

Exhibit D - Photometric Plan

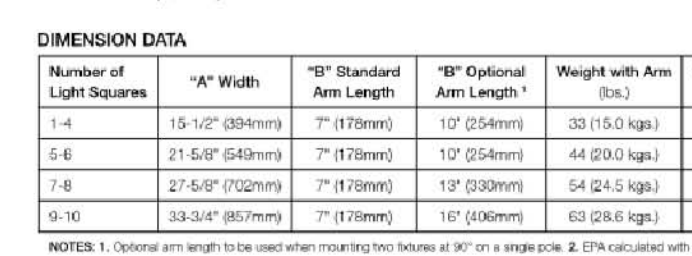
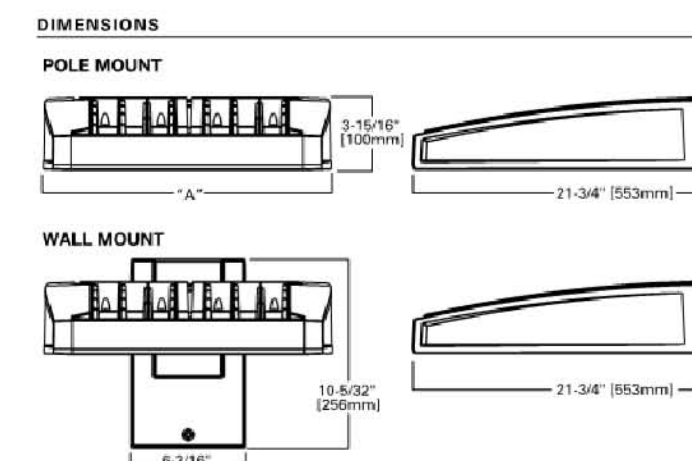
McGRAW-EDISON®	
Model #	SA, SB, SC
Project	
Comments	Date
Prepared by	

DESCRIPTION
The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP68 rated and UL/UL Listed for wet locations.

CONSTRUCTION FEATURES
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP68 rated.

Optics
Choice of 12 patented, high-efficiency AccuLED Optics™ manufactured from injection molded acrylic. 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) and nominal

70 CRI. Optional 6000K CCT and 3000K CCT (80 CRI).
120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. For wall mounting, specify wall mount bracket option. 3G vibration rated.
Finish
Housing finished in Super durable TOG polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.
Warranty
Five-year warranty.



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"C" Optional Arm Length	Weight with Arm (lbs.)	EPA with Arm 1 (lm/ft²)
1-4	15.12\" (383mm)	1\" (25mm)	12\" (305mm)	32 (15.0 kg)	0.90
5-6	21.54\" (548mm)	1\" (25mm)	12\" (305mm)	44 (20.0 kg)	1.00
7-8	27.54\" (702mm)	1\" (25mm)	12\" (305mm)	54 (24.5 kg)	1.07
9-10	33.54\" (851mm)	1\" (25mm)	12\" (305mm)	63 (28.6 kg)	1.12

Cooper Lighting
by E.T.M.

CERTIFICATION DATA
UL Listed, Wet Location Listed (503001)
ETL Listed, Wet Location Listed (503001)
3G Vibration Resistant
DesignLights Consortium® Qualified IP68 Rated

ENERGY DATA
Business LED Driver
+6 Power Factor
+20% Total Harmonic Distortion
120V-277V 50/60Hz
30W & 48W 400K
40°C Max. Temperature
40°C Max. Temperature (94 Optics)

ADH120541 313-10-01 095338

ORDERING INFORMATION
Sample Number: GLEON-AA-04-LED-E1-F2-GM

Product Family	Light Engine	Number of Light Squares*	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON-Station	AA-1A, AA-1B, AA-1C, AA-1D, AA-1E, AA-1F, AA-1G, AA-1H, AA-1I, AA-1J, AA-1K, AA-1L, AA-1M, AA-1N, AA-1O, AA-1P, AA-1Q, AA-1R, AA-1S, AA-1T, AA-1U, AA-1V, AA-1W, AA-1X, AA-1Y, AA-1Z	1-4, 5-6, 7-8, 9-10	LED-Scalable State Light Emitting Diodes	84-120-277V, 240-277V, 480-480V	T2-Type II, T2-Type III, T2-Type IV, T2-Type V, T2-Type VI, T2-Type VII, T2-Type VIII, T2-Type IX, T2-Type X, T2-Type XI, T2-Type XII, T2-Type XIII, T2-Type XIV, T2-Type XV, T2-Type XVI, T2-Type XVII, T2-Type XVIII, T2-Type XIX, T2-Type XX, T2-Type XXI, T2-Type XXII, T2-Type XXIII, T2-Type XXIV, T2-Type XXV, T2-Type XXVI, T2-Type XXVII, T2-Type XXVIII, T2-Type XXIX, T2-Type XXX, T2-Type XXXI, T2-Type XXXII, T2-Type XXXIII, T2-Type XXXIV, T2-Type XXXV, T2-Type XXXVI, T2-Type XXXVII, T2-Type XXXVIII, T2-Type XXXIX, T2-Type XL, T2-Type XLI, T2-Type XLII, T2-Type XLIII, T2-Type XLIV, T2-Type XLV, T2-Type XLVI, T2-Type XLVII, T2-Type XLVIII, T2-Type XLIX, T2-Type L, T2-Type LI, T2-Type LII, T2-Type LIII, T2-Type LIV, T2-Type LV, T2-Type LVI, T2-Type LVII, T2-Type LVIII, T2-Type LIX, T2-Type LX, T2-Type LXI, T2-Type LXII, T2-Type LXIII, T2-Type LXIV, T2-Type LXV, T2-Type LXVI, T2-Type LXVII, T2-Type LXVIII, T2-Type LXIX, T2-Type LXX, T2-Type LXXI, T2-Type LXXII, T2-Type LXXIII, T2-Type LXXIV, T2-Type LXXV, T2-Type LXXVI, T2-Type LXXVII, T2-Type LXXVIII, T2-Type LXXIX, T2-Type LXXX, T2-Type LXXXI, T2-Type LXXXII, T2-Type LXXXIII, T2-Type LXXXIV, T2-Type LXXXV, T2-Type LXXXVI, T2-Type LXXXVII, T2-Type LXXXVIII, T2-Type LXXXIX, T2-Type LXXXX	AP-Only, BK-Black, BR-Bronze, GM-Grey, WH-White	Direct-Arm for Round or Square Pole, Indirect-Arm Adaptor, Wall Mount

Notes:
1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Standard 800K CCT and 3000K CCT.
3. Luminaire Warranty does not currently apply for 24V or 48V applications.
4. May be required when used in applications in excess of a 30' or 45' ceiling pattern. Refer to arm mounting requirement table.
5. Factory installed.
6. Not available with Light Squares in 24V or 48V.
7. Not available with Light Squares in 24V or 48V.
8. Consult your Cooper Lighting representative for lead times and luminaire multiplier.
9. For best results with ETL Light Squares in 24V or 48V.
10. Consult your Cooper Lighting representative before ordering DM with 3L system.
11. Refer to ETL Light Squares in 24V or 48V.
12. 24V or 277V only and 200V only. Please refer to ETL Light Squares in 24V or 48V.
13. The ETL Light Squares are required for ETL applications.
14. Please refer to the number of Light Squares operating in low output mode and replace with appropriate fixture selection, e.g., M93 L16.
15. Luminaire fixture selection for delivery includes arm required unless otherwise specified. See the Cooper Lighting for Luminaire application information.
16. This fixture requires adjustment of parameters including light and low modes, sensitivity, time delay, cutoff and more. Consult your Cooper Lighting representative for additional details.

Cooper Lighting
by E.T.M.

Edison 1038 Edison Boulevard, Chesham, NJ 08027
Edison 711 Highway B, Suite 150, Phillipsburg, NJ 08835
P: 732-549-0330
www.cooperlighting.com

ADH120541 313-10-01 095338

FIXTURE TYPES SA, SA2, SB & SC

Shaper® shaperlighting.com	
Model #	SD
Project	
Comments	Date
Prepared by	

DESCRIPTION
674 Luminous Wall Square features horizontal trim bars with a vertical fin detail and is ADA compliant. Design options, such as perforated metal, colored acrylic, and different trim bar configurations are available.

CONSTRUCTION FEATURES
Material: Painted solid aluminum with a matte white acrylic diffuser for a recessed aluminum perfl shield. Wet location lamp and ballast housing with 1/8" clear acrylic diffuser.
Finish
Premium TOG polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard: Aluminum Paint (ALP), Premium: Black Paint (BK), Bronze Metallic Paint (BM), Dark Platinum Paint (DPT), Gold Metallic Paint (GM), Graphite Metallic Paint (GMP), Grey Paint (GP), White Paint or Custom Color (CC).
Lamp/Socket
37" Two (2) 140W T5 linear miniature bi-pin fluorescent lamps.
43" Two (2) 21W T5 linear miniature bi-pin fluorescent lamps.
55" Two (2) 28W T5 linear miniature bi-pin fluorescent lamps.
Fluorescent socket injection molded plastic. Lamps furnished by others.
Installation
Supplied with a mounting back for a standard 4" J-box or stucco ring.
Options
Modified Length - Contact factory.
Alternative Trim Bars or Perfl Accent Design - Contact factory. Green Glass Acrylic (GGA).
Labels
UL and C.U.L. listed for wet locations. ADA compliant.
Modifications
Shaper's skilled craftspeople with their depth of experience offer the designer the flexibility to modify standard exterior wall luminaires for project specific solutions. Contact the factory regarding scale options, unique finishes, mounting, additional materials/colors, or decorative detailing.



ORDERING INFORMATION
Sample Number: 674-55-WP-TL-28-277V-ALP

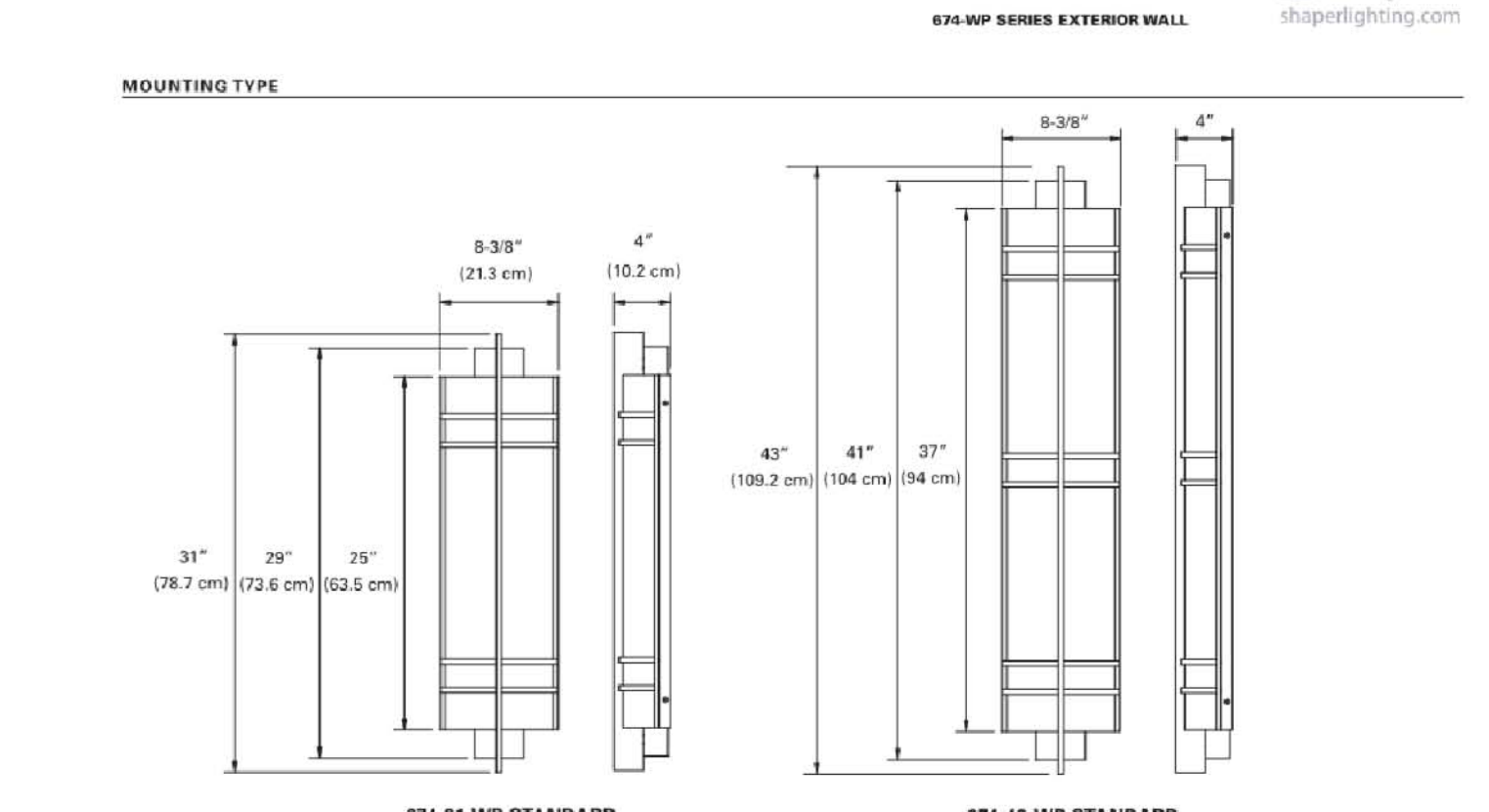
Series	Size	Mounting Type	Lamp	Voltage	Finish*	Options
674	55"	WP - Exterior Wall	T5214	277V	ALP	GGA - Green Glass Acrylic

Notes:
* Available in 24"
* Available in 48"
* Available in 55"
* Premium TOG polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear.

ADA
Shaper Lighting certifies that its products comply with the requirements of Section 11932 of the American Recovery and Reinvestment Act of 2009 under the ADA Buy American provision.

AMERICAN DISABILITIES ACT (ADA)
Shaper Lighting certifies that its products comply with the requirements of ADA under the Buy American provision.

ADH120541 313-10-01 161603



Shaper®
shaperlighting.com

Cooper Lighting
www.cooperlighting.com

Specifications and dimensions subject to change without notice. Consult your representative for additional options and finishes.

ADH120541 313-10-01 161603

FIXTURE TYPE SD

Architectural Egress		Full Cut-Off Vandal Resistant LED		Project Information	
Series	AEL	Fixture Type	SE	Date	
Length		Job Name			
LED		Approved By			
Volts		Catalog No.	AEL - - - -		

WALL MOUNT LAMPS: LED

SPECIFICATIONS

Description
The Architectural Egress Luminaire combines a unique, patented design shaped with high performance, full cut-off optics to achieve completely unobtrusive illumination of a space or path of egress. When mounted over a doorway, the fixture is perceived as an element of the building structure and, additionally, provides water protection in the form of a drip cap over the doorway. Multiple lengths are available to match a given door opening and our unique quick mount system facilitates installation and maintenance.

Housing
Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat.

Wall Mount
Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat. Designed to provide quick mounting to housing and secured with (2) captive stainless steel TORX® head screws.

Lens Frame
Marine grade heat treated extruded aluminum, clear anodized. Secured to fixture via integral concealed hinge and (3) captive stainless steel TORX® head screws.

Lens
UV stabilized diffused extruded polycarbonate.

End Caps
Die-cast marine grade aluminum continuously welded to housing. All welds ground smooth.

Reflector
Electrolytically brightened anodized aluminum PVD coated and absolutely color-free of iridescence. Shaped to provide full cutoff, LED point dispersion and maximum efficiency.

Drivers
Constant current drivers at 350mA. High output version utilizes 700mA.

LED
Cree XPG @ 3500K and 80.2 CRI L₇₀ projected life of 75,000 hours at 50 C. Tested in accordance with LM-80. Ten year warranty on LED boards against operational defects.

Gaskets
Closed cell self-adhesive neoprene to provide watertight seal between fixture and wall and between fixture and lens frame.

UL Listing
U.L., C.U.L., Wet standard.

Lifetime Warranty
Luminaire LED Incorporated will repair or replace any fixture damaged due to vandalism for the lifetime of the installation.

DIMENSIONAL DATA

	A	B	C
AEL12	20.79	5.40	3.60
AEL24	32.04	5.40	3.60
AEL36	43.29	5.40	3.60
AEL48	54.75	5.40	3.60
AEL72	78.75	5.40	3.60

5 Sutton Place-P.O. Box 2162 - Edison, NJ - 08818
P. 732.549.0056 F. 732.549.9737

Luminaire LED
www.luminaireled.net

Rev: 12/13

Architectural Egress
Full Cut-Off Vandal Resistant LED

ORDERING INFORMATION

SERIES	LENGTH	LED	VOLTS	LENS	COLORS	OPTIONS	TX/SD (REQUIRED)
AEL	12"	12W LED	120	DP	BKH - Black	PC	
	24"	10W LED	277	Diffused	BZ - Bronze	2B	
	36"	24W LED		Polycarbonate	Hammerstone	GLR	
	48"	11W LED			BZ - Bronze	EMB20R	
	72"	22W LED			Hammerstone	EMB125R	
		16W LED			SVH - Silver	OCC	
		32W LED			WOP - White Orange	S7/SC	
		42W LED			PCP - Prime coat, paintable		
		72W LED			CUST - Custom color, Consult factory		

OPTIONS

PC Photoelectric switch.
2B (2) LED drivers for independent LED board operation. N/A with AEL12". N/A with the OCC option.
GLR Fuse and fuse holder.
EMB20R Remote mounted micro inverter that will operate a 25W maximum load for 90 minutes. 0 C (32 F) to 45 C (113 F).
EMB125R Stand-alone inverter that will operate a 125W maximum load for 90 minutes. Select ceiling grid, recessed wall or surface mount. 20 C (68 F) to 30 C (86 F).
OCC Occupancy sensor. Maximum coverage of 10' radius from 8' height.
ST/SC Slotted screws instead of TORX® head.
TX/SD TORX® head bit.

5 Sutton Place-P.O. Box 2162 - Edison, NJ - 08818
P. 732.549.0056 F. 732.549.9737

Luminaire LED
www.luminaireled.net

Made in USA Luminaire LED Incorporated products are manufactured in the USA with components purchased from USA suppliers, and meet the Buy American requirements under the ARRA.

Cooper Lighting
by E.T.M.

Edison 1038 Edison Boulevard, Chesham, NJ 08027
Edison 711 Highway B, Suite 150, Phillipsburg, NJ 08835
P: 732-549-0330
www.cooperlighting.com

ADH120541 313-10-01 095338

FIXTURE TYPE SE

Suite Six
ARCHITECTURE + PLANNING
4111 N. Central Expy
Scottsdale, Arizona 85250
480.348.7889 p
480.874.2812 f

LESLIE STEIN, L.L.C.
LEADER - 7700 AVENUE
SUITE 100
PHOENIX, ARIZONA 85021
1-800-374-4000
1-602-374-4000
WWW.LESLIESTEIN.COM



MARICOPA STATION
Maricopa, Arizona

Date: April 30, 2014

Revisions:

This drawing is not to be used or reproduced without the consent of Suite 6 Architecture + Planning, Inc. The designs, images, and concepts in this drawing are the property of Suite 6 Architecture + Planning, Inc.

PROGRESS PRINT
NOT FOR
CONSTRUCTION

Photometric Cut Sheets

Sheet PH2

Kraemer Engineering, Inc.
Mechanical and Electrical Consulting Engineers
2550 W. Wilcox Road Dr., Suite 150
Phoenix, Arizona 85025-2864
(602) 295-1694
(602) 295-9450 - fax
SEP 14 2014

