

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: P317239

Luminaire Tested: **GLEON-SA5B-827-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317239  
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-SA5B-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 21463 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

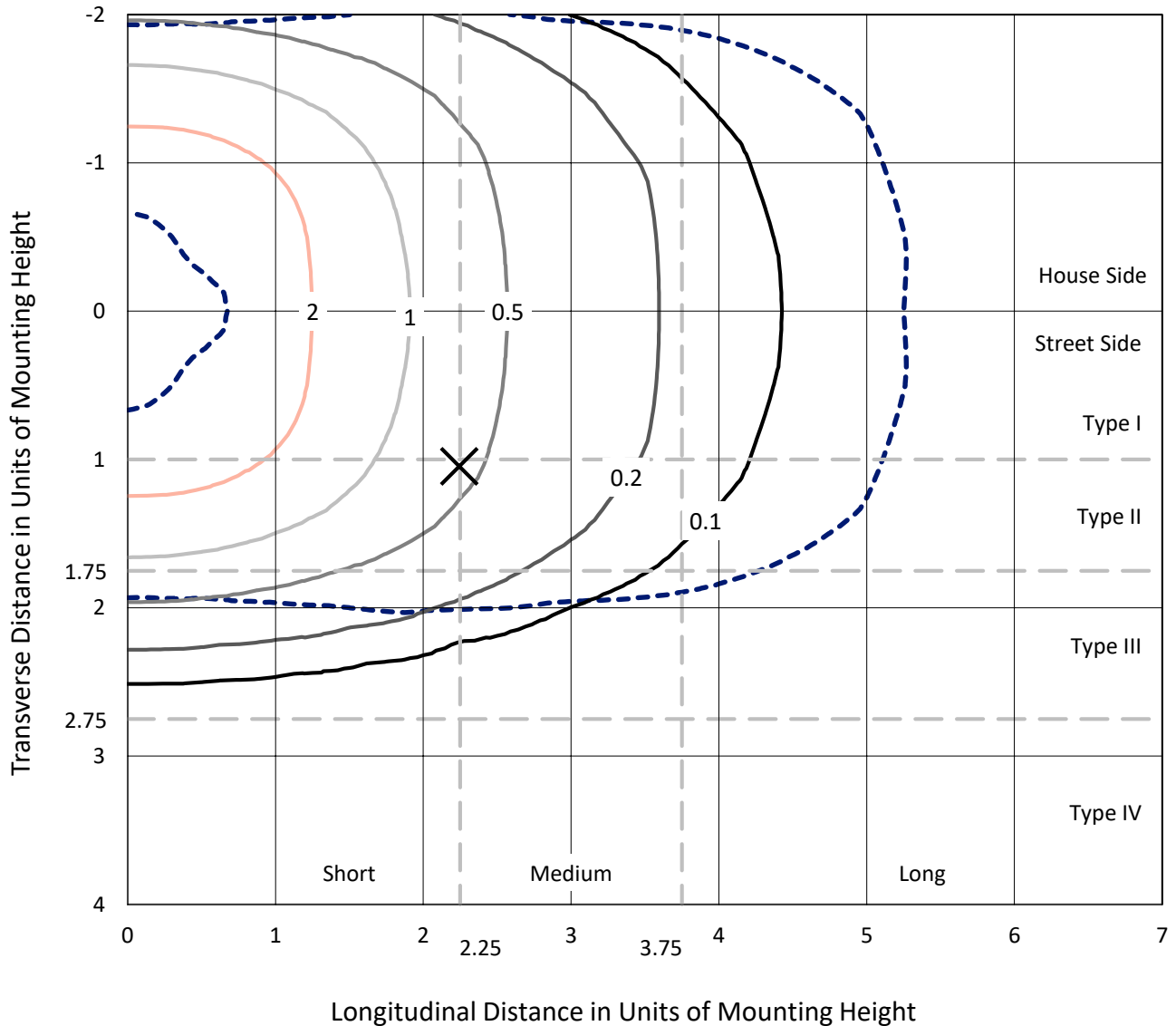
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

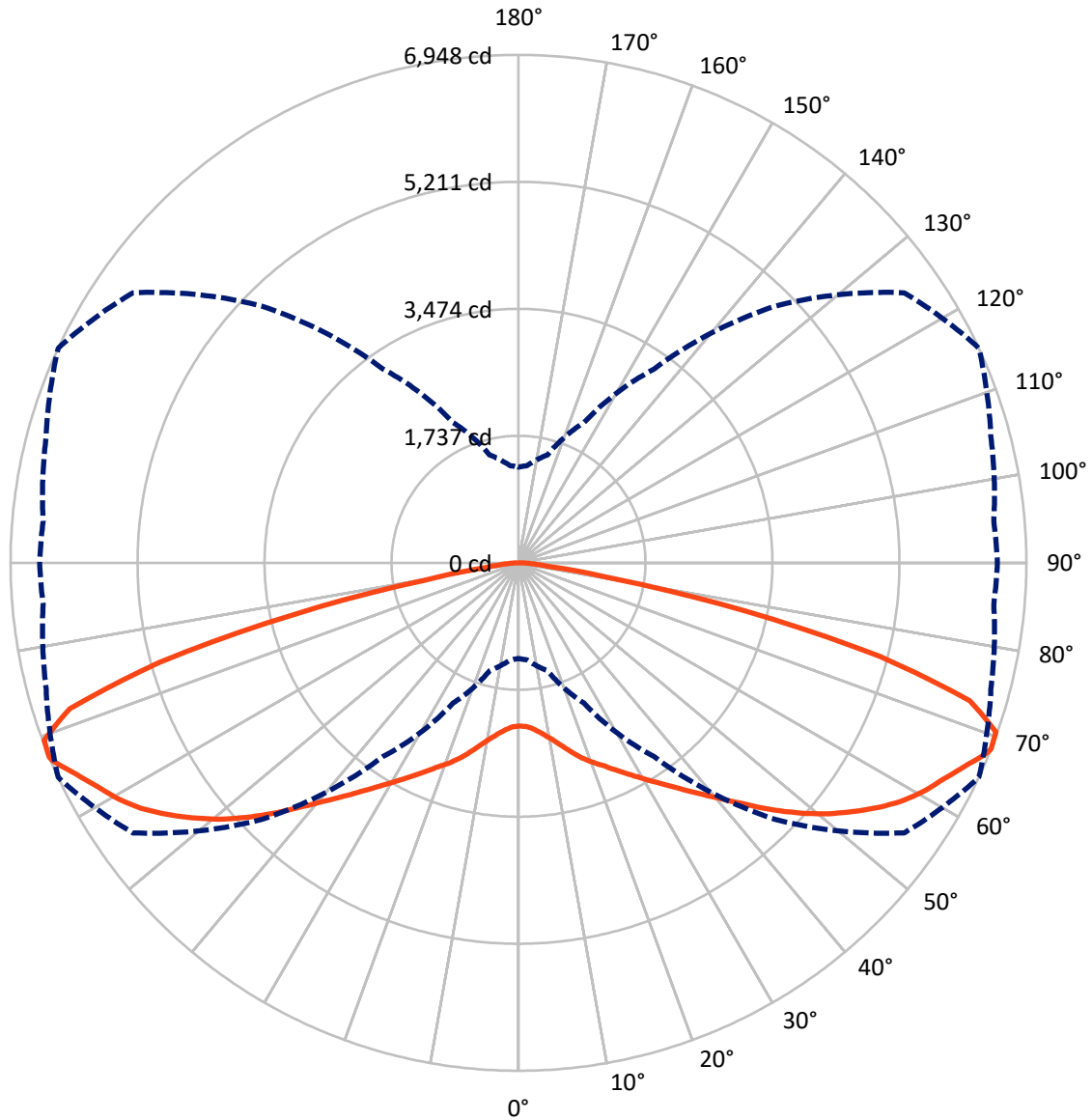
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	10731.5	0.0	10731.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10731.5	0.0	10731.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21463.0	0.0	21463.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.5	1.0
10°-20°	731.6	3.4
20°-30°	1426.5	6.6
30°-40°	2396.3	11.2
40°-50°	3775.8	17.6
50°-60°	5049.4	23.5
60°-70°	4908.7	22.9
70°-80°	2683.3	12.5
80°-90°	272.9	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°	21463.0	100.0
0°-180°	21463.0	100.0

**Coefficient of Utilization**

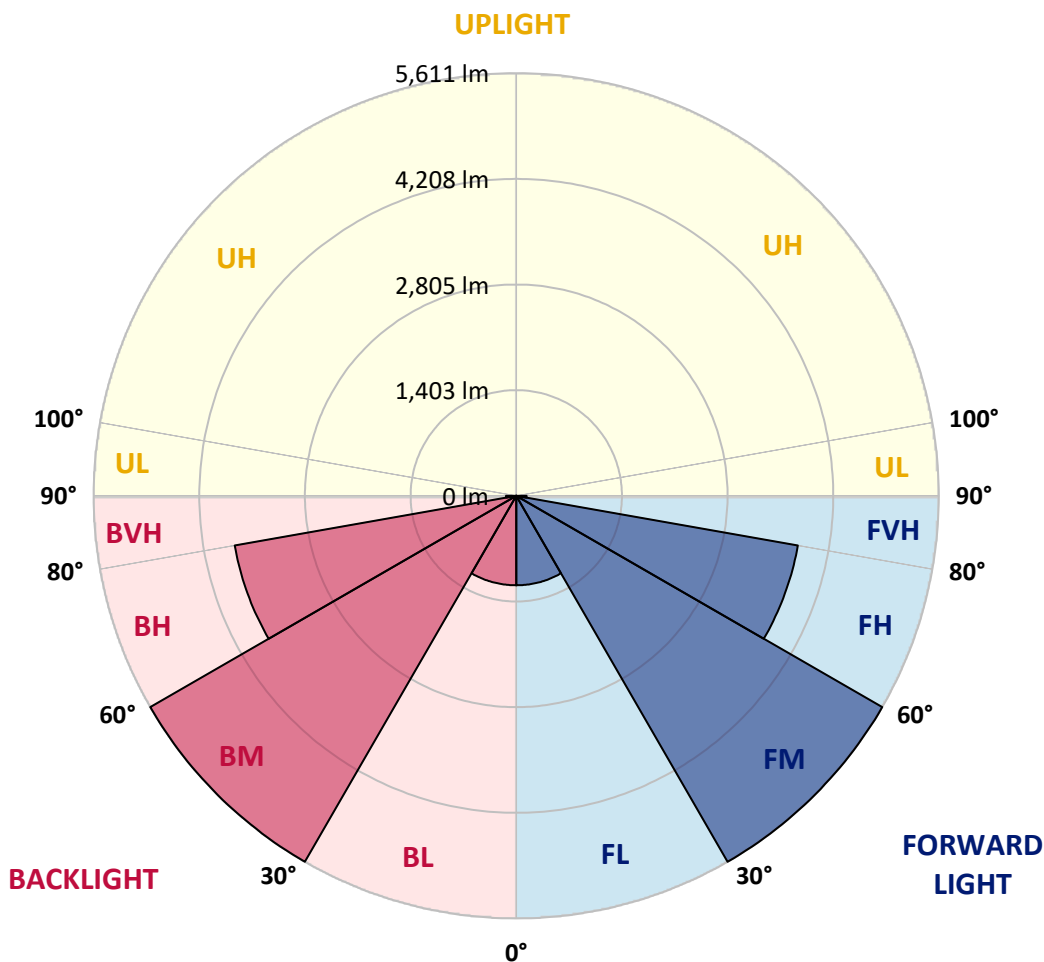


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.3	5.5			
FM (30°-60°)	5610.8	26.1			
FH (60°-80°)	3796.0	17.7			G2/5000
FVH (80°-90°)	136.4	0.6			G2/225
BL (0°-30°)	1188.3	5.5	B3/2500		
BM (30°-60°)	5610.8	26.1	B4/8500		
BH (60°-80°)	3796.0	17.7	B4/5000		G4/5000
BVH (80°-90°)	136.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6
2.5°	2215.8	2216.5	2220.1	2224.5	2228.0	2237.4	2239.6	2243.2	2244.6	2248.2	2248.2
5°	2196.4	2197.8	2206.5	2218.0	2230.9	2254.0	2270.5	2289.2	2298.6	2308.6	2307.9
7.5°	2194.2	2197.8	2210.1	2228.8	2250.4	2288.5	2323.0	2360.5	2385.7	2408.7	2407.2
10°	2216.5	2222.3	2239.6	2267.6	2300.0	2347.5	2398.6	2449.0	2492.9	2528.1	2529.6
12.5°	2250.4	2257.6	2284.9	2327.4	2376.3	2437.5	2497.9	2554.8	2615.2	2667.8	2672.1
15°	2295.0	2304.3	2345.4	2408.7	2483.5	2556.2	2621.0	2679.3	2749.1	2821.8	2829.0
17.5°	2361.2	2374.1	2428.1	2513.8	2612.3	2692.2	2759.9	2803.8	2862.1	2936.9	2950.6
20°	2461.9	2478.5	2546.9	2649.0	2769.2	2852.7	2904.5	2913.9	2942.7	3009.6	3025.4
22.5°	2592.9	2607.3	2683.6	2805.2	2939.8	3030.5	3057.8	3020.4	3017.5	3071.5	3086.6
25°	2739.0	2752.0	2840.5	2977.2	3121.9	3221.9	3221.2	3148.5	3098.1	3139.9	3155.7
27.5°	2903.1	2923.2	3008.2	3152.1	3306.8	3405.4	3399.6	3287.4	3191.7	3202.5	3216.1
30°	3091.6	3113.9	3196.7	3342.8	3497.5	3594.0	3586.8	3438.5	3294.6	3265.8	3275.9
32.5°	3325.5	3352.1	3430.6	3574.5	3711.3	3798.3	3777.5	3602.6	3418.4	3355.7	3365.1
35°	3606.9	3622.7	3705.5	3847.3	3958.1	4017.8	3973.9	3792.6	3575.2	3499.7	3499.7
37.5°	3891.9	3904.1	3997.0	4134.4	4241.6	4273.3	4187.7	4000.6	3780.3	3673.1	3675.3
40°	4165.4	4198.5	4302.8	4443.9	4549.7	4558.3	4444.6	4238.0	4008.5	3897.6	3910.6
42.5°	4451.1	4483.4	4607.9	4767.7	4861.3	4875.7	4742.5	4504.3	4266.1	4176.2	4190.5
45°	4705.8	4731.7	4875.7	5061.3	5177.9	5215.3	5057.7	4809.4	4544.6	4456.8	4460.4
47.5°	4883.6	4917.4	5075.7	5294.5	5464.3	5521.9	5367.2	5106.7	4818.8	4712.3	4721.6
50°	5044.8	5062.8	5223.2	5462.2	5678.1	5796.8	5664.4	5400.3	5095.9	4982.9	4993.0
52.5°	5134.7	5157.8	5313.2	5562.2	5817.7	6009.1	5928.5	5664.4	5363.6	5253.5	5265.7
55°	5072.1	5089.4	5275.8	5584.5	5904.0	6140.1	6152.3	5922.8	5626.3	5529.8	5564.4
57.5°	4787.1	4808.7	5036.1	5440.6	5914.8	6228.6	6320.7	6162.4	5871.7	5793.2	5813.4
60°	4341.7	4355.3	4597.9	5052.7	5704.7	6265.3	6427.9	6358.1	6112.0	6033.6	6060.9
62.5°	3547.9	3568.0	3858.1	4467.6	5260.7	6156.6	6531.6	6520.1	6335.8	6263.9	6288.3
65°	2425.2	2460.5	2781.5	3552.2	4576.3	5824.2	6625.9	6708.6	6533.7	6443.1	6475.4
67.5°	1464.5	1490.4	1722.9	2345.4	3501.8	5153.4	6528.7	6923.1	6673.4	6527.3	6553.9
68°	1309.1	1332.8	1527.1	2116.5	3239.2	4964.2	6440.2	6947.5	6688.5	6525.8	6549.6
70°	790.9	806.7	937.0	1308.3	2159.7	3937.9	5836.4	6927.4	6784.9	6546.0	6559.6
72.5°	515.3	520.3	541.9	671.4	1103.2	2202.1	4380.5	6455.3	6929.5	6663.3	6661.1
75°	428.2	425.3	427.5	442.6	544.1	965.8	2559.8	5099.5	6605.7	6478.3	6433.0
77.5°	362.0	359.8	359.1	359.8	364.1	466.3	1111.1	3176.6	5054.8	5730.6	5770.9
80°	292.9	290.0	299.4	295.1	282.1	290.0	465.6	1321.3	2382.8	2563.4	2402.2
82.5°	213.0	202.2	242.5	231.0	220.2	204.4	256.9	426.8	568.5	390.1	274.2
85°	164.1	152.6	184.2	177.0	151.1	104.3	152.6	208.7	230.3	131.7	103.6
87.5°	66.9	70.5	133.1	105.1	88.5	50.4	62.6	83.5	112.3	56.1	43.2
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)