



Innovation you can rely on™



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 compromising on specification features. The LED components and fixture housing are IP66 rated, which provides years of reliable operation with minimal service requirements.

Engineered for Reliability

At Cooper Lighting Solutions we believe credibility is the key to our success. We are committed to providing LED solutions that meet the highest standards of reliability and performance. Our deep-rooted understanding of outdoor product markets and application needs have been resulted through decades of supplying quality products, service and support.

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

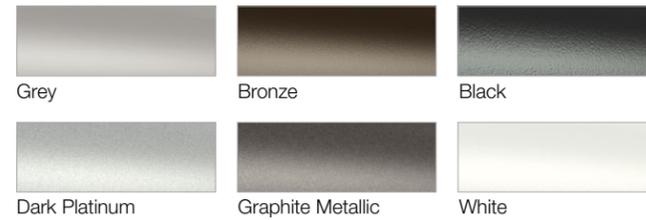
- Operates in -40°C to 40°C ambient with optional high ambient 50°C ambient configuration
- Proprietary circuit module designed to withstand 10kV of transient line surge
- >L90 60,000 hours at 40°C, compliant with IESNA TM-21
- 120V-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation

Controls

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

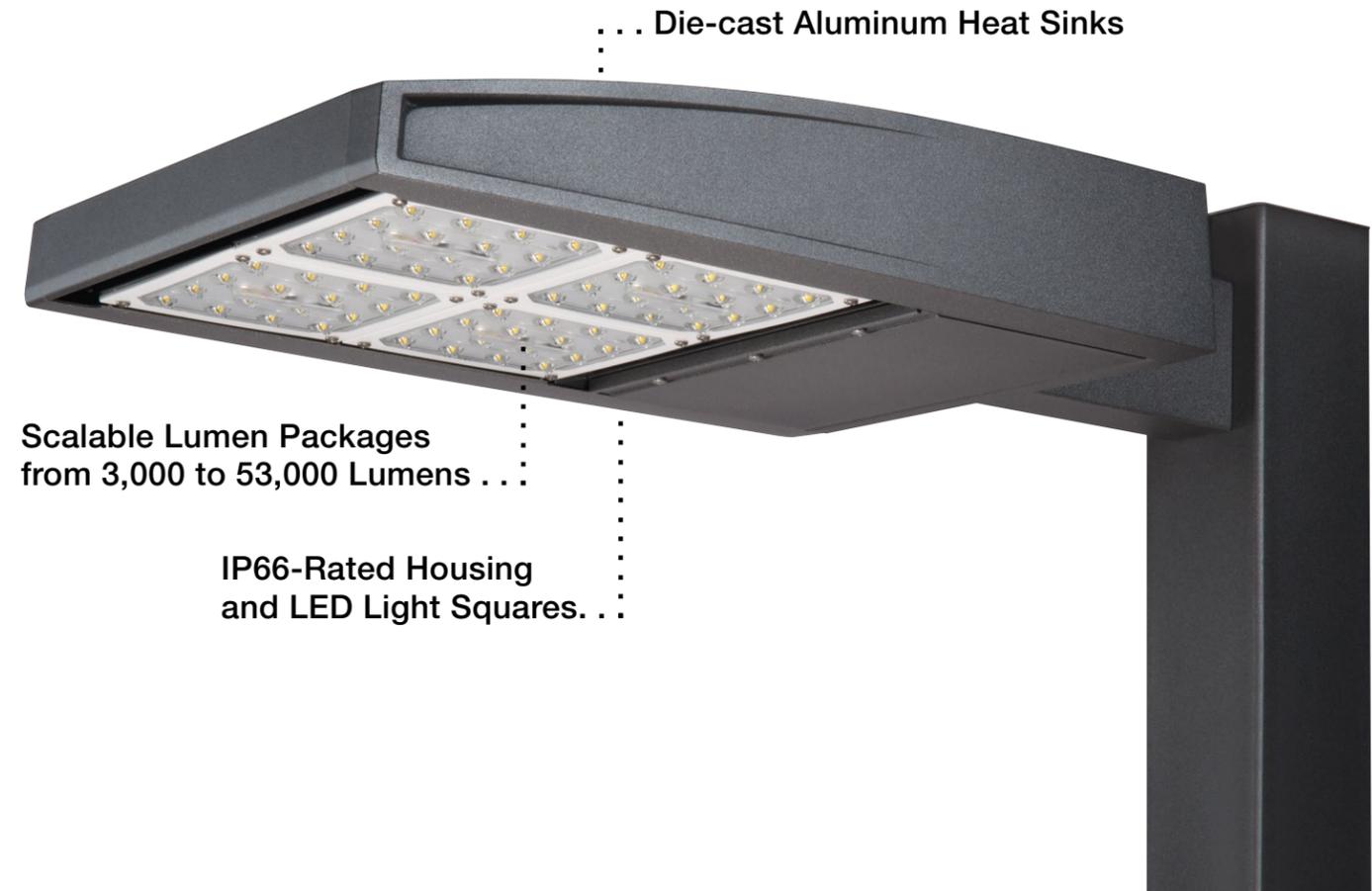
Finish

- Five-stage, super durable TGIC paint resists extreme weather conditions while providing optimal color and gloss retention. It's available in standard grey or optional bronze, black, dark 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 standard 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.



Occupancy Sensor

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

Mounting Options



Mast Arm Adapter

An optional cast aluminum mast arm adapter secures fixture head to nominal 2" (2-3/8" O.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 Cooper Lighting Solutions, 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 Galleon LED Luminaire operates up to six times longer than traditional metal halide fixtures.

Low Maintenance

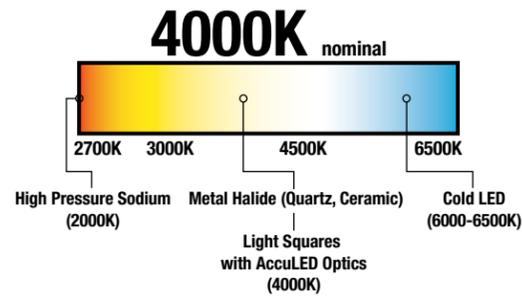
With simple quick disconnects, the Light Squares are easily removed in the field for replacement or for the rotation of the optics.

Warm White Color

Lighting designers, architects and specifying engineers have long preferred light sources that provide a balanced spectral power distribution and warm white light. Many LED 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.



NOTE: Compliant with IESNA TM-21



Optical Performance Redefined

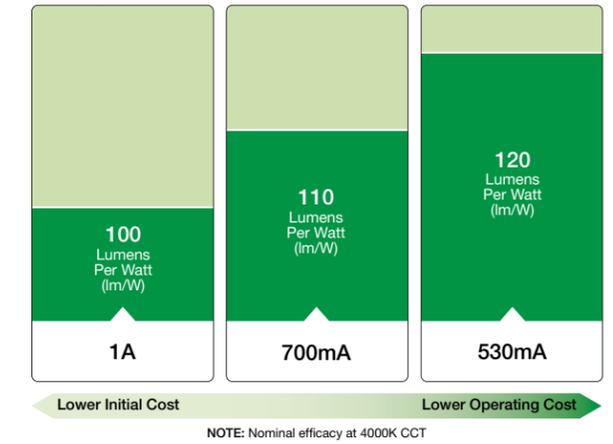
Performance and Scalability

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 (Watts)

Number of Light Squares	Drive Current		
	530mA	700mA	1A
1	30	38	56
2	54	72	107
3	80	105	157
4	105	138	213
5	130	176	264
6	159	210	315
7	184	243	370
8	209	276	421
9	234	314	475
10	259	348	528

Efficacy (lm/W)



NOTE: Nominal efficacy at 4000K CCT



Superior Efficiency and Control

With efficiencies 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.



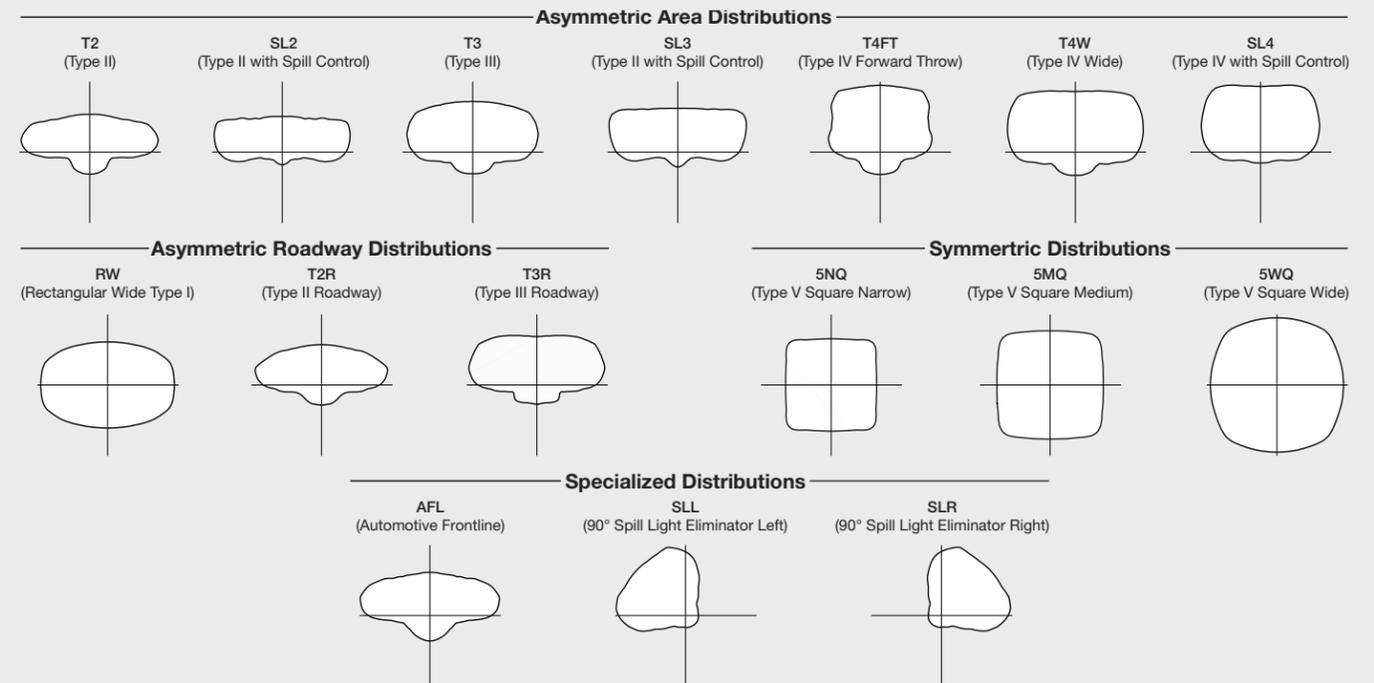
House Side Shield

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 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)

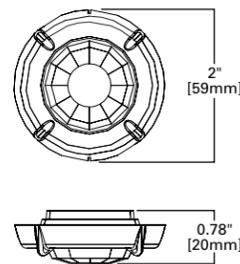
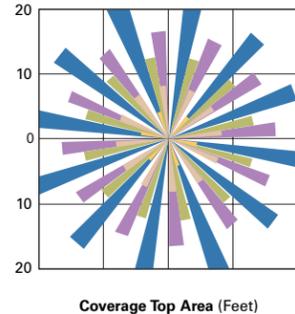
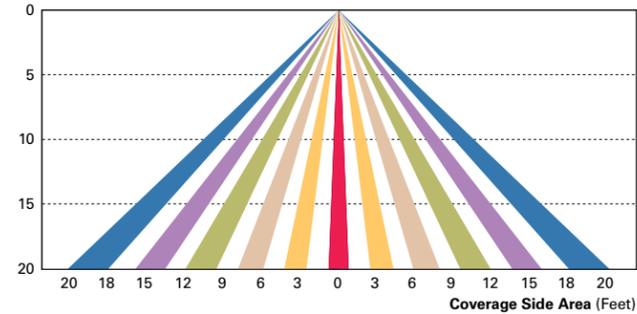
When the DOS option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The sensor is factory preset to dim down to approximately 50 percent lumen output 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 Cooper Lighting Solutions 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, metering power consumption and wireless communication. For additional details, refer to www.cooperlighting.com.

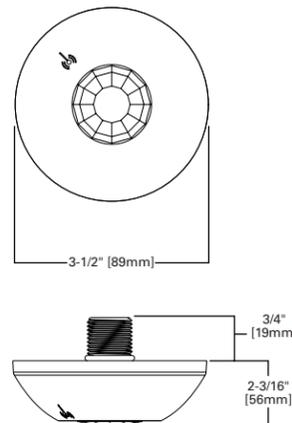
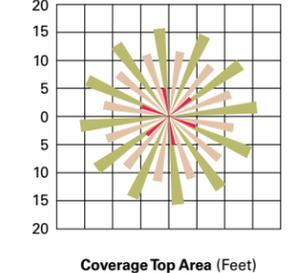
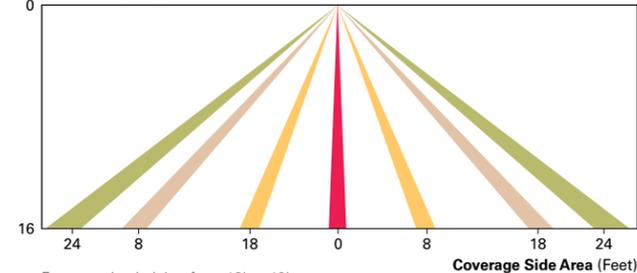
Dimming Occupancy Sensor (DOS)

For mounting heights up to 20'

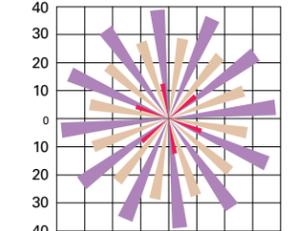
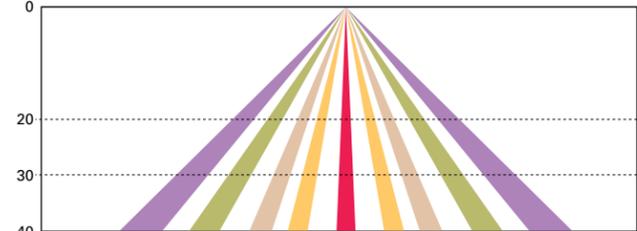


LumaWatt (DIMRF-LW and DIMRF-LN)

For mounting heights from 8' to 16'



For mounting heights from 16' to 40'



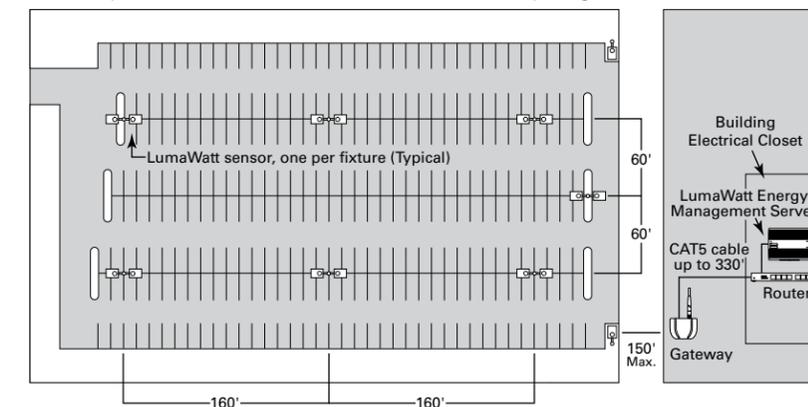
Scheduled Dimming and Occupancy Detection



For outdoor 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 reduce maximum lighting levels outside business hours. Egress and security lighting is available on occupancy detection.

Sides of Drive Fixture Location

Fixture Spacing = 160' x 120' on center
20 fixtures per 60' wide drive lane; 40 fixtures total for 420' x 120' parking deck



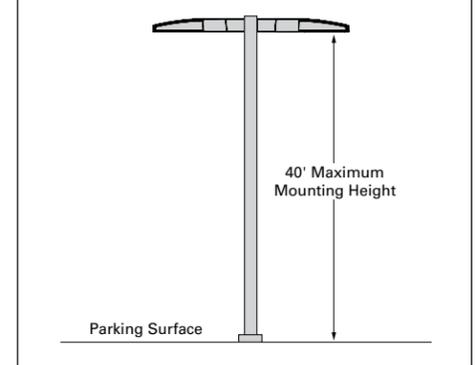
Energy Savings Calculations

Configuration	Daily Hours of Operation	Control Event	Annual Load (kWh)
14 Sensor Integrated luminaires 35' on Mounting Height, Centered at 120' x 160'			
Bill-of-Material (BOM)			
(1) RF-EM1, (1) RF-ROUT1, (1) RF-GW1 (14) GLEON-AE10-LED-E1-T2-BZ-DIMRF-LN (515W)	11	100% On	28,948
Control Schedule			
7:30 PM-11:30 AM	4	100% On	10,526
11:30 PM-6:30 AM	7	40% On, On Occupancy 70%	7,268
Total Controlled Load	11	2 Events	17,895
Energy Saving			38%

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

Illuminance	Minimum Horizontal Illuminance ¹	Uniformity Ratio Max. / Min.	Minimum Vertical Illuminance ²
Basic	2.0 / 0.2	20:1	1.0 / 0.1
Basic Enhanced Security	5.0 / 0.5	15:1	2.5 / 0.25
Security	10.0 / 1.0	15:1	5.8-8.0 / 0.5-0.5
High Security	30.0-60.0 / 3.0-6.0	4:1	12-60 / 1.2-6.0

NOTES:
1 Measured on parking surface without shadowing from any object
2 For facial recognition measured at 5' above the parking surface at the point of lowest horizontal illuminance



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



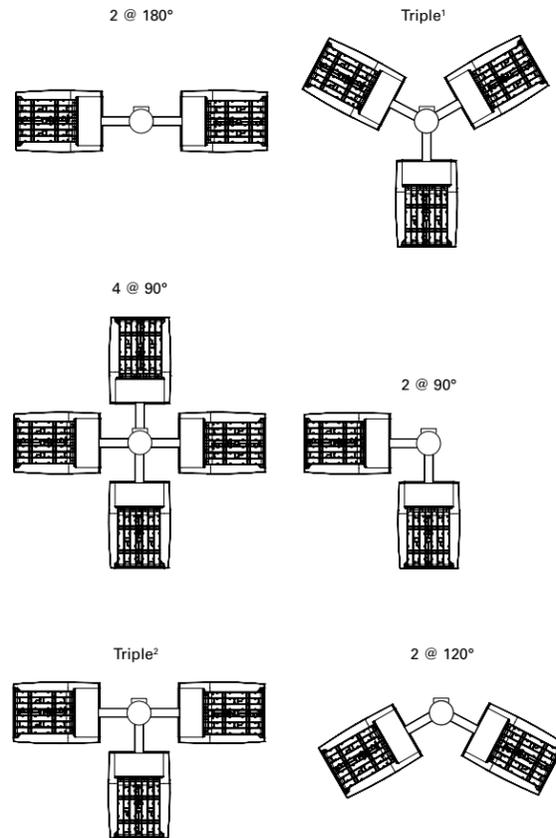
9 - 10 Light Squares

Pole Mounting Configurations

The standard Galleon LED 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	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°.

Ordering Information

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

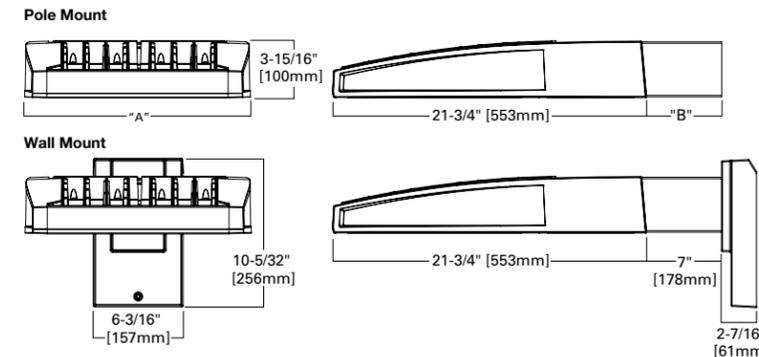
Product Family	Light Engine	Number of Light Squares ¹	Lamp Type	Voltage	Distribution	Color	Mounting	
GLEON=Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ² 480=480V ²	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Square 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 ³ MA=Mast Arm Adapter ⁴ WM=Wall Mount

Options (Add as Suffix)		
2L=Two Circuits ^{5,6} 7030=70 CRI 3000K ⁷ 7060=70 CRI 6000K ⁷ 530=Drive Current Factory Set to 530mA ⁸ 700=Drive Current Factory Set to 700mA ⁸ P=Button Type Photocontrol (120, 208, 240 or 277V) R=NEMA Twistlock Photocontrol Receptacle HA=50°C High Ambient ⁹	MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{9,10,11,12} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{9,10,11,12} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{11,12,13,14} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{10,11,14} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{10,11,14} DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ¹³ DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ¹³	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 HSS=Factory Installed House Side Shield ¹⁵

Accessories (Order Separately)		
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	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 ¹⁶ 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 LS/HSS=Field Installed House Side Shield ^{15,17}

NOTES: 1 Standard 4000K CCT and minimum 70 CRI. 2 LumaWatt Wireless Sensors not currently available for 347V or 480V applications. 3 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 4 Factory installed. 5 Only available in 5-10 Light Squares. 6 Not available with LumaWatt wireless sensors. 7 Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website. 8 1 Amp standard. Use dedicated IES files when performing layouts. These files are published on the Galleon luminaire product page on the website. 9 Must specify dimming driver. Consult factory for more information. 10 120V or 277V 60Hz and 230V 50Hz only. Replace E1 with specific voltage. Consult factory for availability in 347V and 480V. 11 The FSIR-100 accessory is required to adjust parameters. 12 Not available with HA option. 13 LumaWatt wireless sensors are factory installed only requiring network components RF-EM1, RF-GW1 and RF-ROUT1 in appropriate quantities. See www.cooperlighting.com for LumaWatt application information. 14 Sensor mounted externally. Available in 2, 3, 4, or 6 Light Square configurations. Replace "X" with number of Light Squares in low output mode. For ON/OFF operation, replace "X" with "0". Maximum two Light Squares in low output mode. Not available with dimming driver. No terminal block with bi-level operation. 15 Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected. 16 This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your Cooper Lighting Solutions representative for additional details. 17 One required for each Light Square.

Dimensions



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

Additional Information

Compliances	Technical Data (Electronic LED Driver)	Approximate Weight	EPA (Effective Projected Area - Square Feet)
UL and cUL Wet Location Listed IP66 Light Squares 3G Vibration Rated ARRA Compliant ISO 9001	+40°C (104°F) Ambient Temperature Rating -40°C (-40°F) Ambient Temperature Rating Optional 50°F (HA) Ambient Temperature Rating >0.9 Power Factor <20% Total Harmonic Distortion 120V-277V/50 and 60 Hz 347V/60 Hz, 480V/60 Hz	1-4 Light Squares 33 lbs. (15.0 kgs.) 5-6 Light Squares 44 lbs. (20.0 kgs.) 7-8 Light Squares 54 lbs. (24.5 kgs.) 9-10 Light Squares 63 lbs. (28.6 kgs.)	1-4 Light Squares 0.96 5-6 Light Squares 1.00 7-8 Light Squares 1.07 9-10 Light Squares 1.12

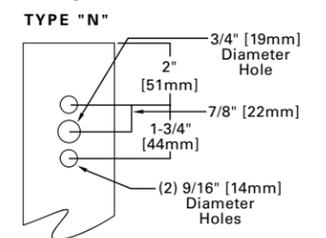
NOTE: Specifications and dimensions subject to change without notice.

Dimensional Data

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)

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



Lighting Brands

Ametrix
AtLite
Corelite
Ephesus
Fail-Safe
Halo
Halo Commercial
Invue
io
Iris
Lumark
Lumière
McGraw-Edison
Metalux
MWS
Neo-Ray
Portfolio
RSA
Shaper
Streetworks
Sure-Lites

Controls Brands

Greengate
Fifth Light

Connected Lighting Systems

HALO Home
WaveLinx

IoT Platforms

Trellix



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