

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: P316612

Luminaire Tested: **GLEON-SA8C-827-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316612  
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-SA8C-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43776 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

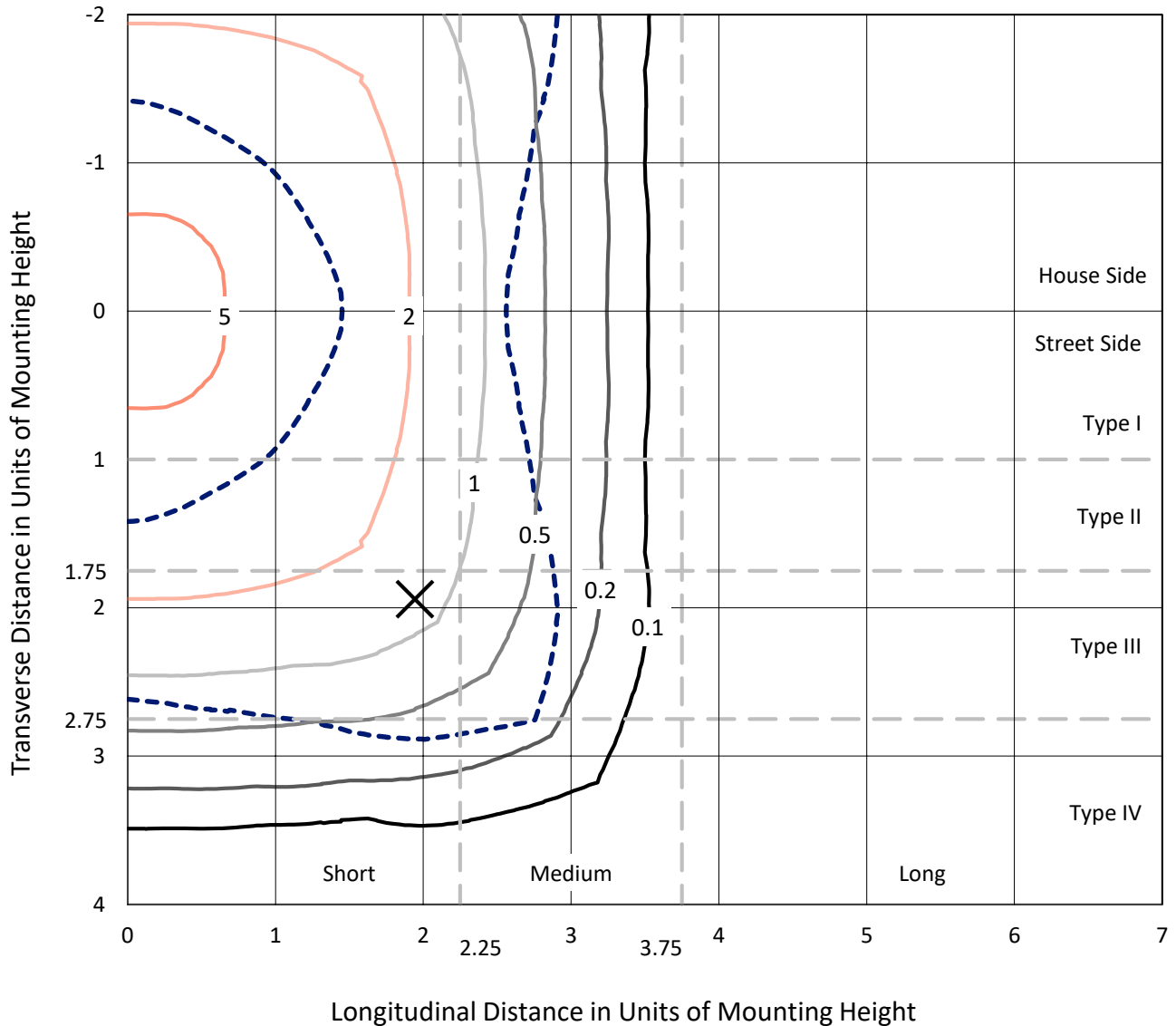
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

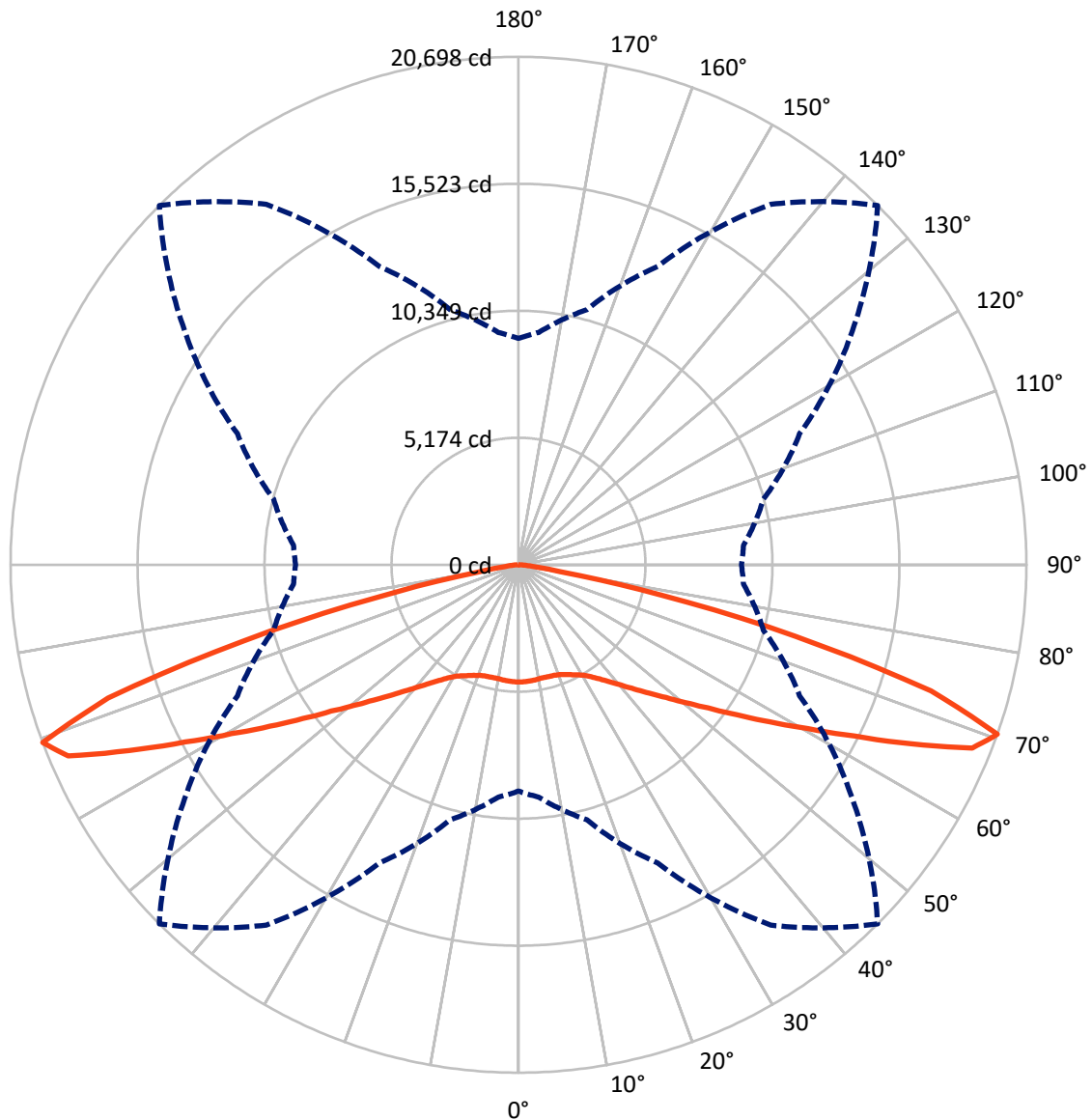
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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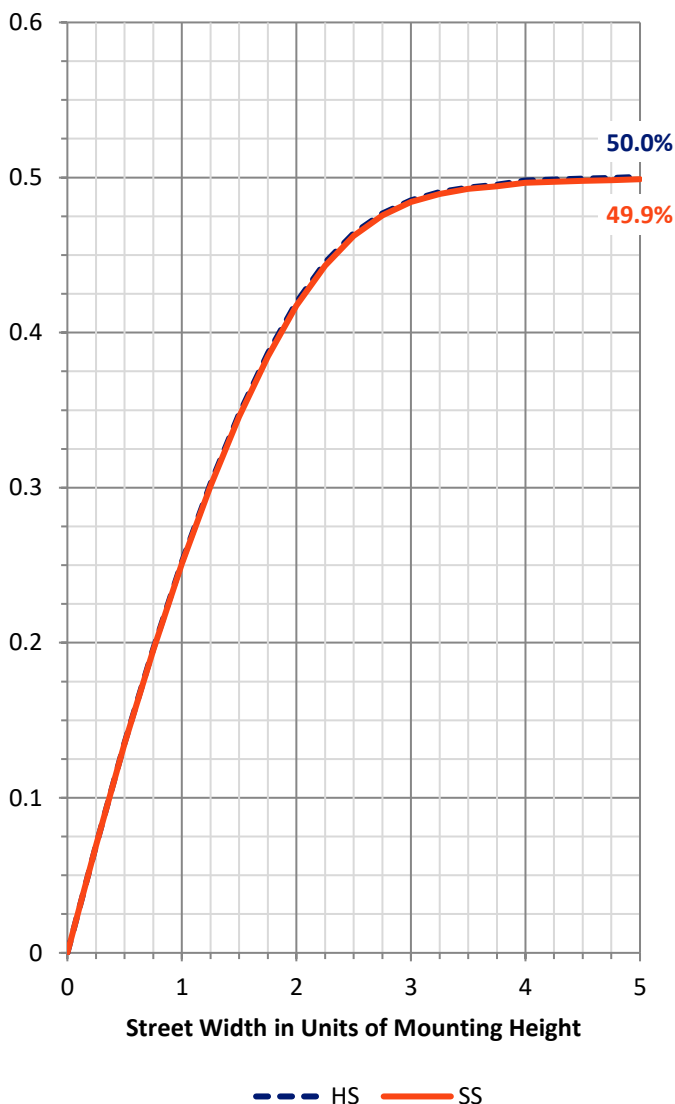
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21888.0	0.0	21888.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21888.0	0.0	21888.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43776.0	0.0	43776.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.8	1.0
10°-20°	1329.3	3.0
20°-30°	2263.0	5.2
30°-40°	3589.1	8.2
40°-50°	5840.5	13.3
50°-60°	9629.9	22.0
60°-70°	14137.0	32.3
70°-80°	6251.3	14.3
80°-90°	283.1	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°	43776.0	100.0
0°-180°	43776.0	100.0

**Coefficient of Utilization**



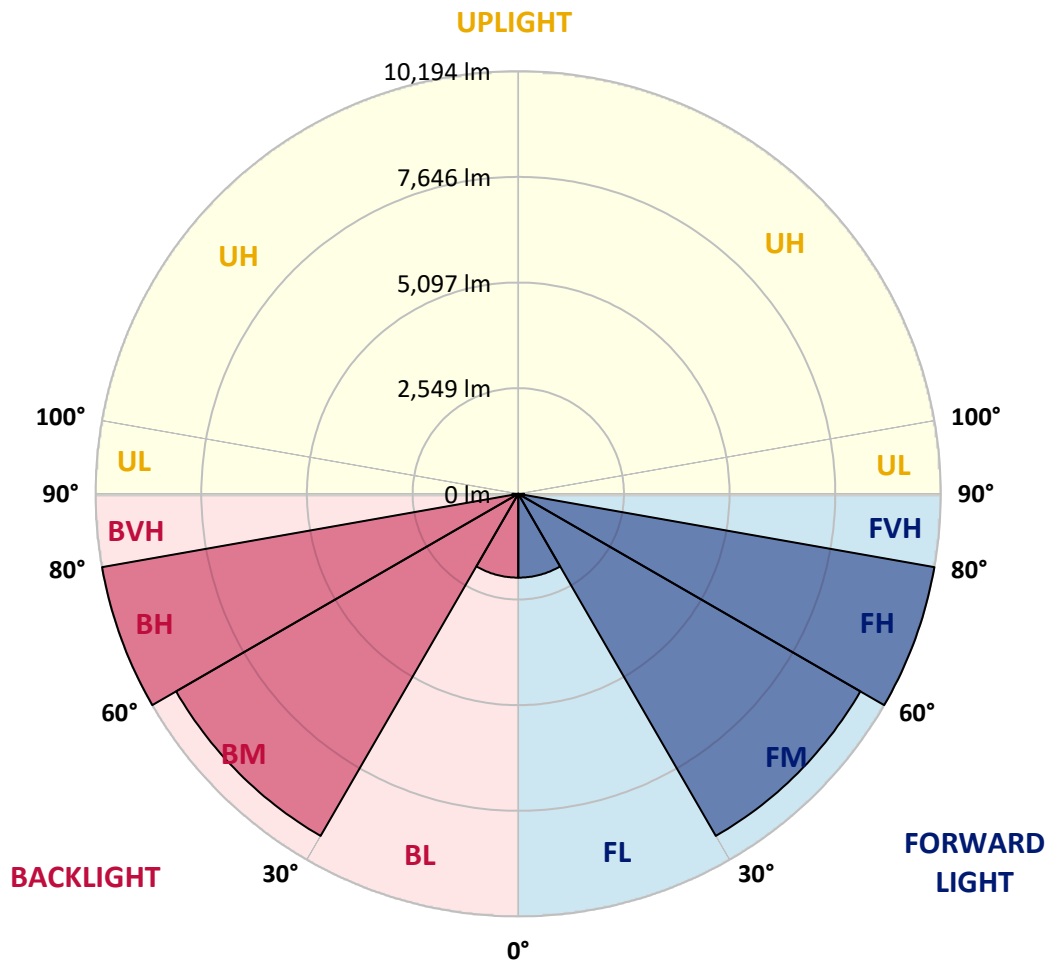
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2022.6	4.6			
FM (30°-60°)	9529.7	21.8			
FH (60°-80°)	10194.2	23.3			G4/12000
FVH (80°-90°)	141.5	0.3			G2/225
BL (0°-30°)	2022.6	4.6	B3/2500		
BM (30°-60°)	9529.7	21.8	B5		
BH (60°-80°)	10194.2	23.3	B5		G4/12000
BVH (80°-90°)	141.5	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°	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0	4781.0
2.5°	4773.8	4769.4	4779.6	4778.1	4769.4	4770.9	4770.9	4775.2	4775.2	4772.3	4772.3
5°	4756.4	4753.5	4765.1	4765.1	4756.4	4759.3	4762.2	4766.5	4765.1	4762.2	4760.7
7.5°	4734.7	4733.2	4744.8	4744.8	4739.0	4741.9	4739.0	4740.5	4737.6	4734.7	4730.3
10°	4698.4	4701.3	4711.5	4714.4	4714.4	4715.8	4712.9	4705.7	4701.3	4697.0	4692.6
12.5°	4665.1	4663.7	4678.2	4685.4	4697.0	4710.0	4701.3	4681.1	4672.4	4663.7	4660.8
15°	4643.4	4644.8	4659.3	4672.4	4692.6	4720.2	4710.0	4678.2	4660.8	4650.6	4647.7
17.5°	4639.0	4641.9	4660.8	4684.0	4705.7	4736.1	4730.3	4698.4	4669.5	4650.6	4646.3
20°	4649.2	4650.6	4679.6	4712.9	4750.6	4779.6	4766.5	4731.8	4692.6	4663.7	4656.4
22.5°	4668.0	4673.8	4710.0	4762.2	4820.1	4859.3	4843.3	4783.9	4723.1	4686.8	4676.7
25°	4727.4	4728.9	4778.1	4849.1	4918.7	4963.6	4944.7	4860.7	4782.5	4741.9	4728.9
27.5°	4850.6	4854.9	4904.2	4986.7	5046.1	5075.1	5063.5	4995.4	4928.8	4885.3	4889.7
30°	5028.8	5034.6	5089.6	5180.9	5217.1	5224.4	5221.5	5189.6	5128.7	5070.8	5075.1
32.5°	5246.1	5249.0	5322.9	5405.5	5434.4	5440.2	5434.4	5405.5	5333.0	5254.8	5259.1
35°	5525.7	5534.4	5605.4	5685.1	5708.2	5719.8	5709.7	5672.0	5596.7	5519.9	5517.0
37.5°	5870.5	5872.0	5945.9	6028.4	6057.4	6060.3	6048.7	6024.1	5929.9	5860.4	5856.0
40°	6270.4	6276.2	6363.1	6451.5	6463.1	6450.0	6466.0	6451.5	6354.4	6274.7	6287.8
42.5°	6757.2	6770.2	6874.5	6961.5	6928.1	6920.9	6931.0	6935.4	6857.1	6760.1	6751.4
45°	7323.7	7335.2	7465.6	7535.2	7513.4	7465.6	7485.9	7520.7	7412.0	7291.8	7303.4
47.5°	7969.8	7998.8	8137.9	8203.1	8149.5	8084.3	8123.4	8175.5	8048.1	7898.8	7891.6
50°	8688.4	8724.6	8910.1	9001.4	8947.8	8827.5	8892.7	8927.5	8743.5	8550.8	8534.8
52.5°	9454.8	9491.0	9724.3	9912.6	9877.9	9691.0	9782.3	9746.0	9534.5	9275.2	9254.9
55°	10322.7	10337.1	10589.2	10893.5	10928.3	10790.6	10784.8	10725.4	10412.5	10112.6	10098.1
57.5°	11215.1	11225.3	11551.2	11910.5	12074.2	12074.2	11912.0	11785.9	11370.1	11022.4	10986.2
60°	12178.6	12214.8	12575.5	13063.8	13446.3	13559.3	13272.4	12929.0	12477.0	12052.5	12010.5
62.5°	13036.2	13078.3	13630.3	14357.5	14971.8	15383.3	14682.1	14122.8	13299.9	12619.0	12539.3
65°	13144.9	13257.9	14062.0	15378.9	16753.9	17575.3	16230.8	14853.0	13353.5	12407.5	12326.3
67.5°	12004.7	12195.9	13282.5	15332.6	18173.7	19936.9	17220.4	14435.8	12391.5	11345.5	11255.7
70°	9224.5	9502.6	10755.8	13411.5	17928.8	20697.5	16600.3	12637.8	10331.4	9205.6	9079.6
72.5°	5060.6	5175.1	6302.3	9183.9	14373.5	17588.4	13846.1	9344.7	6851.3	5575.0	5363.4
75°	1605.3	1645.8	2219.6	3758.2	8130.6	11649.8	8795.6	4586.9	2525.2	1861.7	1840.0
77.5°	712.8	717.2	802.6	1096.7	2800.5	5902.4	3364.1	1248.9	860.6	751.9	776.6
80°	450.6	450.6	496.9	543.3	762.1	1713.9	909.8	594.0	507.1	470.9	481.0
82.5°	215.9	239.1	323.1	347.7	418.7	576.6	466.5	388.3	339.0	252.1	234.7
85°	142.0	118.8	204.3	230.4	243.4	276.7	270.9	256.4	221.7	126.0	140.5
87.5°	63.7	60.8	105.8	97.1	91.3	69.5	104.3	128.9	124.6	62.3	62.3
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)