

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: P316919

Luminaire Tested: **GLEON-SA5B-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
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-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21658 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

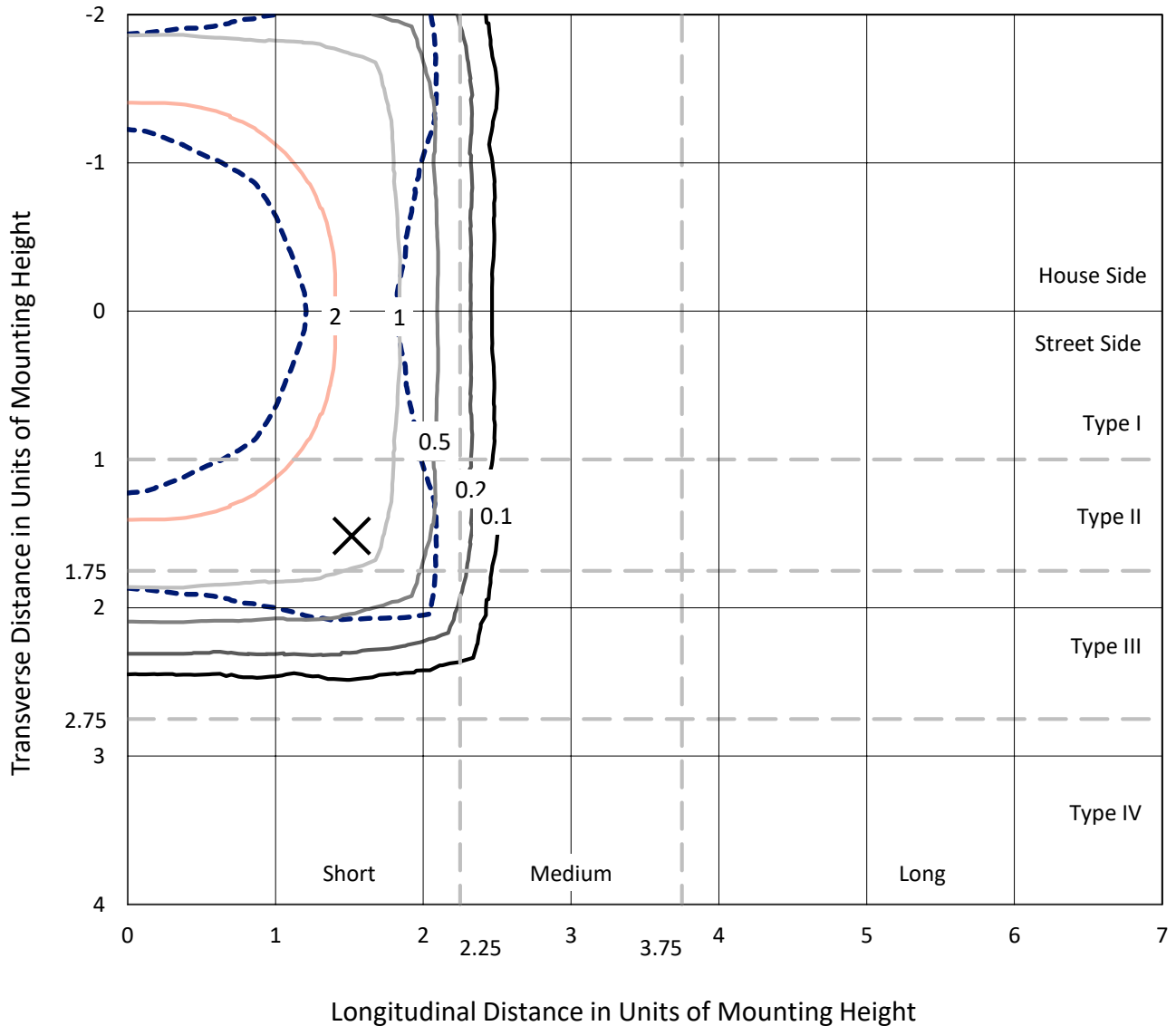
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

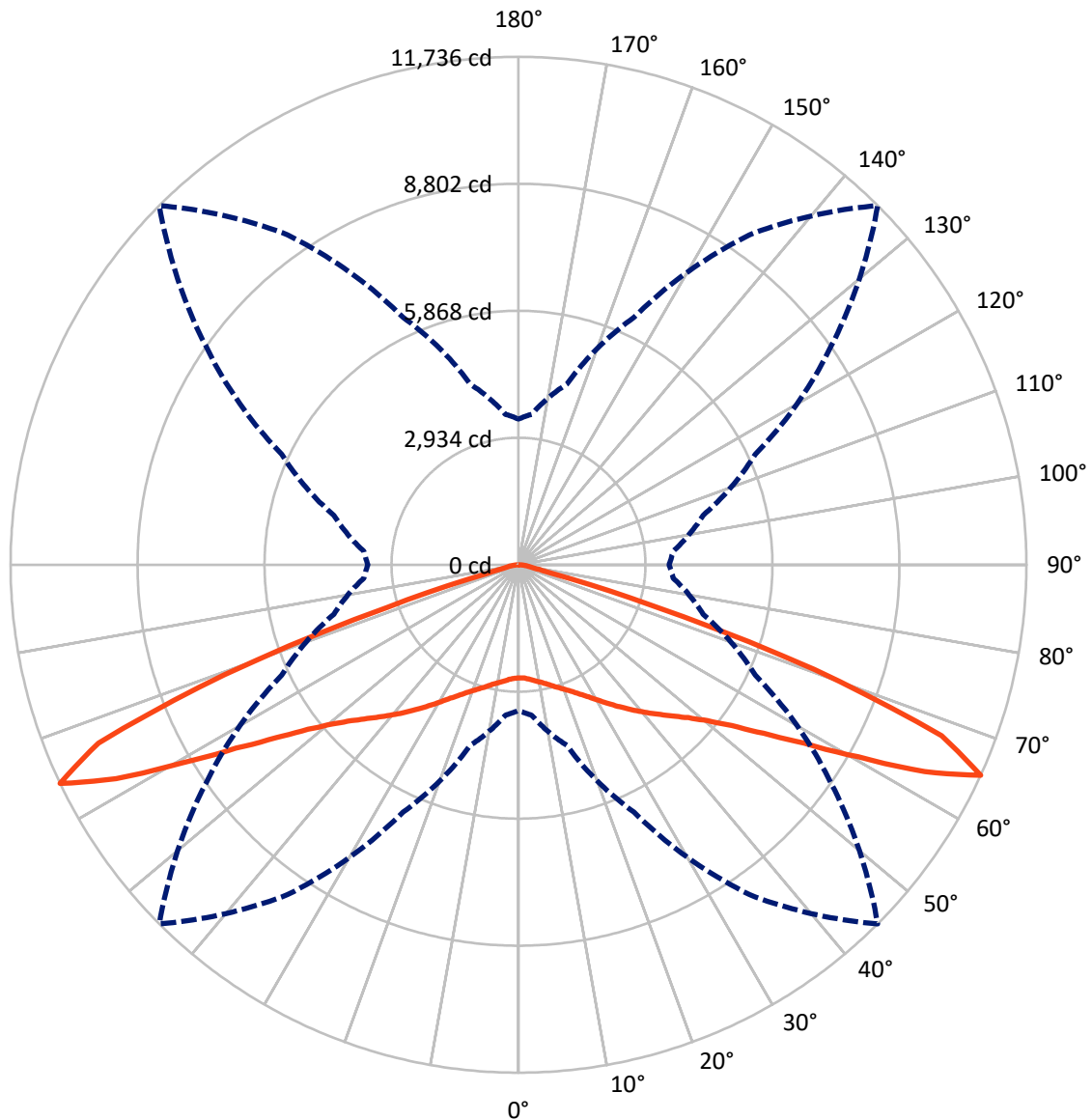
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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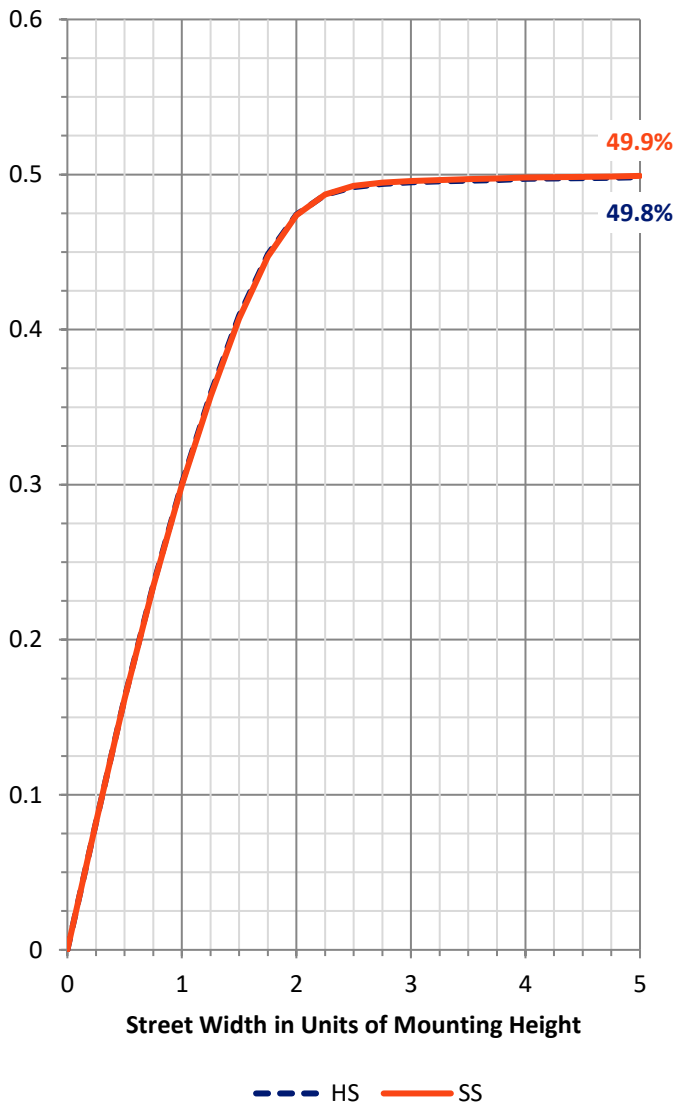
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10829.0	0.0	10829.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10829.0	0.0	10829.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21658.0	0.0	21658.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.6	1.2
10°-20°	824.8	3.8
20°-30°	1547.5	7.1
30°-40°	2559.3	11.8
40°-50°	3964.0	18.3
50°-60°	6079.7	28.1
60°-70°	5673.0	26.2
70°-80°	660.3	3.0
80°-90°	92.8	0.4
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°	21658.0	100.0
0°-180°	21658.0	100.0

**Coefficient of Utilization**



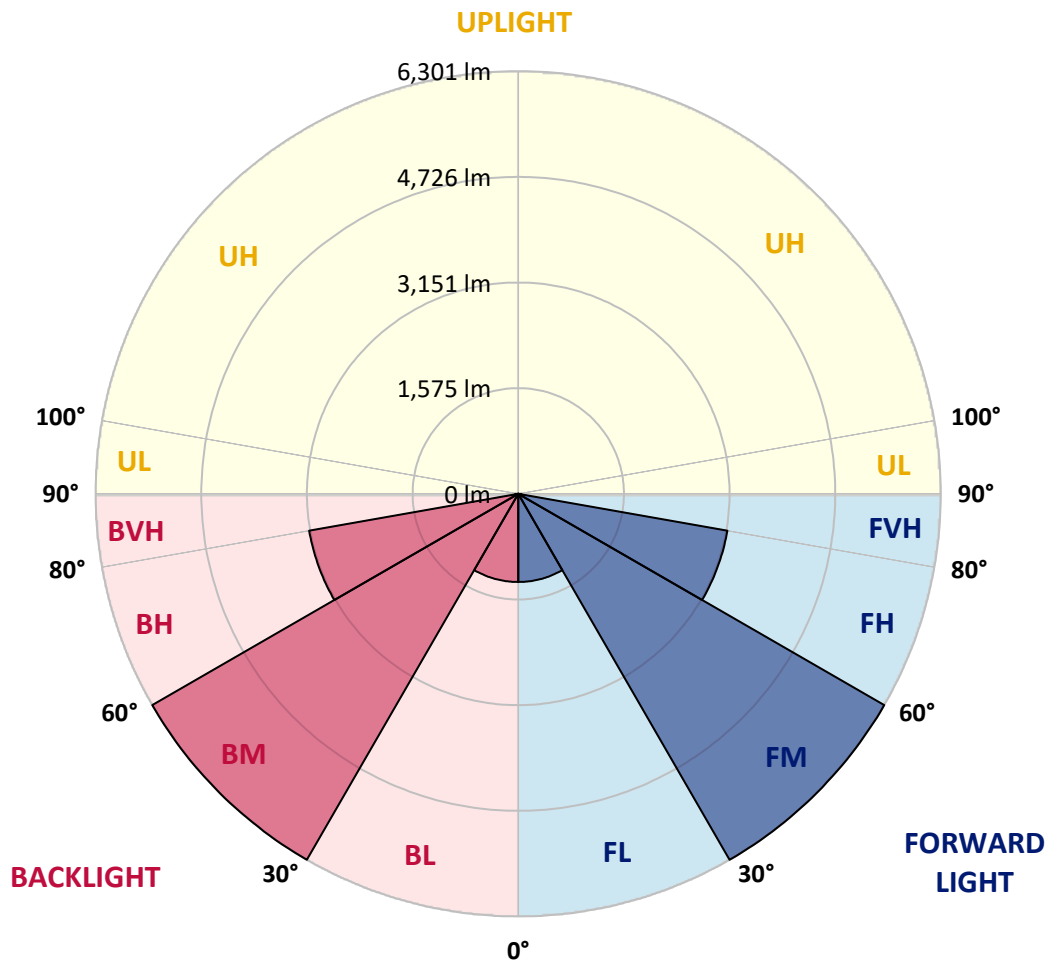
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1314.5	6.1			
FM (30°-60°)	6301.5	29.1			
FH (60°-80°)	3166.6	14.6			G2/5000
FVH (80°-90°)	46.4	0.2			G1/100
BL (0°-30°)	1314.5	6.1	B3/2500		
BM (30°-60°)	6301.5	29.1	B4/8500		
BH (60°-80°)	3166.6	14.6	B4/5000		G2/5000
BVH (80°-90°)	46.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2615.5	2615.5	2615.5	2615.5	2615.5	2615.5	2615.5	2615.5	2615.5	2615.5	2615.5
2.5°	2624.1	2622.7	2624.1	2624.8	2620.5	2622.7	2621.9	2625.5	2627.0	2625.5	2625.5
5°	2654.3	2652.1	2655.0	2658.6	2652.9	2654.3	2652.1	2656.5	2657.9	2655.0	2657.2
7.5°	2696.0	2696.7	2699.6	2706.1	2702.5	2705.3	2701.0	2701.7	2701.0	2696.7	2697.4
10°	2741.3	2742.0	2747.0	2755.7	2757.1	2757.1	2754.2	2752.1	2749.2	2746.3	2747.0
12.5°	2795.9	2799.5	2803.1	2813.9	2813.9	2819.7	2818.2	2812.5	2807.4	2803.1	2803.1
15°	2870.0	2869.3	2873.6	2884.4	2889.4	2898.7	2898.7	2890.8	2884.4	2880.0	2878.6
17.5°	2947.6	2949.8	2952.7	2965.6	2973.5	2984.3	2985.7	2979.3	2974.9	2969.2	2965.6
20°	3038.2	3041.8	3053.3	3058.3	3065.5	3075.6	3079.2	3077.8	3073.4	3070.6	3071.3
22.5°	3143.9	3153.2	3160.4	3167.6	3176.2	3183.4	3187.0	3192.1	3187.7	3185.6	3184.2
25°	3271.9	3278.3	3292.7	3305.7	3311.4	3313.6	3317.9	3325.1	3324.3	3319.3	3319.3
27.5°	3417.1	3429.3	3447.3	3466.0	3466.0	3458.8	3473.2	3485.4	3481.1	3474.6	3466.0
30°	3593.2	3604.7	3625.6	3651.5	3638.5	3633.5	3652.9	3675.2	3668.7	3657.9	3656.5
32.5°	3783.0	3793.8	3821.1	3849.2	3832.6	3825.4	3846.3	3878.6	3867.1	3845.6	3832.6
35°	3988.6	3999.4	4038.2	4072.0	4044.0	4031.8	4049.0	4084.3	4064.1	4023.9	4013.8
37.5°	4212.2	4218.0	4268.3	4302.8	4283.4	4251.1	4272.6	4298.5	4281.2	4232.4	4212.9
40°	4444.4	4465.3	4523.5	4563.8	4530.0	4479.0	4514.9	4550.8	4525.0	4462.4	4429.3
42.5°	4715.5	4731.3	4808.9	4844.9	4790.2	4718.4	4767.2	4816.1	4790.2	4729.9	4701.1
45°	4997.3	5021.7	5114.5	5150.4	5071.4	4980.0	5039.7	5125.3	5123.1	5036.1	5005.9
47.5°	5304.3	5328.7	5439.4	5486.9	5401.3	5279.1	5363.2	5484.0	5475.4	5379.8	5355.3
50°	5658.7	5684.6	5822.6	5882.3	5802.5	5660.2	5786.7	5893.1	5877.3	5759.4	5761.5
52.5°	6103.7	6102.3	6274.1	6377.7	6295.7	6169.9	6286.3	6389.9	6324.5	6161.3	6156.2
55°	6493.4	6517.1	6729.9	6926.2	6921.2	6873.0	6919.7	6924.0	6737.1	6520.0	6493.4
57.5°	6749.3	6794.6	7094.4	7449.6	7715.6	7779.6	7689.0	7414.4	6976.5	6629.3	6586.9
60°	6591.9	6660.9	7131.8	7855.8	8639.4	9015.4	8504.3	7652.3	6790.3	6306.5	6249.0
62.5°	5529.3	5645.8	6335.2	7659.5	9434.6	10533.8	9095.2	7270.6	6049.8	5383.4	5284.9
65°	3367.5	3490.4	4321.5	6304.3	9305.9	11735.9	8825.6	6034.7	4415.7	3586.8	3480.4
67.5°	1122.3	1158.2	1647.8	3484.7	7313.7	10544.6	7325.9	3612.6	1921.7	1273.9	1236.6
70°	439.3	442.9	522.7	1010.1	3453.8	7242.5	3811.1	1028.1	546.4	432.1	441.4
72.5°	322.8	324.2	346.5	422.0	900.1	3190.6	932.5	424.2	337.2	302.7	302.7
75°	259.5	259.5	275.4	307.7	403.3	731.9	409.1	304.1	263.8	241.6	238.7
77.5°	204.9	209.2	221.4	242.3	273.2	352.3	283.3	240.8	212.8	192.0	187.6
80°	152.4	156.7	176.9	186.9	196.3	244.4	209.2	188.4	168.2	143.8	139.5
82.5°	99.9	104.2	129.4	135.2	133.0	159.6	140.9	138.8	123.7	92.7	88.4
85°	65.4	66.9	86.3	89.9	82.7	72.6	89.9	94.9	86.3	60.4	58.2
87.5°	30.9	30.9	43.9	41.0	37.4	30.2	41.0	48.2	48.9	29.5	28.8
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)