

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: P316622

Luminaire Tested: **GLEON-SA8D-827-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8D-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48022 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

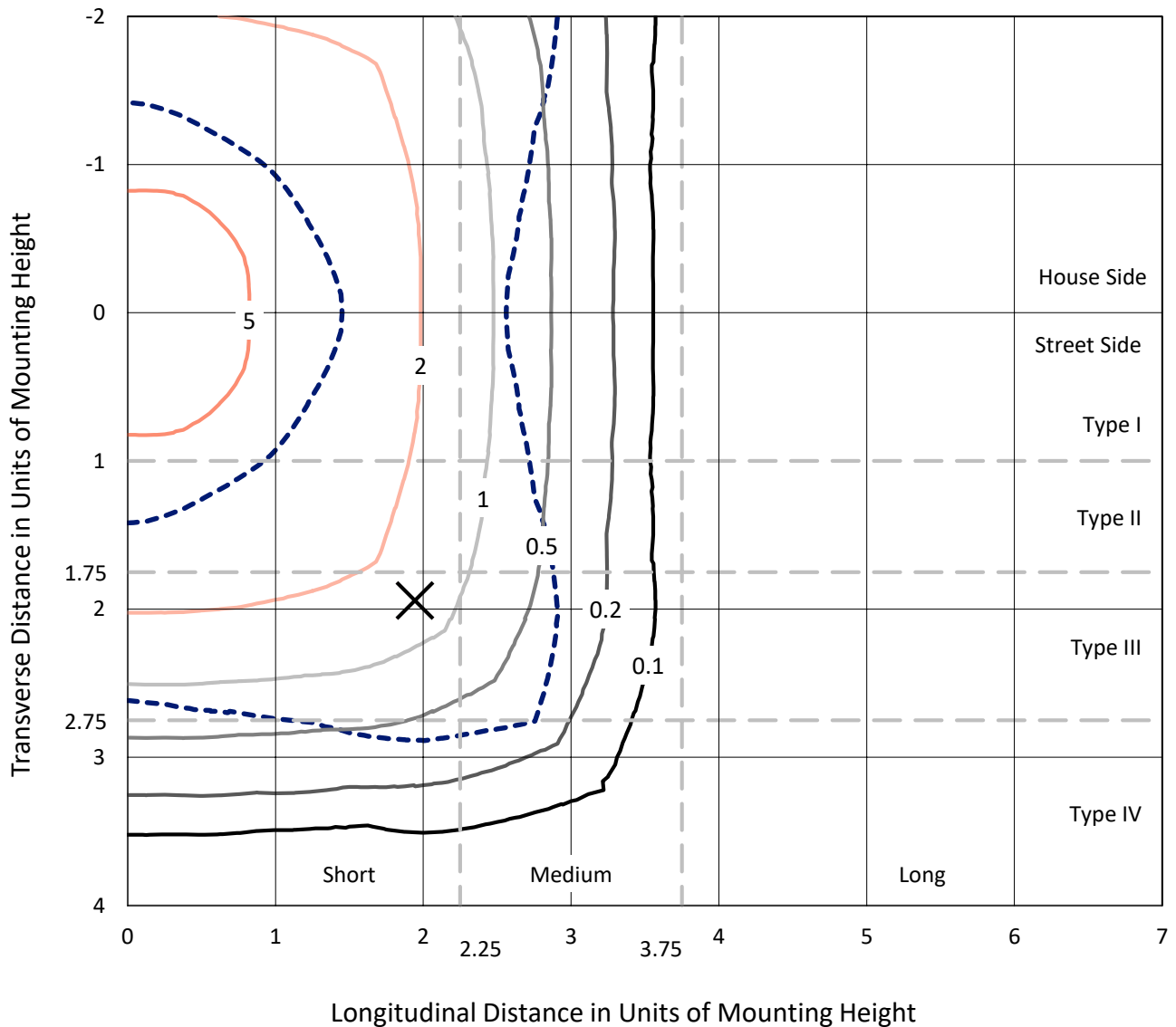
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

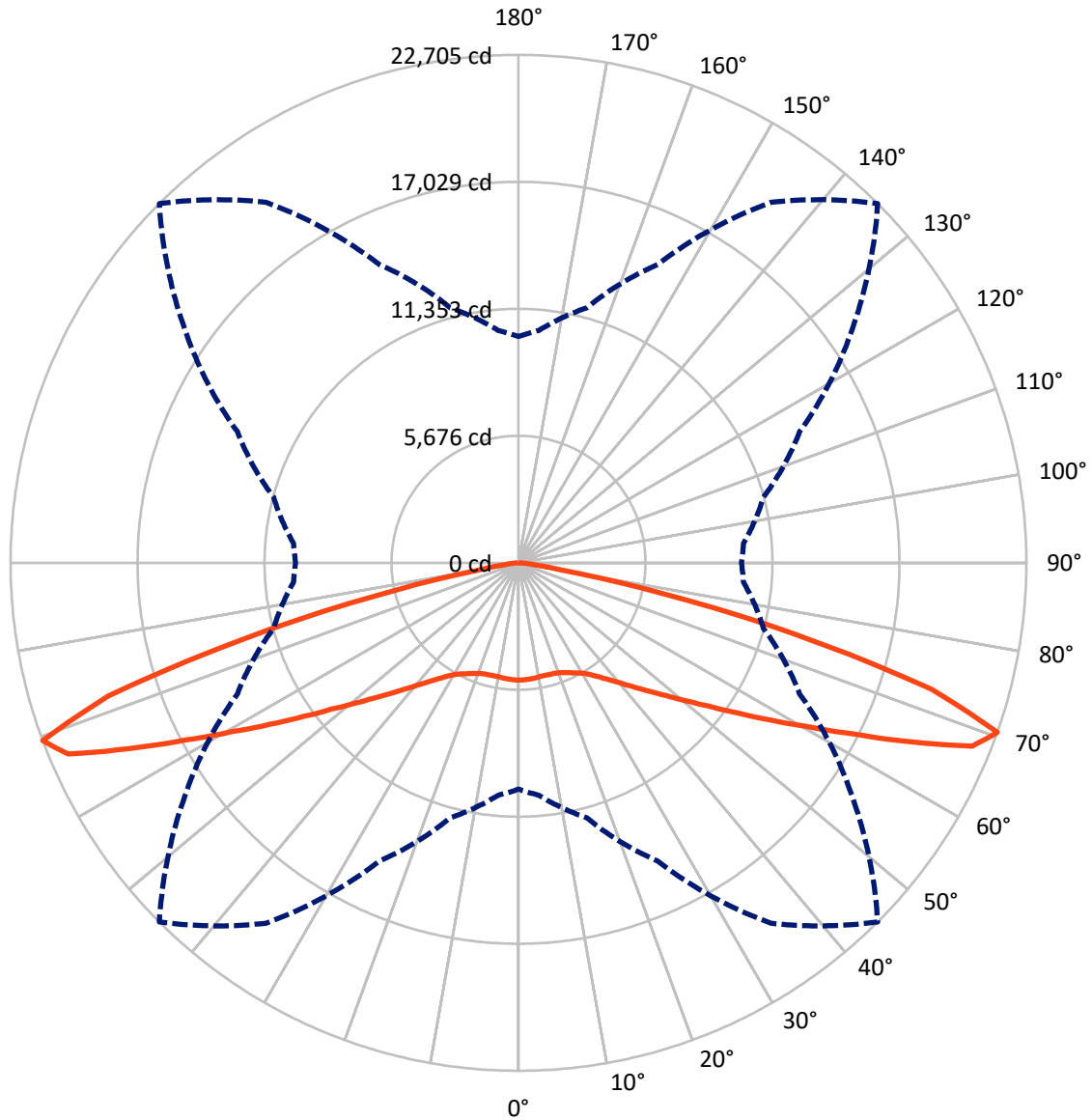
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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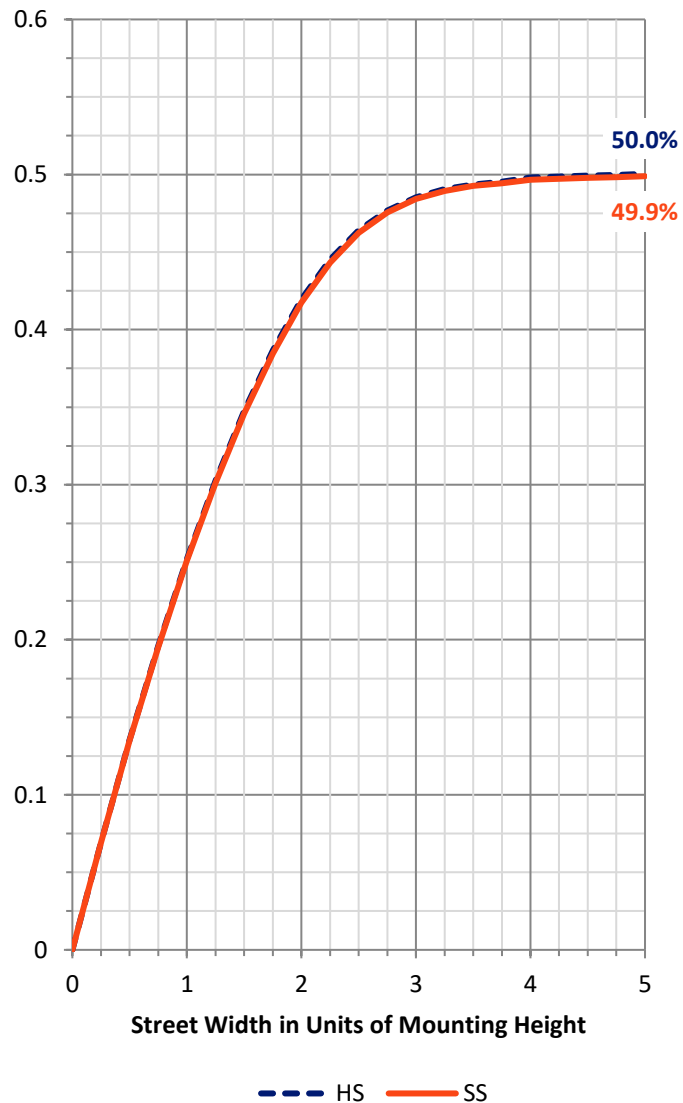
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24011.0	0.0	24011.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24011.0	0.0	24011.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48022.0	0.0	48022.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	496.7	1.0
10°-20°	1458.3	3.0
20°-30°	2482.5	5.2
30°-40°	3937.2	8.2
40°-50°	6407.0	13.3
50°-60°	10564.0	22.0
60°-70°	15508.2	32.3
70°-80°	6857.7	14.3
80°-90°	310.5	0.6
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°	48022.0	100.0
0°-180°	48022.0	100.0

**Coefficient of Utilization**

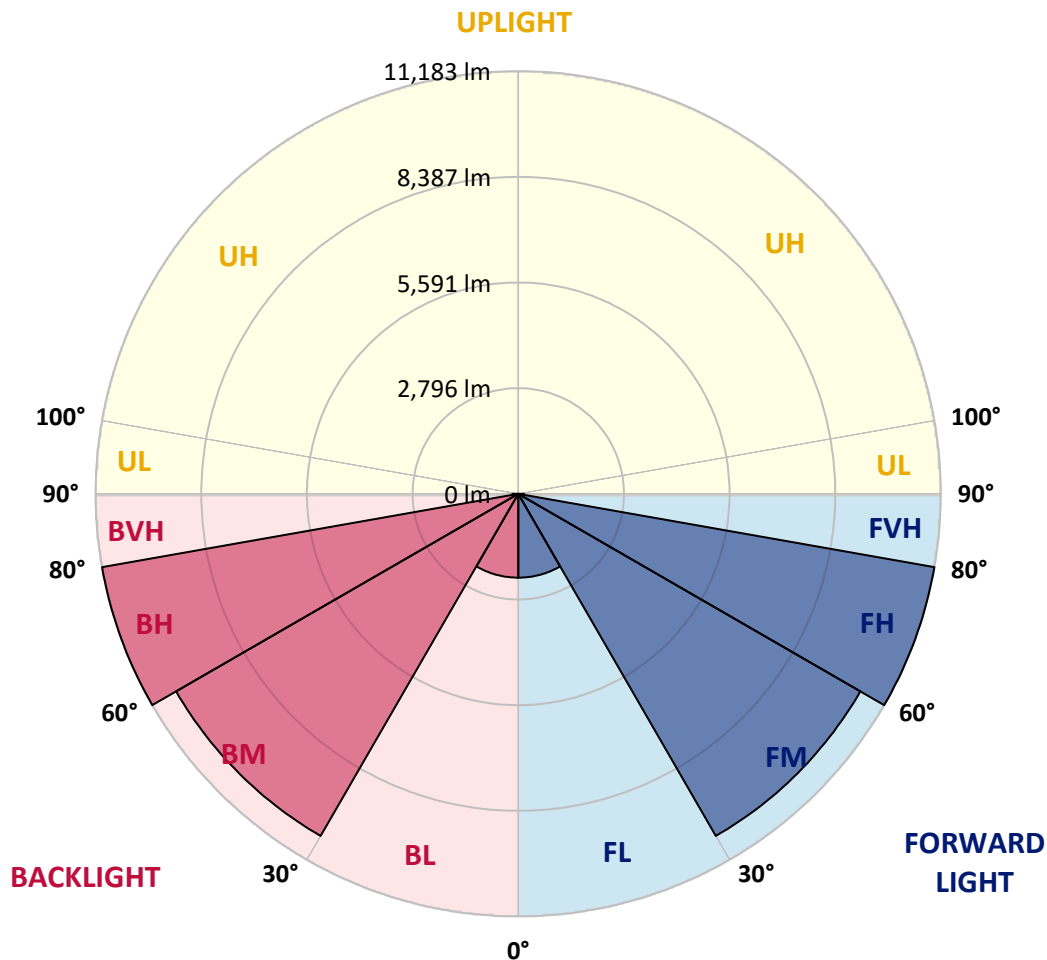


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2218.7	4.6			
FM (30°-60°)	10454.0	21.8			
FH (60°-80°)	11182.9	23.3			G4/12000
FVH (80°-90°)	155.3	0.3			G2/225
BL (0°-30°)	2218.7	4.6	B3/2500		
BM (30°-60°)	10454.0	21.8	B5		
BH (60°-80°)	11182.9	23.3	B5		G4/12000
BVH (80°-90°)	155.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5244.7	5244.7	5244.7	5244.7	5244.7	5244.7	5244.7	5244.7	5244.7	5244.7	5244.7
2.5°	5236.8	5232.0	5243.2	5241.6	5232.0	5233.6	5233.6	5238.4	5238.4	5235.2	5235.2
5°	5217.7	5214.6	5227.3	5227.3	5217.7	5220.9	5224.1	5228.9	5227.3	5224.1	5222.5
7.5°	5193.9	5192.3	5205.0	5205.0	5198.7	5201.8	5198.7	5200.2	5197.1	5193.9	5189.1
10°	5154.2	5157.3	5168.5	5171.6	5171.6	5173.2	5170.1	5162.1	5157.3	5152.6	5147.8
12.5°	5117.6	5116.0	5131.9	5139.9	5152.6	5166.9	5157.3	5135.1	5125.6	5116.0	5112.8
15°	5093.8	5095.4	5111.2	5125.6	5147.8	5178.0	5166.9	5131.9	5112.8	5101.7	5098.5
17.5°	5089.0	5092.2	5112.8	5138.3	5162.1	5195.5	5189.1	5154.2	5122.4	5101.7	5096.9
20°	5100.1	5101.7	5133.5	5170.1	5211.4	5243.2	5228.9	5190.7	5147.8	5116.0	5108.1
22.5°	5120.8	5127.1	5166.9	5224.1	5287.7	5330.6	5313.1	5247.9	5181.2	5141.4	5130.3
25°	5185.9	5187.5	5241.6	5319.4	5395.7	5445.0	5424.3	5332.2	5246.3	5201.8	5187.5
27.5°	5321.0	5325.8	5379.8	5470.4	5535.6	5567.4	5554.7	5480.0	5406.9	5359.2	5363.9
30°	5516.5	5522.9	5583.3	5683.4	5723.1	5731.1	5727.9	5692.9	5626.2	5562.6	5567.4
32.5°	5754.9	5758.1	5839.2	5929.7	5961.5	5967.9	5961.5	5929.7	5850.3	5764.5	5769.2
35°	6061.7	6071.2	6149.1	6236.5	6261.9	6274.6	6263.5	6222.2	6139.5	6055.3	6052.1
37.5°	6439.9	6441.5	6522.6	6613.2	6644.9	6648.1	6635.4	6608.4	6505.1	6428.8	6424.0
40°	6878.6	6884.9	6980.3	7077.2	7089.9	7075.6	7093.1	7077.2	6970.7	6883.3	6897.6
42.5°	7412.6	7426.9	7541.3	7636.7	7600.1	7592.2	7603.3	7608.1	7522.2	7415.8	7406.2
45°	8034.0	8046.7	8189.8	8266.0	8242.2	8189.8	8212.0	8250.2	8131.0	7999.0	8011.8
47.5°	8742.8	8774.6	8927.2	8998.7	8939.9	8868.4	8911.3	8968.5	8828.7	8665.0	8657.0
50°	9531.1	9570.9	9774.3	9874.4	9815.6	9683.7	9755.2	9793.4	9591.5	9380.2	9362.7
52.5°	10371.9	10411.6	10667.5	10874.1	10836.0	10630.9	10731.1	10691.3	10459.3	10174.8	10152.6
55°	11323.9	11339.8	11616.3	11950.1	11988.2	11837.2	11830.9	11765.7	11422.4	11093.4	11077.5
57.5°	12302.9	12314.0	12671.6	13065.8	13245.4	13245.4	13067.4	12929.1	12473.0	12091.5	12051.8
60°	13359.8	13399.5	13795.3	14330.9	14750.5	14874.4	14559.7	14183.1	13687.2	13221.5	13175.4
62.5°	14300.7	14346.8	14952.3	15750.1	16424.0	16875.4	16106.1	15492.7	14589.9	13843.0	13755.5
65°	14419.9	14543.8	15425.9	16870.6	18378.9	19280.0	17805.1	16293.7	14648.7	13610.9	13521.9
67.5°	13169.1	13378.9	14570.9	16819.8	19936.4	21870.6	18890.6	15836.0	13593.4	12446.0	12347.4
70°	10119.2	10424.3	11799.1	14712.3	19667.8	22705.0	18210.4	13863.6	11333.4	10098.5	9960.3
72.5°	5551.5	5677.0	6913.5	10074.7	15767.6	19294.3	15189.1	10251.1	7515.9	6115.7	5883.7
75°	1761.0	1805.5	2434.8	4122.7	8919.3	12779.7	9648.8	5031.8	2770.2	2042.3	2018.4
77.5°	781.9	786.7	880.5	1203.1	3072.2	6474.9	3690.4	1370.0	944.1	824.9	851.9
80°	494.3	494.3	545.1	596.0	836.0	1880.2	998.1	651.6	556.3	516.5	527.7
82.5°	236.8	262.2	354.4	381.4	459.3	632.5	511.8	425.9	371.9	276.5	257.5
85°	155.8	130.3	224.1	252.7	267.0	303.6	297.2	281.3	243.2	138.3	154.2
87.5°	69.9	66.8	116.0	106.5	100.1	76.3	114.4	141.4	136.7	68.3	68.3
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)