

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647586

Luminaire Tested: **GALN-SA8D-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-835-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33601.7 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

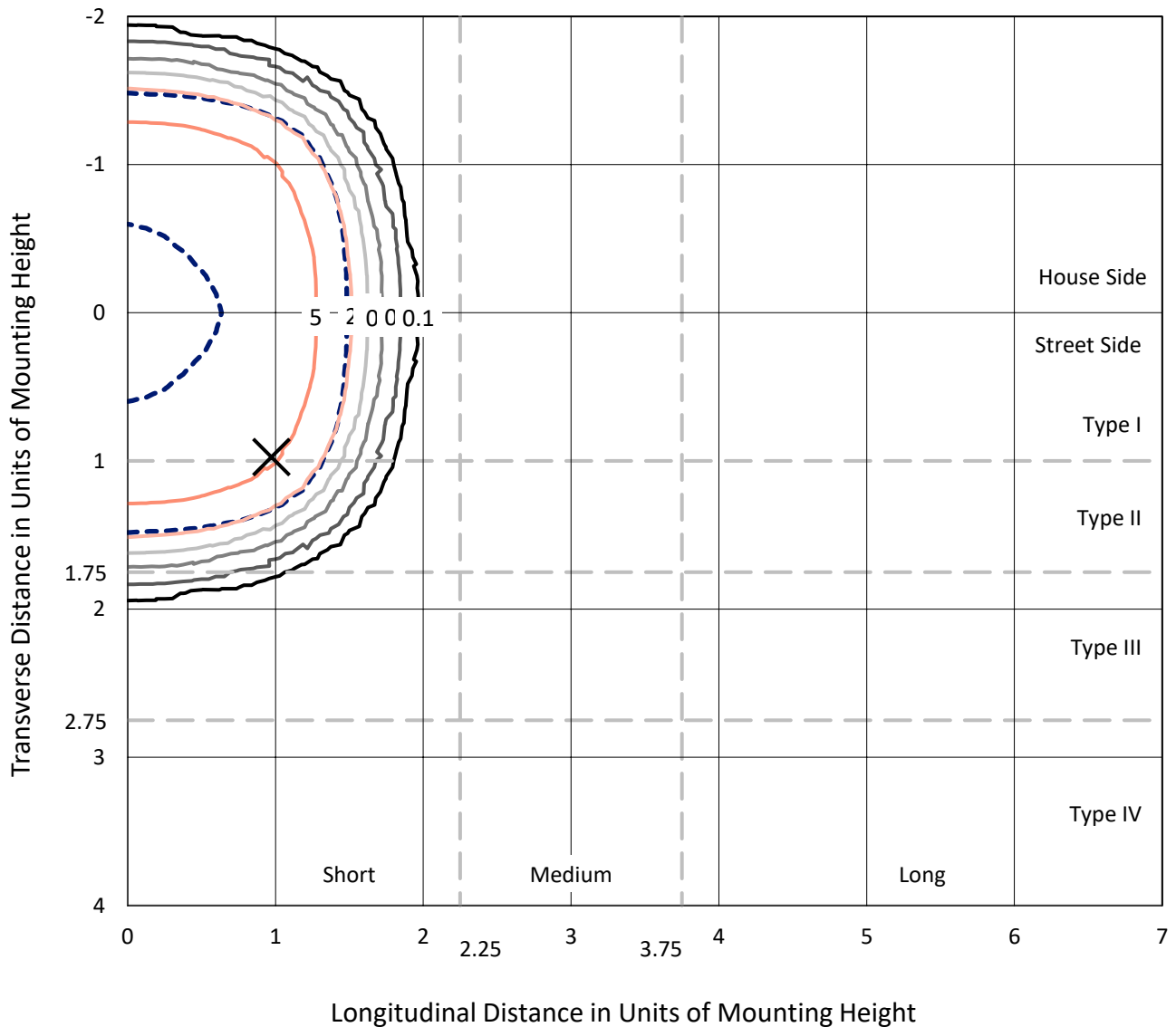
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647586  
 CATALOG NUMBER: GALN-SA8D-835-U-5NQ-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

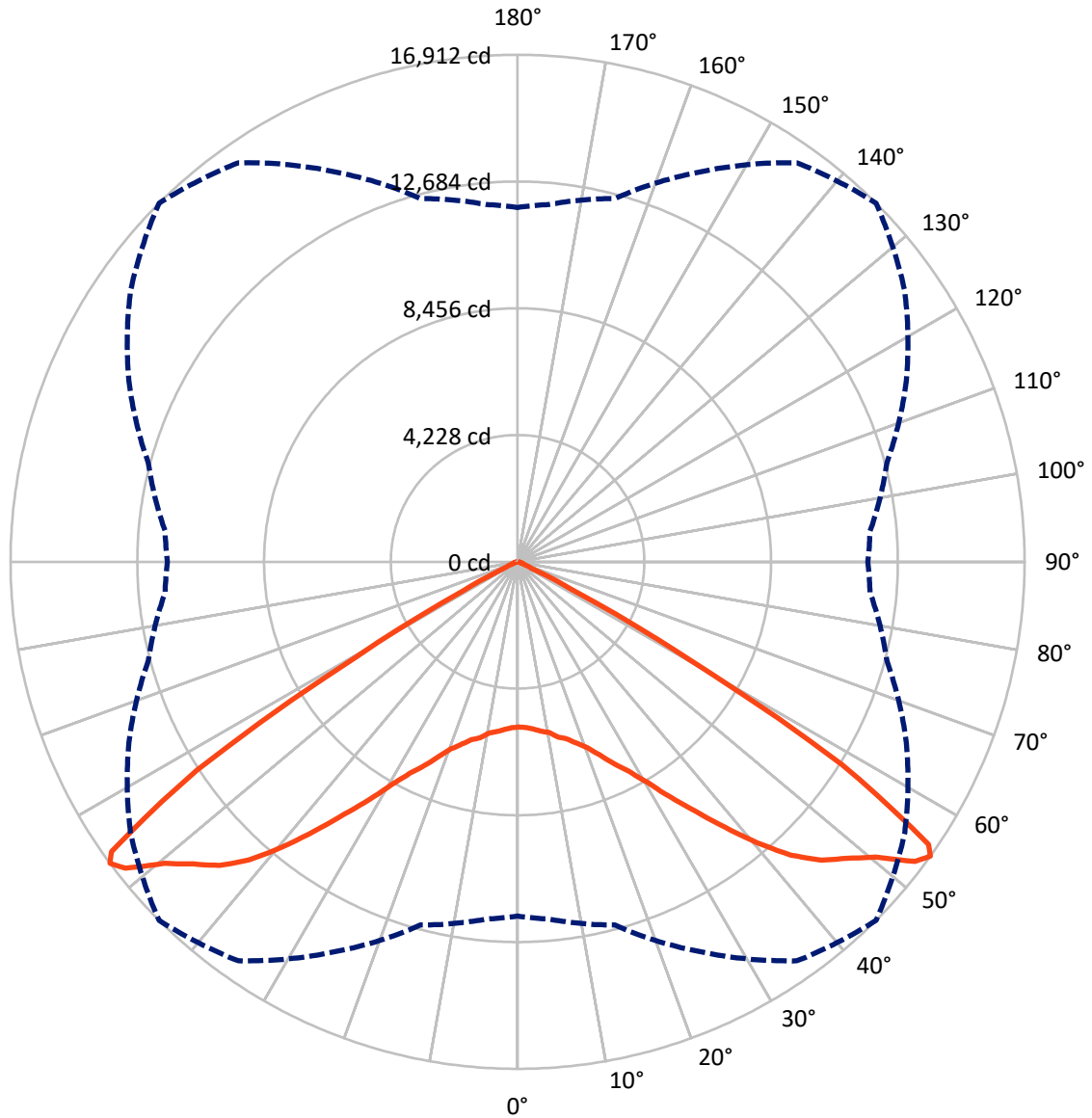
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type V - Short - N/A

REPORT NUMBER: P647586  
CATALOG NUMBER: GALN-SA8D-835-U-5NQ-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P647586  
 CATALOG NUMBER: GALN-SA8D-835-U-5NQ-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16800.8	0.0	16800.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16800.8	0.0	16800.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33601.7	0.0	33601.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.3	1.6
10°-20°	1746.3	5.2
20°-30°	3422.7	10.2
30°-40°	6154.7	18.3
40°-50°	10535.7	31.4
50°-60°	10194.3	30.3
60°-70°	872.7	2.6
70°-80°	103.4	0.3
80°-90°	32.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	33601.7	100.0
0°-180°	33601.7	100.0

**Coefficient of Utilization**

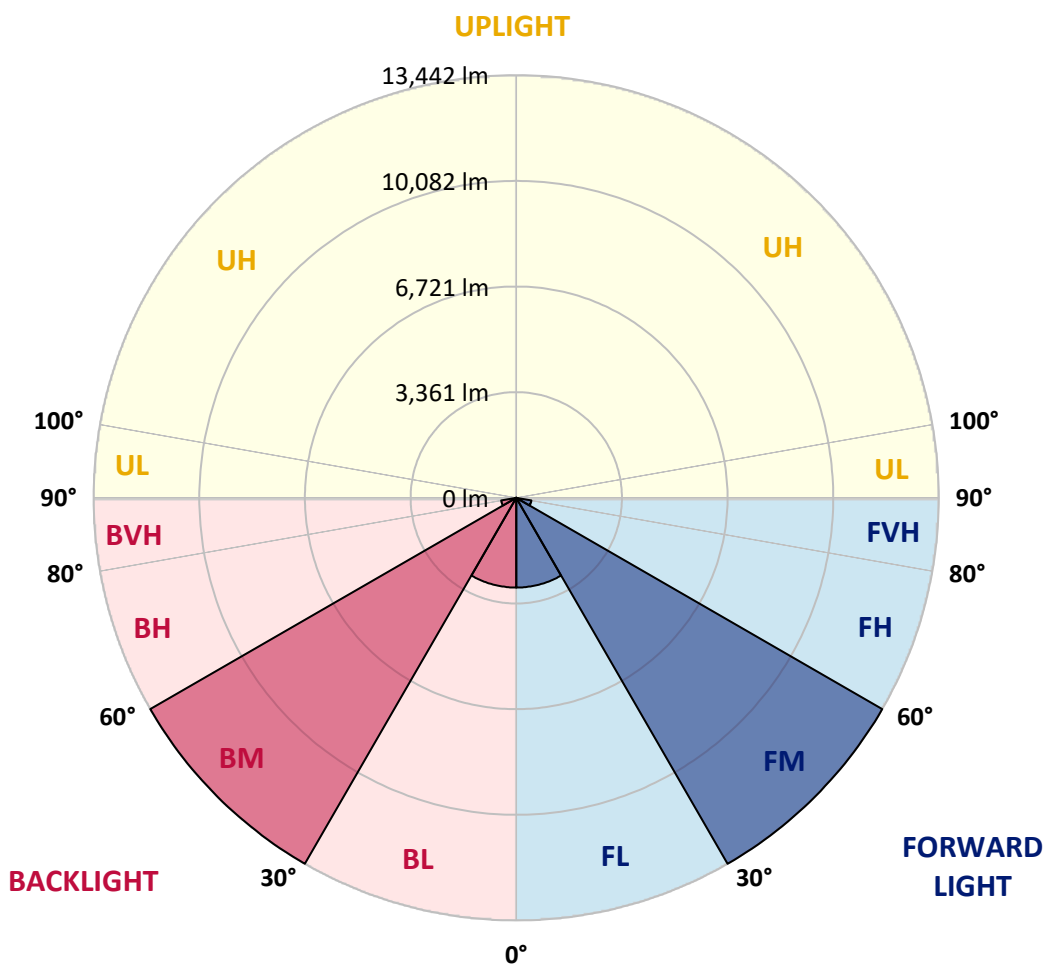


REPORT NUMBER: P647586  
 CATALOG NUMBER: GALN-SA8D-835-U-5NQ-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2854.1	8.5			
FM (30°-60°)	13442.4	40.0			
FH (60°-80°)	488.1	1.5			G0/660
FVH (80°-90°)	16.2	0.0			G1/100
BL (0°-30°)	2854.1	8.5	B4/5000		
BM (30°-60°)	13442.4	40.0	B5		
BH (60°-80°)	488.1	1.5	B1/500		G0/660
BVH (80°-90°)	16.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





REPORT NUMBER: P647586

CATALOG NUMBER: GALN-SA8D-835-U-5NQ-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7	5509.7
2.5°	5536.3	5568.1	5546.9	5562.8	5562.8	5536.3	5552.2	5488.4	5531.0	5499.0	5504.3
5°	5621.4	5616.1	5616.1	5621.4	5600.1	5610.7	5589.4	5568.1	5552.2	5531.0	5594.8
7.5°	5727.9	5727.9	5690.6	5701.3	5690.6	5706.6	5664.0	5621.4	5605.4	5589.4	5578.8
10°	5829.0	5818.4	5802.4	5850.3	5813.1	5791.8	5770.5	5743.9	5685.3	5664.0	5642.7
12.5°	5978.0	5972.7	5951.4	5999.3	5978.0	5999.3	5919.6	5850.3	5839.7	5770.5	5807.7
15°	6153.8	6201.7	6164.4	6164.4	6153.8	6127.1	6095.2	6063.2	5967.4	5940.8	5946.1
17.5°	6382.6	6366.7	6372.0	6372.0	6425.2	6356.0	6292.2	6212.3	6164.4	6148.4	6095.2
20°	6600.9	6622.2	6616.9	6654.2	6686.1	6611.6	6542.4	6531.7	6398.6	6419.9	6345.4
22.5°	6984.2	6968.2	6994.9	7021.5	7000.2	6989.5	6925.6	6845.8	6728.6	6675.5	6664.8
25°	7388.8	7362.2	7314.2	7378.1	7410.1	7457.9	7335.5	7292.9	7111.9	7032.1	7037.4
27.5°	7734.8	7772.1	7825.3	7851.8	7931.7	7915.7	7830.6	7692.2	7553.8	7463.2	7404.8
30°	8208.6	8229.8	8320.3	8357.6	8496.0	8533.3	8400.2	8240.4	7995.6	7878.5	7809.3
32.5°	8645.0	8794.1	8788.8	8975.1	9198.7	9353.1	9113.5	8868.6	8623.7	8485.4	8362.9
35°	9353.1	9326.5	9480.8	9677.8	10039.8	10215.4	9954.6	9672.5	9299.8	9076.2	8980.5
37.5°	10013.2	10023.8	10231.4	10545.4	10960.7	11232.2	11003.3	10540.1	10156.8	9869.4	9736.4
40°	10971.3	10992.6	11205.6	11562.2	12030.7	12323.5	12057.3	11588.9	11077.8	10854.3	10854.3
42.5°	12094.5	12185.0	12323.5	12632.2	13052.8	13377.5	13138.0	12770.7	12254.3	11966.8	12009.4
45°	13249.7	13292.3	13382.8	13840.6	14037.5	14197.3	13973.7	13803.4	13457.3	13106.0	13047.4
47.5°	14330.4	14346.3	14612.5	14756.2	14910.6	14777.5	14921.2	14697.7	14309.1	13968.3	13899.2
50°	14809.4	14782.8	15160.8	15597.3	15714.4	15480.2	15357.8	15208.7	14617.8	14207.9	14026.9
52.5°	13414.7	13569.2	14271.8	15485.5	16401.1	16598.1	15884.7	15198.0	14096.1	13297.6	13175.2
54°	11817.7	11961.5	12541.7	14341.0	16246.8	16912.2	15762.3	14303.8	12749.4	11801.8	11679.3
55°	10236.7	10077.1	11131.0	12967.6	15522.7	16635.3	15277.9	13148.6	11370.6	10502.9	10332.5
57.5°	5541.6	5568.1	6457.2	8192.6	10907.4	12754.7	11264.2	8895.3	6718.0	5743.9	5658.7
60°	1756.7	1799.3	2187.9	3311.1	5211.5	6223.0	5334.0	3572.0	2470.1	1980.3	1900.4
62.5°	548.3	569.6	622.8	926.3	1426.6	2038.9	1597.0	958.2	713.3	654.7	665.4
65°	335.4	335.4	340.7	362.0	425.9	495.1	479.1	420.5	404.6	393.9	388.6
67.5°	218.2	212.9	223.5	239.5	250.2	255.5	271.5	287.4	282.1	271.5	271.5
70°	133.1	127.8	138.4	159.7	165.1	175.7	191.6	212.9	207.6	196.9	202.2
72.5°	74.5	74.5	79.9	95.8	111.8	122.5	138.4	154.4	159.7	154.4	154.4
75°	26.6	31.9	42.6	58.6	69.2	85.2	101.2	117.1	133.1	122.5	117.1
77.5°	10.6	10.6	21.3	37.3	53.2	69.2	95.8	111.8	122.5	111.8	101.2
80°	5.3	5.3	16.0	31.9	47.9	63.9	79.9	95.8	101.2	90.5	79.9
82.5°	5.3	5.3	16.0	31.9	47.9	58.6	85.2	95.8	106.5	95.8	79.9
85°	0.0	5.3	16.0	31.9	42.6	47.9	47.9	31.9	26.6	16.0	16.0
87.5°	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)