

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: P316604

Luminaire Tested: **GLEON-SA0B-827-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316604  
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-SA0B-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43682 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

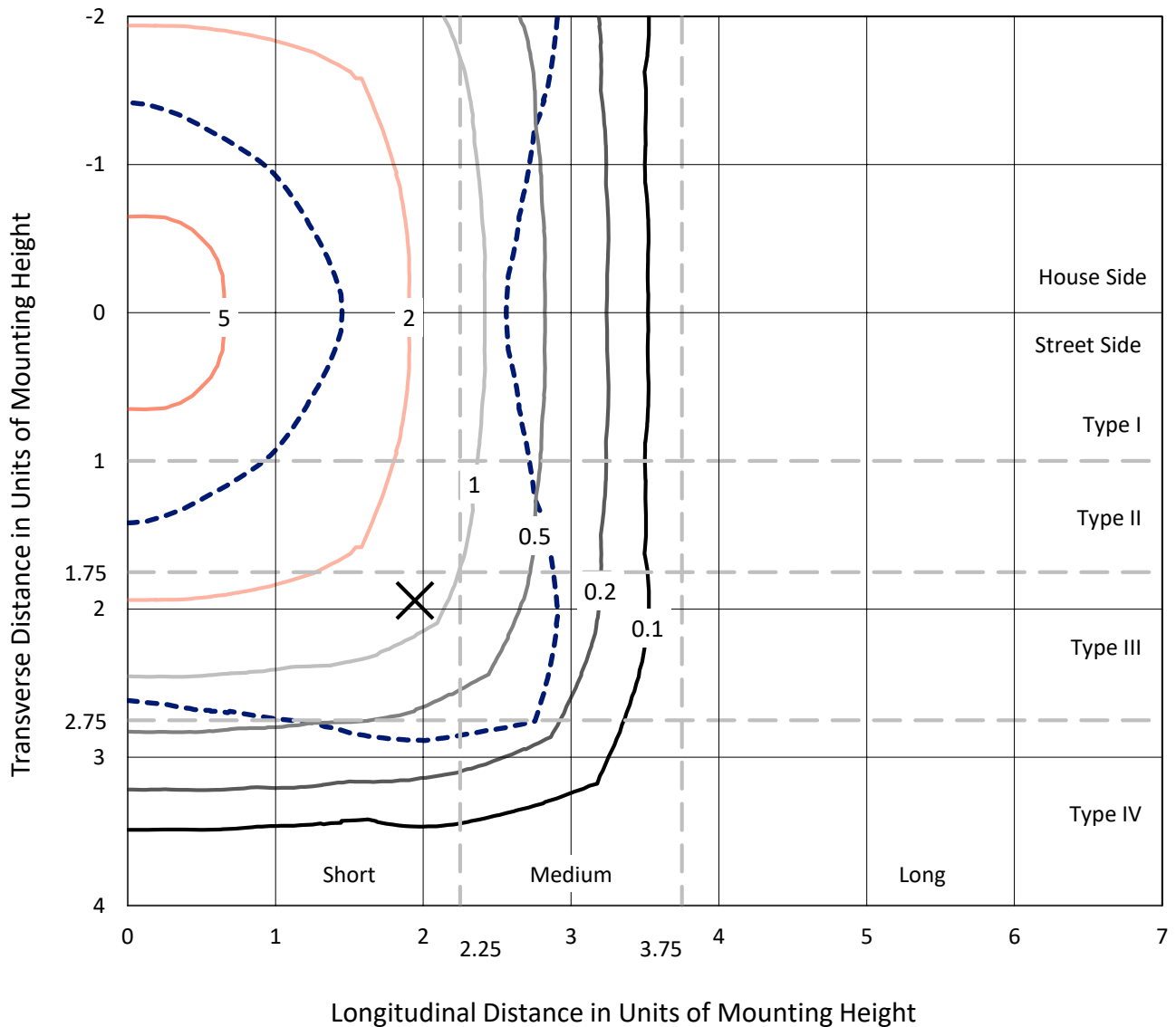
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

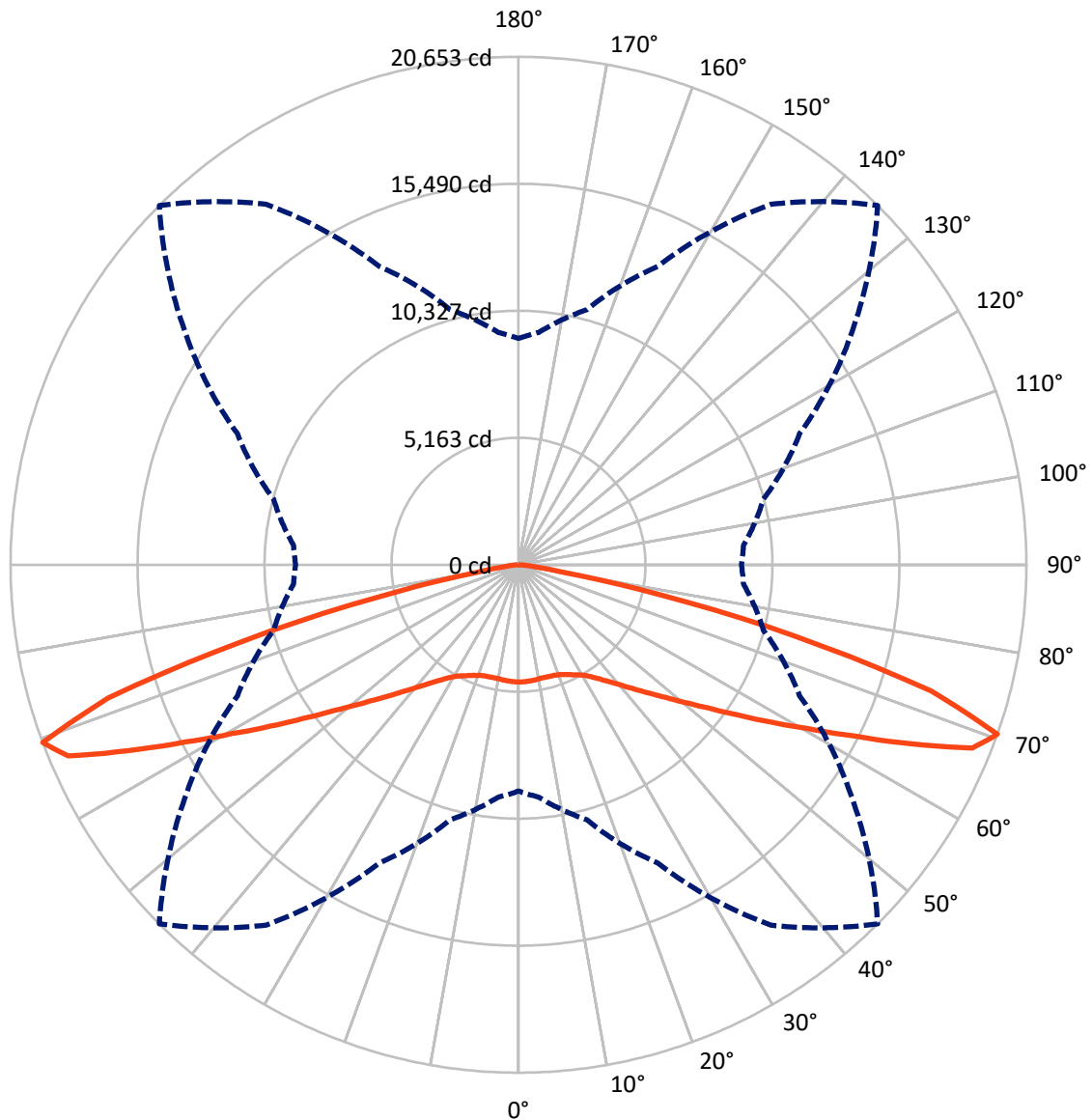
✕ Max cd  
 - - - 1/2 Max cd



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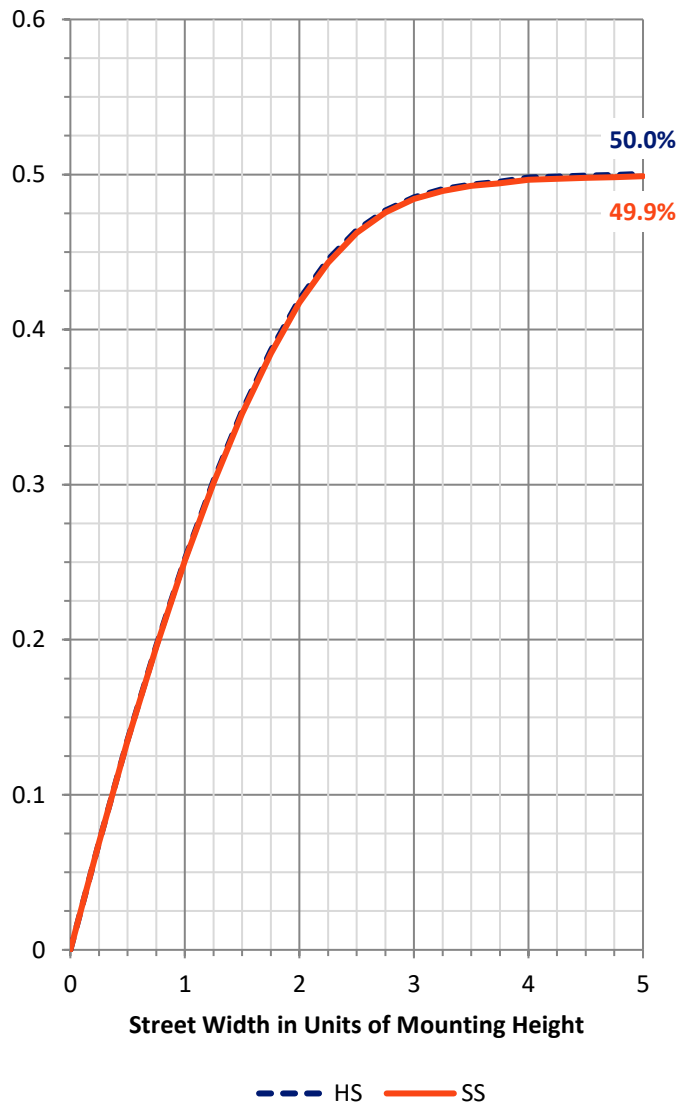
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21841.0	0.0	21841.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21841.0	0.0	21841.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43682.0	0.0	43682.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.8	1.0
10°-20°	1326.5	3.0
20°-30°	2258.1	5.2
30°-40°	3581.3	8.2
40°-50°	5827.9	13.3
50°-60°	9609.2	22.0
60°-70°	14106.6	32.3
70°-80°	6237.9	14.3
80°-90°	282.5	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°	43682.0	100.0
0°-180°	43682.0	100.0

**Coefficient of Utilization**

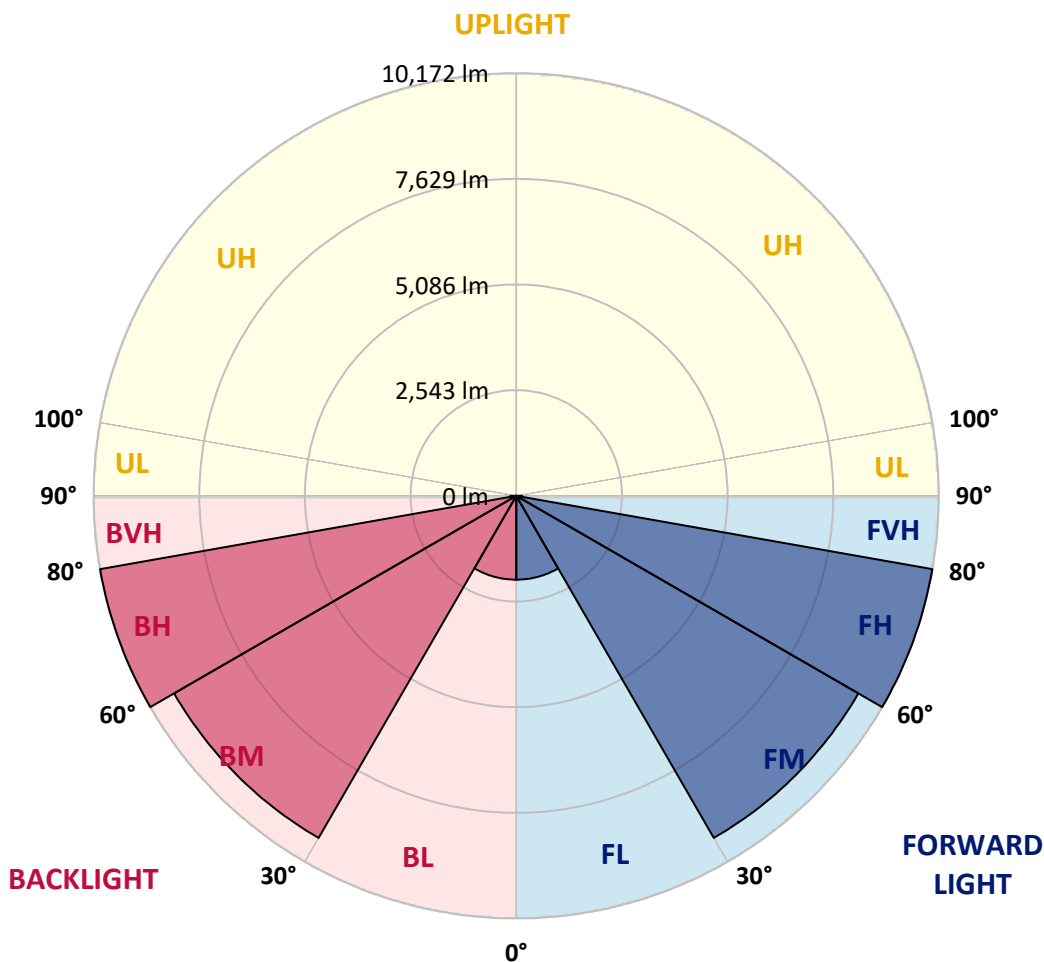


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2018.2	4.6			
FM (30°-60°)	9509.3	21.8			
FH (60°-80°)	10172.3	23.3			G4/12000
FVH (80°-90°)	141.2	0.3			G2/225
BL (0°-30°)	2018.2	4.6	B3/2500		
BM (30°-60°)	9509.3	21.8	B5		
BH (60°-80°)	10172.3	23.3	B5		G4/12000
BVH (80°-90°)	141.2	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°	4770.8	4770.8	4770.8	4770.8	4770.8	4770.8	4770.8	4770.8	4770.8	4770.8	4770.8
2.5°	4763.5	4759.2	4769.3	4767.9	4759.2	4760.6	4760.6	4765.0	4765.0	4762.1	4762.1
5°	4746.2	4743.3	4754.9	4754.9	4746.2	4749.1	4752.0	4756.3	4754.9	4752.0	4750.5
7.5°	4724.5	4723.0	4734.6	4734.6	4728.8	4731.7	4728.8	4730.3	4727.4	4724.5	4720.2
10°	4688.4	4691.2	4701.4	4704.3	4704.3	4705.7	4702.8	4695.6	4691.2	4686.9	4682.6
12.5°	4655.1	4653.7	4668.1	4675.3	4686.9	4699.9	4691.2	4671.0	4662.3	4653.7	4650.8
15°	4633.4	4634.9	4649.3	4662.3	4682.6	4710.0	4699.9	4668.1	4650.8	4640.6	4637.8
17.5°	4629.1	4632.0	4650.8	4673.9	4695.6	4725.9	4720.2	4688.4	4659.4	4640.6	4636.3
20°	4639.2	4640.6	4669.6	4702.8	4740.4	4769.3	4756.3	4721.6	4682.6	4653.7	4646.4
22.5°	4658.0	4663.8	4699.9	4752.0	4809.8	4848.8	4832.9	4773.6	4712.9	4676.8	4666.7
25°	4717.3	4718.7	4767.9	4838.7	4908.1	4952.9	4934.1	4850.3	4772.2	4731.7	4718.7
27.5°	4840.1	4844.5	4893.6	4976.0	5035.3	5064.2	5052.7	4984.7	4918.2	4874.8	4879.2
30°	5018.0	5023.7	5078.7	5169.8	5205.9	5213.1	5210.2	5178.4	5117.7	5059.9	5064.2
32.5°	5234.8	5237.7	5311.4	5393.8	5422.8	5428.5	5422.8	5393.8	5321.6	5243.5	5247.8
35°	5513.8	5522.5	5593.3	5672.9	5696.0	5707.6	5697.4	5659.8	5584.7	5508.1	5505.2
37.5°	5857.9	5859.4	5933.1	6015.5	6044.4	6047.3	6035.7	6011.2	5917.2	5847.8	5843.5
40°	6256.9	6262.7	6349.4	6437.6	6449.2	6436.2	6452.1	6437.6	6340.8	6261.3	6274.3
42.5°	6742.7	6755.7	6859.8	6946.5	6913.3	6906.0	6916.1	6920.5	6842.4	6745.6	6736.9
45°	7307.9	7319.5	7449.6	7519.0	7497.3	7449.6	7469.8	7504.5	7396.1	7276.1	7287.7
47.5°	7952.7	7981.6	8120.4	8185.5	8132.0	8066.9	8105.9	8158.0	8030.8	7881.9	7874.6
50°	8669.8	8705.9	8891.0	8982.0	8928.5	8808.5	8873.6	8908.3	8724.7	8532.4	8516.5
52.5°	9434.5	9470.7	9703.4	9891.4	9856.7	9670.2	9761.3	9725.1	9514.0	9255.3	9235.0
55°	10300.5	10314.9	10566.5	10870.1	10904.8	10767.4	10761.7	10702.4	10390.1	10090.9	10076.4
57.5°	11191.0	11201.2	11526.4	11885.0	12048.3	12048.3	11886.4	11760.6	11345.7	10998.8	10962.6
60°	12152.4	12188.6	12548.5	13035.7	13417.4	13530.1	13243.9	12901.3	12450.2	12026.6	11984.7
62.5°	13008.3	13050.2	13601.0	14326.7	14939.7	15350.3	14650.6	14092.5	13271.4	12591.9	12512.4
65°	13116.7	13229.4	14031.8	15345.9	16717.9	17537.6	16196.0	14821.1	13324.9	12380.8	12299.9
67.5°	11978.9	12169.8	13254.0	15299.7	18134.6	19894.0	17183.4	14404.8	12364.9	11321.1	11231.5
70°	9204.7	9482.2	10732.8	13382.7	17890.3	20653.0	16564.6	12610.7	10309.2	9185.9	9060.1
72.5°	5049.8	5164.0	6288.7	9164.2	14342.6	17550.6	13816.4	9324.7	6836.6	5563.0	5351.9
75°	1601.8	1642.3	2214.8	3750.1	8113.2	11624.7	8776.7	4577.0	2519.8	1857.7	1836.0
77.5°	711.3	715.6	800.9	1094.4	2794.5	5889.7	3356.9	1246.2	858.7	750.3	774.9
80°	449.6	449.6	495.9	542.1	760.4	1710.2	907.9	592.7	506.0	469.8	480.0
82.5°	215.4	238.5	322.4	347.0	417.8	575.4	465.5	387.4	338.3	251.5	234.2
85°	141.7	118.5	203.8	229.9	242.9	276.1	270.3	255.9	221.2	125.8	140.2
87.5°	63.6	60.7	105.5	96.9	91.1	69.4	104.1	128.7	124.3	62.2	62.2
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)