MEMORANDUM

CITY/BOROUGH OF JUNEAU

155 South Seward Street, Juneau, Alaska 99801

DATE: November 26, 2014

TO: Planning Commission

FROM: Eric Feldt, Planner II, CFM

Community Development Department

FILE NO.: USE2014 0015

PROPOSAL: A Conditional Use permit for a Utility Facility.

GENERAL INFORMATION

Applicant: Bruce Messerschmidt

Property Owner: Greg & Marla Trollan

Property Address: 17120 Point Lena Loop Road

Legal Description: LENA POINT HEIGHTS LT 22

Parcel Code Number: 8-B33-0-102-022-0

Site Size: 0.60 Acres

Comprehensive Plan Future

Land Use Designation: Rural/Low Density Residential (RLDR)

Zoning: D-3

Utilities: CBJ Water; On-site Septic

Access: Point Lena Loop Road

Existing Land Use: Vacant

Surrounding Land Use: North - D-3; Residential; Pt Lena Lp Rd

South - D-3; Residential; Pt Lena Lp Rd

East - D-3; Residential; Pt Lena Lp Rd

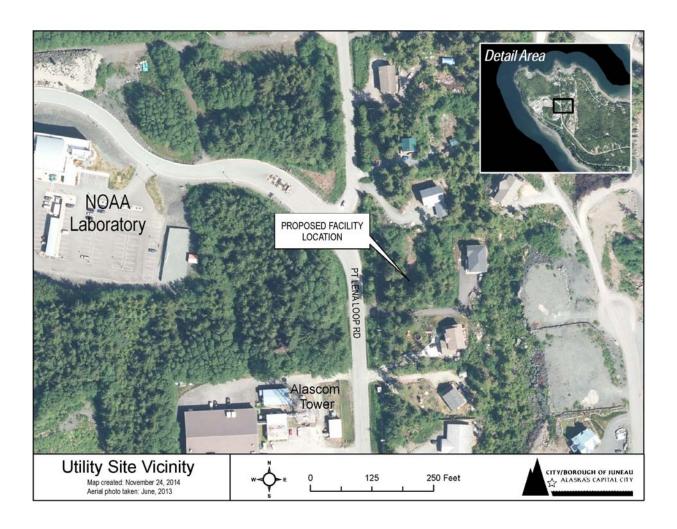
West - D-3; NOAA Laboratory; Pt Lena Lp Rd



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Vicinity Map



Attachments

Attachment	A	Applicant's Narrative
Attachment	В	Site Plan
Attachment	C	Project Plans

Project Description

The applicant (Alaska Power & Telephone (AP&T)) requests a Conditional Use permit for the development of a utility facility in Lena Point. See vicinity map. The project consists of a modular building with electrical and heating/ cooling components, a small building for a back-up generator and bathroom, and vehicular parking. Perimeter vegetation will be preserved. The existing driveway will be used to access the site.

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As noted by the applicant, the purpose of this project is to; 1) Provide a termination point for the existing ocean-laid fiber line, and 2) Consolidate AP&T's wireless (microwave) network. See Attachment A.

Staff notes that the project description states 'future tower'. If and when a tower is proposed, it will be reviewed through a separate permit at that time.

Background

There have not been any proposed permits or land use activities on this site. The site remains vacant. The lot was platted in 2005 under the Lena Point Heights Subdivision (Plat # 2005-31).

Analysis

Project Site

The site is located in the Lena Point neighborhood which is primarily developed with low- and medium density single family homes. However, the subject site lies across the street from the large Ted Stevens Marine Research Institute and Alascom telecommunication wireless facility consisting of a tall tower and auxiliary electrical facilities. In this part of Lena Point, residences (and subject site) exist on the right (east) side of Point Lena Loop Road, whereas the industrial/commercial uses exist on the left (west) side of the road. See Vicinity Map.

The site is vacant and contains trees, bushes, and various other types of vegetation. There is an existing septic leach field near the southwestern corner of the site near the road. Small rock piles exist on the site.

The site is located in a D-3 zoning district. Although development in this district is largely single- and two-family residences, small commercial and industrial uses are also permitted.

Project Design

The project consists of a communications building (12' x 52'); a support building containing a back-up generator, bathroom, and battery room; above-ground fuel tank; and, a small vehicular parking area. A perimeter metal fence (typical) and a vehicular entrance gate will secure the site. Beyond the fence, is a preserve vegetation buffer measuring between 12' and 26'. See Attachments B & C. Vegetation within the first 25 feet of the lot nearby the road must be preserved as required by the Lena Point Heights Subdivision.

The site will be unmanned but infrequent maintenance will be necessary.

Traffic

Traffic generated by the project will be infrequent maintenance trips by personnel staff. The applicant states this will be less than what is generated by a residence.

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Parking and Circulation

Access to the site from Point Lena Loop Road will be through an existing driveway, shared with Lot 21. This shared access is required by the Lena Point Heights Subdivision. The site's proposed driveway is only a short distance from the road. Cars entering the site will pass through the security gate and turn immediately into a 3-car parking space in front of the proposed communication building. See Attachment B. This building will block headlight glare toward the adjacent homes.

Noise

The following noise levels are established under the Conditional Use permit section of the CBJ Land Use Code.

CBJ 49.15.330 (q)

(11) Sound. Conditions may be imposed to discourage production of more than 65 dBa at the property line during the day or 55 dBa at night.

Staff notes that those decibel levels are enforced at property lines.

The project will create a low 'humming' noise from the heating and cooling elements, and noise from the back-up generator. The heating and cooling elements are expected to run more frequently than the generator, which will run once a month for 30 minutes. Since the generator will have a muffler, the humming noise will be more noticeable.

To determine expected noise levels, the applicant took readings from an existing facility. The applicant concluded that from 25 feet away, the humming noise produced 56.7 decibels. Since this is 1.7 decibels above the allowed threshold, staff recommends a condition of approval that the heating/ cooling elements be located farther than 25 feet away from the nearest property line or noise attenuators be installed between the building and closest property line.

Public Health or Safety

The site will be secured from the public by a fence and vehicular gate. Only permitted persons are allowed to enter the site. The six-foot tall metal fence will deter non-permitted persons from entering the site. Although barbed-wire may add further security, it is not allowed in this zoning district.

Habitat

There are no sensitive habitats of Title 49 that will be affected by the proposed project.

Lighting

Outdoor lighting will be installed to illuminate the parking area and building entrances. All

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outdoor lighting is shown on the Site Plan. The outdoor lighting will be on light poles at heights between 15'-18' and have light fixture designs to be full cut-off downward illumination. Staff finds this to be consistent with the Land Use Code and will deter horizontal glare onto adjacent lots and street. The applicant explains that this lighting will be turned on only through motion detecting sensor. Since access into the site is controlled through security fencing, the lighting should only be activated during times when personnel are on site.

Property Value or Neighborhood Harmony

Since the project is industrial in nature and is proposed next to existing residences, staff's must determine the appropriateness of the project in the neighborhood. The Land Use Code states the following about Conditional Use permits:

A conditional use is a use that may or may not be appropriate in a particular zoning district according to the character, intensity, or size of that or surrounding uses. The conditional use permit procedure is intended to afford the commission the flexibility necessary to make determinations appropriate to individual sites. The commission may attach to the permit those conditions listed in subsection (g) of this section as well as any further conditions necessary to mitigate external adverse impacts. If the commission determines that these impacts cannot be satisfactorily overcome, the permit shall be denied.

The impacts of an industrial use in a residential neighborhood may result in real or perceived negative affects to adjacent homes. The proposed use will result in a long, narrow building which is of a scale and massing not normally found in the neighborhood. Noise levels from the project may be louder or more of a nuisance than a typical residence. Resulting traffic levels from the project is likely to be lower than a typical home.

To preserve the residential feel of the neighborhood, staff finds that the project shall either be less visible to nearby homes and street or be designed to look like a residence. The applicant's site plan shows a perimeter vegetation strip. Staff's notes a required 25' vegetative buffer along the front of the site. The foliage will block views during the summer but open views during the fall and winter. The northern (left) area of the site has the least amount of vegetation and offer little buffering. Enhancing this vegetation with new plants may be challenging due to the rocky condition of the soil. Installing a sign-obscuring fence may block views but would likely need to be at least eight feet high to achieve this blockage. A fence this large might instead detract from the residential setting. Another way to lessen the industrial look is to have the proposed buildings consist of siding that is common on nearby homes to help mimic a residential use. Staff spoke with the applicant about this idea and it was found to be acceptable. Staff recommends a condition of approval for the siding to match or be similar to nearby homes. With the perimeter vegetation shown on the site plan and using siding material and color that matches or is similar to nearby homes, staff finds the look of the buildings will not be a detracting element to the neighborhood.

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Staff has addressed future noise levels under Noise and has found that with recommended conditions, it will not result in a negative impact to the neighborhood.

With the recommended conditions, staff finds that Property Value and Neighborhood Harmony will be preserved.

Conformity with Adopted Plans

The CBJ Land Use code permits types of lands uses according to specific zoning districts. Some uses are non-discretionary (guaranteed approval) while others are discretionary, such as a Conditional Use permit. If it is found that the project does not result in a decrease in property value, neighborhood harmony, and public health and safety, the project is granted. An Intermediate Utility is listed as a permissible use in the D-3 district under Section 17.150, 49.25.300 of the Land Use code if a Conditional Use permit is granted. Staff finds that with the recommended conditions, the project will preserve those aforementioned elements and conforms to the CBJ Land Use code.

The 2013 CBJ Comprehensive Plan designates the neighborhood as Rural/Low Density Residential (RLDR), which is defined as

land at densities of one to three dwelling units per acre, based on existing platting and capability of the land to accommodate on-site septic systems and wells or whether the land is served by municipal water and sewer service.

The definition of RLDR does not state commercial, utility, or industrial uses. However, the underlying D-3 district does allow commercial uses and may appear in direct conflict with the RLDR. Since the RLDR definition does not prohibit commercial uses, a proposed commercial use would not be non-conforming per se.

Due to the limited developable land and the need to grow local economy and housing supply, commercial projects may encroach into residential neighborhoods and vice versa. The following policy of the *2013 Comprehensive Plan* states this critical issue:

POLICY 10.4. TO MINIMIZE CONFLICTS BETWEEN RESIDENTIAL AREAS AND NEARBY RECREATIONAL, COMMERCIAL, OR INDUSTRIAL USES THAT WOULD GENERATE ADVERSE IMPACTS TO EXISTING RESIDENTIAL AREAS THROUGH APPROPRIATE LAND USE LOCATIONAL DECISIONS AND REGULATORY MEASURES.

Development Guidelines

10.4 - DG1 New development, particularly in-fill development on vacant land within established neighborhoods, should be designed in such a way as to promote compatibility in scale and massing as the adjacent or nearby built environment and should ensure privacy, light and air to adjacent homes. Density alone should not be considered as a criterion for determining neighborhood harmony within the Urban Service Area provided that:

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- A. Light, air and privacy is assured to adjacent residential occupants;
- B. Parking for the subject project is screened or hidden from view from public streets and from adjacent residential neighbors; and,
- C. Project-serving roads and intersections are improved to a Level of Service D or better. When these criteria are met, higher density development is encouraged.

10.4 - DG2 When a developer extends public or private utilities and infrastructure, such as sewer service, roads or electrical lines, to a particular parcel or development, care should be taken to ensure that adjacent lands and infrastructure that would be affected by the new development are adequately improved by the developer to accommodate the proposed project's traffic as well as new traffic or use anticipated by the growth-inducing impacts of such services or infrastructure extensions. For example, when a water or sewer main or road is extended to a property, it should be sized to serve development at a similar scale and density on adjoining properties.

Implementing Actions

10.4 - IA2 Maintain and consider enhancing Title 49 Land Use Code requirements for buffering and screening between residential and commercial/industrial uses and careful review of site development plans. Great care should be taken to incorporate design features, materials and good neighbor operating practices into the non-residential development permit in order to mitigate potential adverse noise, dust, odor and glare impacts to adjacent residential neighbors.

Such operating practices should be incorporated as conditions of any permit for a nonresidential land use located within 200 feet of a residential use or neighborhood.

With staff's recommended conditions relating to the project's resulting noise levels, outdoor glare, and visual aesthetics, the project conforms to the above policy, development guideline, and implementing action.

Public Commment

Staff has received comments from the neighborhood over the phone with specific concerns about future noise levels resulting from the project. Staff's recommended conditions pertaining to the heating/ cooling elements and back-up generator will ensure the project's noise levels comply with the Land Use Code.

Findings

CBJ §49.15.330 (e)(1), Review of Director's Determinations, states that the Planning Commission shall review the Director's report to consider:

- 1. Whether the application is complete;
- 2. Whether the proposed use is appropriate according to the Table of Permissible Uses; and,
- 3. Whether the development as proposed will comply with the other requirements of this chapter.

The Commission shall adopt the Director's determination on the three items above unless it finds, by a preponderance of the evidence, that the Director's determination was in error, and

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states its reasoning for each finding with particularity.

CBJ §49.15.330 (f), Commission Determinations, states that even if the Commission adopts the Director's determination, it may nonetheless deny or condition the permit if it concludes, based upon its own independent review of the information submitted at the public hearing, that the development will more probably than not:

- 1. Materially endanger the public health or safety;
- 2. Substantially decrease the value of or be out of harmony with property in the neighboring area; or,
- 3. Not be in general conformity with the comprehensive plan, thoroughfare plan, or other officially adopted plans.

Per CBJ §49.15.330 (e) & (f), Review of Director's & Commission's Determinations, the Director makes the following findings on the proposed development:

1. Is the application for the requested conditional use permit complete?

Yes. Staff finds the application contains the information necessary to conduct full review of the proposed operations. The application submittal by the applicant, including the appropriate fees, substantially conforms to the requirements of CBJ Chapter 49.15.

2. Is the proposed use appropriate according to the Table of Permissible Uses?

Yes. The requested permit is appropriate according to the Table of Permissible Uses. The permit is listed at CBJ §49.25.300, Section 17.150 for the D-3 zoning district.

3. Will the proposed development comply with the other requirements of this chapter?

Yes. The proposed development complies with the other requirements of this chapter. Public notice of this project was provided in the November 28, 2014 and December 8, 2014 issues of the Juneau Empire's "Your Municipality" section, and a Notice of Public Hearing was mailed to all property owners within 500 feet of the subject parcel. Moreover, a Public Notice Sign was posted on the subject parcel, visible from the public Right of Way.

4. Will the proposed development materially endanger the public health or safety?

No. The site will be secured with a fence and locked entrance gate. There is no evidence leading to find that the approval of this project will result in endangering the health or safety of the public.

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5. Will the proposed development substantially decrease the value of or be out of harmony with property in the neighboring area?

No. With staff's recommended conditions, the project will not decrease the value of or be out of harmony with property in the neighboring area.

6. Will the proposed development be in general conformity with the land use plan, thoroughfare plan, or other officially adopted plans?

Yes. With staff's recommended conditions, the proposed development will be in general conformance with the CBJ Land Use Code and Comprehensive Plan.

Per CBJ §49.70.900 (b)(3), General Provisions, the Director makes the following Juneau Coastal Management Program consistency determination:

7. Will the proposed development comply with the Juneau Coastal Management Program?

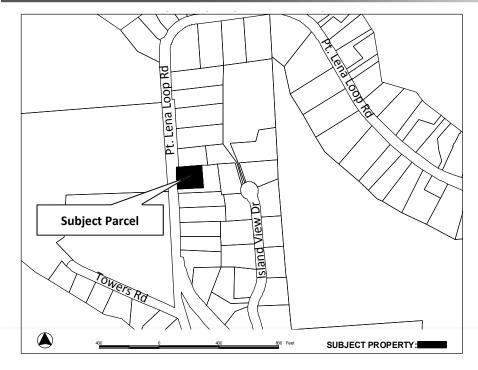
N/A. The proposed development is not relevant to the Juneau Coastal Management Program.

Recommendation

It is recommended that the Planning Commission adopt the Director's analysis and findings and grant the requested Conditional Use permit. The permit would allow the development of a utility facility. The approval is subject to the following conditions:

- 1. Prior to issuance of a Building permit, the building containing heating/ cooling elements shall be located farther than 25 feet away from the nearest property line or noise attenuators be installed between the building and closest property lines.
- 2. Prior to final inspection of the project, a noise measurement shall be performed by CDD and the applicant at the nearest property lines which results in 55 dBa or less. If noise levels exceed 55 dBa, the applicant shall make internal changes to whichever component results in the dBa exceedance. Substantial changes to outside appearance of the site or building shall not be allowed.
- 3. Prior to issuance of a Building permit, the applicant shall submit a picture or illustration and narrative of the future residential building siding for both proposed buildings. The siding shall match or be similar in material and color with the most adjacent homes to the site.
- 4. Prior to issuance of a Building permit, the applicant shall submit specific light fixture designs and light pole height not to exceed 18 feet and be a full cut-off design.

NOTICE OF PUBLIC HEARING



City & Borough of Juneau Community Development Department 155 S Seward Street • Juneau, Alaska 99801

SHIP TO:



PROPOSAL: Conditional Use permit for a Utility Facility.

File No:	USE2014 0015	Applicant:	Bruce Messerschmidt
То:	Adjacent Property Owners	Property PCN:	8-B33-0-102-022-0
Hearing Date:	December 9, 2014	Owner:	Greg & Marla Trollan
Hearing Time:	7:00 PM	Size:	0.60 Acres
Place:	Assembly Chambers	Zoned:	D-3
	Municipal Building	Site Address:	17120 Point Lena Loop Road
	155 South Seward Street	Accessed Via:	Point Lena Loop Road
	Juneau, Alaska 99801		

PROPERTY OWNERS PLEASE NOTE:

You are invited to attend this Public Hearing and present oral testimony. The Planning Commission will also consider written testimony. You are encouraged to submit written material to the Community Development Department 14 days prior to the Public Hearing. Materials received by this deadline are included in the information packet given to the Planning Commission a week before the Public Hearing. Written material received after the deadline will be provided to the Planning Commission at the Public Hearing.



If you have questions, please contact Eric Feldt at eric.feldt@juneau.org or at 586-0764.

CITY/BOROUGH OF JUNEAU Planning Commission Agendas, Staff Reports and Meeting Results can be viewed at ALASKA'S CAPITAL CITY www.juneau.org/plancomm.

DEVELOPMENT PERMIT APPLICATION

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ALLOWABLE/CONDITIONAL USE PERMIT APPLICATION

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NOTE: MUST BE ACCOMPANIED BY DEVELOPMENT PERMIT APPLICATION FORM

Alaska Power & Telephone

Project Narrative

AP&T is in the planning to install a communications facility to terminate our Undersea fiber projects and interconnect with our Southeast Alaska Microwave Network and other Carriers. This will be a unmanned facility with low traffic flow, AP&T intention is to build this to maintain the lowest impact on surrounding properties.

- 1) Zoning Lot is currently Zoned D3
- Setbacks required Setback is 25' front and rear, 10' o the sides, our intention is to maintain at least 12' of setback on the sides and 30' front and 26' rear.
- Height building heights should not exceed 14 feet once installed. Buildings will be installed on a pier foundation and an elevated stomp grate platform.
- 4) Lot coverage (10%) Lot is 26180 SqFt, total buildings will be approximately 1100SqFt (4.2%) Initially, and 1724 SqFt including future build out or 6.5% of total property.
- 5) Landscaping (20% vegetative cover) AS drawn we will have 41% or 10,866 SqFt of vegetative cover once we clear building area leaving 12' on sides and 30' front and 26' rear of natural vegetation.
- 6) Lighting there will be automated lighting placed above entrance doors, and two lights in the parking area these will all have directional hoods on them to limit impact on neighbors.
- 7) Building will be pre-engineered building built by Thermo bond, they will have multiple access doors, they will be heated with a Bard HVAC system or equivalent with redundant unit, these are capable of heating and Air conditioning.
- Fire District we visited with the Fire Marshal's office and have taken his advice and comments into consideration on our Designs.
- Parking there is Three parking places provided on the site, one Handicap accessible an two normal parking place Identified on Site Plan
- 10) Traffic in pre-permitting meeting traffic use was determined to be well below normal residential use after construction phase.

Attachment A

- Engineering there will be engineered drawings for com buildings provided. Site drawing not required to be engineered.
- 12) Noise- Backup generation will be running once a month for testing for 30 min to an hour, or during a power outage. Generation will have quiet muffler installed.
 - HVAC we had our Safety director do some field testing at our Haines site, two units running the DB level was 56.7 dbA at 25°, with units off the noise level was 47.3 dbA.
- 13) Drainage this lot is made up of shot rock, building are designed to use natural runoff.
- 14) Utilities we would be utilizing city water and the existing on-site septic system.
- 15) Wetland No wetlands on Property
- 16) Habitat No habitat issues
- 17) Hazard land No land hazards
- 18) Flood Not located in Flood Plane
- 19) Other agency reviews Not required

If you have any additional questions please contact me.

Thank you

Bruce Messerschmidt

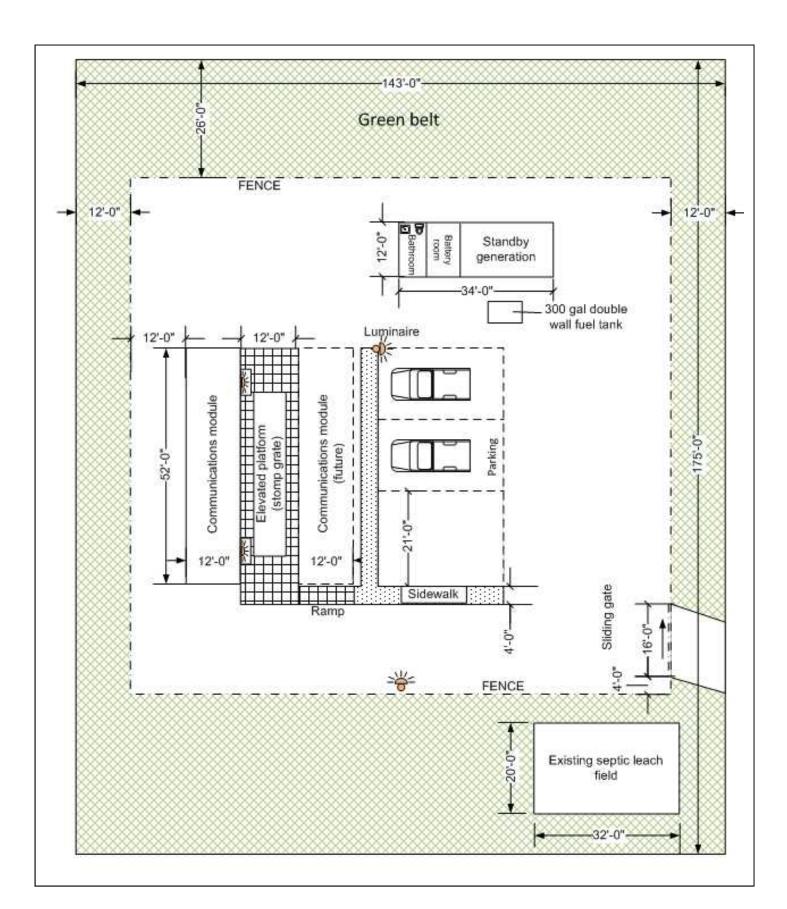
GM Telecom Operations

Alaska Power & Telephone

bruce.m@aptalaska.com

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Attachment B

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200 PSF

70 PSF

100 PSF BUILDING BU LDING BUILDING BUILDING BUILDING REVISION ELECTRICAL DRAWING DRAWING NTERIOR LEVATION VIEWS HILE SKID ASSEMBLY NDEX FOUNDATION DESIGN CONSTRUCTION LAYOUTS CONSTRUCTION 000 CONSTRUCTION SCHEMATIC ZDDS NATIONAL ELECTRICAL CODE (NEC) 2006 INTERNATIONAL BULGING CODE (IBC) 10'W OD X 48'L OD X NV1018 DETAILS DETAILS DETAILS HIDDEN VALLEY, SITE NAMES NEVADA TOWER CORP. 0909-08 JOB NO. PROJECTSIZE9'H ID S15B1048 AGB8336 AGB8336 AGB8336 AGB8336 AGB8336 AGB8336 AGB8336 DRAWING 5B1048 AGB8336 NUMBER ograved By men By PAGE PAGE PAGE PAGE PAGE PAGE PAGE PAGE PAGE NOTE PAGE 80/17/08 NONE ž ころりょうろう Box 445 Elk Point SD Revised: 우 9 유 9 an Example \neg \rightarrow ∞ ∞ ∞ ∞ ∞ ∞ ∞ DRAWING INDEX luesish to Droja Ca Drawing Wumber Attachment C

ELECTRICAL NOTES

- ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEFA7OD, NEC-2005).

 2. ALL ELECTRICAL MATERIALS SHALL BE U.L. LISTED AND CLASSIFIED AS SUITABLE FOR THE PURPOSE SEPCENTED.

 3. ALL WIRING SHALL BE SURFACE MOUNTED IN A RACEWAY OR ENT CONDUIT USING APPROVED CONNECTORS, COUPLINGS, AND CLAMPS, ALL CONDUIT SHALL BE ANCHORED IN PLACE AT APPROXIMATELY EVERY 4 FT.

 4. ALL WIRING SHALL BE A SOLID CONDUCTOR, THEN OR THEN COPPER, NO SMALLER THAN A \$12.

 5. ALL WIRING SHALL BE CONTINUOUS.

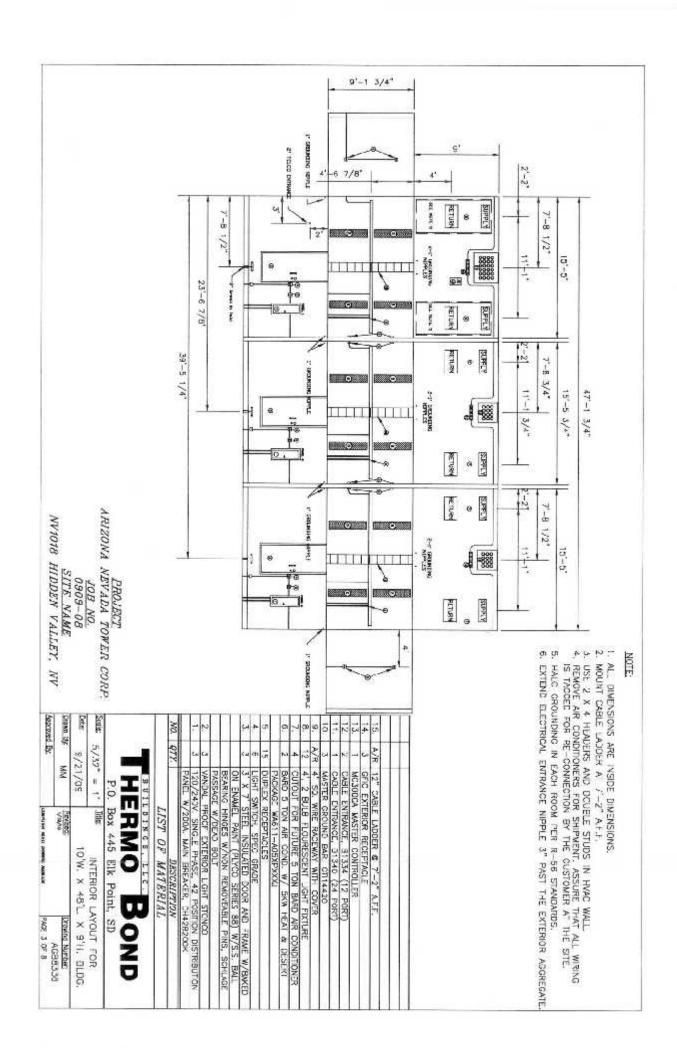
 6. LOW WO TAGE WIRE MAY BE STRANDED.

 7. ALL WIRING SHALL BE TESTED AND INSPECTED PRIOR TO SHIPMENT.

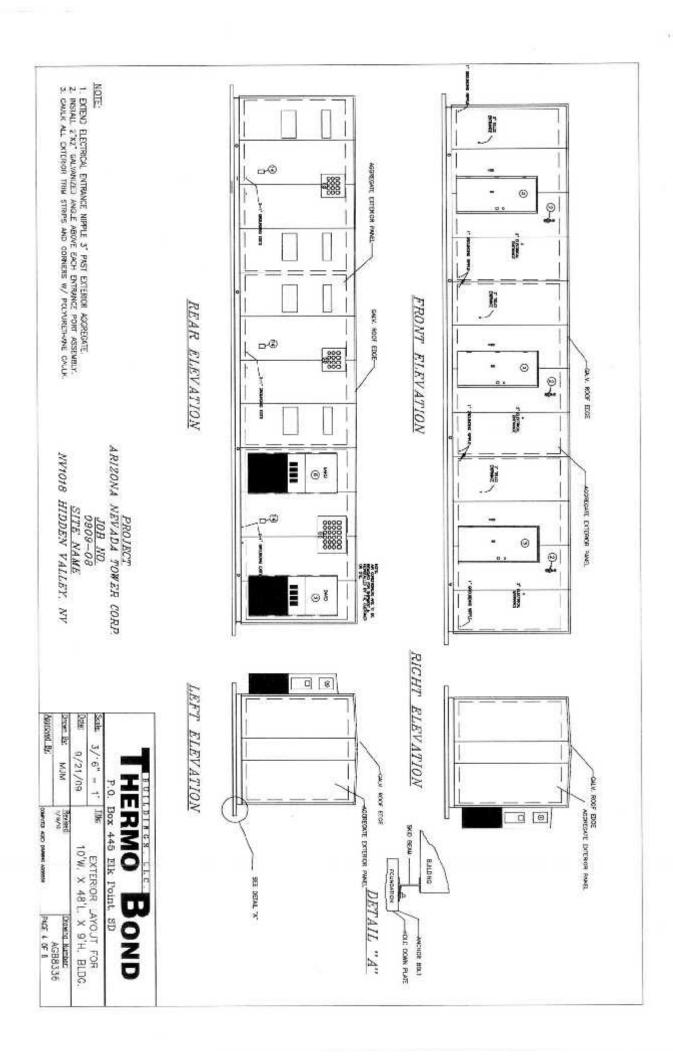
 8. GREEN GROUND CONDUCTORS SHALL BE RUN TO ALL OF THE BULDINGS A/C POWERED DENCES. CONDUIT SHALL NOT BE USED AS THE SOLE SOLRCE OF GROUND.

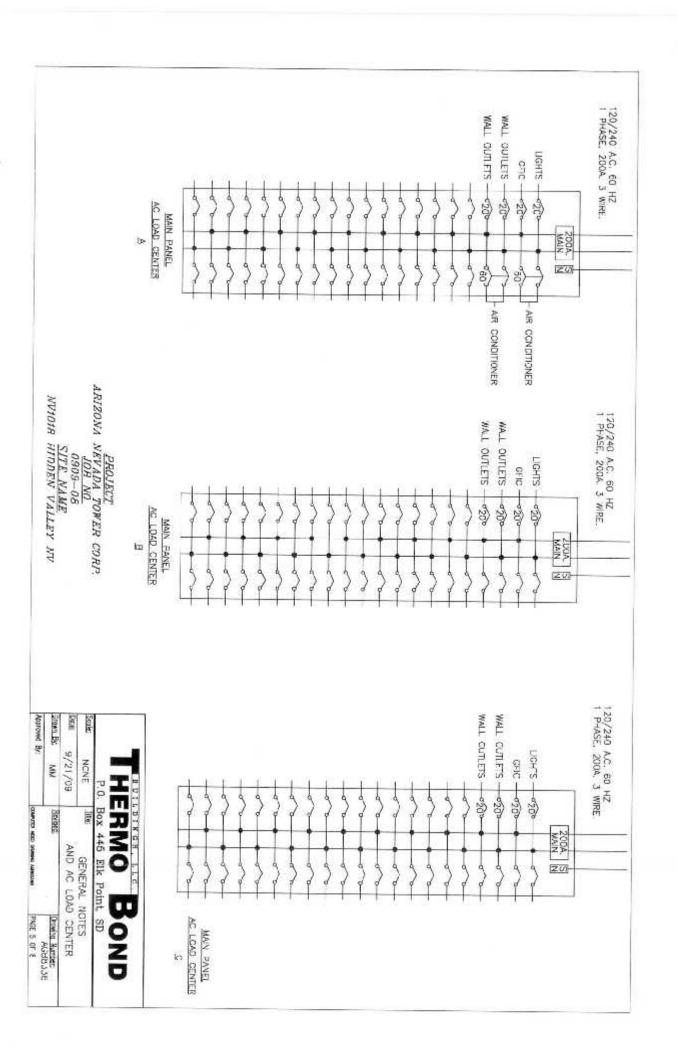
 9. ALL ALARM DEVICES WIRING SHALL BE RUN IN ITS OWN CONDUIT TO THE ALARM CABINET.

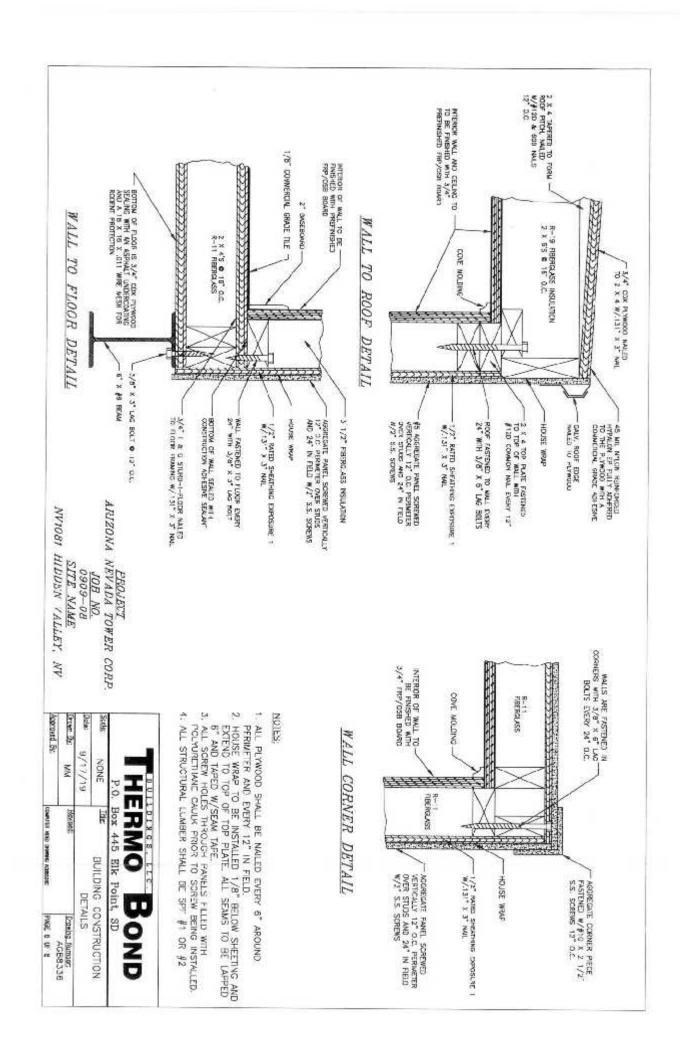
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		/09		P.O.
DWINES PARKED TICK HELINICO	Revised	GENERA_ N	TIE REVISION LOG	RMO E
PAGE 2 OF B	Drawing Sumage:	SELD	LOG	SOND

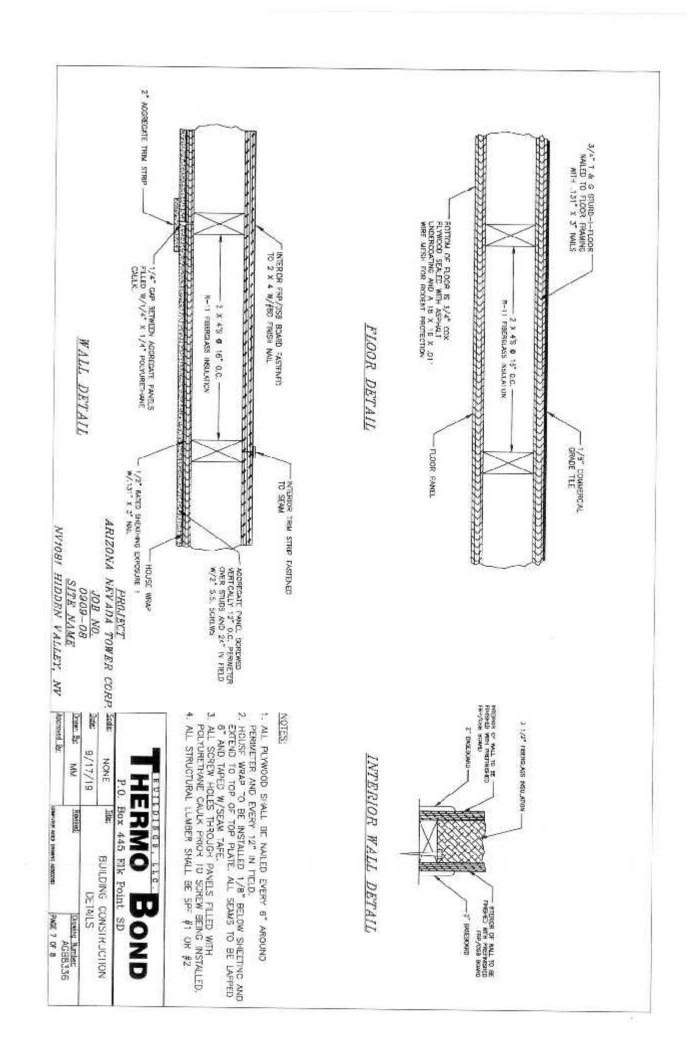


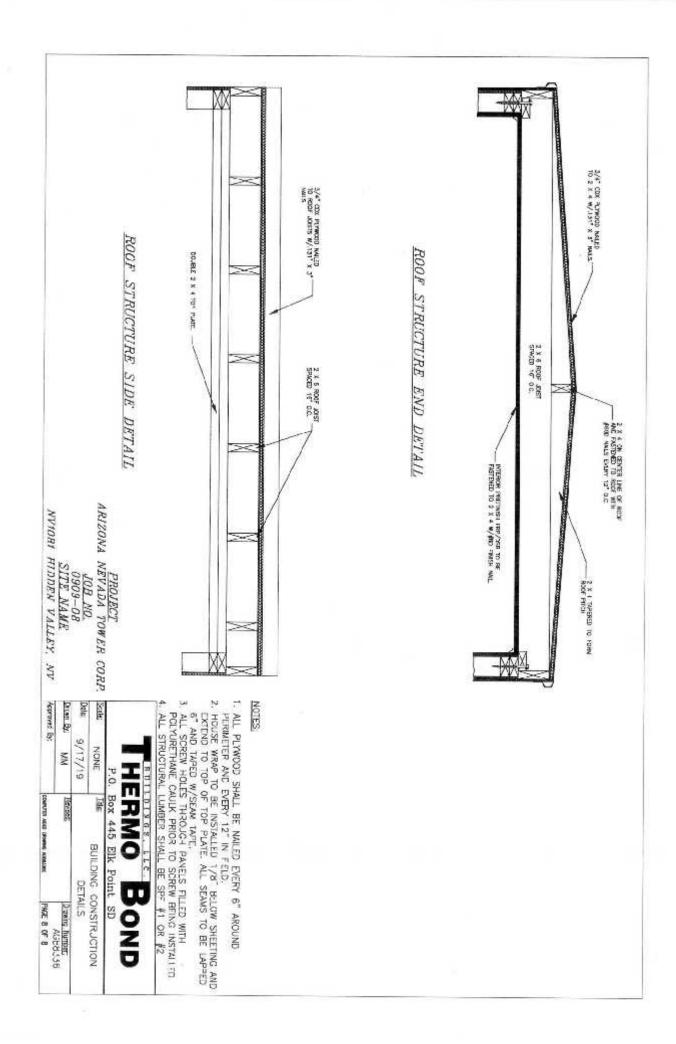
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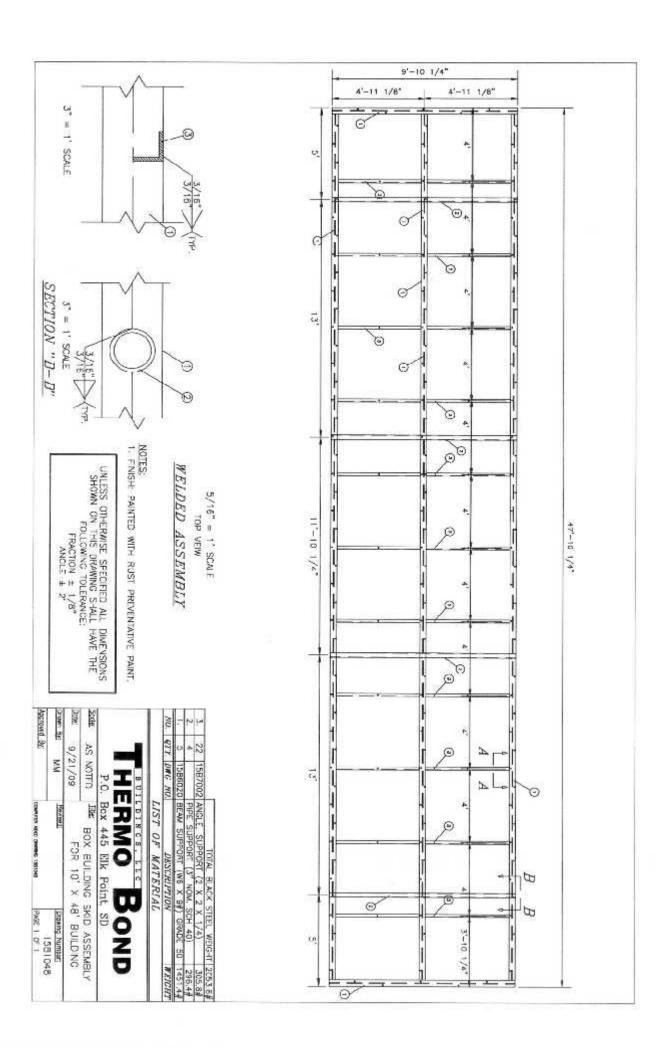


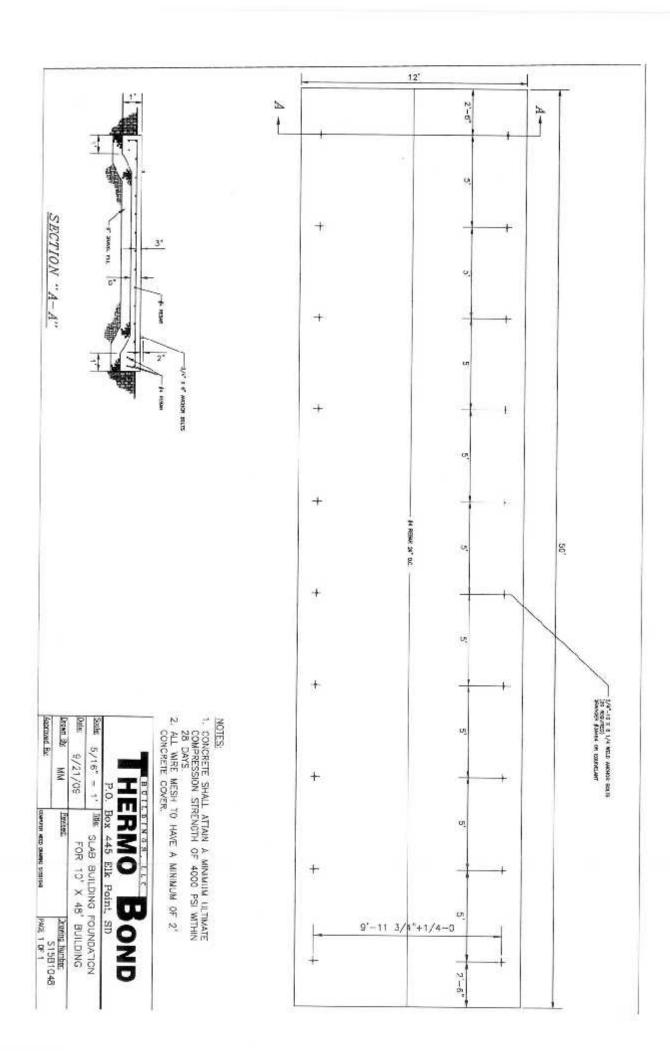












Buildoly Lightly.

DESCRIPTION

(E) COOPER LIGHTING - LUMARK® ♥▼



The Lumark Wal-Pak Series of wall luminaires provides traditional architectural style with high performance energy efficient illumination. Rugged die east aluminum construction, stainless steel hardware along with a scaled and gasketed optical compartment make the Wal Pak virtually impenetrable to contaminants. IP05 Rated. Six available lamp sources including patent pending energy efficient LED, pulse start metal. halide, compact fluorescent, ceramic metal halide, standard metal halide and high pressure sodium. UL/cUL wet location listed. The Wat-Pak wall huminaire is ideal for pathway illumination, building entrances, vehicle ramps, schools, tunnels, stairways and loading docks.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Housing

Rugged one piece die-cast aluminum housing and hinged, removable die east aluminum door. One piece silicone gasket seals the optica chamber, U. 1508 wet location listed and IP65 ingress protection rated. Not recommended for car wash applications.

Electrical

Ballasts, LFD driver and related electrical components are hard. mounted to the die-cast housing for optimal heat sinking and operating efficiency. Wiring is extended through a silicone casket at the back of the housing. Three threaded conduit entry points allow for thru-branch wiring, LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from LED source. Integral LED electronic driver incorporates internal fusing designed to withstand a 3kV surge test and is Class 2 rated for 120-277V with an operating temperature of -30" to 60°C.

COOPER Lighting

Wal-Pak LED systems maintain greater than 70% of the initial light output after 50,000 hours of operation. UL listed HID high power factor ballasis are Class H. insulation rated Imetal halide: 150, 175, 200, 250, 320, 350, 400W J-30°C / 20°F], (high pressure sodium: 60, 70, 100, 150, 250, 400W J-42°C / 40°F). High efficiency HID ballasts. are available in 120V, 208V, 240V, 277V, 347V and 480V. Compact fluorescent high power factor hallasts are Class P insulation rated for 120-277V and have a starting temperature of -18°C / 0°E.

Onticat

Highly reflective anodized aluminum reflectors provide high officiency illumination. Optical assemblies include impact resistant borosilicate refractive glass. Solite " flat diamond patterned glass and full cutoff IESNA compliant configurations. Patent pending, solid state LED luminaires are thermally optimized with 2400 or 4000 sourced Tumen package modules. HID models are offered in harizantal medium or magul-

based metal halida [MH / MP] or high pressure sodium (HP) lamps. T6 ceramic metal halide [CM] and 4-pin compact fluorescent [CF] lamp models offer high efficiency energy saving illumination.

Door Assembly

Single point, captive stainless steel hardware secures the removable hinged door allowing for ease of installation and maintenance. Door assembly is hinged at the bottom for easy removal, installation and re-lamping.

Finish

Housing and door are protected with 5-stage TGIC dark bronze polyester powder coat paint. Premium TGIC power cost finishes withstand extreme climate changes while providing optimal color and gloss retention. Opinional premium colors are available.







WP WAL-PAK 2400 - 4000 Lumens LEU 39 - 400W High Pressure Sodium Pulse Start Metal Halide Wetal Halide

> Ceramic Metal Halide 32 140W Compact Fluorescent

WALL MOUNT HUMINAIRE

ULICUL Wet Location Trated

LM29 / LM80 Compliant

70W HPS NPF (92 Wetfo) 100W HPS NPF (116 Whets) 150W HPS NPF (175 Watts) High Reactance Ballest Input Watts

50M/ MP HPF (68 Watta) 70W WIP HPF (94 Warts) 100W MP HPF (129 Worn) 15UW MP HPF [185 Wolfall CWA Ballast Input Watts 200W HPS HPF (253 Watts) 200W MP HPF (22.7 Wernst it) 253W MP HPF (283 Wests) (i) 320W MP HPF (355 Wellst :0. 360W ATP HPF (436 Wester d)

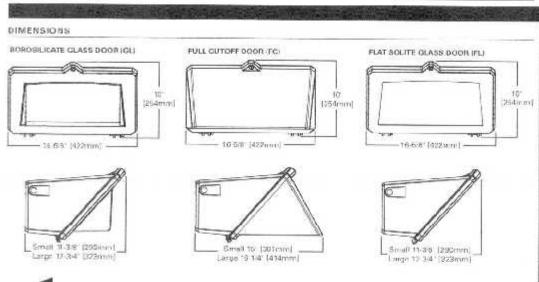
ENERGY DATA Reactor Bellest input Watts 50W HPS NPF (88 Walls)

40°C Maximum Anderest Temperature

External Supply Willing 50°C Minimum. EISA R. ARBA, Little 20 Ecosphien

thos Hatett





www.cooperBighting.com Eusterner First Center 1121 Highway 74 South Peachtree City, GA 30269-770.486.4600 FAX 770.486.4801

MOTH: Specifications and disconsists without to-change without neg en-

Visit our web site at www.cooperlighting.com

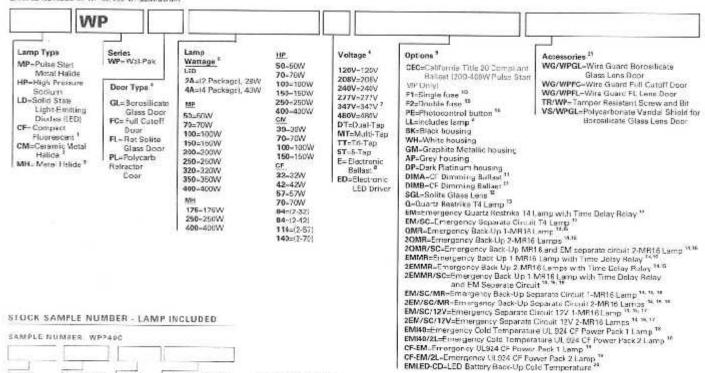
SHIPPING DATA Approximate Net Weight

400W HPS HPF (465 Wutto)

400W MP HPF (452 Wells) III

32 42 lbs (1h-10 kgs.) ADH050 103 pn 2012 06 14 09 08:16

SAMPLE NUMBER: MPWP-GL-250-MT-2EM/SC/MR



LED LUMEN TABLE

BUG RATING	В	U	G	Delivered Lumens 22		8	U.	G	Delivered Lumens 22
Bordel idate Glass Doorr GLI LDWP-GL-2A-ED LDWP-GL-4A-ED	0	3	2 2	1636 2796	Flat Jens Door (FLI JOMP PLIZAED JOMPHILLANED	0	2 3	1	1454 2784
Polycarbonate Lens (PLI LDMP PLI2A-E3 LDMP PLI2A-E3	0	3 2	2 3	1508 2247	Full Guidf Door (FC) LDWP FC 24-ED LDWP-FC-44-ED	0.0	1	1	1006

For more information monte CS 80G/BackignEUpright Catel Rating visit www.csna.org/PDE/frester/IM-16-07B.gRpth/gsAdcandam.intt

- NOTES: 1 CF Brigs him a officing it gill door configurations. CF and large models not affected by the models of an additional and the encorpeopal complete. The management of the models of an additional and the encorpeopal complete. The management of the models of the models of the models of the models. Octave Additional And the first of the models of the models. Octave Additional CV is an additional to the models of the models. Octave Additional CV is an additional to the models of the models. Octave Additional CV is an additional to the models of the models. Octave Additional CV is an additional to the models of the models. Octave Additional CV is an additional to the models of the models. Octave Additional the models of the models o

NATES: Options and was ride with rest products. Balle to elamped when other metric is used spinners. All insteads of Long Type Ref and available in 1900; 1955 not habitate in 2000, and all back Of Dicou. These many year rest leadants. 24 and 48 models available in 160 only. LED models are 190, 1996.

Lamp Type

L-LEU

Purpolae

Start

Vetal Haline S_High

Pressure Sodium

Larne

Wattage

2A-28VV

44-40%

10=100AV 15=100AV

29=250VV

46=100VV

Seiles

WP=Wnl-Pay

- 13 C to ESC not avoid the with ED of Extends to receive with ED with EM Morrow Hill Waldage in To wath. EV-8C evidence in 1207 orly. EMSC unit arranged with ED Mychael 1904; 1904 in Extends of the Education of 18 C to LSC not execute the LD or Execution contact the CV Morning HID without Court time. CV Morning HID without CV Morning HID with CV Morning H

Door/Glass Type

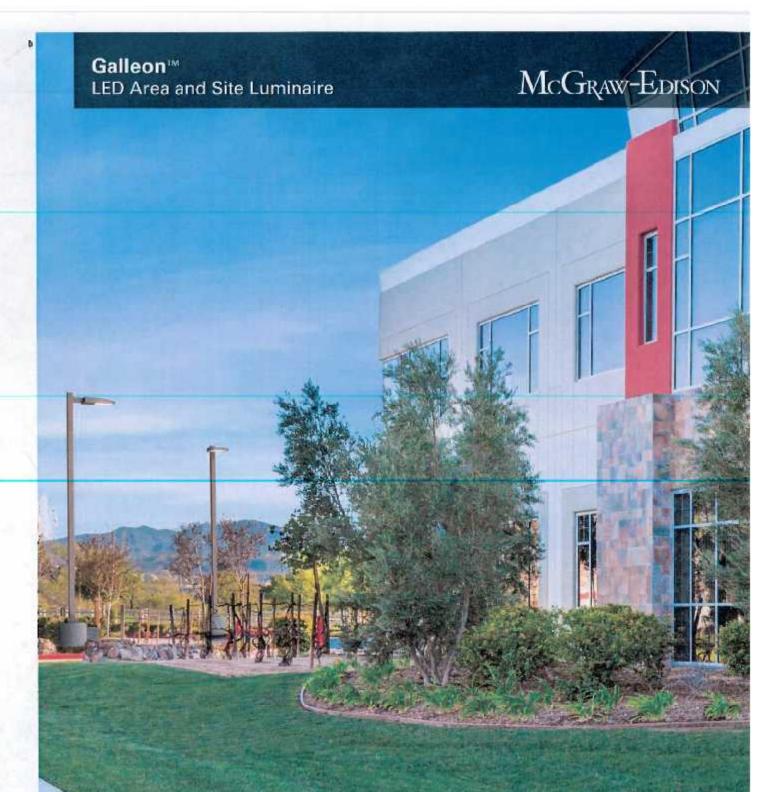
C Fall Cotoff Dear

Blank -Standa

LAMP TYPE	WATTAGE
Pulso Start Midal Helide	50, 70, 100, 150, 200, 250, 320, 350, 400W
Metal Halide	175, 250, 400W
High Pressure Sodium	50, 70, 100, 150, 250, 400W
Té Ceramic Metal Halide	39, 70, 100, 150W
Campact Fluorescent	(1) 32, (1) 42, (1) 57, (1) 70, (2) 32, (2) 42, (2) 67, (2) 70
LED	2A (2 Packaga) 28W, 4A (4 Fackage) 40W

VOLTAGE CHART	
DT=Dual-Tap	120(277 (wired 277V)
MT-Multi-Top	120/208/240/277 (wired 277V)
TT=Trl-Tap	120/277/347 (wined 347V)
5T=5 Tap	120/209/240/277/480 (wired 488V)
E-Electronic Ballast	120-277V (Universal) (50/80 HZ)
EB=Electronic LED Driver	120-277V (Universal) (50/60 HZ)





Cooper Lighting

Parking Lichting-



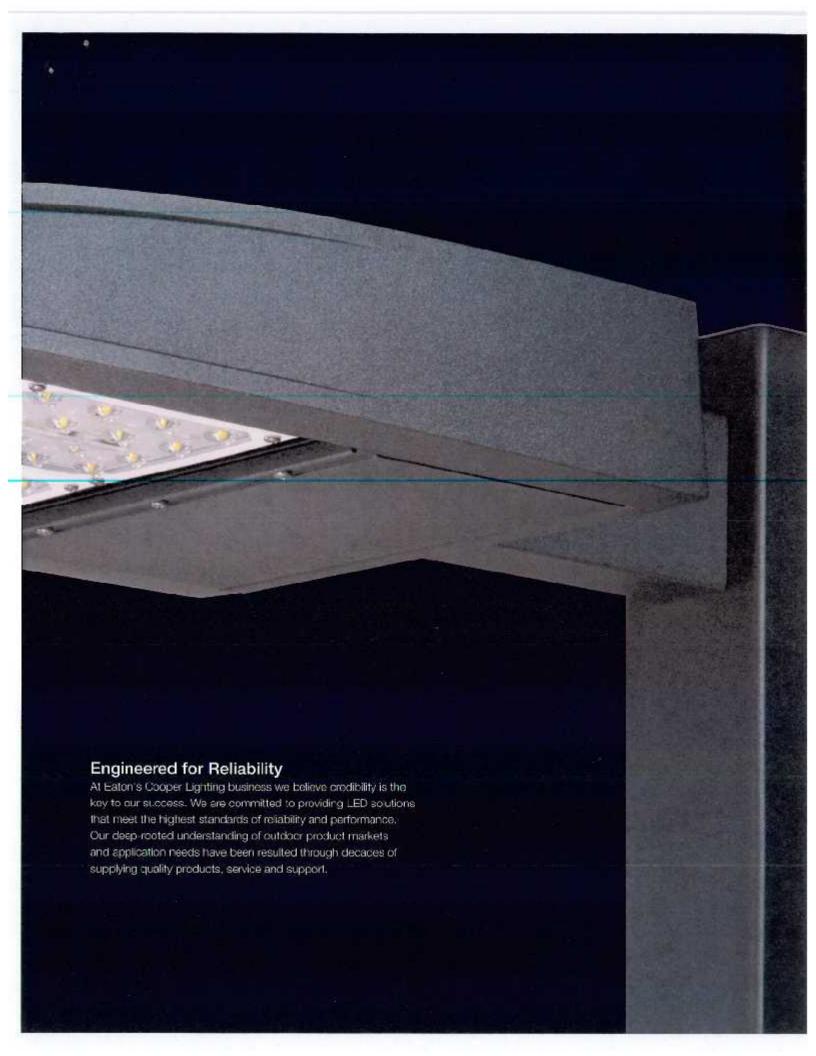
Area and Site Lighting Redefined

A New Benchmark in Performance and Features

The Galleon LED luminaire delivers a new level of performance and versatility for commercial area, site and roadway applications. Incorporating industry-leading, patented optics, the Galleon LED luminaire offers a choice of 16 specialized optical distributions that deliver superior control and maximize light levels. With a choice of 30 lumen packages, the Galleon LED luminaire allows scalability from 3,000 to over 53,000 delivered lumens. The 4000K/70 CRI is standard, with 6000K/70 CRI and 3000K/70 CRI options available.

Long Life with Low Maintenance Costs

In addition to delivering superior performance, the Galleon LED luminaire is designed for low maintenance, long life and low cost of ownership. These are key benefits that provide compelling justification to retrofit traditional HID solutions, or allow end users to capitalize on these advantages in new construction applications. The Galleon LED luminaire can be tailored to meet your most important needs without compremising or specification features. The LED components and fixture housing are IP66 rated, which provides years of reliable operation with minimal service requirements.



Design Excellence

Stepping Up to the Challenge

The Galleon LED luminaire delivers exceptional performance in a highly scalable, low-profile design. The patented, high-efficiency AccuLED Optics* system provides uniform and energy-conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. With HID equivalents ranging from 100W up to 1000W, the Galleon LED luminaire is designed to meet the toughest lighting challenges.

Construction

- Extruded aluminum driver enclosure
- · Heavy-wall die-cast aluminum end caps
- · 3G vibration rated
- IP66-rated housing and LED Light Squares
- · Optional tool-less entry

Electrical

- Operates in -40°C to 40°C ambient with optional high ambient 50°C ambient configuration
- Proprietary circuit module designed to withstand 10kV of transient line surge
- >L90 60,000 hours at 40°C, compliant with IESNA TM-21
- 120V-277V 50/30Hz, 347V 60Hz or 480V 60Hz operation

Controls

- Standard with 0-10V dimming driver(s)
- · Optional occupancy sensor
- · Optional wireless control and monitoring system

Finish

 Five-stage, super durable TGIC paint resists extreme weather conditions while providing optimal polor and gloss retention.
 It's available in standard grey or optional bronze, black, cark platinum, graphite metallic or white.



Warranty

Five year warranty



Surge Protection

A 10kV common surge (line-to-ground) and differential surge (line-to-line) mode protection is standard.



NEMA Twistlock Photocontrol Receptacle

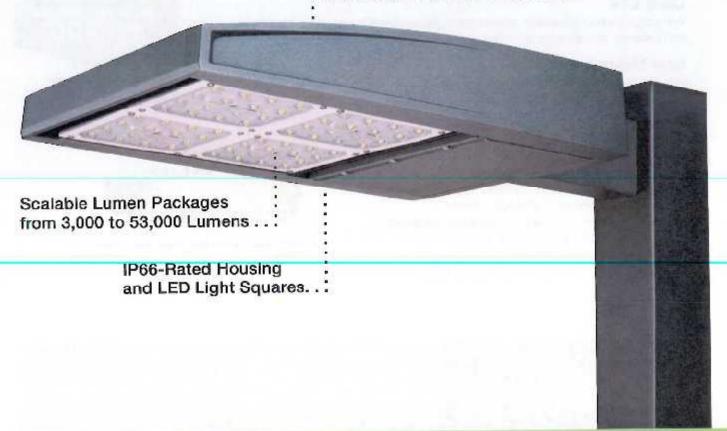
Optional gasketed receptacle for mounting stancard NEMA photocontrol (order separately)



Light Square Trim Plate Finish

An optional finish to match LED trim plates to the housings exterior allows luminaire to blend seamlessly in any site lighting application.

. . Die-cast Aluminum Heat Sinks

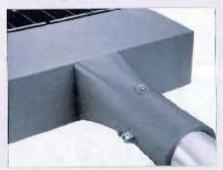


10

Occupancy Sensor

The optional motion sensor reduces energy use for site lighting applications.

Mounting Options



Mast Arm Adapter
An optional cast alumnum mast arm acapter secures fixture head to nominal 2" (2-3/8" C.D. pipe size) horizontal steel tenon arm.



Wall Mount Bracket
An optional wall-mount plate is secured to
wall by four lag bolts (supplied by others).

Scalable Illumination with LED Light Squares

Energy Savings and Environmental Stewardship

The simplest and most effective way to reduce a lighting fixture's impact on the environment is to minimize its energy consumption. By incorporating Light Squares from Eaton's Cooper Lighting business, the Galleon LED luminaire provides energy savings up to 75 percent compared to standard HID solutions.

Long Life

With a 60,000+ hour rated life (at greater than 90 percent lumen maintenance), the Gaileon LED Luminaire operates up to six times longer than traditional metal halide fixtures.

Low Maintenance

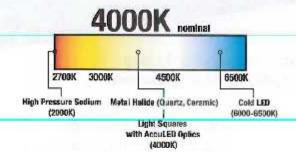
With simple quick disconnects, the Light Squares are easily removed in the field for replacement or for the rotation of the optics.



NOTE: Complian, wit: IESNA TM-Z1

Warm White Color

Lighting designers, architects and specifying engineers have ong preferred light sources that provide a belanced spectral power distribution and warm white light. Many _ED solutions standardize on a cool blue 5000-6000K correlated color temperature (CCT) to maximize lumen output. The Galleon LED Luminaire provides warm white light at a standard 4000K CCT with no sacrifice in lumen output.



Superior Efficiency and Control

With officiencies as high as 95 percent, the patented AccuLED Optics system is up to 30 percent more efficient than traditional HID optical systems.

Available in 16 optional distributions, this system provides the flexibility and performance required for outdoor applications.



House Side Shield

For stringent light trespass requirements and the ultimate level of backlight control, a house side shield accessory is available for factory or field installation. Designed to seamlessly integrate with the SL2, SL3, SL4 and AFL distributions, the house side shield virtually eliminates backlight and also enhances visual comfort.



Optical Performance Redefined

Performance and Scalability

The Galleon LED luminaire is designed around superior optical performance and scalability. With a choice of 30 lumen packages and 16 optical distributions, the optimal configuration can be used to maximize light levels while minimizing operating costs.

Power Consumption (Walts)

Number of		Drive Comunt	
Jight Spanner	EllioniA	700mA	1/A
1	30	38	56
2	54	72	107
3	80	105	157
4	105	138	213
5	130	176	264
8	159	210	315
7	184	243	370
8	209	278	421
9	234	314	475
10	259	340	528

Efficacy (m/W)

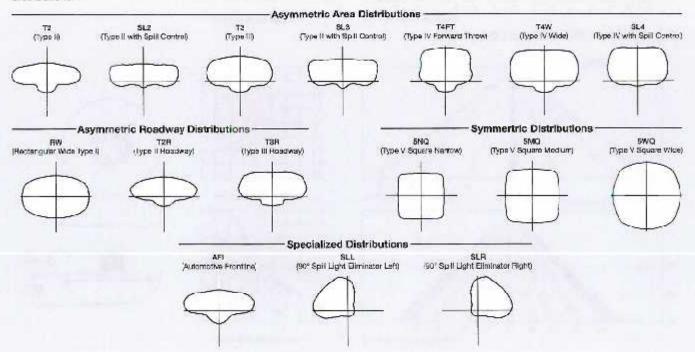


NOTE: Nominal efficacy at 4000K CCT



Optical Distributions

The Galleon luminaire has a choice of seven asymmetric area, three asymmetric roadway, three symmetric and three specialized distributions.



Occupancy Sensing

Accelerate Payback on your Investment

To further enhance energy savings, the Galleon luminaire offers an optional occupancy sensor that is integral to each individual luminaire. When the area surrounding the luminaire is unoccupied, the sensor has the ability to reduce light levels and power consumption. In addition to financial benefits, all the control options for the Galleon luminaire are designed to be simple and cost-effective ASHRAE and Title 24 compliant solutions.

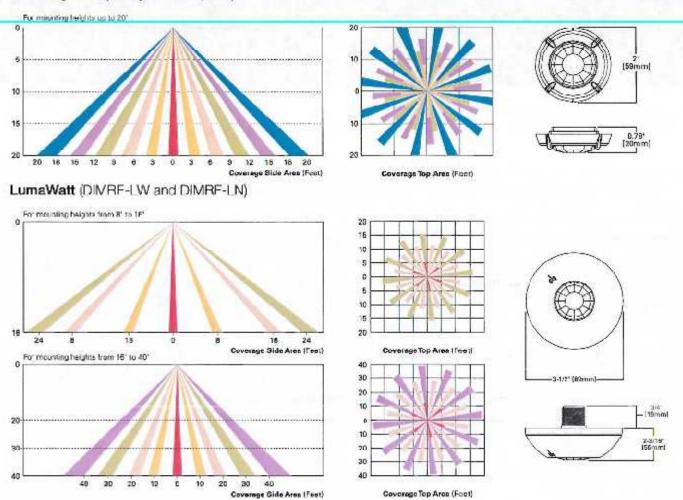
Dimming Occupancy Sensor (DOS)

When the DOS option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The sensor is factory preset to dim down to approximately 50 percent lumen output with a time delay of five minutes. To change these settings, a FSIR-100 accessory can be purchased. The FSIR-100 is a wireless configuration tool that allows the dimming level, time delay, sensitivity and other parameters to be changed. Consult a representative from Eaton's Cooper Lighting business for additional details.

LumaWatt Wireless Control and Monitoring System (DIMRF-LW and DIMRF-LN)

The LumaWatt system is best described as a peer-to-peer wireless network of luminaire-integral sensors that operate in accordance with programmable profiles. The end user can create and manage sensor profiles with browser-based management software and broadcast to the sensors as necessary via wireless gateways. Each sensor is capable of motion and photo sensing, matering power consumption and wireless communication. For additional details, refer to www.cooperlighting.com.

Dimming Occupancy Sensor (DOS)



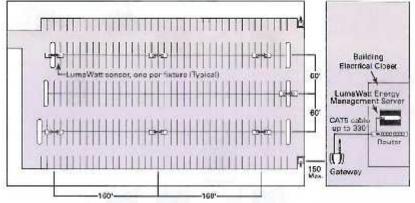
Scheduled Dimming and Occupancy Detection



For autdoor parking area applications, lighting should be dimmed or turned off within one hour of business closing. Scheduled dimming and occupancy detection can be combined to recuce maximum lighting levels outside cusiness hours, Egiess and security lighting is available on occupancy detection.

Sides of Drive Fixture Location

Fixture Spacing = 160' x 120' on center 20 lixtures per 80' wide chive lane; 40 fixtures total for 420' x 120' parking deck



	Deity Hours	Control Event	Arrest Loss (KWh)
14 Sensor Integrated Luminaires 35' on Mounting Height, (Centered at 120' x 160'		
Bill-of-Material (BOM)			
(1) DE-EM1, (1) DE-DOUT1, (1) DE-CW1 (14) GLECN-AE10-LED-E1-72-B2-OMRF-LN (615W)	11	100% On	28,948
Control Schedule			
7:80 PM-11:50 AM	4	100% On	10.526
11:30 PM-6:30 AM	7	40% On, On Occupancy 70%	7,250
Total Controlled Load	12	2 Events	17,895
Energy Saving	W	N	38%

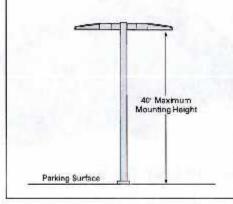
IESNA Lighting Handbook 10th Edition Illuminance Values for Area and Site Applications

Parking Lot Design Guide

Mummance	Maximum Horizontal Illeringesia	United the Parks of Mar. / Mic.	Minimum Merbaul Illuminance		
	luxito				
Basic	2.0 / 0.2	20:1	1.0/0.1		
Rasic Enhanced Security	5.070.5	15:1	2.5/025		
Security	10.0 / 1.0	16:1	5.8-8.0 / 0.6 0.6		
High Security	30.0-60.0 / 3.9-6.0	4.1	12-60 / 1.2-60		

NOTES:

- 1 Messured on parking surface without shadowing from any
- a For facial recognition measured at 5' above the parking surface at the point of lowest horizontal liturnihance



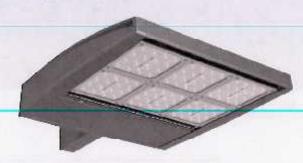
Configuration Flexibility

A New Level of Scalable Solutions

The Galleon LED luminaire is available in one to 10 Light Squares. As the number of Light Squares increases, the luminaire width increases proportionally.



1 - 4 Light Squares



5 - 6 Light Squares



7 - 8 Light Squares



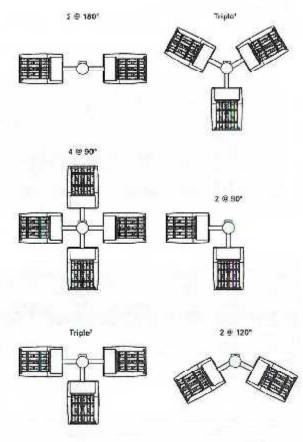
9 - 10 Light Squares

Pole Mounting Configurations

The standard Galleon I FD luminaire configuration is designed to mount to a round or square pole. When mounting two or more fixtures at 90° or 120° apart, a longer Extended Arm (EA) may be required. Please reference the table below to determine when the Extended Arm is required and designate "EA" in the catalog logic.

Arm Mounting Requirements

Configuration	60'Apart	1907 Apart		
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)		
GLEON AE 02	7" Arm (Standard)	7" Arm (Standard)		
GLEON AE 03	7" Arm (Etandard)	7" Arm (Standard)		
OLEON-AE-04	7° Arm (Stendard)	7" Arm (Standard)		
GLEON AE 05	10" Extended Arm (Recuired)	7" Arm (Standard)		
GLEON-AE-06	10" Extended Arm (Recuired)	T' Arm (Standard)		
GLEDN-AE-07	13' Extended Arm (Recuired)	13" Extended Arm (Required)		
GLEDNIAE 08	13" Extended Arm (Required)	13" Extended Arm (Paquires);		
GLEON-AE-09	16" Extended Arm (Required)	18* Extended Arm (Required)		
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)		



NOTES: 1 Principoles wie Sitt 190° Follow priest ent 0.49 SD*, 2 Pound police uit 3 € 00°

Ordering Information

Sample Number: GLEON-AE-04-LED-F1-T3-GM-700

Freduct Family	Light Engine	Number of Capte Scalesce	Lamp Types	Voltago	Children		Cario	Mauming
GLEON-Gateon	AE-TA Drive Current	01=1 02-2 05=3 04=4 05=5 06=6 07=7 08=8 08=9 10=10	LED-Solid State Light Emiting Diodes	BI=120-277V 347-347V ² 490-480V ²	T2-Type I T2R=Type II Roadway T3-Type II Roadway T3R=Type III Roadway T4FT-Type IV Forward Innow T4W=Type IV Forward Innow 5MO-Type V Square Naruw 5MO-Type V Square Medium 6WQ=Type V Square Wide	SL2=Type II w/Spill Control 8L3=Type III w/Spill Control 8L4=Type IV w/Spill Control 8LL=30* Spill Light Birmhator Hight 8LR=90* Spill Light Birmhator Hight RW=Hectangular Wide Type I AFL=Automotive Frontine	AP=Grey BZ=Bronze BK=Black DP=Cerk Fishirum GM=Graphite Metalici WH=White	Blank]-Arm for Found or Square Pole EA-Extended Arm? MA-Maid Arm Adopter WM-Wall Mount

2L=Two Circuits 53 7030=70 CRI 2000K7 7080-70 CRI 6000K7 630-Drive Current Factory Set to 530mA* 700-Drive Ourrent Factory Set to 700mA*

P=Button Type Photogontrol (120, 238, 240 or 277V)
R=NEMA TWistlock Photogentral Recombisis

HA-60°C High Ambient®

MS/UIM-LUB-Motion Sensor for Dimning Operation, Maximum 8" Mounting Height 6 No. 11 is MS/DIM-L20-Motion Sensor for Dimning Operation, 9 + 27 Mounting Height 6 No. 11 is MS/DIM-L20-Motion Sensor for Dimning Operation, 211 40" Mounting Height 6 No. 10 is MS/M-L08-BH-Level Motion Sensor, Maximum 8 Mounting Height 10 No. 10 is MS/M-L08-BH-Level Motion Sensor, Maximum 8 Mounting Height 10 No. 10 is MS/M-L40-BH-Level Motion Sensor, 21" - 40" Mounting Height 10 It Mounting Height 11 It

DIMRF-LN=LumeWatt Wireless Sensor, Narrow Lens for 18" - 40" Mounting Height 12

L90=Optics Flotated 90° Le1. H9G-Ciptics Hotated 9C* Fight MT=Factory Installed Mesh Tup TH=Tool4ess Door Hardware

LOF=_ight Squere Trim Plate Paintest to Match Housing HSS=Factory Installed House Side Shield ¹⁹

OA/RA1016=NEMA Photocontrol Multi-Tep - 105-285V OA/RA1027=NEMA Photocontrol - 485V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cep OA/RA1014=126V Photocontrol MA1202=1UkV Surga Module Replacement

MA1197-XK=3 @ 120" Tenon Acapter for 2:8/6" O.D. Tenon MA1189-XX+2 & 80° Tenon Adepter for 2-348° C.D. Tenon MA1189-XX+2 ⊗ 80° Tenon Adepter for 2-348° C.D. Tenon MA1190-XX+2 ⊗ 90° Tenon Adepter for 2-348° C.D. Tenon MA1191-XX+2 ⊗ 120° Tenon Acepter for 2-34° C.D. Tenon MA1202-1Uk/ Surga Module Repiscement
MA1033-XX-Singa Trans Adapter for 2-381 O.D. Tenon
MA1033-XX-Singa Trans Adapter for 2-381 O.D. Tenon
MA1037-XX-Singa Trans Adapter for 2-381 O.D. Tenon
MA1193-XX-Singa Trans Adapter for 3-1/2 O.D. Tenon
MA1193-XX-Singa Trans Adapter for 3-1/2 O.D. Tenon
MA1193-XX-Singa Module Repiscement
MA1038-XX-Singa Trans Adapter for 3-1/2 O.D. Tenon
MA1038-XX-Singa Trans Adapter for 3-1/2 O.D. Tenon
MA1193-XX-Singa Trans Adapter for 3-1/2 O.D. Tenon
MA1038-XX-Singa Trans Adapter for 3-1/2 O.D. Tenon
MA1193-XX-Singa Trans Adapter for 3-

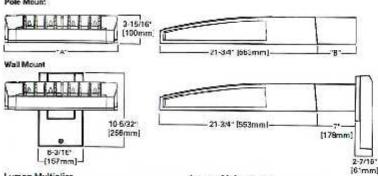
MA1194-XX-2 © 90° Tenon Adapter for 3-1/2° O.D. Torion MA1196-XX-3 © 90° Tenon Adapter for 3-1/2° O.D. Tenon PSIN-100-Wireless Configuration 100 for Occupancy Sensor 19
GLEON-MT1-Floid installed Mesh Top for 1-4 Light Squares
GLEON-MT2-Field installed Mesh Top for 5-8 Light Squares
GLEON-MT3-Field installed Mesh Top for 7-8 Light Squares
GLEON-MT4-Field installed Mesh Top for 9-10 Light Squares
GLEON-MT4-Field installed Mesh Top for 9-10 Light Squares
LS/HSS-Field installed House Side Shield ^{N-2}

NOTES: 1 Characted 4000K COTT and minimum /O CHI, 2 Lumar/ac. Wholese Sensors not currently available or 347V is 480V applications; 3 May be required which two or more luminates are oriented on a 90° in 130° tribing patient.

Safe to sent model to experience table. 4 Factory intelligible 5.9 by models are in 11 ght Seycory 8 has averaged with currently available in the Galdon Luminate patient page on the velocity and the patients. Use the currently available in the Galdon Luminate patient page on the velocity 8.1 Amp distinction. Use the currently available in the Galdon Luminate patient page on the velocity 8.1 Amp distinction in the Galdon Luminate patient to the currently available in the Sensor manufacture internation. In 16 120V or 21 Y in 10 Sensor and Sensor manufacture in 12 Not available with H4 color. 18 threaden the Carrently available in 16 Sensor manufacture in 12 Not available in 16 Sensor manufacture in 18 Sensor manu

Dimensions

Pole Mount



Lumen Multiplier

Ambient Temperature	Lamor Multiplier	
6°G	1.02	
10°C	1,01	
25°C	1,00	
40°C	0.98	
50°C	0.97	

Lumen Maintenance

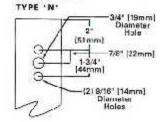
	TM-21 Linner	Transcattout 1.70
	SILODO House	Personal
25°C	> 94%	> 850,000
40°C	> 93%	> 250,000
5000	> 90%	> 170,000

Dimensional Data

Marpher of Light Squires	ran Willia	"II" Standard Ann Longitt	18" Duticool Asso Length
1174	16-1/2" (894mm)	7" (176mm)	10° (254mm)
5-6	21-5/9" (649 mm)	7" (175min)	10" (254mm)
7.8	27-5/9" (702mm)	7" (178mm)	13° (330mm)
P-10	33-3/4* (857mm)	7" (178em)	16" (406mm)

NOTES: 1 Optional arm longin to be used when mounting two foduce at 90° on a wrigin pole. 2 SPN collulated with exterial arm length

Drilling Pattern



Additional Information

Consilances	Triancar firm (Section LED Drive)	Approximate Weight	EFR (Effective Projected Artig - Scioline Foot)
UL and GJL Wet Location Listed IP66 Light Squares 93 Vibretion Rated ARRA Compilers ISO 9001	+40°C (10°F) Ambient Temperature Hating -40°C (-40°F) Ambient Temperature Rating Optional 50°F HAI Ambient Temperature Rating >-0.9 Peace Section <20°s Install Harmonic Distortion 1.20°-2"7"VIGD and 60°Hz 947"VIGD Hz, 480"VIGD Hz	1-4 Light Souries 37 the (15,0 kgs.) 6-6 Light Souries 44 ths. (20,0 kgs.) 7-8 Light Souries 54 ths. (24,5 kgs.) 9-10 Light Squares 69 ths. (28,6 kgs.)	1-4 Light Squares 0.98 S-5 Light Squares 1.01 7-9 Light Squares 1.07 9-10 Light Squares 1.12



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Halo

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Portfolio

IRIS RSA

Metalux

Corelite Neo-Ray

Fail-Safe

Ametrix

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Lumière

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iLight (International Only)