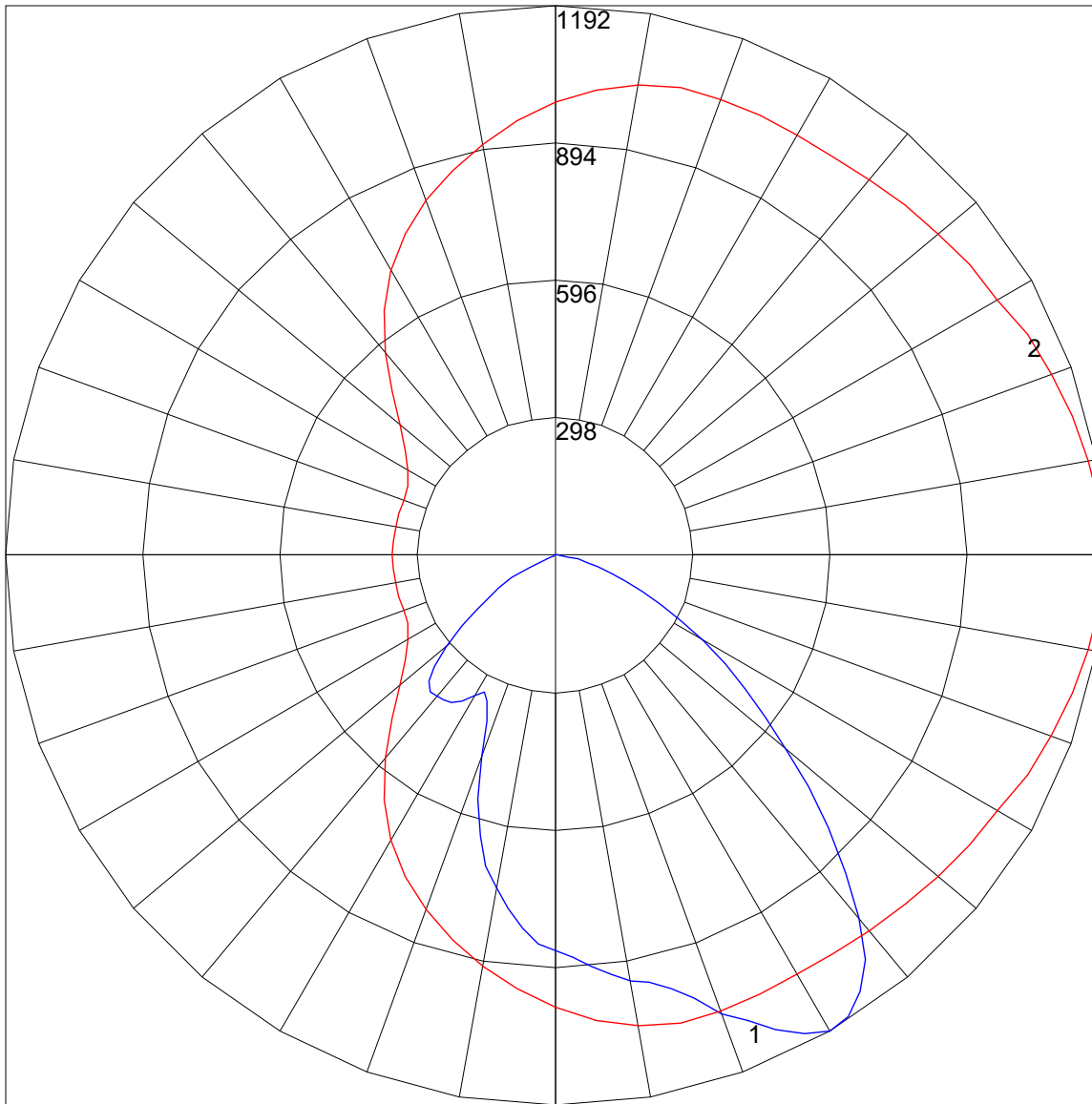
IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPH-L30-740-T3-SDGL-OPT-DIM-UNV.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

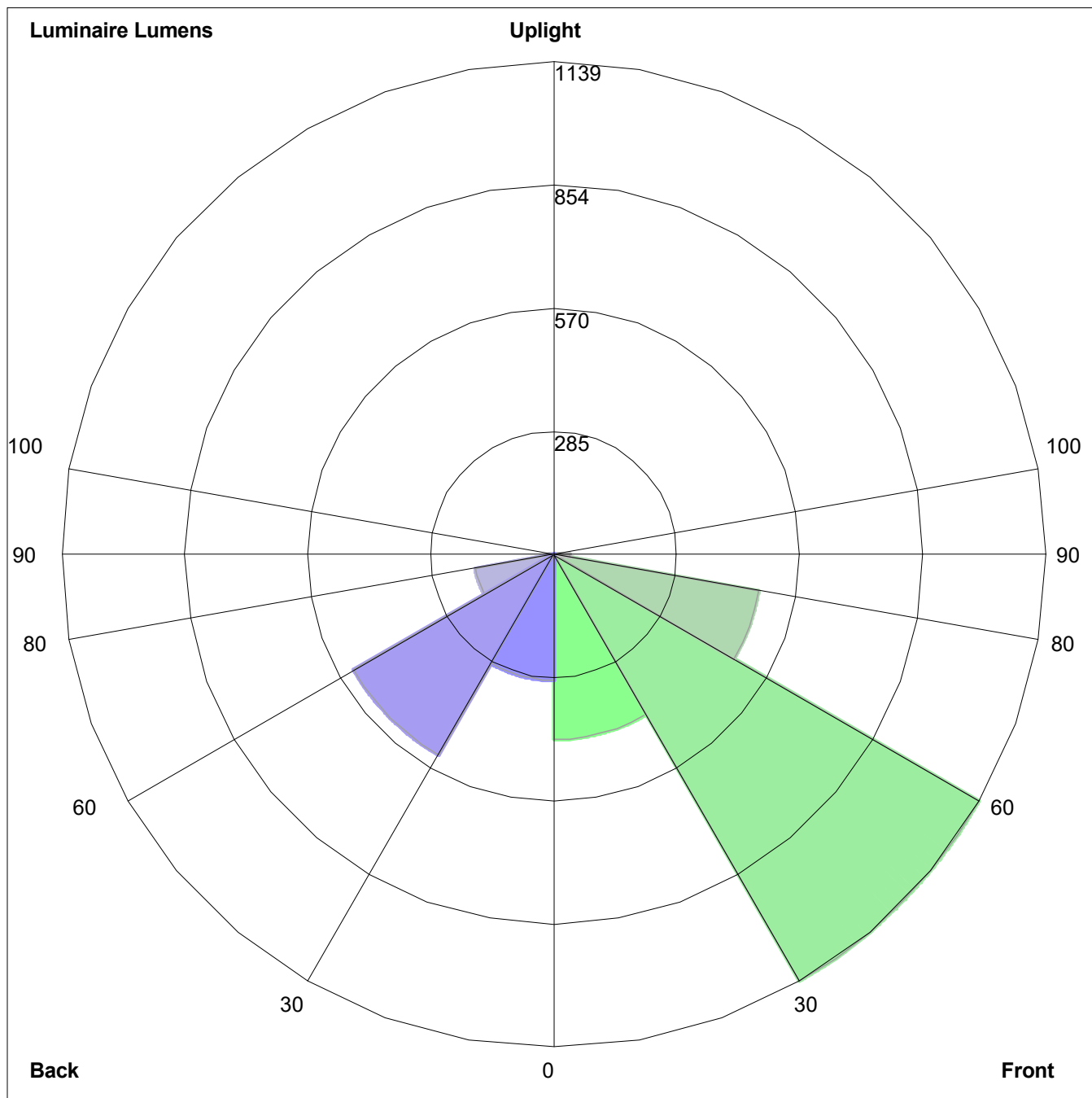
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	427.7	N.A.	13.8
FM - Front-Medium (30-60)	1139.2	N.A.	36.7
FH - Front-High (60-80)	482.3	N.A.	15.5
FVH - Front-Very High (80-90)	37.7	N.A.	1.2
BL - Back-Low (0-30)	290.5	N.A.	9.4
BM - Back-Medium (30-60)	534.6	N.A.	17.2
BH - Back-High (60-80)	184.6	N.A.	5.9
BVH - Back-Very High (80-90)	9.7	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	3106.3	N.A.	100.0
BUG Rating	B1-U0-G1		

POLAR GRAPH



Maximum Candela = 1192 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=427.7, Medium=1139.2, High=482.3, Very High=37.7
Back: Low=290.5, Medium=534.6, High=184.6, Very High=9.7
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1