

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: P317244

Luminaire Tested: **GLEON-SA0B-827-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42504 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

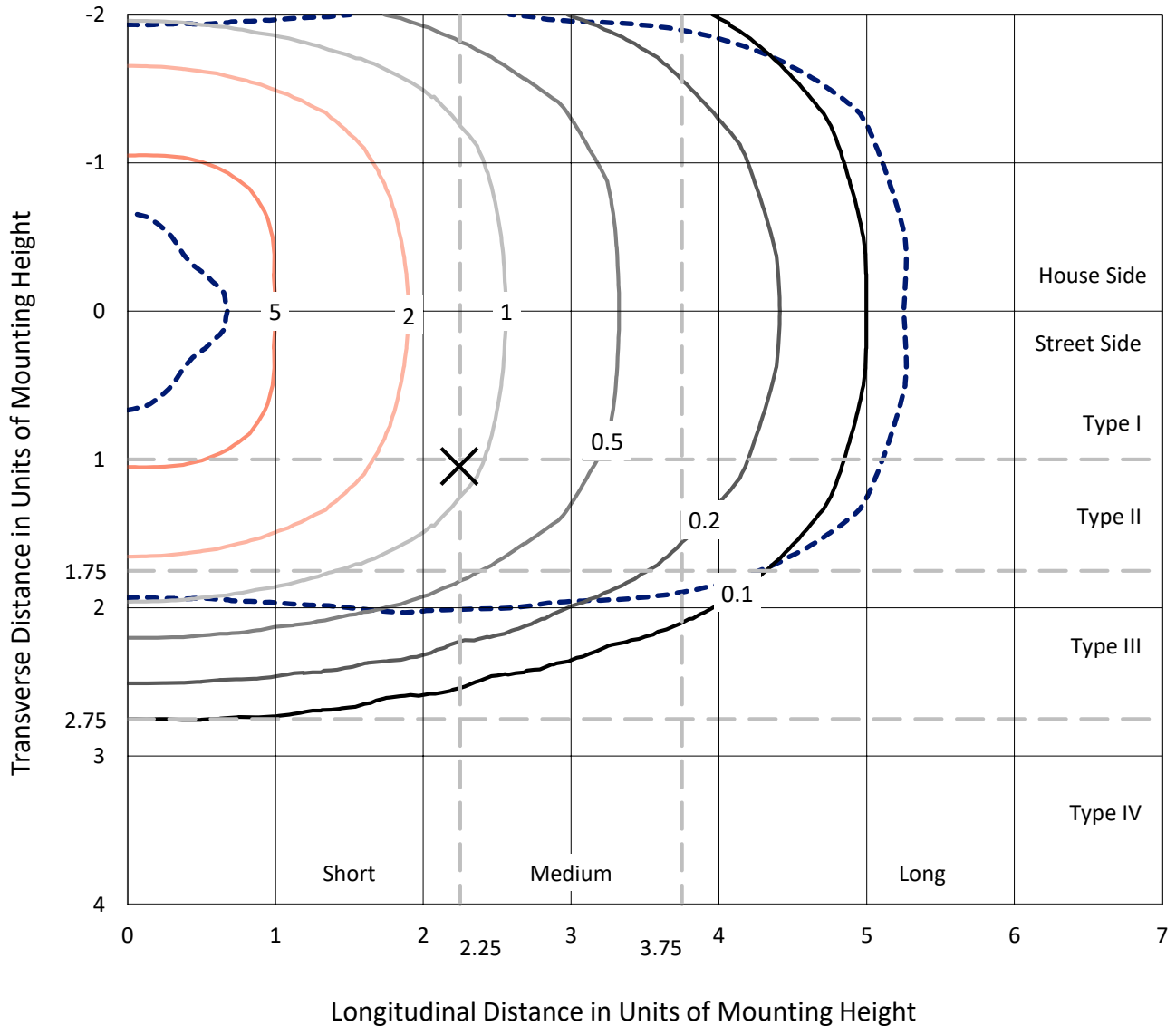
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

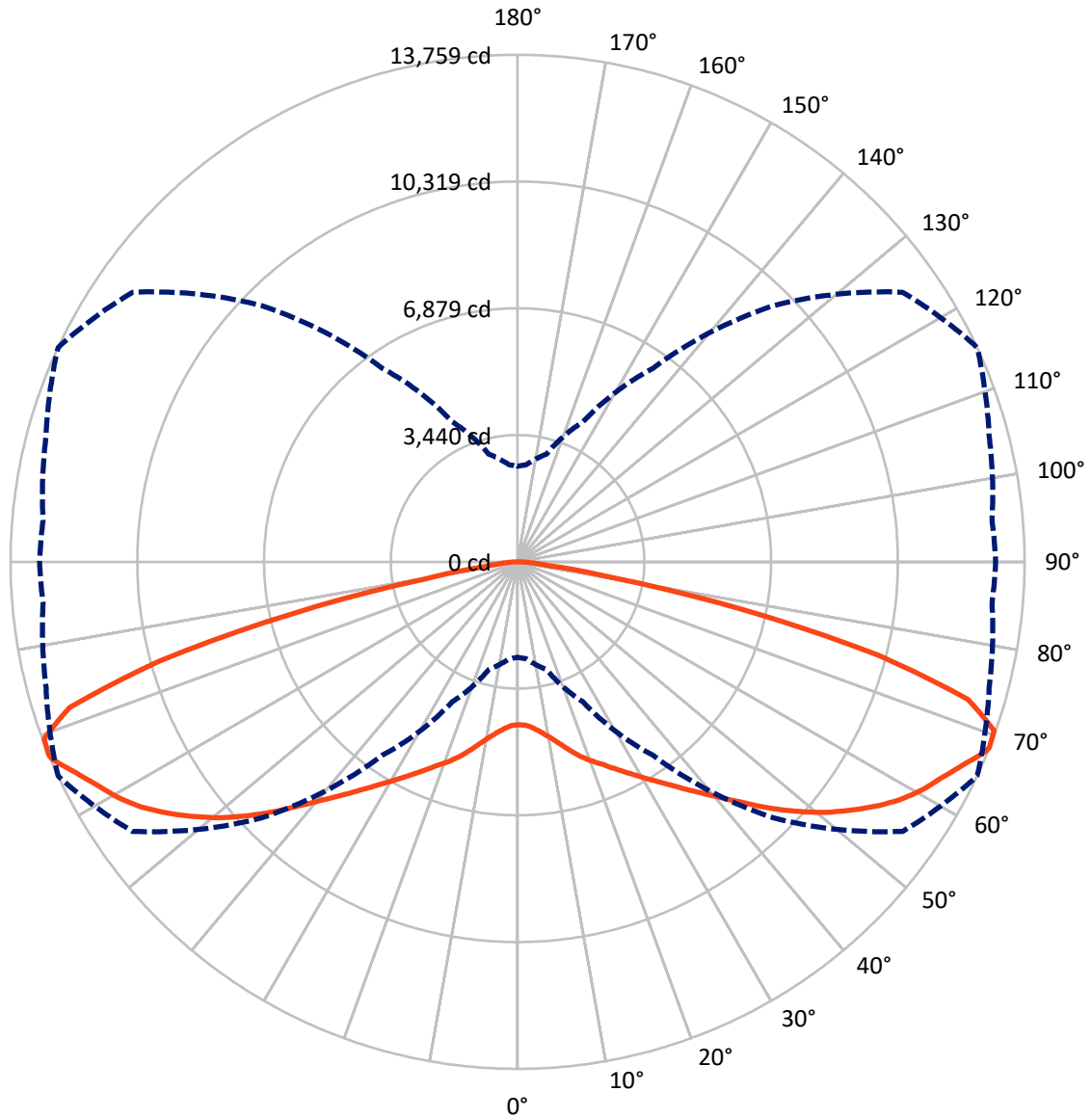
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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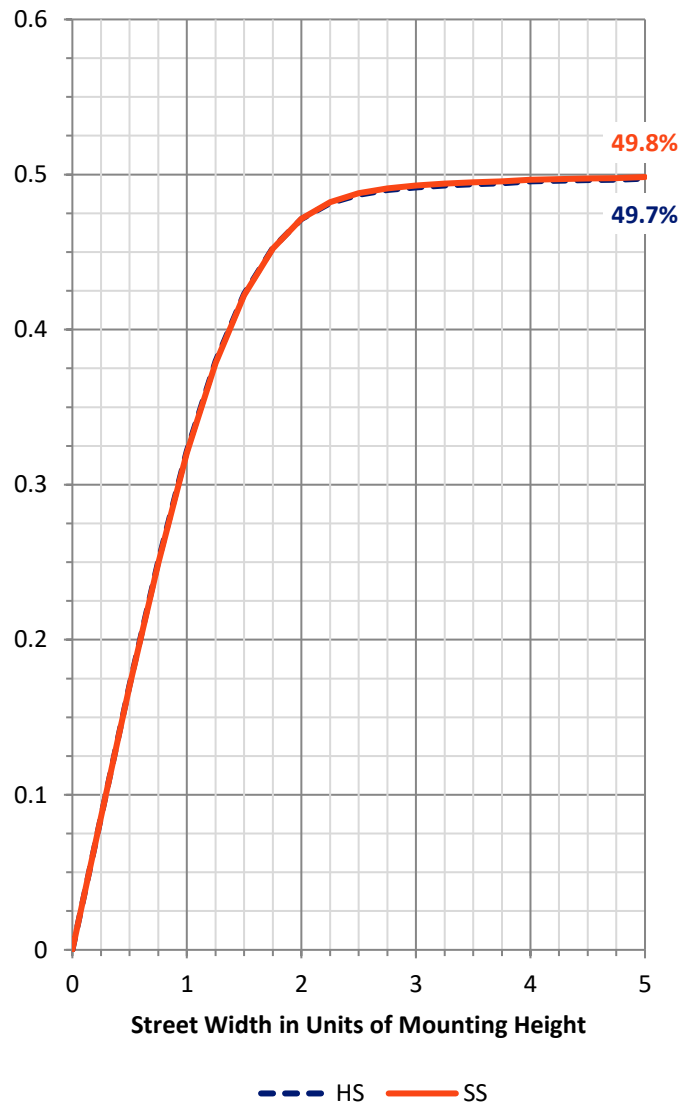
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21252.0	0.0	21252.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21252.0	0.0	21252.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42504.0	0.0	42504.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.7	1.0
10°-20°	1448.8	3.4
20°-30°	2824.9	6.6
30°-40°	4745.5	11.2
40°-50°	7477.3	17.6
50°-60°	9999.6	23.5
60°-70°	9720.9	22.9
70°-80°	5313.9	12.5
80°-90°	540.4	1.3
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°	42504.0	100.0
0°-180°	42504.0	100.0

**Coefficient of Utilization**



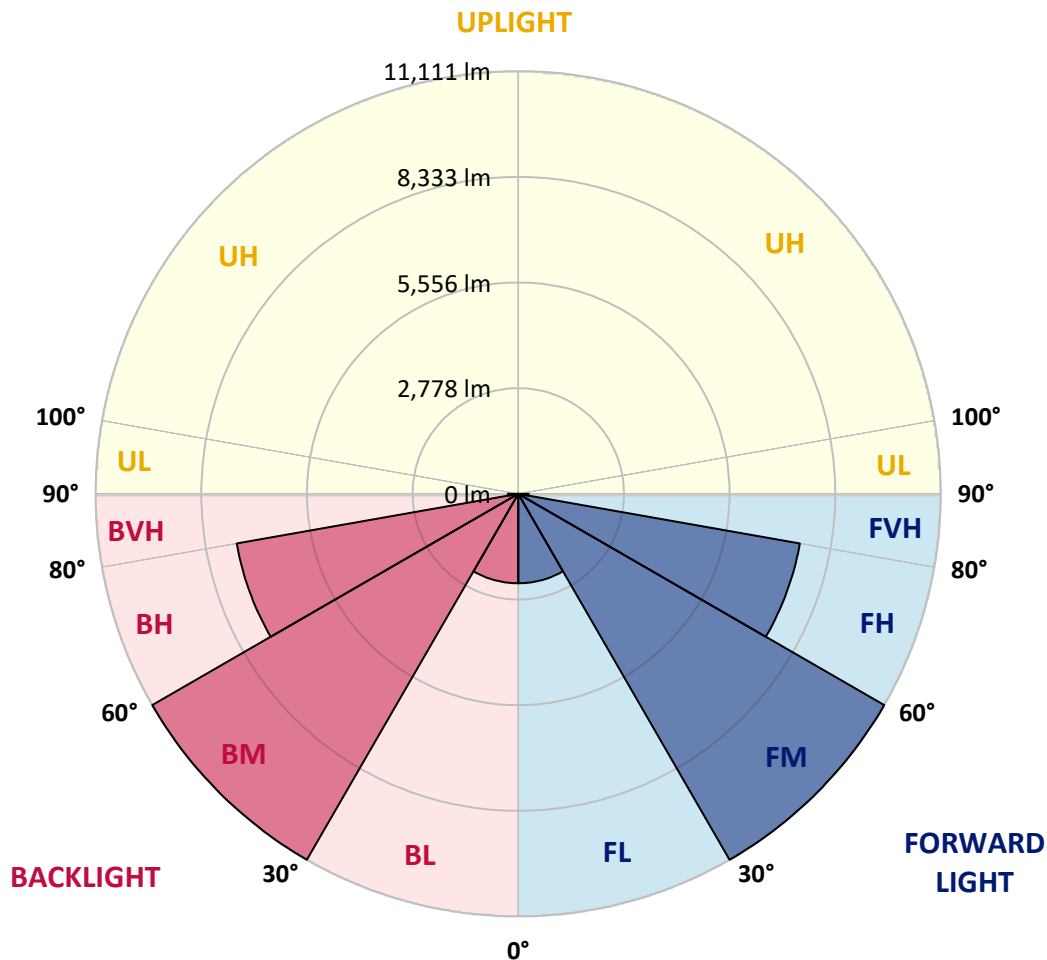
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2353.2	5.5			
FM (30°-60°)	11111.2	26.1			
FH (60°-80°)	7517.4	17.7			G4/12000
FVH (80°-90°)	270.2	0.6			G3/500
BL (0°-30°)	2353.2	5.5	B3/2500		
BM (30°-60°)	11111.2	26.1	B5		
BH (60°-80°)	7517.4	17.7	B5		G5
BVH (80°-90°)	270.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4419.4	4419.4	4419.4	4419.4	4419.4	4419.4	4419.4	4419.4	4419.4	4419.4	4419.4
2.5°	4388.1	4389.5	4396.6	4405.2	4412.3	4430.8	4435.1	4442.2	4445.1	4452.2	4452.2
5°	4349.6	4352.4	4369.5	4392.3	4418.0	4463.6	4496.4	4533.4	4552.0	4571.9	4570.5
7.5°	4345.3	4352.4	4376.7	4413.7	4456.5	4532.0	4600.4	4674.5	4724.4	4770.0	4767.2
10°	4389.5	4400.9	4435.1	4490.7	4554.8	4648.9	4750.1	4849.8	4936.7	5006.6	5009.4
12.5°	4456.5	4470.7	4524.9	4609.0	4705.9	4827.0	4946.7	5059.3	5179.0	5283.1	5291.6
15°	4544.8	4563.4	4644.6	4770.0	4918.2	5062.2	5190.4	5305.9	5444.1	5588.0	5602.3
17.5°	4675.9	4701.6	4808.5	4978.1	5173.3	5331.5	5465.5	5552.4	5667.9	5816.1	5843.1
20°	4875.5	4908.2	5043.6	5246.0	5484.0	5649.3	5751.9	5770.5	5827.5	5960.0	5991.4
22.5°	5134.8	5163.3	5314.4	5555.3	5821.8	6001.3	6055.5	5981.4	5975.7	6082.6	6112.5
25°	5424.2	5449.8	5625.1	5895.9	6182.3	6380.4	6379.0	6235.1	6135.3	6218.0	6249.3
27.5°	5749.1	5789.0	5957.2	6242.2	6548.6	6743.8	6732.4	6510.1	6320.6	6342.0	6369.0
30°	6122.5	6166.7	6330.6	6619.9	6926.3	7117.2	7103.0	6809.4	6524.4	6467.4	6487.3
32.5°	6585.7	6638.4	6793.7	7078.8	7349.5	7522.0	7480.7	7134.3	6769.5	6645.5	6664.0
35°	7142.9	7174.2	7338.1	7618.9	7838.4	7956.7	7869.7	7510.6	7080.2	6930.5	6930.5
37.5°	7707.3	7731.5	7915.3	8187.5	8399.9	8462.6	8293.0	7922.5	7486.4	7274.0	7278.3
40°	8248.8	8314.4	8521.0	8800.4	9009.9	9027.0	8801.8	8392.8	7938.1	7718.7	7744.3
42.5°	8814.6	8878.7	9125.3	9441.7	9626.9	9655.4	9391.8	8920.1	8448.3	8270.2	8298.7
45°	9319.1	9370.4	9655.4	10023.1	10254.0	10328.1	10016.0	9524.3	8999.9	8826.0	8833.1
47.5°	9671.1	9738.1	10051.6	10484.9	10821.2	10935.2	10628.8	10112.9	9542.9	9331.9	9350.5
50°	9990.4	10026.0	10343.8	10817.0	11244.5	11479.7	11217.4	10694.4	10091.5	9867.8	9887.7
52.5°	10168.5	10214.1	10521.9	11015.0	11521.0	11900.1	11740.5	11217.4	10621.7	10403.7	10427.9
55°	10044.5	10078.7	10447.8	11059.2	11692.0	12159.5	12183.7	11729.1	11141.9	10950.9	11019.3
57.5°	9480.2	9522.9	9973.3	10774.2	11713.4	12334.7	12517.2	12203.6	11627.9	11472.5	11512.4
60°	8598.0	8625.1	9105.3	10006.0	11297.2	12407.4	12729.5	12591.3	12103.9	11948.5	12002.7
62.5°	7026.0	7065.9	7640.3	8847.4	10417.9	12192.2	12934.7	12911.9	12547.1	12404.6	12453.0
65°	4802.8	4872.6	5508.2	7034.6	9062.6	11533.8	13121.4	13285.3	12939.0	12759.4	12823.6
67.5°	2900.2	2951.5	3411.8	4644.6	6934.8	10205.6	12929.0	13710.0	13215.5	12926.2	12978.9
68°	2592.4	2639.4	3024.2	4191.4	6414.6	9830.7	12753.7	13758.5	13245.4	12923.3	12970.4
70°	1566.2	1597.6	1855.6	2590.9	4276.9	7798.5	11558.0	13718.6	13436.4	12963.2	12990.3
72.5°	1020.4	1030.4	1073.1	1329.7	2184.8	4361.0	8674.9	12783.7	13722.8	13195.5	13191.3
75°	848.0	842.3	846.5	876.5	1077.4	1912.6	5069.3	10098.7	13081.5	12829.3	12739.5
77.5°	716.9	712.6	711.2	712.6	721.1	923.5	2200.4	6290.6	10010.3	11348.5	11428.3
80°	580.0	574.3	592.9	584.3	558.7	574.3	922.1	2616.6	4718.7	5076.4	4757.2
82.5°	421.8	400.5	480.3	457.5	436.1	404.7	508.8	845.1	1125.9	772.4	543.0
85°	324.9	302.1	364.8	350.6	299.3	206.6	302.1	413.3	456.1	260.8	205.2
87.5°	132.5	139.7	263.7	208.1	175.3	99.8	124.0	165.3	222.3	111.2	85.5
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)