

City of Madison

Proposed Demolition, Conditional Use and Certified Survey Map

Location 302 South Gammon Road

Applicant

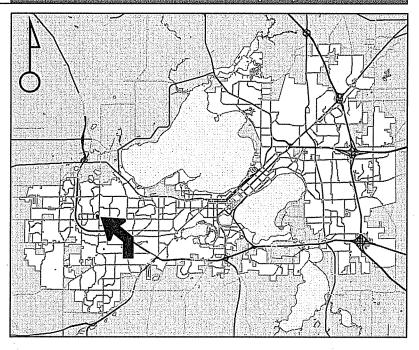
John Livesy – Livesy Company / Melissa Huggins – Urban Assets

Existing Use
Office Building

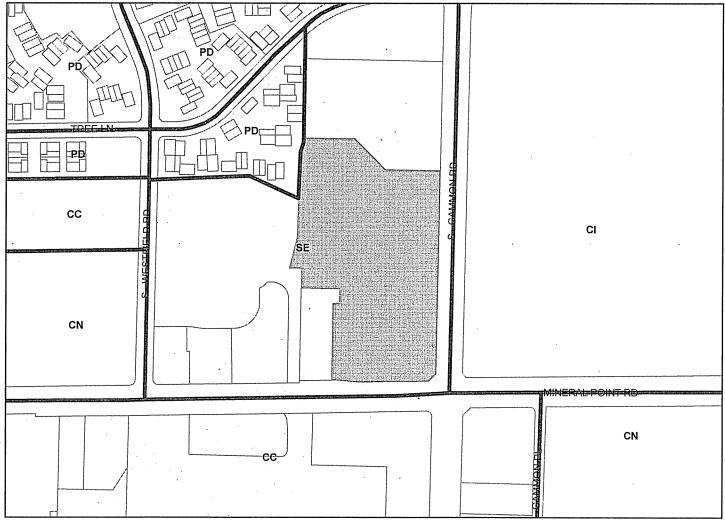
Proposed Use

Demolish office building and construct first phase office and general retail complex, and revised CSM to create four-lot planned multi-use site.

Public Hearing Date Plan Commission 02 October 2017 Common Council 17 October 2017



For Questions Contact: Tim Parks at: 261-9632 or tparks@cityofmadison.com or City Planning at 266-4635

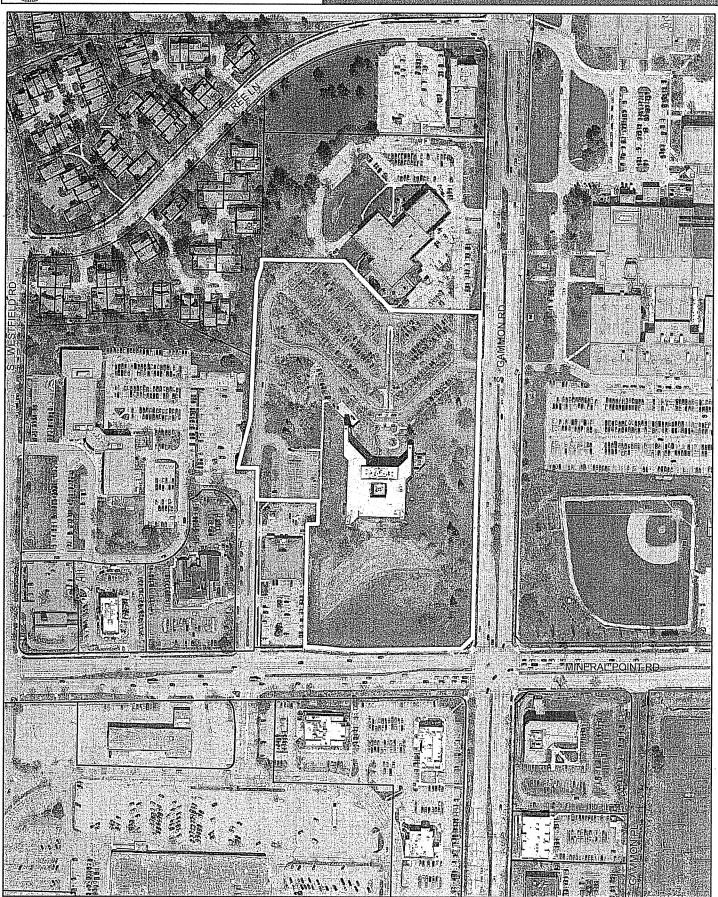


Scale: 1" = 400'

City of Madison, Planning Division: PPE: Date: 26 Sept 2017



City of Madison



Date of Aerial Photography: Spring 2016

City of Madison **Planning Division** 126 S. Hamilton St. P.O. Box 2985 Madison, WI 53701-2985 (608) 266-4635



All Land Use Applications must be filed with the Zoning Office at the above address.

This completed form is required for all applications for Plan Commission review except subdivisions or land divisions, which should be filed using the Subdivision Application found on the City's web site.

Paid # 2000	Receipt # 0 338 05-000
Date received	8/16/17
Received by	
Parcel #	0708-234-1006-
Aldermanic district	9-Stidmon
Zoning district	SE
Special requirements	28A
Review required by	
□ UDC	□ PC
☐ Common Council	□ Other
Reviewed By	

1. Pro	ject Information				
Ad	dress:	302 South Gammo	n Road		
Titl	Title: West Place - Phase O				
2. Thi	s is an application f	or (check all that ap	oly)		
	Zoning Map Amer	ndment (rezoning) fro	ım		_to
	Major Amendmen	it to an Approved Pla	nned Deve	elopment-General De	evelopment Plan (PD-GDP) Zoning
	Major Amendmen	it to an Approved Pla	nned Deve	elopment-Specific Im	plementation Plan (PD-SIP)
	Review of Alteration	on to Planned Develo	pment (PC	O) (by Plan Commiss	ion)
\square	Conditional Use or	Major Alteration to	an Approv	ed Conditional Use	
\boxtimes	Demolition Permit				
	Other requests			'	
	olicant, Agent and F olicant name	Property Owner Info John Livesey	सङ्ग्रेपर्यक्षां वाद्यान्तः 	Company	The Livesey Company
Stre	eet address	2248 Deming W	ay	City/State/Zip _	Middleton, WI 93962
Tele	ephone	833.2929	Email _		jklivesey@liveseyco.com
Pro	ject contact person	Melissa Huggins		Company	Urban Assets
Stre	eet address	807 E. Johnson	Street	City/State/Zip _	Madison, WI 53703
Tele	ephone	819.6966		Emailme	lissa@urbanassetsconsulting.com
Pro	perty owner (if not	applicant)	John Live	esey	·
Stre	et address	2248 Deming Way		City/State/Zip _	Middleton, WI 53562
Tele	phone	833.2929		Email	jklivesey@liveseyco.com
:\Ptcom	MON\PC APPLICATION MATE	RIALS - FEBRUARY 2017		[1]	12-13

12-13

4.	Pre	oject Description					
	Pro	·	• •	all proposed uses of the s		dings, one hea	adquarters
		Control of the Contro		Pharmacy building of			
	 Sch	**************************************	· · · · · · · · · · · · · · · · · · ·	Planned completion			. 2019
=		quired Submittal Ma		•			
J,		•		detailed submittal requ	ireme	nts	
		Filing fee	☑ Pre-application	·			tion Checklist (LND-C)
		_	☑ Vicinity map	nothication		iupplemental Re	, , ,
		Land Use Application				lectronic Submit	
		Letter of intent	•	ng conditions site plan	LXI	ectronic Submit	llai"
	M	Legal description	🛚 Development p	ians			
	or fo	Tash drive, or submitted v I applicant name. Electro	via email to pcapplications(nic submittals via file hosti	@cityofmadison.com. The er	nail mu .com) d	st include the pro are not allowed. A	ed should be compiled on a CD ject address, project name, pplicants who are unable to
	Follows	lowing the pre-applica pmitted to the UDC Sec	ition meeting, a complet cretary. An electronic sul	application meeting with e UDC Application form a omittal, as noted above, is to udcapplications@cityd	nd all o requi	other submittal red. Electronic s	
6.	Ap	plicant Declarations					
	X		uss the proposed devel	o preparation of this ap opment and review pro			
		Planning staff	Tim Parks			Date	6.22.17
		Zoning staff	Matt Tucker & Jenny	Kirchgatter		Date	6.16.17
	X	Demolition Listserv					
	X	Public subsidy is be	ing requested (indicate	in letter of intent)			
	Ø	nearby neighborho List the alderperson	od and business associa , neighborhood associa	ode requires that the apations in writing no lateration(s), business associa Community Trail Condominiun	than tion(s	30 days prior t , AND the date	o FILING this request.
		Hills Community Assoc.	Walnut Grove Homeowners A	Assoc. Parkwood Village Home	owners	Assoc. Parkwood	West Condominium Assoc.
		requirement or wait notification is require	ve the pre-application r	ng & Community & Ecor notification requirement ion materials. A copy of toppication materials.	altoge	ether. Evidence	of the pre-application
Th	e ap	oplicant attests that t	his form is accurately o	completed and all requi	red m	aterials are sul	omitted:
Vai	ne (of applicant	Ooug Hursh	Relati	onship	to property	Architect
۸.,,	·h ~ -	izing signature of pro	aparty owner	7/ K		Date	07/28/2017

[2]



2248 Deming Way, Suite 200 Middleton, WI 53562 (608) 833-2929, (608) 824-9020 (Facsimile)

Wednesday, August 16, 2017

City of Madison Planning Division
Department of Planning & Community & Economic Development
126 South Hamilton Street
Madison, WI 53703

Attention: Tim Parks; Kevin Firchow

Re: West Place - 7050 Mineral Point Road & 302 South Gammon Road

Dear Members of the Plan Commission:

Please accept this Letter of Intent, Application and attachments as our formal request for approval to redevelop and improve the above listed properties under the current zoning, Suburban Employment (SE).

Project Team

Owner:

John K. Livesey

Livesey Company 2248 Deming Way

Middleton, Wisconsin 53562

(608) 833-2929

jklivesey@liveseyco.com

Architect:

Doug Hursh

Potter Lawson, Inc.

749 University Avenue, Suite 300

Madison, Wisconsin 53705

(608) 274-2741

Dough@potterlawson.com

Civil Engineer:

Bruce Hollar

D'Onofrio Kottke and Associates, Inc.

7350 Westward Way

Madison, Wisconsin 53717

bhollar@donofrio.cc

Landscape Architect:

Ken Saiki

Ken Saiki Design, Inc. 303 South Paterson Madison, WI 53703 (608) 251-3600 KSaiki@ksd-la.com

Contractor:

Jason Koziar

Ideal Builders, Inc. 1406 Emil Street Madison, WI 53703 (608) 271-8111

Jasonkoziar@idealbuildersinc.com

Existing Conditions

The site, located on the intersection of Mineral Point and Gammon Roads, is 14.2 acres and includes the former Rural Insurance Building (formerly occupied by Madison Area Technical College and Famous Footwear) and the Noodles & Company building. The site is zoned Suburban Employment (SE). West Towne Mall is located across Mineral Point Road to the south. Memorial High School is located across Gammon Road to the East. The Livesey Company owns an additional 8.8 acres to the north that includes Paul Mitchell School, KJ's Curry Bowl, Orthodontic Specialists, A Breed Apart Animal Hospital, Madison Metropolitan School District Offices, La Petite Academy, and Midwest Dental. This property will remain as is for the foreseeable future.

Staff and Neighborhood Input

The Development team first met formally with city staff on June 9th 2017 and has continued to consult with them regularly either at in-person meetings or via email or phone.

The Livesey Company engaged Urban Assets to coordinate and facilitate communications and meetings with Alder Skidmore, Alder Clear, city staff, and the neighborhood. A full neighborhood meeting was held on July 27th. Meeting notes are available upon request.

Project Overview

The goal of the project is to create a corporate headquarters for Nativus Health Solutions LLC, a full service pharmacy benefit management company. The project will include a mix of offices, retail, and Lumicera Health Solutions, a specialty pharmacy that serves the needs of health plans throughout the country. Lumicera will include a call center.

At full buildout, the site will comprise of a total of 325,200 SF in eight buildings and 1,054 parking stalls located in a three-story parking garage and surface parking. The existing Noodles & Company building includes an additional 60 stalls.

Building Square Feet		Use
Α	80,000	Office
В	30,000	Office/Call Center

С	5,000	Retail
D	6,000	Retail
E	60,000	Office
F	60,000	Office
G	24,000	Office
Н	60,000	Office

Primary access for the project will occur at the existing curb cut on Gammon Road. This intersection will be signalized in the future when necessary. A private road will extend through the site to the west, connecting to the street that runs between the Noodles & Company building and the UW Health Clinic. The road will curve in order to create a buffer for around Lumicera, which required is by Navitus due to the nature the business.

The project site is served by Madison Metro, on both Mineral Point and Gammon roads. The bus stop most proximal will be improved as part of the development. In addition to Madison Metro, the project site is located along the route recommended by the MPO for a future Bus Rapid Transit (BRT) system.

The project includes numerous outdoor spaces throughout. The most prominent space is located at the corner of Mineral Point and Gammon roads between the retail spaces. This area will be designed to provide outdoor seating for two to three restaurants. The developer's goal is to have a variety of quality, local restaurants from a coffee shop to fine dining.

Full project build out is anticipated to occur over the next ten to fifteen years. Structured parking will be phased in over time as required to meet parking demand, providing a total of 938 stalls.

Phase One

Phase One of the project includes buildings A, B, C, and D for a total of 110,000 SF of office and 11,000 SF of retail. Phase One of the project will be surface parked and will include 468 stalls. A total of 74 bike parking stalls will be spread throughout the site to meet the needs of Navitus employees, visitors, as well as restaurant employees and customers.

Building A will be five stories high. Due to the required floor to floor heights of 15 feet, the building will be taller than 68 feet, the height limit under SE. Building B will be two stories. A loading area is included behind the building to accommodate delivery trucks (box trucks) for Lumicera. Buildings C and D will be one story but will have high floor to ceiling heights so as to present as two stories.

A signalized intersection is not required for Phase One. The private road will be truncated in order to provide Lumicera with the required buffer.

Relevant City of Madison Planning Documents

The City of Madison Comprehensive Plan recommends employment for this site. The project is being developed under the current zoning, Suburban Employment (SE).

Project Schedule - Phase One

Phase One of the project is scheduled to begin a 12 to 14 month construction period in the January, 2018 with occupancy to occur in March, 2019.

Sustainability

The most sustainable aspect of the project is the redevelopment of a low-density employment infill site into a higher density major employment center. Transit access to the site is excellent and will increase when BRT is implemented.

Buildings will be built to high energy efficiency standards, including insulation, HVAC, and LED lighting. The development team will consult with Focus on Energy to ensure the project capitalizes on any other available technologies. As the project develops over time, the development team will investigate the feasibility of geothermal and photovoltaic.

The storm water management requirements for this development are significant. An integrated approach utilizing a variety of best storm water management practices is necessary to meet the quantitative and qualitative requirements. In addition, West Place elects to display storm water management measures to heighten awareness of sustainable practices. These site and landscape features are both functional and aesthetic enhancements for the development. The plant palette will feature species native to Wisconsin.

Lot Coverage

Full Build Out Lot Coverage:

- Impervious (Lot Coverage) = 75.3%
- Pervious = 24.7%

Phase One Lot Coverage:

- Impervious (Lot Coverage) = 63.3%
- Pervious = 36.7%

Hours of Operation

Approximately 7 AM - 12 PM

- Office approximately 7 AM 7PM
- Retail/Restaurant approximately 7 AM 12 PM

Value of the Land

7050 Mineral Point Road: \$968,000 302 South Gammon Road: \$5,610,000

Total: \$6,578,000

Estimated Project Cost for Phase One

\$28 Million

Number of Construction Jobs Created in Phase One

Approximately 110

Number of Full Time Equivalent Jobs Created in Phase One

Approximately 230 to 275

Public Subsidy Requested for Phase One

\$6.2 million

We look forward to working with the City and neighborhoods to develop a corporate campus for Navitus Health Solutions. We strongly urge staff and the Plan Commission to review this project with a broader perspective that takes into account the design, economic feasibility, and, most importantly, the overall benefit this project will bring to the West Side of Madison.

Regards,

John K. Livesey

Owner, Livesey Company

QTY	TYPE	DESCRIPTION	LAMP SOURCE	MANUFACTURER & SERIES	OR LUMINAIRE SCHEDULE MODEL NUMBER	WATTAGE	DIMMING TECHNOLOG
1	C1	SURFACE MOUNT EXTERIOR CANOPY AREA LIGHT. FLUSH LENS.	LED 4000K 12,400 LUMENS	CREE	CPY250-A-DM-F-B-UL-WH-DIM-40K	96	0-10V
11	D1	6" DIAMETER OPEN DOWNLIGHT WITH MATTE HAZE REFLECTOR, WHITE TRIM.	LED 3500K 1030 LUMENS	CREE	S-DL-6-15L-35/ S-DL6T-W-SS-C	15W	0-10V
3	D2	6" DIAMETER OPEN DOWNLIGHT WITH MATTE HAZE REFLECTOR, WHITE TRIM.	LED 3500K 1774 LUMENS	CREE	S-DL-6-24L-35/ S-DL6T-W-SS-C	23W	0-10V
5	EW1	TRAPEZOIDAL EXTERIOR WALL SCONCE, TYPE III DISTRIBUTION. FINISH TO BE DETERMINED.	LED 3000K 2468 LUMENS	MCGRAW-EDISON IMPACT	IST-E01-LED-E1-BL3-XX-7030	25W	NON-DIM
1	EW2	TRAPEZOIDAL EXTERIOR WALL SCONCE, TYPE IV DISTRIBUTION. FINISH TO BE DETERMINED.	LED 3000K 4772 LUMENS	MCGRAW-EDISON IMPACT	IST-E02-LED-E1-BL4-XX-7030	47W	NON-DIM
1	P1A	EXTERIOR AREA LIGHT, TYPE V DISTRIBUTION. PROVIDE WITH 23' ROUND TAPERED STEEL POLE. TO BE MOUNTED ON 2.5' RAISED BASE. FINISH TO BE DETERMINED.	LED 3000K 11,355 LUMENS	MCGRAW-EDISON GALLEON	GLEON-AF-02-LED-E1-5WQ-XX-7030	113W	0-10V
6	P1B	SIMILAR TO P1A, HIGHER LUMEN PACKAGE.	LED 3000K 16,944 LUMENS	MCGRAW-EDISON GALLEON	GLEON-AF-03-LED-E1-5WQ-XX-7030	166W	0-10V
5	P1C	SIMILAR TO P1A, HIGHER LUMEN PACKAGE.	LED 3000K 22,388 LUMENS	MCGRAW-EDISON GALLEON	GLEON-AF-04-LED-E1-5WQ-XX-7030	225W	0-10V
1	P2	EXTERIOR AREA LIGHT, TYPE II DISTRIBUTION. PROVIDE WITH 23' ROUND TAPERED STEEL POLE. TO BE MOUNTED ON 2.5' RAISED BASE. FINISH TO BE DETERMINED.	LED 3000K 20,822 LUMENS	MCGRAW-EDISON GALLEON	GLEON-AF-04-LED-E1-SL2-XX-7030	225	0-10V
1		EXTERIOR AREA LIGHT, TYPE III DISTRIBUTION. PROVIDE WITH 23' ROUND TAPERED STEEL POLE. TO BE MOUNTED ON 2.5' RAISED BASE. FINISH TO BE DETERMINED.	LED 3000K 26,337 LUMENS	MCGRAW-EDISON GALLEON	GLEON-AF-05-LED-E1-SL3-XX-7030	279	0-10V
13			LED 3000K 15,286 LUMENS	MCGRAW-EDISON GALLEON	GLEON-AF-03-LED-E1-SL4-XX-7030	166	0-10V
2	PSA		LED 2700K 6475 LUMENS	STERNBERG MILLENIA	PT-SV2-60L-27K-T3-MDL07-PEC-XXX/ SSS14F400/ ML900-4S-XXX	142	0-10V
3	PSB	SQUARE STEEL COORDINATING POLE		STERNBERG MILLENIA	PT-SV2-60L-27K-T3-MDL07-PEC-XXX/ SSS16F400/ ML900-45-XXX	142	0-10V
4	P6 :	1	2700K	STERNBERG MILLENIA	PT-SV2-60L-27K-T5-MDL07-PEC-XXX/ SSS14F400/ ML900-4S-XXX	142	0-10V
X 38' X 54'			LED 3000K	TIVOLI	LIGHT SPHERE CLEAR	0.5 W/FT	NON-DIM

ä

CPY Series

CPY250™ LED Canopy/Soffit Luminaire

Product Description

The CPY250™ LED Canopy/Soffit Luminaire has an extremely thin profile constructed of rugged cast aluminum. It can be surface mounted easily from below the canopy deck and can be pendant mounted. Direct imaging of the LEDs is eliminated with a highly efficient patterned flat or 0.91" (23mm) drop glass

Applications: Petroleum canopies, CNG fueling stations, low-medium bay general lighting, soffits

Performance Summary

Made in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 20,784

Efficacy: Up to 143 LPW

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K) Standard

Limited Warranty[†]: 10 years on luminaire/10 years on Colorfast DeltaGuard[®] finish

IP66 Rated (Direct Mount only)

Class I, Division 2 Hazardous Location for select models

*See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed

Direct Mount Luminaires

Canopy Upgrade Kits (18 ga. steel)

XA-BXCCMW - for use with Jet-Philips, 21.60" (549mm) square

XA-BXCCNW – for use with Elsco Franciscan, 22.06" [560mm] square XA-BXCCPW – for use with LSI Dakota or Masters, 22.50" (572mm) square

XA-BXCCQW - for use with Whiteway Riviera or Rig-A-Lite, 20.60" (523mm)

XA-BXCCRW - for use with Fisco Merrit, 18.06" (459mm) square

XA-BXCCSW - for use with LSI Richmond or Whiteway Civic, 23.00" [584mm] L x 13.00" (330mm) W

Direct Mount Junction Box/Stem Kit

XA-BXCCJB0X - 6.0" [152mm] H x 3/4" [19mm] NPT Stem

- Watertight

- Rated for feed through 8 (4 in, 4 out) #12 AWC conductors

Direct Mount Beauty Plates

XA-BXCCBPW - 26.17" (665mm) Beauty Plate Only (18 ga, steel)

XA-BXCCBPB12W - 26.17" (665mm) Beauty Plate [18 ga. steel) w/12" (305mm) Backer Plate (16 ga. steel)

- For use in canopies where deck opening is larger than what is required for mounting the CPY250 luminaire. Maximum deck opening 10.75" x 15" [183mm x 375mm]

XA-BXCCBPB16W - 26.17" (665mm) Beauty Plate (18 ga. steel) w/16" (406mm) Backer Plate [16 ga. steel]

For use in canopies where deck opening is larger than what is required for mounting the CPY250 luminaire, Maximum deck opening 12" x 15"

(305mm x 375mm) Must specify color Ordering Information Example: CPY250-A-DM-D-A-UL-SV CPY250 Input Power Color Product Version Mounting Optic Voltage Options Designator Options DIM 0-10V Dimming - Available with B, D, & E Input Power CPY250 DМ UL RK NSF NSF 2 Certification 0.91" (23mm) 82W - Luminaires include NSF certification Black Direct Universal PD Drop Lens 120-277V ΒZ Designators only - Available with the DM mount only Pendant 96W UH Bronze - Control by others Flat Lens - Refer to Dimming spec sheet for - Not available with the HZ, ML or PML Universal SV 347-480V details options 43W Silver Can't exceed wattage of specified PML Programmable Multi-Level - Available with B, D, & E Input Power - Available with WH A, B, D, & E Input Power Designator 140W White Input Power Class I, Div. 2 Hazardous Location Designators only Available with UL voltage only Designators only Certification 145W Not available with DIM, ML, NSF or Refer to PML spec sheet for details PML options 40K 4000K Color Temperature Multi-Level - Minimum 70 CRI Available with B, D, & E Input Power - Color temperature per luminaire Designators only Available with UL voltage only

Pendant Mount Luminaires

XA-PS12KIT* - 5" [127mm] pendant XA-PS18KIT* - 11" [279mm] pendant

XA-PS22KIT* - 15" (381mm) pendant - Includes two conduit fittings and

3/4-14 NPT pipe threaded on two

- For successful implementation of the

programmable multi-level option, a

minimum of one hand-held remote

Pendant Mount Kits

Hand-Held Remote

XA-SENSREM

ends

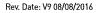












- Refer to ML spec sheet for details

T (800) 473-1234 F (800) 890-7507

2.0

11.0"

[279mm]

(50mm) Flat Glass Lens

3/4" (19mm) NPT

15.0"

(382mm)

Conduit Entry

DM Mount

Flat Lens

Drop Lens

0.91"

(23mm) Drop Lens

Canopy Cutout

Mounts with (4)

Weight

Supplied Self-Sealing

Sheet Metal Screws

12.5 lbs. (5.7kg)

Gasket to Seal up to 4.25" (108mm)

(183mm)

Product Specifications

CONSTRUCTION & MATERIALS

- · Slim, low profile design
- · Easy mounting and servicing from below the deck
- Luminaire housing is constructed of rugged cast aluminum with integral heat sink specifically designed for LED
- Flat lens is 0.125" tempered Solite® glass
- · Drop lens is 0.157" molded borosilicate glass
- Direct mount is suitable for use in single or double skin canopies with a minimum 4.0" (102mm) wide panels and a minimum 22 gauge, 0.030" (0.7mm) canopy thickness
- Direct mount luminaire mounts directly to the canopy deck with the drilling of a single 2" to 4" (51mm to 102mm) round hole, is secured in place with self-sealing screws that provide a weathertight seal and includes 3/4" (19mm) conduit entry for direct wire feed
- Standard pendant mount includes a mounting bracket and a J-Box for customer wiring and is intended to be mounted by 3/4 IP pendant (by others)
- Hazardous location pendant mount has a threaded hub which accepts 3/4" NPT conduit (by others) and secures with a 1/4"-20 set screw
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer
 with an ultra-durable powder topcoat, providing excellent resistance to
 corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and
 white are available
- Weight: 12.5 lbs. (5.7kg)

ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347-480V (A, B, D and E Input Power Designators only), 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- · Integral 6kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used
- 10V Source Current: 0.15mA
- Operating Temperature Range: Applications Requiring Class I, Division 2 Hazardous Location Ratings: -40°C +25°C; A Input Power Designator: -40°C +40°C (direct mount to plywood), -40°C +45°C (direct mount to sheet metal/suspended); B & E Input Power Designators: -40°C +35°C (plywood), -40°C +40°C (sheet metal/suspended); C Input Power Designator: -40°C +45°C (plywood), -40°C +50°C (sheet metal/suspended); D Input Power Designators: -40°C +35°C (sheet metal/suspended only)

WARNING: Exceeding maximum operating temperature may result in thermal foldback

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations when ordered with DM mount
- Suitable for damp locations when ordered with PD mount
- · Suitable for wet locations when ordered with PD mount and HZ option
- Enclosure rated IP66 per IEC 60529 when ordered with DM mount
- · Consult factory for CE Certified products
- 6kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- DLC and DLC Premium qualified versions available. Please refer to www.designlights.org/QPL for most current information
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- · Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- Class I, Division 2 Hazardous Location rated when ordered with the HZ option. Not available with DIM, ML, NSF or PML options. Consult factory for additional details
- NSF Certified when ordered with DM mount. Not available with HZ, ML or PML options. Refer to http://info.nsf.org/Certified/Food/ for additional details

Electrical D	ata*							
	_		Total Current (A)					
Input Power Designator	System Watts 120-277V	System Watts 347-480V	120V	208V	240V	277V	347V	480V
A	82	84	0.69	0.40	0.35	0.32	0.24	0.18
В	96	96	0.82	0.47	0.40	0.35	0.28	0.20
С	43	N/A	0.35	0.21	0.19	0.17	N/A	N/A
D	140	145	1.24	0.71	0.62	0.54	0.44	0.29
E	145	145	1.22	0.70	0.61	0.53	0.42	0.30

^{*} Electrical data at 25°C (77°F). Actual waltage may differ by +/- 10% when operating between 120-480V +/- 10%

5-107-101-000-00-		T	T	1	1	7
Ambient	Input Power Designator	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Projected ² LMF	100K hr Projected LMF
	A&C	1.05	1.00	0.93	0.87	0.81
5°C (41°F)	D	1.05	0.98	0.90	0.83	0.76
	B&E	1.04	1.00	0.97	0.95	0.933
10°C (50°F)	A&C	1.04	0.99	0.92	0.86	0.80
	D	1.04	0.98	0.89	0.82	0.75
	B&E	1.03	0.99	0.96	0.94	0.923
	A & C	1.02	0.97	0.91	0.84	0.79
15°C (59°F)	D	1.02	0.96	0.88	0.80	0.74
	B&E	1.02	0.98	0.95	0.93	0.913
	A&C	1.01	0.96	0.90	0.84	0.78
20°C (68°F)	D	1.01	0.95	0.87	0.80	0.73
	B & E	1.01	0.97	0.95	0.93	0.913
	A & C	1.00	0.95	0.89	0.83	0.77
25°C [77°F]	D	1.00	0.94	0.86	0.79	0.72
	B & E	1.00	0.96	0.94	0.91	0.893
	A & C	0.99	0.94	0.88	0.82	0.76
30°C 86°F)	D	0.99	0.93	0.85	0.78	0.72
·	B&E	0.99	0.95	0.92	0.90	0.883

¹Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing on sheet metal

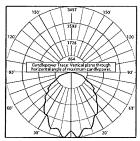
In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing [[DUT] i.e. the packaged LED chip]

²In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing [{DUT} i.e. the packaged LED chip]

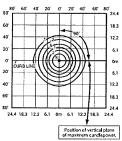
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: lighting.cree.com/Lighting/Products/Outdoor/Canopy/CPY-Series

DROP LENS



CESTL Test Report #: 2013-0111 CPY250-A-**-D-A-UL Initial Delivered Lumens: 8,356



CPY250-A-**-D-A-UL Mounting Height: 15' (4.6m) Initial Delivered Lumens: 8,000 Initial FC at grade

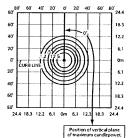
Drop Lens [Distribution			
	4000K		5700K	
Input Power Designator	Initial Delivered Lumens	BUG Ratings" Per TM-15-11	Initial Delivered Lumens*	BUG Ratings" Per TM-15-11
Α	7,600	B3 U2 G1	8,000	B3 U2 G1
В	12,400	B3 U2 G1	13,000	B3 U2 G1
С	4,400	B2 U2 G1	4,620	B2 U2 G1
D	16,403	B4 U3 G2	17,059	B4 U3 G2
E	20,411	B4 U2 G2	20,784	B4 U2 G2

^{*} Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

FLAT LENS



ITL Test Report #: 76866 CPY250-A-**-F-A-UL Initial Delivered Lumens: 8,821

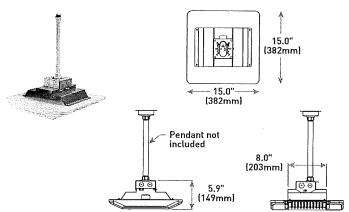


CPY250-A-**-D-A-UL Mounting Height: 15' (4.6m) Initial Delivered Lumens: 8,000 Initial FC at grade

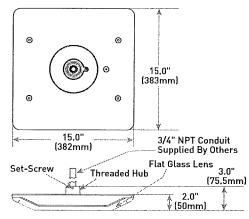
Flat Lens D	Flat Lens Distribution						
	4000K		5700K				
Input Power Designator	Initial Delivered Lumens*	BUG Ratings" Per TM-15-11	Initial Delivered Lumens*	BUG Ratings'' Per TM-15-11			
Α	7,600	B3 U0 G1	8,000	B3 U0 G1			
В	12,400	B3 U0 G1	13,000	B3 U0 G1			
С	4,400	B2 U0 G1	4,620	B2 U0 G1			
D	16,798	B4 U0 G1	17,470	B4 U0 G1			
E	20,411	B4 U0 G1	20,784	B4 U0 G1			

^{*} Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered

PD Mount



PD Mount w/HZ Option



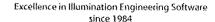
© 2016 Cree, Inc. and/or one of its subsidiaries. All rights reserved. For informational purposes only. Content is subject to change. Patent www.cree.com/patents. Cree® and Colorfast DeltaGuard® are registered trademarks, and CPY250™ and the Cree logo are trademarks of Oree, Inc. The UL logo is a registered trademark of UL LLC. The DLC QPL logo is a registered trademark, and the DLC QPL. Permium logo is a trademark of Northeast Energy Efficiency Partnerships, Inc. The NSF logo is a registered trademark of NSF International.



^{**} For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

^{**} For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf







sample barner copylight 2013 Lighting Analysis, Inc.

Photometric Report (Type C)

Filename: C1_CPY250-A-xx-F-B-UL-xxxxx-40K_CONFIGURED.ies
[TEST] CONFIGURED FROM PL08165-001C
[TESTLAB] Cree Inc
[ISSUEDATE] 4/26/2016
[MANUFAC] Cree Inc
[LUMCAT] CPY250-A-xx-F-B-UL-xxxxx-40K CONFIGURED FROM
CPY250-A-xx-F-B-UL-xxxxx
[LUMINAIRE] CONFIGURED FROM Cree CPY250 Canopy /
Soffit Luminaire w-Flat Lens, B Input Power Designator

Maximum Candela = 4489.58638250828 at 45 H 2.5 V

Classification:

, 5700K

Road Classification: Type VS, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 129

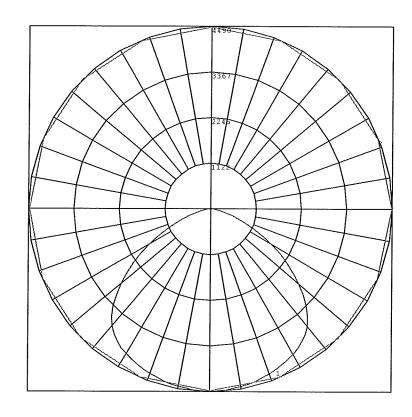
Indoor Classification: Direct

BUG Rating: B3-U0-G1

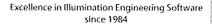
Polar Candela Curves:

Vertical Plane Through: 1) 45 - 225 Horizontal

Horizontal Cone Through:
2) 2.5 Vertical







Lighting Analysts

sample barvier copyright 2013 Lighting Analysis, Inc.

www.adi32.com

Photometric Report (Type C)

Filename: C1 CPY250-A-xx-F-B-UL-xxxxx-40K CONFIGURED.ies [TEST] CONFIGURED FROM PL08165-001C

[TESTLAB] Cree Inc [ISSUEDATE] 4/26/2016 [MANUFAC] Cree Inc [LUMCAT] CPY250-A-xx-F-B-UL-xxxxx-40K CONFIGURED FROM CPY250-A-xx-F-B-UL-xxxxx [LUMINAIRE] CONFIGURED FROM Cree CPY250 Canopy / Soffit Luminaire w-Flat Lens, B Input Power Designator , 5700K

Maximum Candela = 4489.58638250828 at 45 H 2.5 V

Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)

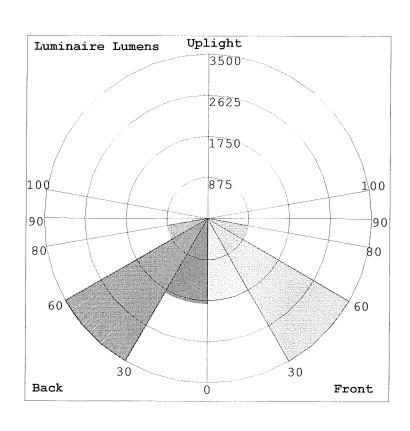
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 129

Indoor Classification: Direct

BUG Rating: B3-U0-G1

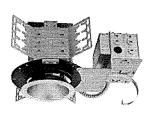
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1805.4	N.A.	14.6
FM (30-60)	3499.8	N.A.	28.2
FH (60-80)	843.4	N.A.	6.8
FVH (80-90)	51.4	N.A.	0.4
BL (0-30)	1805.4	N.A.	14.6
BM (30-60)	3499.8	N.A.	28.2
BH (60-80)	843.4	N.A.	6.8
BVH (80-90)	51.4	N.A.	0.4
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	12400.0	N.A.	100.0
BUG Rating	B3-U0-G1		

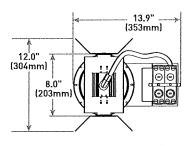


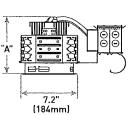


6" ROUND DOWNLIGHT

958-6,315 INITIAL DELIVERED LUMENS







INITIAL DELIVERED LUMENS	DIM "A"
11L, 15L, 24L	6.8" (172mm)
34L	6.8" (173mm)
42L	7.3" (186mm)
50L, 63L	9.7" (247mm)
75L	9.8" (248mm)
84L	10.5" (268mm)

PRODUCT DESCRIPTION

The Essentia® by Cree downlights deliver beautiful 90+CRI light, with efficacy up to 83 lumens per watt. Available in a variety of lumen packages, color temperatures and beam angles, each downlight is rated at 50,000 hours and features a premium quality self-flanged reflector finish supported by a range of color trim options. Essentia® by Cree downlights are engineered to provide outstanding value and performance. It's your essential, comprehensive downlight portfolio for new construction and renovation applications.

Applications: New construction and renovation applications with non-insulated ceilings or where insulation can be kept 3" [76mm] from housing

PRODUCT SPECIFICATIONS

OVERVIEW

- Initial Delivered Lumens: 958-6,315 lumens
- Input Power: 12-86 Watts
- CCT: 2700K, 3000K, 3500K, 4000K
- · Beam Angles: Narrow, Medium and Wide
- Emergency Performance: 90 Minutes minimum
- CRI: 90

- Controls: 0/1-10V dimming down to 1% and Triac dimming down to 10%
- Limited Warranty[†]: 5 years on luminaire
- Limited Warranty Emergency Back Up (EB) Battery: 1 Year Battery Back Up. Test regularly in accordance with local codes
- ENERGY STAR® certified

ORDERING INFORMATION

Fully assembled luminaire is composed of two components that must be ordered separately: Example: Housing: S-DL6-11L-27K + Trim: S-DL6T-N-SSC

HOUSING (TRIM MI	UST BE ORI	DERED	SEPARATELY)					
S-DL6								
PRODUCT	SIZE	INITI	AL DELIVERED LUMENS*	сст		VOLTAGE	CONTROLS	OPTIONS
S-DL Essentia® by Cree Downlight	6 6" (152mm)	11L 15L 24L 34L 42L 50L 63L 75L	12W, 958 lumens 15W, 1,125 lumens 23W, 1,786 lumens 34W, 2,678 lumens 42W, 3,311 lumens 49W, 3,887 lumens 57W, 4,715 lumens 72W, 5,701 lumens	27K 30K 35K 40K	2700K 3000K 3500K 4000K	Blank Universal 120-277 Volt - Available on 11L-42L only. Must specify voltage for 50L-84L 120V 120V for 50L-84L 277V	Blank 0/1-10V and Triac Dimming	EB Emergend Backup

TRIM (HOUS	SING MU	JST BE ORD	ERED SI	EPARATELY)					
S-DL6T PRODUCT	BEAM		FINISH		REFLI	ECTOR COLOR			FLANGE COLOR
S-DL6T	N M W	Narrow Medium Wide		Semi-Specular Painted (For White Color)	C CG W** B	Clear Champagne Gold White Black	BR PE WH	Bronze Pewter Wheat	Blank Matching Flange WF*** White Flange

†See http://tighting.cree.com/warranty for warranty terms

* Initial delivered lumens at 4000K. Actual production yield may vary between -10 and +10% of initial delivered lumens

*** Required when "W" Reflector is ordered, example: S-DL6T-N-PW-WF; available with all reflectors







6" ROUND DOWNLIGHT

958-6,315 INITIAL DELIVERED LUMENS

PRODUCT SPECIFICATIONS

CONSTRUCTION & MATERIALS

- · Semi-specular clear reflector/flange finish, standard
- · Multiple reflector/flange colors available
- Light engine, optics and driver accessible from below ceiling
- Heavy-gauge formed steel housing
- · Mounting brackets are adjustable from above or below the ceiling
- Ten 1/2" (13mm) and two 3/4" (19mm) knockouts with pry-outs
- Eight knockouts with Romex® cable clamp
- Max. Ceiling Thickness: 1-3/8" (35mm)

ELECTRICAL SYSTEM

- Power Factor: > 0.9
- Total Harmonic Distortion: < 20% at full load
- Input Voltage: 120-277V, 50/60Hz
- Operating Temperature Range: 0°C +35°C (32°F +95°F);
 0°C +30°C (32°F +86°F) w/EB option

CONTROLS

- · Triac dimming down to 10%
- 0/1-10V dimming down to 1% with 0-10V DC control protocol
- 10V Source Current: 1.00mA

- 0-10V dimming control must be Class 2 and either have a neutral connection or be suitable for use with LED luminaires
- Reference

https://www.creelink.com/exLink.asp?320393100Y68H19I46337100 for recommended dimming controls

REGULATORY & VOLUNTARY QUALIFICATIONS

- · cULus Listed
- · Suitable for damp locations
- Suitable for thru-wiring 8#12AWG-90°C
- Thermally protected Type NON-IC in accordance with Article 410 of the NEC and UL 1598
- · Designed for indoor use
- 75L and 84L versions require marked spacing: 48" (1219mm) x 24" (610mm) x 3" (76mm), 48" (1219mm) luminaire to luminaire, 24" (610mm) luminaire to side wall, 3" (76mm) above luminaire
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- RoHS compliant. Consult factory for additional details
- ENERGY STAR® certified. Please refer to https://www.energystar.gov/productfinder/product/certified-lightfixtures/results for most current information
- UL924 (EB option). Maximum mounting height: 11L 36.1' (11.0m);
 15L 41.2' (12.5m); 24L 37.2' (11.3m); 34L 40.7' (12.4m);
 42L 40.2' (12.2m); 50L 31.6' (9.6m); 63L 34.5' (10.5m);
 75L 32.4' (9.8m); 84L 34.8' (10.6m)

ACCESSORIES

C-CHANNEL HANGER BARS

RBH30C

 Pair of 30" [762mm] rigid 3/4" x 1/2" (19mm x 13mm) c-channel bars

RBH24C-1

 Pair of 24" (610mm) x 1-1/2" (38mm) x 1/2" (13mm) standard c-channel bars

T-BAR CLIPS

RARC7

- Set of four
- For use with RBH24C-1 hanger bars

WIRELESS 0-10V DIMMING/SWITCHING INTERFACE W/CREE SMARTCAST® TECHNOLOGY

CIE-10V-CWC-SNSR

- For use with luminaires with 10V controls when integral SmartCast isn't available
- Maximum four luminaires per SmartCast 10V Interface
- Refer to http://www2.cree.com/smartcast-landing-page for additional details

CREE SMARTCAST® TECHNOLOGY CONFIGURATION TOOL CCT-CWC-1

- One required per project when CIF-10V-CWC-SNSR is selected
- Refer to http://www2.cree.com/smartcast-landing-page for additional details

ELECTRICAL DATA*

Initial	System	Total Current (A)					
Delivered Lumens	Watts 120-277V	120V	208V	240V	277V		
11L	12	0.10	0.06	0.05	0.04		
15L	15	0.12	0.07	0.06	0.05		
24L	23	0.19	0.11	0.10	0.08		
34L	34	0.28	0.16	0.14	0.12		
42L	42	0.35	0.20	0.18	0.15		
50L	49	0.40	0.23	0.20	0.17		
63L	57	0.47	0.27	0.23	0.20		
75L	72	0.60	0.35	0.30	0.26		
84L	86	0.70	0.40	0.35	0.30		

* Electrical data at 25° C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V +/- 10%

RECOMMENDED ESSENTIA BY CREE DOWNLIGHT LUMEN MAINTENANCE FACTORS (LMF)¹

Ambient	Initial LMF		50K hr Calculated ³ LMF	75K hr Calculated ³ LMF	100K hr Calculated³ LMF
25°C	1.00	0.94	0.89	0.84	0.80

Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and

³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip)



In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

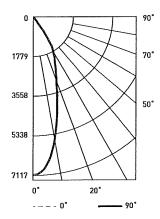
6" ROUND DOWNLIGHT

958-6,315 INITIAL DELIVERED LUMENS

PHOTOMETRY

S-DL6-42L-40K + S-DL6T-M-SSC BASED ON CESTL REPORT TEST #: PL08067-001

Luminaire photometry has been conducted in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



Initial De	livered Lumens: 3,469)
Efficacy:	81.0 LPW	

S/M: 0.56

Beam Angle: 34.7°

photometric data

RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	114	111	109	107
2	109	105	101	98
3	104	99	94	90
4	100	93	88	84
5	95	88	83	79
6	91	83	78	74
7	87	79	74	70
8	84	75	70	66
9	80	72	67	63
10	77	69	63	60

Effective Floor Cavity Reflectance: 20%

Lifective I tool	Cavity	nenectance.	2070

Reference http://tighting.cree.com/products/indoor/track/essentia-by-cree-downlight for detailed

Av	erage l	.uminance	Table (cd/r	n²)
		Horizontal	Angle	
		0°	45°	90°
ngle	45°	7,000	7,000	7,000
Vertical Angle	55°	1,562	1,562	1,562
Verti	65°	591	591	591
	75°	537	537	537
	85°	503	503	503

Zonal	Zonal Lumen Summary						
Zone	Lumens	% Lamp	Luminaire				
0-30	2,802	N/A	80.8%				
0-40	3,364	N/A	97.0%				
0-60	3,460	N/A	99.8%				
0-90	3,469	N/A	100%				
0-180	3,469	N/A	100%				

Cone of Light						
Distance from Workplane	Footcandles	Beam Diameter				
6' (1.8m)	203	3.4' (1.0m)				
8' (2.4m)	114	4.5' (1.4m)				
10' (3.0m)	78	5.3' (1.6m)				
12' (3.7m)	51	6.7' (2.0m)				
14' (4.3m)	37	7.9' (2.4m)				

APPLICATION REFERENCE

Open Spac	Open Space							
Spacing	Lumens	Wattage	LPW	w/ft²	Average FC			
4 x 4			79	2.58	211			
6 x 6	2 211	42		1.20	99			
8 x 8	3,311	42		0.65	53			
10 x 10				0.43	35			

 $^{10^{\}circ}$ Ceiling, 80/50/20 Reflectances, 2.5' Workplane, Open Room. LLF: 1.0 Initial. Open Space: 50° x 40°

BEAM ANGLES

The time of the contract of th	Beam Angle			
Initial Delivered Lumens	N	М	W	
11L-24L	15°	25°	45°	
34L-84L	25°	40°	55°	

Corridor					
Spacing	Lumens	Wattage	LPW	w/ft²	Average FC
4' on Center				1.79	111
6' on Center]	1.0	F0	1.22	75
8' on Center	3,311	42	79	0.86	53
10' on Center				0.72	44

10' Ceiling, 80/50/20 Reflectances, 2.5' Workplane, Corridor. LLF: 1.0 Initial. Open Space: 6' x 100

CCT MULTIPLIERS (90 CRI)

CCT			
2700K	3000K	3500K	4000K
0.87	0.93	0.93	1.00

© 2017 Cree, Inc. and/or one of its subsidiaries. All rights reserved. For informational purposes only. Content is subject to change. Cree®, SmartCast® and Essentia® are registered trademark trademark of Cree, Inc. The UL logo is a registered trademark of UL LLC. Romex® is a registered trademark of Southwire Company, LLC. ENERGY STAR® and the ENERGY STAR logo are registered trademarks of the United States Environmental Protection Agency.







sample barrier copyright 2013 Lighting Arvilysts, Inc.

Photometric Report (Type C)

Filename: D1 S-DL6-15L-27K w S-DL6T-W-SS-C PL08049-001A.IES [TEST] PL08049-001A [TESTLAB] Cree Inc. [ISSUEDATE] 4/5/2016 11:03:45 AM [MANUFAC] Cree Inc [LUMCAT] S-DL6-15L-27K w S-DL6T-W-SS-C [LUMINAIRE] 6-Inch Round Downlight, 15L Package, 2700K , Wide Distribution [LAMP] CXB1512

Maximum Candela = 1488.08 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 73

Indoor Classification: Direct

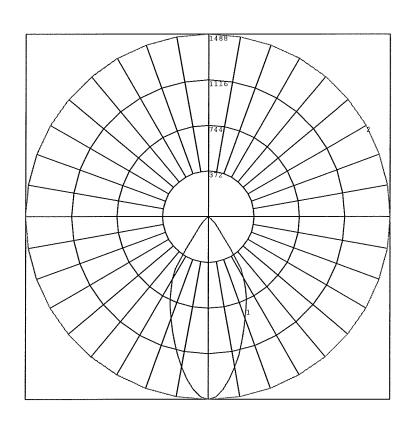
BUG Rating: B1-U0-G0

Polar Candela Curves:

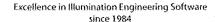
Vertical Plane Through: 1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 0 Vertical









sample barner copylight 2013 Lighting Analysis, Inc.

Photometric Report (Type C)

Filename: D1 S-DL6-15L-27K w S-DL6T-W-SS-C PL08049-001A.IES

[TEST] PL08049-001A [TESTLAB] Cree Inc.

[ISSUEDATE] 4/5/2016 11:03:45 AM

[MANUFAC] Cree Inc

[LUMCAT] S-DL6-15L-27K w S-DL6T-W-SS-C

[LUMINAIRE] 6-Inch Round Downlight, 15L Package, 2700K

, Wide Distribution

[LAMP] CXB1512

Maximum Candela = 1488.08 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

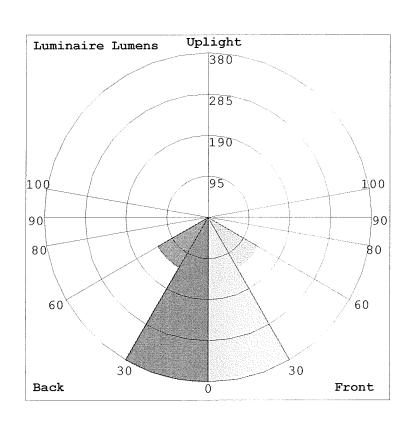
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 73

Indoor Classification: Direct

BUG Rating: B1-U0-G0

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	380.0	N.A.	36.9
FM (30-60)	133.4	N.A.	13.0
FH (60-80)	1.4	N.A.	0.1
FVH (80-90)	0.2	N.A.	0.0
BL $(0-30)$	380.0	N.A.	36.9
BM (30-60)	133.4	N.A.	13.0
BH (60-80)	1.4	N.A.	0.1
BVH (80-90)	0.2	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1030.0	N.A.	100.0
BUG Rating	B1-U0-G0		





www.agi32.com



sample barrier copyright 2013 Ughting Analysis, Inc.

Photometric Report (Type C)

Filename: D2 S-DL6-24L-27K w S-DL6T-W -SS-C PL08053-001A.IES

[TEST] $PL080\overline{5}3-001A$ [TESTLAB] Cree Inc.

[ISSUEDATE] 3/30/2016 4:57:20 PM

[MANUFAC] Cree Inc

[LUMCAT] S-DL6-24L-27K w S-DL6T-W -SS-C

[LUMINAIRE] 6-Inch Round Downlight, 24L Package, 2700K

, Wide Distribution

[LAMP] CXB1820

Maximum Candela = 2372.34 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 79

Indoor Classification: Direct

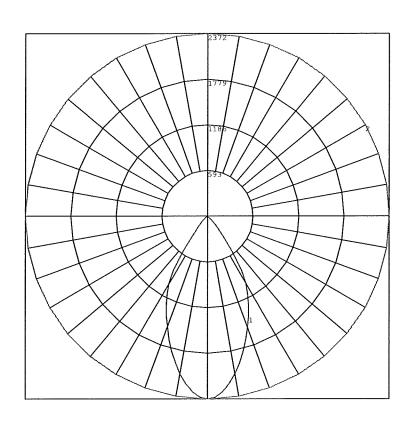
BUG Rating : B2-U0-G0

Polar Candela Curves:

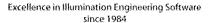
Vertical Plane Through: 1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 0 Vertical







Lighting Analysts Burrention engineering offerare

sample barrier copyright 2013 Lighting Analysis, Inc.

Photometric Report (Type C)

Filename: D2 S-DL6-24L-27K w S-DL6T-W -SS-C PL08053-001A.IES

[TEST] $PL080\overline{5}3-001A$ [TESTLAB] Cree Inc.

[ISSUEDATE] 3/30/2016 4:57:20 PM

[MANUFAC] Cree Inc

[LUMCAT] S-DL6-24L-27K w S-DL6T-W -SS-C

[LUMINAIRE] 6-Inch Round Downlight, 24L Package, 2700K

, Wide Distribution

[LAMP] CXB1820

Maximum Candela = 2372.34 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

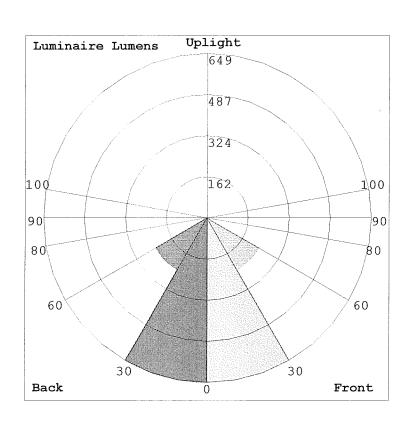
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 79

Indoor Classification: Direct

BUG Rating: B2-U0-G0

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	649.0	N.A.	36.6
FM (30-60)	235.4	N.A.	13.3
FH (60-80)	2.4	N.A.	0.1
FVH (80-90)	0.3	N.A.	0.0
BL $(0-30)$	649.0	N.A.	36.6
BM (30-60)	235.4	N.A.	13.3
BH (60-80)	2.4	N.A.	0.1
BVH (80-90)	0.3	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1774.2	N.A.	100.0
BUG Rating	B2-U0-G0		



DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightBAR™ technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Optics

Choice of six patented, highefficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common and differential - mode surge protection. LightBARs feature an IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting

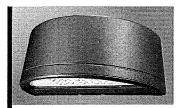
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

Finish

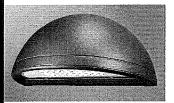
Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

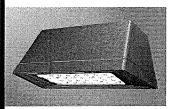
Warranty

Five-year warranty.



McGraw-Edison







ISC/ISS/IST/ISW IMPACT ELITE LED

1 - 2 LightBARs Solid State LED

WALL MOUNT LUMINAIRE

CERTIFICATION DATA

UL/cUL Listed LM79 / LM80 Compliant IP66 LightBARs ISO 9001

ENERGY DATA

>0.9 Power Factor

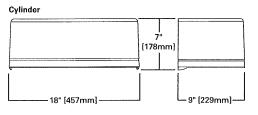
<20% Total Harmonic Distortion 120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz

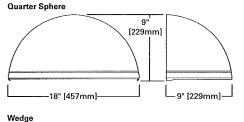
-40°C Minimum Temperature 40°C Ambient Temperature Rating

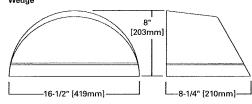
SHIPPING DATA Approximate Net Weight: 18 lbs. (8 kgs.)



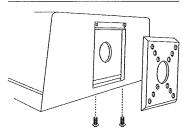
DIMENSIONS



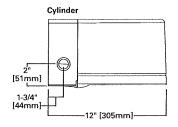


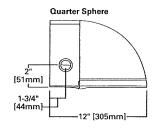


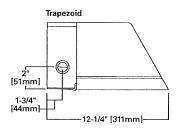
HOOK-N-LOCK MOUNTING

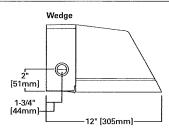










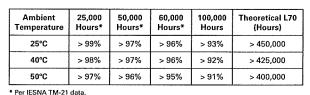


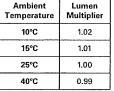
POWER AND LUMENS BY BAR COUNT

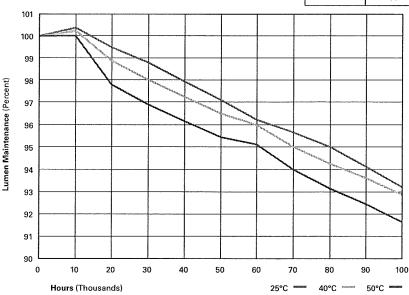
LUMEN MAINTENANCE

LUMEN MULTIPLIER

Number of LightRARs		E01	E02	F01	F02	
Numbero	lumber of LightBARs		ightBAR	7 LED L	ightBAR	
Drive Curr	ent	350)mA	1	1A	
Power (Watts)	120-277V	25W	47W	26W	50W	
Current	1201/		0.40	0.22	0.42	
(A)	277V	0.10	0.18	0.10	0.19	
Power (Watts)	347V or 480V	31W	52W	32W	55W	
Current 347V		0.11	0.16	0.11	0.17	
(A)	480V	0.16	0.16 0.18		0.18	
Optics						
BL2	Lumens	2,738	5,476	2,260	4,521	
BLZ	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	
BL3	Lumens	2,702	5,405	2,231	4,462	
BLS	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G1	
BL4	Lumens	2,613	5,225	2,157	4,313	
DL4	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G1	
GZW	Lumens	2,785	5,570	2,299	4,598	
GEAA	Bug Rating	B2-U0-G2	B3-U0-G3	B1-U0-G1	B2-U0-G2	
SLR/SLL	Lumens	2,435	4,869	2,010	4,020	
orn/orr	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2	







ORDERING INFORMATION

Sample Number: ISC-E02-LED-E1-BL3-GM

Product Family	Number of LightBARs 1,2	Lamp Type	Voltage	Distribution	Color 4
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge	E01=(1) 21 LED LightBAR E02=(2) 21 LED LightBARs F01=(1) 7 LED LightBAR F02=(2) 7 LED LightBARs	LED=Solid State Light Emitting Diodes	E1=Electronic (120-277V) 347=347V 480=480V ³	BL2=Type II w/Back Light Control BL3=Type III w/Back Light Control BL4=Type IV w/Back Light Control GZW=Wall Grazer Wide SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Options (Add as Suffix)				Accessories (Order Separately) 10	
2L=Two Circuits 5 7030=70 CRI / 3000K CCT 6 7050=70 CRI / 5000K CCT 6 7060=70 CRI / 5700K CCT 6 8030=80 CRI / 5700K CCT 6 P=Button Type Photocontrol (Available in 120 OSB=Occupancy Sensor with Back Box (Specify CWB-XX=Battery Pack with Back Box (Specify CWB-XX=Cold Weather Battery Pack with Back DIM=0-10V Dimming Drivers LCF=LightBAR Cover Plate Matches Housing ULG=Uplight Glow TR=Tamper Resistant Hardware	oify 120V or 277V) ⁷ 120V or 277V) ⁸ ck Box (Specify 120V or 277V)	, ,		MA1253=10kV Circuit Module Replace: MA1254-XX=Thruway Back Box - Impa MA1255-XX=Thruway Back Box - Impa MA1256-XX=Thruway Back Box - Impa MA1257-XX=Thruway Back Box - Impa	ict Elite Trapezoid ict Elite Cylinder ict Elite Quarter Sphere

NOTES:

- NOTES:

 1. Standard 4000K CCT and greater than 70 CRL LightBARs for downlight use only.

 2. 21 LED LightBAR powered by 350mA and 7 LED LightBAR powered by 1A.

 3. 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).

 4. Custom and RAL color matching available upon request. Consult your lighting representative at Eaton for more information.

 5. Low-level output varies by bar count. Consult factory. Not available with 347V or 480V. Available with two bars (E02 or F02) only.

- 6. Extended lead times apply.
- b. Extended lead times apply.

 A vailable with EQ2 or FQ2, only one bar on street side will be wired to sensor. Time delay factory setting 15-minutes. When ordered with PC option, both bars are connected to photocontrol as primary switching means.

 Standard sensor lens covers 8" mounting height, 360" coverage, maximum 48" diameter. Not available in all configurations or with BBB or CWB options.

 8. Specify 120V or 277V. LED standard integral battery pack is rated for minimum operating starting persons.

 9. Specify 120V or 277V. LED cold weather integral battery pack is rated for minimum operating temperature 34" F(-20"C). Operates one bar for 90-minutes. Not available in all configurations or with OSB option. Consult factory.





Lighting Analysts

www.agi32.com

sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: EW1 IST-E01-LED-E1-BL3-7030.ies

[TEST] P139659 REPORT IS SCALED FROM IESNA LM-79-08

TEST DATA (P33645)

[TESTLAB] INNOVATIONS CENTER-P3

[ISSUEDATE] 2/20/2015

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] IST-E01-LED-E1-BL3-7030

[LUMINAIRE] IMPACT ELITE LED LUMINAIRE (1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ BACK LIGHT CONTROL [LAMP] (21) 3000K CCT, 70 CRI LEDS

Maximum Candela = 2025.8 at 67 H 67 V

Classification:

Road Classification: Type III, Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 100

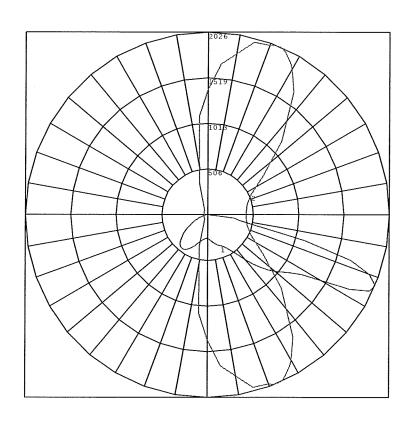
Indoor Classification: Direct

BUG Rating : B1-U0-G1

Polar Candela Curves:

Vertical Plane Through: 1) 67 - 247 Horizontal

Horizontal Cone Through:
2) 67 Vertical







sample barner copyright 2013 Lighting Archysts, Inc.

Photometric Report (Type C)

Filename: EW1 IST-E01-LED-E1-BL3-7030.ies

[TEST] $P13965\overline{9}$ REPORT IS SCALED FROM IESNA LM-79-08

TEST DATA (P33645)

[TESTLAB] INNOVATIONS CENTER-P3

[ISSUEDATE] 2/20/2015

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] IST-E01-LED-E1-BL3-7030

[LUMINAIRE] IMPACT ELITE LED LUMINAIRE (1) LIGHTBARS

WITH ACCULED OPTICS - TYPE 3 W/ BACK LIGHT CONTROL

[LAMP] (21) 3000K CCT, 70 CRI LEDs

Maximum Candela = 2025.8 at 67 H 67 V

Classification:

Road Classification: Type III, Short, N.A. (deprecated)

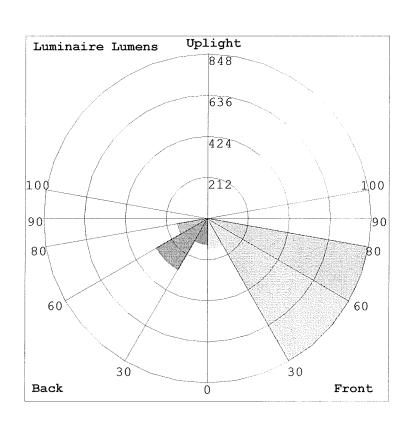
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 100

Indoor Classification: Direct

BUG Rating: B1-U0-G1

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	154.8	N.A.	6.3
FM (30-60)	848.3	N.A.	34.4
FH (60-80)	843.2	N.A.	34.2
FVH (80-90)	22.6	N.A.	0.9
BL (0-30)	132.6	N.A.	5.4
BM (30-60)	302.7	N.A.	12.3
BH (60-80)	156.8	N.A.	6.4
BVH (80-90)	7.2	N.A.	0.3
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	2468.2	N.A.	100.0
BUG Rating	B1-U0-G1		





www.agi32.cam

Lighting Analysts Function engineering software

sample banner copyright 2013 Lighting Analysis, Inc.

Photometric Report (Type C)

Filename: EW2 IST-E02-LED-E1-BL4-7030.ies

[TEST] P139809 REPORT IS SCALED FROM IESNA LM-79-08

TEST DATA (P33646)

[TESTLAB] INNOVATIONS CENTER-P3

[ISSUEDATE] 2/20/2015

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] IST-E02-LED-E1-BL4-7030

[LUMINAIRE] IMPACT ELITE LED LUMINAIRE (2) LIGHTBARS WITH ACCULED OPTICS - TYPE 4 W/ BACK LIGHT CONTROL

[LAMP] (42) 3000K CCT, 70 CRI LEDs

Maximum Candela = 4111 at 45 H 67.5 V

Classification:

Road Classification: Type III, Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 102

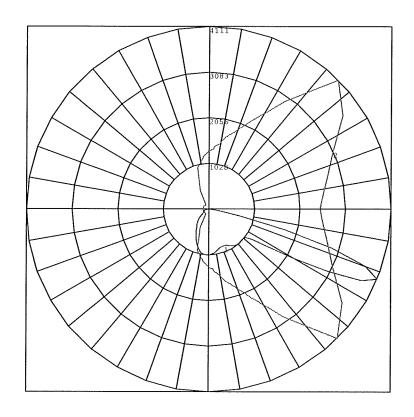
Indoor Classification: Direct

BUG Rating : B1-U0-G1

Polar Candela Curves:

Vertical Plane Through: 1) 45 - 225 Horizontal

Horizontal Cone Through: 2) 67.5 Vertical





Lighting Analysts Burnington engineering software

www.agl32.com

sample banner copyright 2013 Lighting Analysis, Inc.

Photometric Report (Type C)

Filename: EW2 IST-E02-LED-E1-BL4-7030.ies

[TEST] P139809 REPORT IS SCALED FROM IESNA LM-79-08

TEST DATA (P33646)

[TESTLAB] INNOVATIONS CENTER-P3

[ISSUEDATE] 2/20/2015

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] IST-E02-LED-E1-BL4-7030

[LUMINAIRE] IMPACT ELITE LED LUMINAIRE (2) LIGHTBARS

WITH ACCULED OPTICS - TYPE 4 W/ BACK LIGHT CONTROL

[LAMP] (42) 3000K CCT, 70 CRI LEDs

Maximum Candela = 4111 at 45 H 67.5 V

Classification:

Road Classification: Type III, Short, N.A. (deprecated)

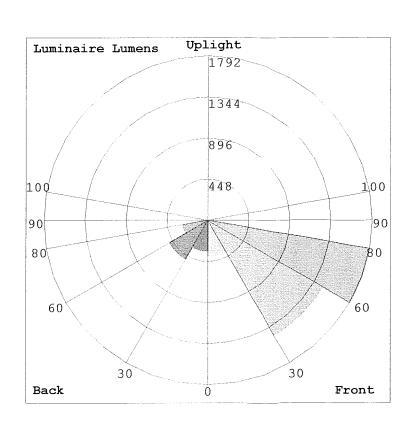
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 102

Indoor Classification: Direct

BUG Rating: B1-U0-G1

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	390.1	N.A.	8.2
FM (30-60)	1446.1	N.A.	30.3
FH (60-80)	1792.4	N.A.	37.6
FVH (80-90)	25.3	N.A.	0.5
BL $(0-30)$	335.2	N.A.	7.0
BM (30-60)	485.5	N.A.	10.2
BH (60-80)	280.2	N.A.	5.9
BVH (80-90)	17.4	N.A.	0.4
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	4772.2	N.A.	100.0
BUG Rating	B1-U0-G1		



McGraw-Edison

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.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, diecast 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 and rated. 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 3000K, 5000K and 6000K 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 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

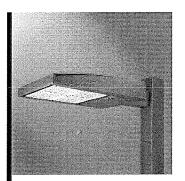
STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, 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 housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

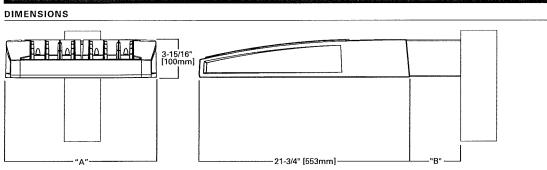
Five-year warranty.



GLEONGALLEON LED

1-10 Light Squares Solid State LED

AREA/SITE LUMINAIRE



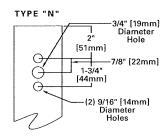
DIMENSION DATA

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.

E TON

DRILLING PATTERN





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)



				1			T		ſ	I	
Number o	of Light Squares	1	2	3	4	5	6	7	8	9	10
Nominal F	Power (Watts)	59	113	166	225	279	333	391	445	501	558
Input Curi	rent @ 120V (A)	0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.6	5.07
Input Curi	rent @ 208V (A)	0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Curi	rent @ 240V (A)	0.26	0.48	0.71	0.96	1.19	1.41	1.67	1.89	2.12	2.39
Input Curi	rent @ 277V (A)	0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Curi	rent @ 347V (A)	0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Curi	rent @ 480V (A)	0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics		f	1								
	4000K/5000K Lumens	6,116	11,951	17,833	23,563	29,195	34,937	41,317	46,814	52,221	57,817
T2	3000K Lumens	5,414	10,579	15,786	20,858	25,843	30,926	36,574	41,440	46,226	51,180
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,493	12,688	18,932	25,015	30,994	37,090	43,863	49,699	55,439	61,380
T2R	3000K Lumens	5,748	11,231	16,759	22,143	27,436	32,832	38,828	43,994	49,075	54,334
	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
	4000K/5000K Lumens	6,234	12,181	18,176	24,017	29,756	35,609	42,111	47,715	53,225	58,930
тз	3000K Lumens	5,518	10,783	16,089	21,260	26,340	31,521	37,277	42,237	47,115	52,165
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,372	12,453	18,580	24,550	30,418	36,400	43,048	48,776	54,409	60,239
T3R	3000K Lumens	5,640	11,023	16,447	21,732	26,926	32,221	38,106	43,177	48,163	53,324
1011	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	B4-U0-G5
	4000K/5000K Lumens	6,270	12,252	18,282	24,156	29,929	35,815	42,356	47,992	53,534	59,271
T4FT	3000K Lumens	5,550	10,845	16,183	21,383	26,493	31,703	37,494	42,483	47,388	52,467
1461		81-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	BUG Rating			18,045	23,844	29,543	35,352	41,809	47,372	52,843	58,506
	4000K/5000K Lumens	6,189	12,094	15,973	21,107	26,151	31,294	37,009	41,934	46,777	51,790
T4W	3000K Lumens	5,479	10,706					84-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5				57,717
	4000K/5000K Lumens	6,105	11,931	17,803	23,522	29,144	34,877	41,245	46,734	52,130	
SL2	3000K Lumens	5,404	10,561	15,759	20,822	25,798	30,873	36,510	41,369	46,145	51,091
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,233	12,180	18,174	24,013	29,753	35,604	42,106	47,708	53,218	58,921
SL3	3000K Lumens	5,517	10,782	16,088	21,256	26,337	31,517	37,272	42,231	47,109	52,157
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	5,922	11,572	17,268	22,816	28,269	33,829	40,006	45,330	50,566	55,984
SL4	3000K Lumens	5,242	10,244	15,286	20,197	25,024	29,945	35,413	40,126	44,761	49,557
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	6,429	12,563	18,746	24,768	30,688	36,723	43,429	49,208	54,891	60,775
5NQ	3000K Lumens	5,691	11,121	16,594	21,925	27,165	32,507	38,443	43,559	48,590	53,798
	BUG Rating	B2-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	B5-U0-G4
	4000K/5000K Lumens	6,547	12,794	19,090	25,224	31,253	37,400	44,228	50,114	55,902	61,893
5MQ	3000K Lumens	5,795	11,325	16,898	22,328	27,665	33,106	39,151	44,361	49,484	54,788
	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-G5	B5-U0-G5
	4000K/5000K Lumens	6,564	12,828	19,141	25,291	31,336	37,499	44,347	50,248	56,051	62,058
5WQ	3000K Lumens	5,810	11,355	16,944	22,388	27,739	33,194	39,256	44,480	49,616	54,934
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
•	4000K/5000K Lumens	5,478	10,703	15,970	21,102	26,145	31,286	37,001	41,924	46,765	51,777
SLL/SLR	3000K Lumens	4,849	9,474	14,137	18,679	23,144	27,694	32,753	37,111	41,396	45,833
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	6,371	12,449	18,576	24,544	30,411	36,392	43,037	48,764	54,396	60,225
RW	3000K Lumens	5,640	11,020	16,443	21,726	26,920	32,214	38,096	43,166	48,151	53,311
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	4000K/5000K Lumens	6,394	12,494	18,644	24,634	30,521	36,524	43,194	48,942	54,593	60,444
AFL	3000K Lumens	5,660	11,060	16,504	21,806	27,017	32,331	38,235	43,323	48,326	53,505
							t		i		

^{*} Nominal data for 70 CRI.



Product Family 1,2	Light Engine	Number of Light Squares ³	Lamp Туре	Voltage	Distribution	1	Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 5 10=10 5	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁶ 480=480V ^{6,7}	T4W=Type 5NQ=Type 5MQ=Type 5WQ=Type SL2=Type I SL3=Type I SL4=Type I SLL=90° Sp SLR=90° Sp RW=Rectan	I Roadway IV ForwardThrow IV Wide	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ^a 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 S	uffix)	•	•	,	, , , , , , , , , , , , , , , , , , , ,	Accessories (Order Separately)		
F=Single Fuse (120 FF=Double Fuse (2 2L=Two Circuits % DIM=External 0-10' P=Button Type Phe PER7=NEMA 7-PIN R=NEMA Twistlock AHD145=After Hou AHD245=After Hou AHD255=After Hou AHD255=After Hou AHD255=After Hou AHD355=After Hou AHD356 AHD360	Tactory Set to N. Factory Set to N. Factory Set to N. Factory Set to N. Factory Set to N. 7. 277 or 347V. Mr. 08, 240 or 480V. In 1970 or 1970	ominal 800mA ¹⁴ Nominal 1200mA ¹⁴ Nominal 1200mA ¹⁴ sust Specify Voltage Must Specify Must Specify Must Must Must Must Must Must Must Must	ye) ust Specify Volatage) Maximum 8' Mounting 9' - 20' Mounting Heigh 21' - 40' Mounting Heigh, 21' - 40' Mounting Height 70, 21, 25 Height 70, 22, 25	nt ^{20, 22} ht ^{20, 23} sight (Wide Rang) ^{20, 24, 25} t ^{20, 21} Vide Range) ^{20, 24}	Je) ^{20, 24}	OA/RA1027=NEMA Phot OA/RA1201=NEMA Phot OA/RA1013=Photocontro OA/RA1014=120V Photo- MA1252=10kV Surge Mo MA1036-XX=Single Tenc MA1037-XX=2@180° Ter MA1197-XX=3@120° Ter MA1188-XX=4@90° Tenc MA1191-XX=3@90° Tenc MA1191-XX=2@120° Ter MA1038-XX=2@180° Ter MA1038-XX=2@180° Ter MA1038-XX=2@180° Ter MA1192-XX=3@120° Ter MA1193-XX=2@90° Tenc MA1193-XX=2@90° Tenc MA1194-XX=2@90° Tenc MA1195-XX=3@90° Tenc MA1195-XX=3@10° Tenc GLEON-MT1=Field Instal GLEON-MT3=Field Instal	ocontrol - 347V old Shorting Cap control dule Replacement on Adapter for 2-3/8" O.D. on Adapter for 3-1/2" O.D. on Adapter for 3-1/2 O.D. on Adapter for 5-10 Lighted Mesh Top for 5-10 Lighted Mesh Top for 9-10 Lighter tarm Kit	Tenon D. Tenon Tenon Tenon Tenon Tenon D. Tenon Tenon D. Tenon Tenon D. Tenon Teson Tes

- 1. 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.

 2. DesignLights Consortium additional support information.

TH=Tool-less Door Hardware

HSS=Factory Installed House Side Shield 28 CE=CE Marking 29

LCF=Light Square Trim Plate Painted to Match Housing 27

- 2. DesignLights Consortium** Qualified. Heler to www.designlights.org Qualified Products List under Family Models for details.

 3. Standard 4000K CCT and minimum 70 CRI.

 4. Not compatible with extended quick mount arm (QMEA).

 5. Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).

 6. Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.

 7. 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).
- S. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.

 9. Factory installed.

 10. Maximum 8 light squares.
- 11. Maximum 6 light squares.
- 11. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.

 13. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.

 14. 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon luminaire product page on the website.

- 16. Not available with HA option.

 16. 2L is not available with HA option.

 16. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-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.

 17. Not available with LumaWatt wireless sensors.

 18. Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.

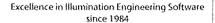
 19. 50°C Lumen maintenance data applies to 600mA, 800mA and 1A drive currents.

 20. The FSIR-100 configuration tool 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. 20. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your rigning representative at calculation mode in the mode in the consult your rigning representative at calculation mode in the mode in the consult your rigning representative at calculation mode in the consult your rigning representative at calculation in mode in the consult your rigning representative at calculation in mode in the consult your rigning representative at calculation in mode in the consultation i

- 30. One required for each Light Square







Lighting Analysts Burnington engineering software

sample basiner copyright 2013 Lighting Ansilysh, Inc.

www.aqi32.com

Photometric Report (Type C)

Filename: GLEON-AF-02-LED-E1-5WQ-7030.ies

[TEST] P192630 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24143)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-02-LED-E1-5WQ-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND

TYPE V WIDE OPTICS

Maximum Candela = 4547.1 at 45 H 72.5 V

Classification:

Road Classification: Type VS, Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 100

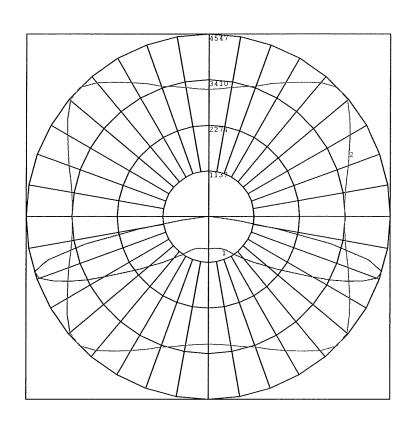
Indoor Classification: Direct

BUG Rating: B4-U0-G2

Polar Candela Curves:

Vertical Plane Through: 1) 45 - 225 Horizontal

Horizontal Cone Through:
2) 72.5 Vertical





www.agi32.com

Lighting Analysts

sample barrier copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: GLEON-AF-02-LED-E1-5WQ-7030.ies

[TEST] P192630 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24143)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-02-LED-E1-5WQ-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND

TYPE V WIDE OPTICS

Maximum Candela = 4547.1 at 45 H 72.5 V

Classification:

Road Classification: Type VS, Short, N.A. (deprecated)

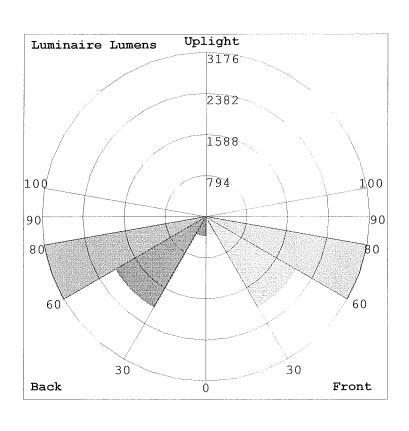
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 100

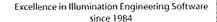
Indoor Classification: Direct

BUG Rating: B4-U0-G2

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	368.1	N.A.	3.2
FM (30-60)	2013.4	N.A.	17.7
FH (60-80)	3176.1	N.A.	28.0
FVH (80-90)	119.9	N.A.	1.1
BL (0-30)	368.1	N.A.	3.2
BM (30-60)	2013.4	N.A.	17.7
BH (60-80)	3176.1	N.A.	28.0
BVH (80-90)	119.9	N.A.	1.1
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	11355.0	N.A.	100.0
BUG Rating	B4-U0-G2		









sample barner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: P1 GLEON-AF-03-LED-E1-5WQ-7030.ies

[TEST] P192631 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24143)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-03-LED-E1-5WQ-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND

TYPE V WIDE OPTICS

Maximum Candela = 6785.2 at 45 H 72.5 V

Classification:

Road Classification: Type VS, Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 102

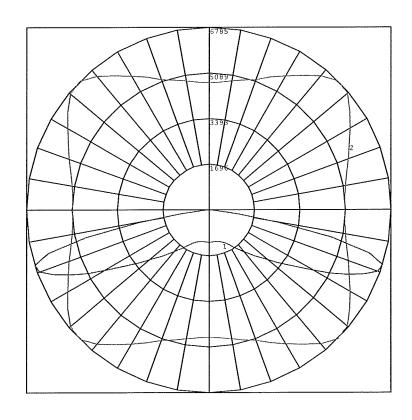
Indoor Classification: Direct

BUG Rating: B4-U0-G2

Polar Candela Curves:

Vertical Plane Through: 1) 45 - 225 Horizontal

Horizontal Cone Through: 2) 72.5 Vertical





www.agi32.cam

Lighting Analysts Burnrution engineering software

sample barner copyright 2013 Lighting Analysh, inc.

Photometric Report (Type C)

Filename: P1 GLEON-AF-03-LED-E1-5WQ-7030.ies

[TEST] P192631 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24143)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-03-LED-E1-5WQ-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND

TYPE V WIDE OPTICS

Maximum Candela = 6785.2 at 45 H 72.5 V

Classification:

Road Classification: Type VS, Short, N.A. (deprecated)

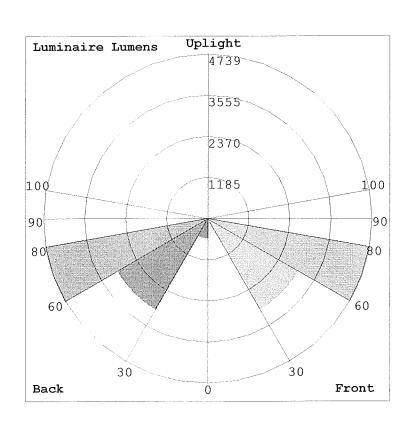
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 102

Indoor Classification: Direct

BUG Rating: B4-U0-G2

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	549.2	N.A.	3.2
FM (30-60)	3004.4	N.A.	17.7
FH (60-80)	4739.5	N.A.	28.0
FVH (80-90)	178.9	N.A.	1.1
BL (0-30)	549.2	N.A.	3.2
BM (30-60)	3004.4	N.A.	17.7
BH (60-80)	4739.5	N.A.	28.0
BVH (80-90)	178.9	N.A.	1.1
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	16944.0	N.A.	100.0
BUG Rating	B4-U0-G2		





Lighting Analysts

www.agi32.com

sample barrier copyright 2013 Lighting Anxiysh, Inc.

Photometric Report (Type C)

Filename: GLEON-AF-04-LED-E1-5WQ-7030.ies

[TEST] P192632 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24143)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-04-LED-E1-5WQ-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS

Maximum Candela = 8965.2 at 45 H 72.5 V

Classification:

Road Classification: Type VS, Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 100

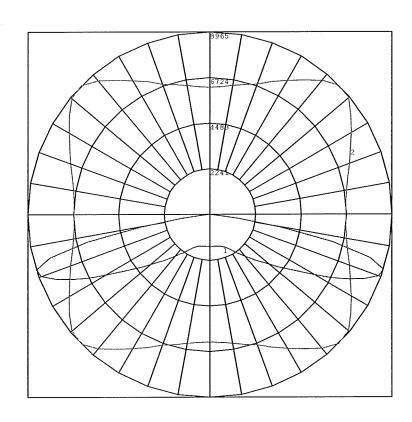
Indoor Classification: Direct

BUG Rating : B5-U0-G3

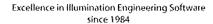
Polar Candela Curves:

Vertical Plane Through: 1) 45 - 225 Horizontal

Horizontal Cone Through:
2) 72.5 Vertical









sample barner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: GLEON-AF-04-LED-E1-5WQ-7030.ies

[TEST] P192632 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24143)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-04-LED-E1-5WQ-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (4) 70

CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND

TYPE V WIDE OPTICS

Maximum Candela = 8965.2 at 45 H 72.5 V

Classification:

Road Classification: Type VS, Short, N.A. (deprecated)

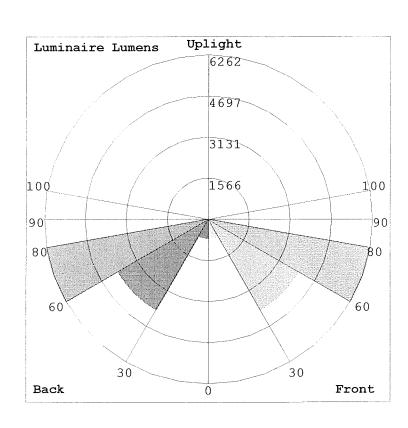
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 100

Indoor Classification: Direct

BUG Rating: B5-U0-G3

LCS Zone FL (0-30)	Lumens	%Lamp N.A.	%Lum 3.2
,	3969.6	N.A.	17.7
FM (30-60)			
FH (60-80)	6262.2	N.A.	28.0
FVH (80-90)	236.4	N.A.	1.1
BL $(0-30)$	725.7	N.A.	3.2
BM (30-60)	3969.6	N.A.	17.7
BH (60-80)	6262.2	N.A.	28.0
BVH (80-90)	236.4	N.A.	1.1
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	22387.8	N.A.	100.0
BUG Rating	B5-U0-G3		





Lighting Analysts

www.agi32.com

sample barner copyright 2013 Lighting Analysh, Inc.

Photometric Report (Type C)

Filename: P2 GLEON-AF-04-LED-E1-SL2-7030.ies

[TEST] P192832 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24286)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-04-LED-E1-SL2-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND

TYPE II SPILL LIGHT ELIMINATOR OPTICS

Maximum Candela = 26382.8 at 67 H 67.5 V

Classification:

Road Classification: Type II, Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 93

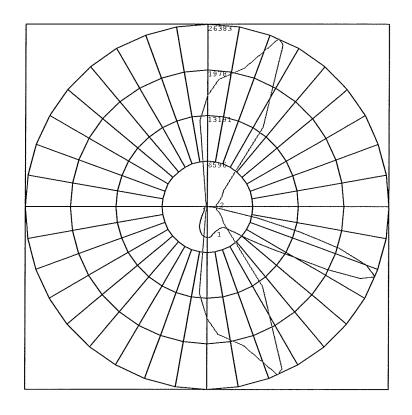
Indoor Classification: Direct

BUG Rating: B3-U0-G4

Polar Candela Curves:

Vertical Plane Through: 1) 67 - 247 Horizontal

Horizontal Cone Through:
2) 67.5 Vertical





www.agi32.com

Lighting Analysts

sample barner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: P2 GLEON-AF-04-LED-E1-SL2-7030.ies

[TEST] P192832 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24286)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-04-LED-E1-SL2-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND

TYPE II SPILL LIGHT ELIMINATOR OPTICS

Maximum Candela = 26382.8 at 67 H 67.5 V

Classification:

Road Classification: Type II, Short, N.A. (deprecated)

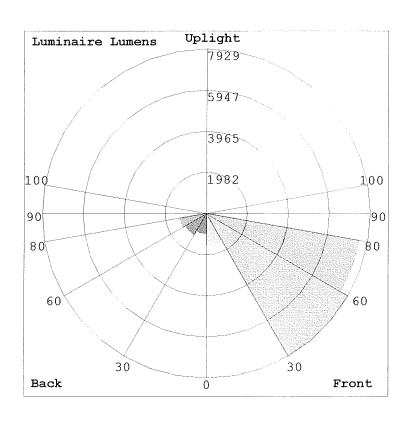
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 93

Indoor Classification: Direct

BUG Rating: B3-U0-G4

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1515.3	N.A.	7.3
FM (30-60)	7929.4	N.A.	38.1
FH (60-80)	7501.7	N.A.	36.0
FVH (80-90)	425.5	N.A.	2.0
BL (0-30)	956.2	N.A.	4.6
BM (30-60)	1159.3	N.A.	5.6
BH (60-80)	1276.0	N.A.	6.1
BVH (80-90)	58.4	N.A.	0.3
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	20821.8	N.A.	100.0
BUG Rating	B3-U0-G4		





www.agi32.com



sample barner copyright 2013 Lighting Analysis, Inc.

Photometric Report (Type C)

Filename: GLEON-AF-05-LED-E1-SL3-7030.ies

[TEST] P192913 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24288)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-05-LED-E1-SL3-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (5) 70

CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND

TYPE III SPILL LIGHT ELIMINATOR OPTICS

Maximum Candela = 28812.4 at 60 H 69 V

Classification:

Road Classification: Type III, Medium, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 94

Indoor Classification: Direct

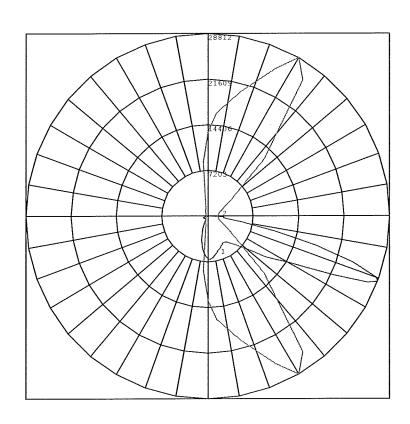
BUG Rating: B3-U0-G4

Polar Candela Curves:

Vertical Plane Through: 1) 60 - 240 Horizontal

Horizontal Cone Through:

2) 69 Vertical





Lighting Analysts Buninotion engineeing software www.gai32.com

sample banner copyright 2013 Lighting Analysis, Inc.

Photometric Report (Type C)

Filename: GLEON-AF-05-LED-E1-SL3-7030.ies

[TEST] P192913 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24288)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-05-LED-E1-SL3-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (5) 70

CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND

TYPE III SPILL LIGHT ELIMINATOR OPTICS

Maximum Candela = 28812.4 at 60 H 69 V

Classification:

Road Classification: Type III, Medium, N.A. (deprecated)

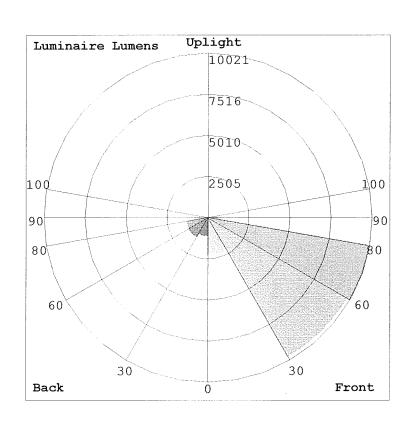
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 94

Indoor Classification: Direct

BUG Rating: B3-U0-G4

	~	o =	0 -
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	2223.8	N.A.	8.4
FM (30-60)	9748.4	N.A.	37.0
FH (60-80)	10020.7	N.A.	38.0
FVH (80-90)	597.1	N.A.	2.3
BL (0-30)	1093.1	N.A.	4.2
BM (30-60)	1316.4	N.A.	5.0
BH (60-80)	1273.8	N.A.	4.8
BVH (80-90)	63.6	N.A.	0.2
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	26336.9	N.A.	100.0
BUG Rating	B3-U0-G4		







sample banner copyright 2013 Lighting Arvalysh, loc.

Photometric Report (Type C)

Filename: GLEON-AF-03-LED-E1-SL4-7030.ies

[TEST] P192991 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24294)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-03-LED-E1-SL4-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (3) 70

CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND

TYPE IV SPILL LIGHT ELIMINATOR OPTICS

Maximum Candela = 12839.7 at 39 H 70 V

Classification:

Road Classification: Type IV, Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 92

Indoor Classification: Direct

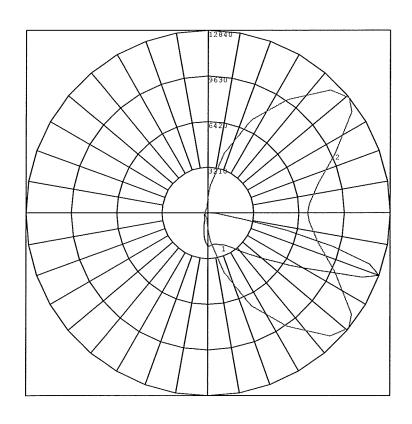
BUG Rating: B1-U0-G3

Polar Candela Curves:

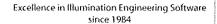
Vertical Plane Through: 1) 39 - 219 Horizontal

Horizontal Cone Through:

2) 70 Vertical







www.agi32.com

Lighting Analysts

sample barrier copyright 2013 Lighting Arralysts, Inc.

Photometric Report (Type C)

Filename: GLEON-AF-03-LED-E1-SL4-7030.ies

[TEST] P192991 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (P24294)

[TESTLAB] Innovations Center P2

[ISSUEDATE] 7/21/2016

[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER

LIGHTING)

[LUMCAT] GLEON-AF-03-LED-E1-SL4-7030

[LUMINAIRE] GALLEON AREA AND ROADWAY LUMINAIRE (3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND

TYPE IV SPILL LIGHT ELIMINATOR OPTICS

Maximum Candela = 12839.7 at 39 H 70 V

Classification:

Road Classification: Type IV, Short, N.A. (deprecated)

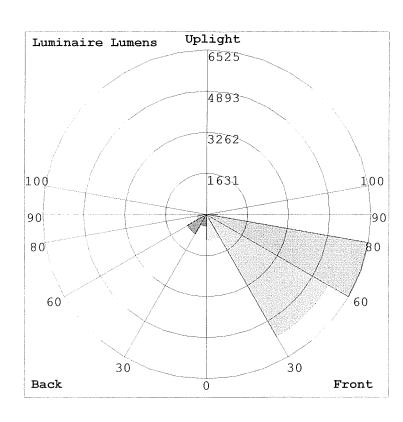
Upward Waste Light Ratio: 0.00

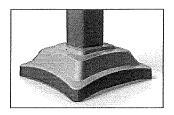
Luminaire Efficacy Rating (LER): 92

Indoor Classification: Direct

BUG Rating : B1-U0-G3

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1010.9	N.A.	6.6
FM (30-60)	5584.9	N.A.	36.5
FH (60-80)	6524.5	N.A.	42.7
FVH (80-90)	427.2	N.A.	2.8
BL (0-30)	461.2	N.A.	3.0
BM (30-60)	870.0	N.A.	5.7
BH (60-80)	365.0	N.A.	2.4
BVH (80-90)	42.3	N.A.	0.3
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	15286.0	N.A.	100.0
BUG Rating	B1-U0-G3		





MILLENIA® ML900



PROJECT:		
TYPF.		

HOW TO ORDER: ML900-4R / UBKT

ML900 series	TRIM	COL	OR
	4R	UBKT	UBK
	48	UBT	UB
	5R	ULBT	ULB
SPLIT BASE	58	USLT	USL
		UWHT	UWH
		UCHS	

The ML900 two piece die cast base cover is constructed of 360 aluminum and is designed with soft corners that compliment the Millenia product family of luminiares. The ML900 base cover can be fitted to 4" and 5" round or square Urban poles and are mechanically secured to the pole shaft with stainless steel hardware.

Product Specs

Trims

- 4R (4" Round)
- 4S (4" Square)
- 5R (5" Round)
- 5S (5" Square)

Mechanical

- Mechanically fastens to pole with stainless steel hardware.
- Available in 4 trim options:
- I. 4" Round (4R)
- II. 5" Round (5R)

III. 4" Square (4S)

IV. 5" Square (5S)

Limitations

- For use with all Sternberg Urbanline Round and Square poles <30'.
- Acceptable bolt projection up to 4-3/4".
- Will accomodate Sternberg Urban square steel or aluminum poles with .5" or .75" radius corners.

Finish

- Durable, thermosetting, electrostatically applied color retentive powder coat finish.

Colors:

UBKT - Urban Black Textured

UBT - Urban Bronze Textured

ULBT - Urban Light Bronze Textured

USLT - Urban Silver Textured

UWHT - Urban White Textured

UCHS - Urban Champagne Satin Smooth

UBK - Urban Black Matte

UB - Urban Bronze Matte

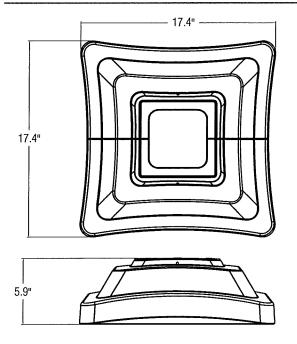
ULB - Urban Light Bronze Matte

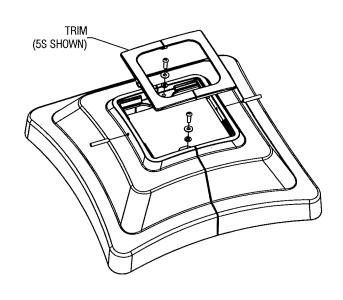
USL - Urban Silver Matte

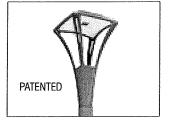
UWH - Urban White Matte

Product Dimensions

Assembly







MILLENIA ML660

The Millenia® ML660 medium post top luminaire is a breakthrough in modern area lighting technology. Its new world urban design transcends traditional lighting convention by seamlessly interweaving form and function to yet another level. Our convective AAD™ "Advanced Air-flow Dynamics" maximizes heat sink expulsion to deliver unsurpassed thermal management for long-life LED performance and energy efficiency.

Available with a myriad of options, the Millenia is perfect for commercial, institutional and municipal markets.



PROJECT:		
TYPE:		

ORDERING EXAMPLE: PT-ML660-CA-60L45T5-MDH05-HSS-FHD / UBKT

	ML660										
MOUNTING CONFIGURATION	SERIES	LENS	NO. OF LEDS	COLOR TEMP K	DISTRIBUTION TYPE	DRIVER	CONTROLS	HOUSE SIDE SHIELD	DUAL FUSE & HOLDER	COI	.or
PT		CA	44L1	27(00) K	T2	MDL03		OFTION	9	UBKT	UBK
]	SV1*	60L	35(00) K	T3	MDL05	PEC	HSS	FHD	UBT	UB
	Medium	SV2**		45(00) K	T3R	MDL07				ULBT	ULB
	Post Top				T4	MDH03				USLT	USL
					T5	MDH05				UWHT	UWH
						MDH07				UCHS	

PT = Post Top 1 Only available with MD_03 driver

Product Specs

Optical

- IP66 rated optic module with BUG rating of U-1.
- Utilizes high output, high brightness LEDs.
- Operates at -40°C (-40°F) to +50°C (122°F) ambient air temperature range.
- Minimum CRI of 70, CCT 2700, 3500, and 4500K. Call factory for custom CCT.
- LM-79 and LM-80 tests in accordance with IESNA standards.
- Lumen depreciation rating $L_{70} > 180,000$ hrs. Projected per TM-21 guideline and based on 700mA drive current.
- RoHS Compliant.

Electrical

- 120-277 volt standard and 347-480 volt option available.
- Minimum drivers power factor: >0.9.

- Electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines (10kV).
- UL or ETL listed in U.S. and Canada.

Mechanical

- Rugged die-cast aluminum housing.
- AAD™ "Advanced Air-flow Dynamics" maximizes heat sink expulsion.
- Advanced self cleaning flow through design.
- Low profile Aero-dynamic design with integrated heat sink for optimum thermal management.
- Tool-less driver access and removeable driver assembly.

Controls

- Supplied with dimmable driver (0-10 volts).
- Optional pole mounted electronic button photocell: PEC 120-277V.

Finish

- Durable, color retentive powder coat finish.
- Perforated windows are black, except when fixture is urban black textured or urban black matte, the perforated windows are silver.

Warranty & Standards

LED Systems and Drivers - 7 years.
All fixtures shall be free from all defects in materials and workmanship for a period of 7 years from the date of manufacture. The luminaire manufacturer shall warrant the LED boards/system, during the stated warranty period, against failure defined as more than 10 percent of non-operating LEDs.

Drivers (0-10V dimming):

MDL03: 3SOmA, 120-277V MDL05: 525mA, 120-277V MDL07: 700mA, 120-277V MDH03: 350mA, 347-480V MDH05: 525mA, 347-480V MDH07: 700mA, 347-480V

Lens:

CA - Clear Acrylic

Soft Vue:

SV1* - Flat Medium Diffuse Acrylic Lens SV2** - Flat Heavy Diffuse Acrylic Lens *Provides moderate reduction in Brightness while only a minimal reduction in lumen output. **Provides maximum reduction in Brightness while only a nominal reduction in lumen output. Consult photometric files for exact lumen performance.

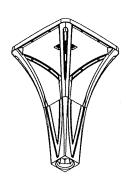
Colors:
UBKT - Urban Black Textured
UBT - Urban Bronze Textured
ULBT - Urban Light Bronze Textured
USLT - Urban Silver Textured
UWHT - Urban White Textured

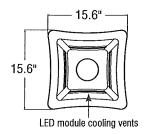
UCHS - Urban Champagne Satin Smooth UBK - Urban Black Matte

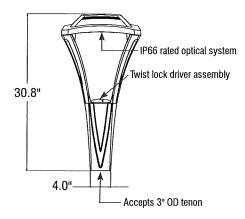
UB - Urban Bronze Matte
UB - Urban Bronze Matte
ULB - Urban Light Bronze Matte
USL - Urban Silver Matte
UWH - Urban White Matte

Performance (Based on CA Lens)

MODEL#	T2 DELIVERED LUMENS	EFFICACY (LPW)	T3 DELIVERED LUMENS	EFFICACY (LPW)	TOR DELIVERED LUMENS	EFFICACY (LPW)	T4 DELIVERED LUMENS	EFFICACY (LPW)	TO DELIVERED LUMENS	EFFICACY (LPW)	WATTAGE
44L27TMD_03	3065	57.8	2820	53.2	2940	55.5	2905	54.8	2945	55,6	53
44L35TMD_03	3495	65.9	3215	60.7	3350	63.2	3310	62.5	3360	63.4	53
44L45TMD_03	3725	70.3	3430	64.7	3570	67,4	3530	66.6	3580	67.5	53
60L27TMD_03	4140	59.1	3860	55.1	3990	57.0	3960	56.6	4030	57.6	70
60L35TMD_03	4720	67.4	4405	62.9	4550	65.0	4515	64.5	4595	65.6	70
60L45TMD_03	5030	71.9	4695	67.1	4850	69.3	4815	68.8	4895	69.9	70
60L27TMD_05	5555	52,9	5195	49.5	5360	51.0	6095	58.0	5415	51.6	105
60L35TMD_05	6335	60.3	5925	56.4	6115	58.2	6950	66.2	6175	58.8	105
60L45TMD_05	6750	64.3	6310	60.1	6515	62,0	7405	70.5	6580	62.7	105
60L27TMD_07	6410	44.8	6275	43.9	6425	44.9	6415	44.9	6480	45.3	143
60L35TMD_07	7315	51.2	7155	50.0	7325	51.2	7315	51.2	7390	51.7	143
60L45TMD_07	7795	54.5	7625	53.3	7810	54.6	7795	54.5	7875	55.1	143

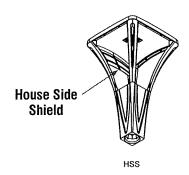




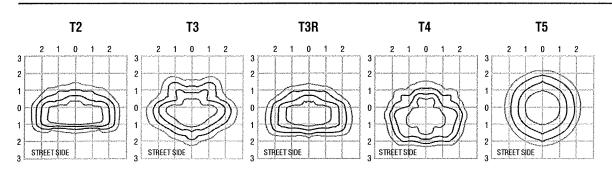




Other Options



ISO Footcandle Plots



All published luminaire photometric testing performed to IESNA LM-79 standards by NVLAP, certified laboratory. ISO footcandle plots above demonstrate the MILLENIA® ML660 light patterns only. Not for total fixture output. For complete specifications and IES files, see website







10' TO 30' SQUARE STRAIGHT STEEL POLES (SSS)

Job Name	Client Name	
Job Location	Created By	Date
Product Quote	Customer Approval	Date

	10-16-	01/A	30.40				B-11		may ayar a				Max Loadin	g Capac	ities			
Sternberg Model	Pole Height	Shaft Size	Wall Thick-	Base	hole	Weight Lbs	Boit Circle	Boli Proj	DBL Nutted Anchor bolt		PN w/1.8 Gust		PH w/1.3 Gust		PH W/1,3 lost		PHI w/1.3 Gust	
			ness	Width	Size			+/- .25	ASTM F1554 GRADE 65 Galv thread	MAX EPA 1 (SQ FT)	NEOS SANGES CONTRACTOR	MAX EPA 1 (SQ FT)	MAX WEIGHT (lbs)	MAX EPA 1 (SQ FT)	MAX WEIGHT (lbs)	MAX EPA 1 (SO FT)	MAX WEIGHT (Ibs)	Base Cover Options
SSS10F400	10	4	11GA	8.25"	2.5 x 5	75	8.5"	3.5	3/4"	23.8	595	15.0	375	10.0	250	7.1	178	2403-4, ML900-4
SSS12F400	12	4	11GA	8.25"	2.5 x 5	90	8.5"	3.5	3/4"	18.8	470	11.5	288	7,5	188	5.0	25	2403-4, ML900-4
SSS14F400	14	4	11GA	8.25"	2.5 x 5	100	8.5"	3.5	3/4"	15.1	378	9.1	228	5.6	140	3.4	85	2403-4, ML900-4
SSS16F400	16	4	11GA	8.25*	2.5 x 5	115	8.5"	3.5	3/4"	11.8	295	6.8	170	3.9	98	1.9	48	2403-4, ML900-4
SSS18F400	18	4	11GA	8.25"	2.5 x 5	125	8.5"	3.5	3/4"	9.2	230	5.0	125	2.4	60	0.4	10	2403-4, ML900-4
SSS20F400	20	-4	11GA	8.25*	2,5 x 5	140	8.5"	3,5	3/4"	6.7	167	3.5	88	0.8	20		1	2403-4, ML900-4
SSS20N400	20	4	7GA	8.25"	2.5 x 5		8.5"	3.63	3/4"	12.4	350	7.6	190	4.5	113	2.5	63	2403-4, ML900-4
SSS20F500	20	5	11GA	-11"	2.5 x 5	185	11"	3.75	3/4"	12.7	343	7.0	175	3.5	88	0.9	25	2403-5, ML900-5
SSS20N500	20	5	7GA	11"	2.5 x 5	265	11"	3.75	3/4"	21.4	535	12.3	308	7.3	183	4.2	105	2403-5, ML900-5
SSS25F400	25	4	11GA	8.25*	2.5 x 5	170	8.5"	3.5	3/4"	2.6	100		·	-	-			2403-4, ML900-4
SSS25N400	25	4	7GA	8.25"	2.5 x 5	245	8.5"	3.63	3/4"	7.7	188	3.9	100	1.6	40	0.2	5	2403-4, ML900-4
SSS25F500	25	5	11GA	11"	2.5 x 5	225	11"	3,75	3/4"	6,3	157	2.5	63	•	-	-	-	2403-5, ML900-5
SSS25N500	25	5	7GA	11"	2.5 x 5	360	11"	3.75	3/4"	13.3	333	6.6	165	2.9	75	-	-	2403-5, ML900-5
SSS30F500	30	5	11GA	11"	2.5 x 5	265	11"	3,75	3/4"	2.0	50					• :		2403-5, ML900-5
SSS30N500	30	5	7GA	11"	2.5 x 5	380	11"	3.75	3/4"	6.7	167	2.5	63	-	-	-	-	2403-5, ML900-5

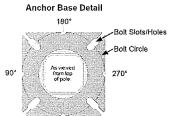
CROSS SECTION SSS	MODEL NUMBER	FIXTURE MOUNTING	BASE COVER	OPTIONS	COLOR
SSS = Square Straight Steel	\$\$510F400 \$\$520N500 \$\$512F400 \$\$525F400 \$\$525F400 \$\$525N400 \$\$525N400 \$\$5516F400 \$\$5825N500 \$\$5820F400 \$\$5820F400 \$\$5820F400 \$\$5820F400 \$\$5820F500 \$\$5820F	Drill Mounting D1 = 1 Luminaire D2 = 2 @ 180° D4 = 4 @ 90° D5 = 2 @ 90° D6 = 3 @ 90° Tenon Mounting P2 = 2.38° OD x 4.00° P3 = 3.00° OD x 3.00° P4 = 4.00° OD x 6.00° P5 = 4.25° OD x 3.50° P6 = 3.25° OD x 3.50°	2403-4 2403-5 ML900-4 ML900-5	See Accessories at www.sternberglighting.com (Please specify with code)	UBKT - Urban Black Textured UBT - Urban Bronze Textured ULBT - Urban Light Bronze Textured USLT - Urban Silver Textured UWHT - Urban White Textured UCHS - Urban Champagne Satin Smooth UBK - Urban Black Matte UB - Urban Bronze Matte ULB - Urban Bight Bronze Matte USL - Urban Silver Matte USL - Urban White Matte







18"



0° - Handhole



Rounded Corner Profile .75" Corner Radius

OPTIONAL BASE COVERS



Square 2403 13" Sq. x 6-1/2" H Throat Size 4" or 5" Sq. 2403-4 2403-5



Square ML900 17.4" Sq. x 5.9" H Throat Size 4" or 5" Sq. ML900-4 ML900-5





sample banner copylight 2013 Lighting Analysis, inc.

Photometric Report (Type C)

Filename: ML660-SV2-60L45T3-F-MD 07.IES

[TEST] S7133

: Organis

[TESTLAB] STERNBERG LIGHTING

[ISSUEDATE] 4/21/2014

[MANUFAC] Sternberg Lighting

[LUMCAT] ML660-SV2-60L45T3-F-MDL07

[LUMINAIRE] ML660 Millenia Post Top, medium size,

Frosted Acrylic, Type 3

[LAMPCAT] CREE XT-E LEDS 4500K. LUMINAIRE OUTPUT:

6457 Lms.

[LAMP] 60 LEDs

Maximum Candela = 2287.9 at 35 H 32.5 V

Classification:

Road Classification: Type III, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 46

Indoor Classification: Direct

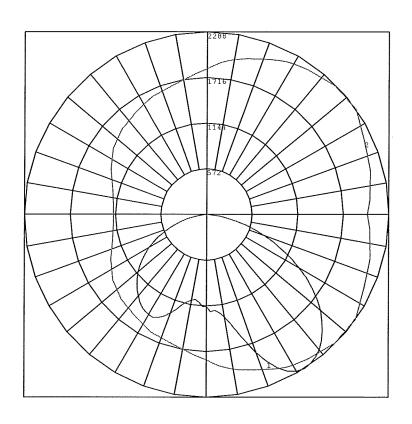
BUG Rating: B2-U1-G2

Polar Candela Curves:

Vertical Plane Through: 1) 35 - 215 Horizontal

Horizontal Cone Through:

2) 32.5 Vertical





www.agi32.com

Lighting Analysts Burnington organosing software

sample basner copyright 2013 Lighting Analysis, Inc.

Photometric Report (Type C)

Filename: ML660-SV2-60L45T3-F-MD 07.IES

[TEST] S7133

1 1 1

[TESTLAB] STERNBERG LIGHTING

[ISSUEDATE] 4/21/2014

[MANUFAC] Sternberg Lighting

[LUMCAT] ML660-SV2-60L45T3-F-MDL07

[LUMINAIRE] ML660 Millenia Post Top, medium size,

Frosted Acrylic, Type 3

[LAMPCAT] CREE XT-E LEDS 4500K. LUMINAIRE OUTPUT:

6457 Lms.

[LAMP] 60 LEDs

Maximum Candela = 2287.9 at 35 H 32.5 V

Classification:

Road Classification: Type III, Very Short, N.A. (deprecated)

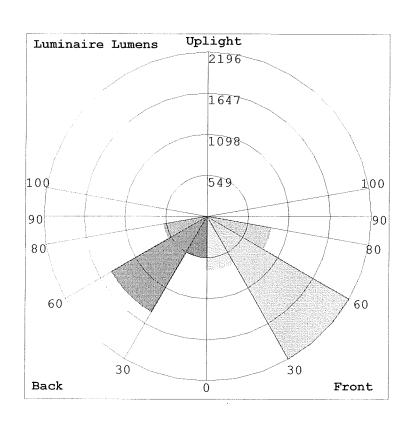
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 46

Indoor Classification: Direct

BUG Rating: B2-U1-G2

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	709.3	N.A.	11.0
FM (30-60)	2196.4	N.A.	33.9
FH (60-80)	864.5	N.A.	13.4
FVH (80-90)	62.3	N.A.	1.0
BL (0-30)	548.0	N.A.	8.5
BM (30-60)	1468.8	N.A.	22.7
BH (60-80)	583.1	N.A.	9.0
BVH (80-90)	41.0	N.A.	0.6
UL (90-100)	1.4	N.A.	0.0
UH (100-180)	0.2	N.A.	0.0
Total	6475.0	N.A.	100.0
BUG Rating	B2-U1-G2		







sample banner copyright 2013 Lighting Arvelysts, Inc.

Photometric Report (Type C)

Filename: ML660-SV2-60L45T5-F-MD 07.IES

[TEST] S7216

[TESTLAB] STERNBERG LIGHTING

[ISSUEDATE] 4/28/2014

[MANUFAC] Sternberg Lighting

[LUMCAT] ML660-SV2-60L45T5-F-MDL07

[LUMINAIRE] ML660 Millenia Post Top, medium size,

Clear Frosted Acrylic, Type 5

[LAMPCAT] CREE XT-E LEDS 4500K. LUMINAIRE OUTPUT:

6673 Lms.

[LAMP] 60 LEDs

Maximum Candela = 1959.5 at 135 H 32.5 V

Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 47

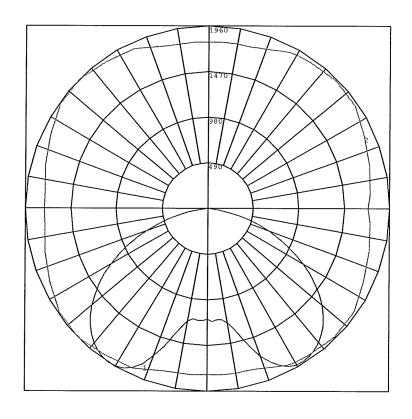
Indoor Classification: Direct

BUG Rating: B2-U1-G1

Polar Candela Curves:

Vertical Plane Through: 1) 135 - 315 Horizontal

Horizontal Cone Through: 2) 32.5 Vertical





Lighting Analysts Formation engineering software warm agris2.com

sample barnes copyright 2013 Lighting Analysis, Inc.

Photometric Report (Type C)

Filename: ML660-SV2-60L45T5-F-MD 07.IES

[TEST] S7216

 $\tau_{t_1,\ldots,t_{n-1}} = \S$

[TESTLAB] STERNBERG LIGHTING

[ISSUEDATE] 4/28/2014

[MANUFAC] Sternberg Lighting

[LUMCAT] ML660-SV2-60L45T5-F-MDL07

[LUMINAIRE] ML660 Millenia Post Top, medium size,

Clear Frosted Acrylic, Type 5

[LAMPCAT] CREE XT-E LEDS 4500K. LUMINAIRE OUTPUT:

6673 Lms.

[LAMP] 60 LEDs

Maximum Candela = 1959.5 at 135 H 32.5 V

Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)

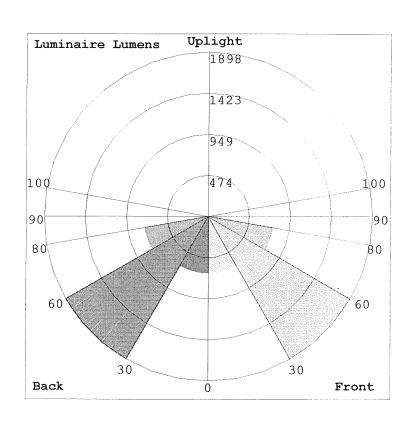
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 47

Indoor Classification: Direct

BUG Rating: B2-U1-G1

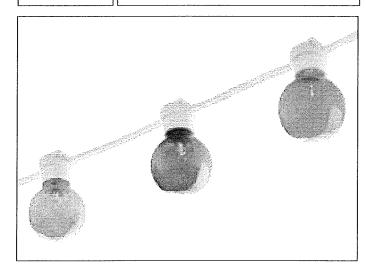
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	646.1	N.A.	9.7
FM (30-60)	1888.7	N.A.	28.2
FH (60-80)	750.7	N.A.	11.2
FVH (80-90)	53.9	N.A.	0.8
BL (0-30)	648.3	N.A.	9.7
BM (30-60)	1897.7	N.A.	28.4
BH (60-80)	747.8	N.A.	11.2
BVH (80-90)	52.1	N.A.	0.8
UL (90-100)	1.2	N.A.	0.0
UH (100-180)	0.1	N.A.	0.0
Total	6686.6	N.A.	100.0
BUG Rating	B2-U1-G1		



12V | Litesphere™ LED Strand



CAT:	FEET:	
TYPE:	PROJECT:	



Energy-efficient, low voltage strand lighting using wedge-base LED lamps protected by clear, frosted or colored polycarbonate globes.

Features

- Flexible 16AWG. cord available in Black or White with matching socket.
- Shatterproof, polycarbonate, O-ring fitted globes protect lamps with clarity and seamless appearance.
- · Socket is parallel wired and permanently fixed to cord.
- · Field cuttable.

Mounting

Each Socket has mounting holes for screw attachment in under-eve applications. Use ¹/₈" stainless steel wire cable (by others) and included hanger clips for festoon applications.

Applications

Ideal for indoor and outdoor applications.

Warranty 5 years

MADE IN US





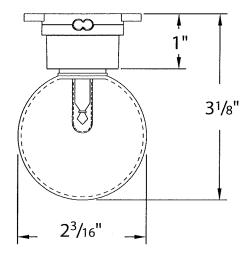


Technical Information

Lamp Spacing	6"O.C.	24" O.C.						
*Lumens/ft(STD)	11	11 5.5 3.67 2						
*Lumens/ft (HO)	30	30 15 10						
*Watts/ft (STD)	0.17	0.17 0.085 0.057						
*Watts/ft (HO)	0.46	0.115						
Lumens/watt (STD)		65.34						
*Lumens/watt (HO)		63.51						
CRI		> 80/TYP83						
LED Colors	1900°K, 2	1900°K, 2700°K, 3000°K, 3500°K, 4000°K (+/- 80°K) 3SDCM						
Rated Life		75,000 hr.						
Ordering Increment		1'						
Operating Voltage		12V DC						
Power Supply		Class 2						
Dimming	Yes							

^{* 3000°}K Sample

Profile Dimensions





Recommended Power Supplies

CAT NO	APPLICATION	PRIMARY AND SECONDARY	TOTAL WATTAGE / AMPS PER BREAKER	LISTING	DIMENSIONS	ELECTRONIC OR AC MAGNETIC
ADNM-80-1-5-12-D		120-277V AC / 12V DC	60W / 1X5A	cULus	12"W X 12"L X 4"D	
ADNM-150-2-5-12-D		120-277V AC / 12V DC	120W / 2X5A	cULus	12"W X 12"L X 4"D	
ADNM-240-3-5-12-D	Outdoor	120-277V AC / 12V DC	180W / 3X5A	cULus	12"W X 12"L X 4"D	
ADNM-320-4-5-12-D	-	120-277V AC / 12V DC	240W / 4X5A	cULus	12"W X 12"L X 4"D	
ADUL-80-1-5-12-D		120-277V AC / 12V DC	60W / 1X5A	UL/ETL/CSA	10"W X 10"L X 4"D	Electronic
ADUL-150-2-5-12-D	1	120-277V AC / 12V DC	120W / 2X5A	UL/ETL/CSA	10"W X 10"L X 4"D	
ADUL-240-3-5-12-D	Indoor	120-277V AC / 12V DC	180W / 3X5A	UL/ETL/CSA	10"W X 10"L X 4"D	
ADUL-320-4-5-12-D		120-277V AC / 12V DC	240W / 4X5A	UL/ETL/CSA	10"W X 10"L X 4"D	
MT-60-1-5-12-DD		120V AC / 12V DC	60W / 1X5A	UL recognized	2.50"W X 12.32"L X 1.56"D	
JT-60-1-5-12-D		120V AC / 12V DC	60W / 1X5A	cETLus	4.25"W X 8.50"L X 3.25"D	
JTH-60-1-5-12-D	Indoor/Outdoor	277V AC / 12V DC	60W / 1X5A	cETLus	4.25"W X 8.50"L X 3.25"D	**
JT-240-4-5-12-D		120V AC / 12V DC	240W / 4X5A	cETLus	8.50"W X 16.00"L X 4.50"D	Magnetic
JTH-240-4-5-12-D		277V AC / 12V DC	240W / 4X5A	cETLus	8.50"W X 16.00"L X 4.50"D	

Dimming Interface

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MAX LOAD	CIRCUIT CIRCUIT BREAKERS CAPACITY		DIMENSION
DIM-OT	DIM-OT-1-4-5-D	Indoor	12V/24V	12V/24V	96W	1	5A /4A	7"L X 1½"W X ¾"H

Ordering Information

PRODUCT CODE	WIRE	LAMP SPACING	LED	LED COLOR	*GLOBE COLOR	VOLTAGE	REQUIRED POWER SUPPLY
LSL = Litesphere LED™	B = Black W = White	06 = 6" O.C. 12 = 12" O.C. 18 = 18" O.C. 24 = 24" O.C.	H = High Output S = Standard Output	19 = 1900°K 27 = 2700°K 30 = 3000°K 35 = 3500°K 40 = 4000°K	C = Clear G = Green F = Frosted B = Blue Y = Yellow P = Purple R = Red Z = Varied O = Orange Colors * for best results use 3500°K, with colored bulb.	12 = 12V DC	PSU See Above

Wiring Accessories



LS-CG LS-OG Clear Orange LS-FG LS-GG Frosted Green LS-YG LS-BG Yellow Blue LS-RG LS-PG Red Purple



Clear End Cap Factory installed 24", 16 AWG Power Lead. LS-EP-B Straight Power Feed Lead - BLACK LS-EP-W

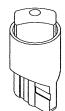
Straight Power Feed Lead - WHITE

LS-EC-CL

LS-XEP-B Extra Power Feed Lead - Black
LS-XEP- W Extra Power Feed Lead - White



LS-HANG-CLIP Hanger clip for installation from 8 gauge stainless steel aircraft cable



STANDARD LSL-19-S-12 12V Wedge base 1900°K LSL-27-S-12 12V Wedge base 2700°K LSL-30-S-12 12V Wedge base 3000°K LSL-35-S-12 12V Wedge base 3500°K LSL-40-S-12 12V Wedge base 4000°K

HIGH OUTPUT LSL-19-H-12 12V Wedge base 1900°K LSL-27-H-12 12V Wedge base 2700°K LSL-30-H-12 12V Wedge base 3000°K LSL-35-H-12 12V Wedge base 3500°K LSL-40-H-12 12V Wedge base 4000°K