

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: P316290

Luminaire Tested: **GLEON-SA6C-827-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6C-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32757 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

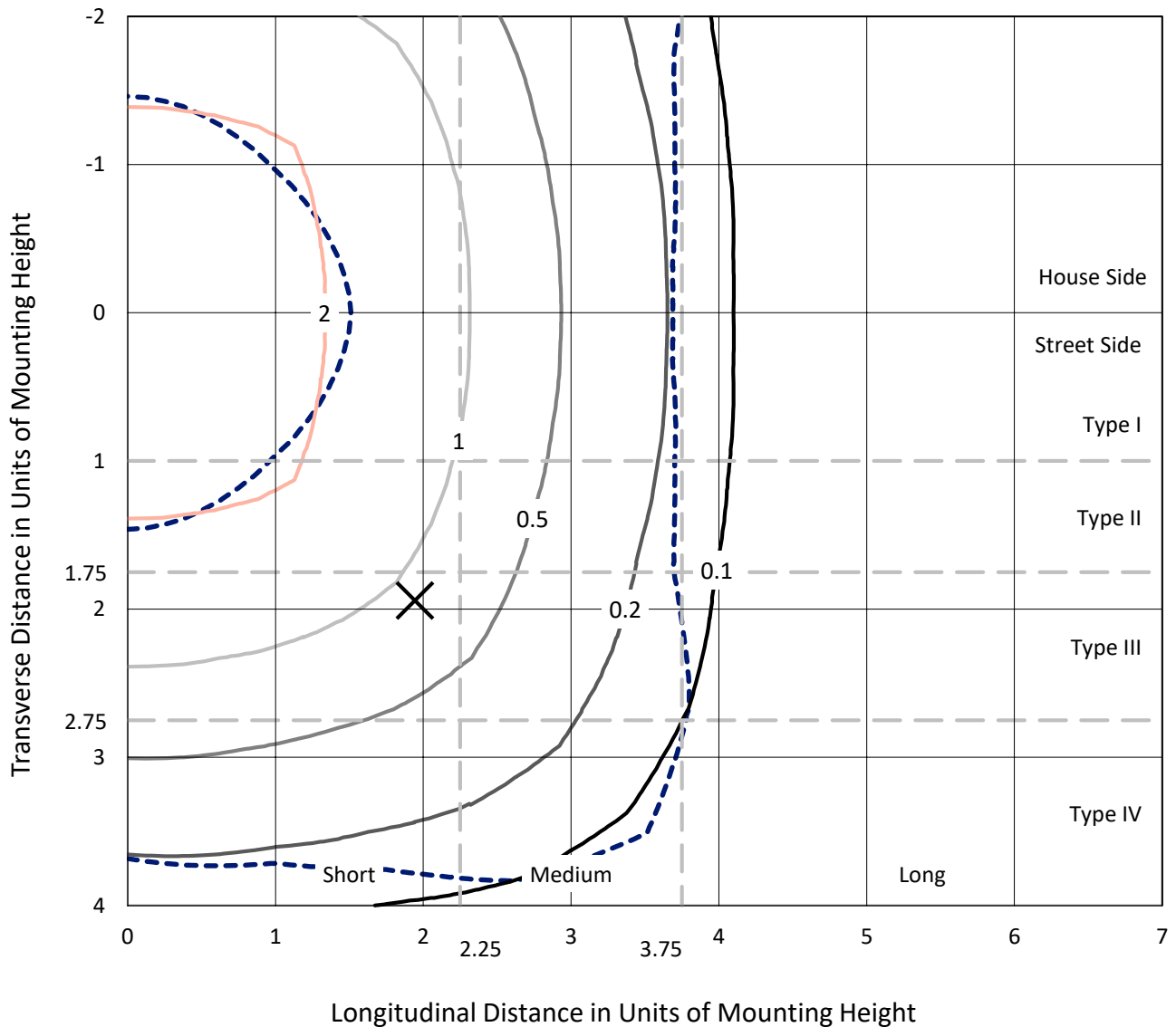
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

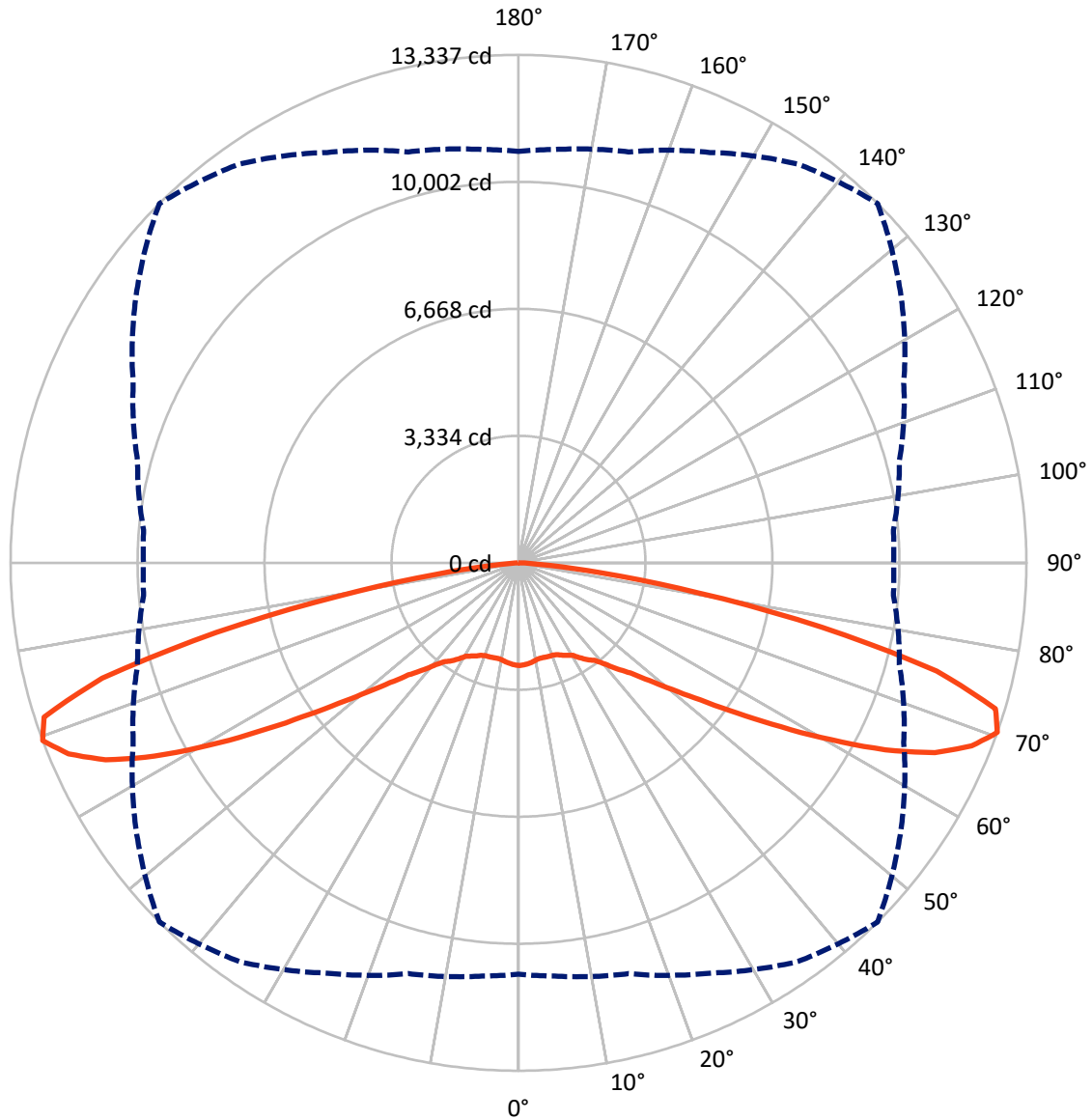
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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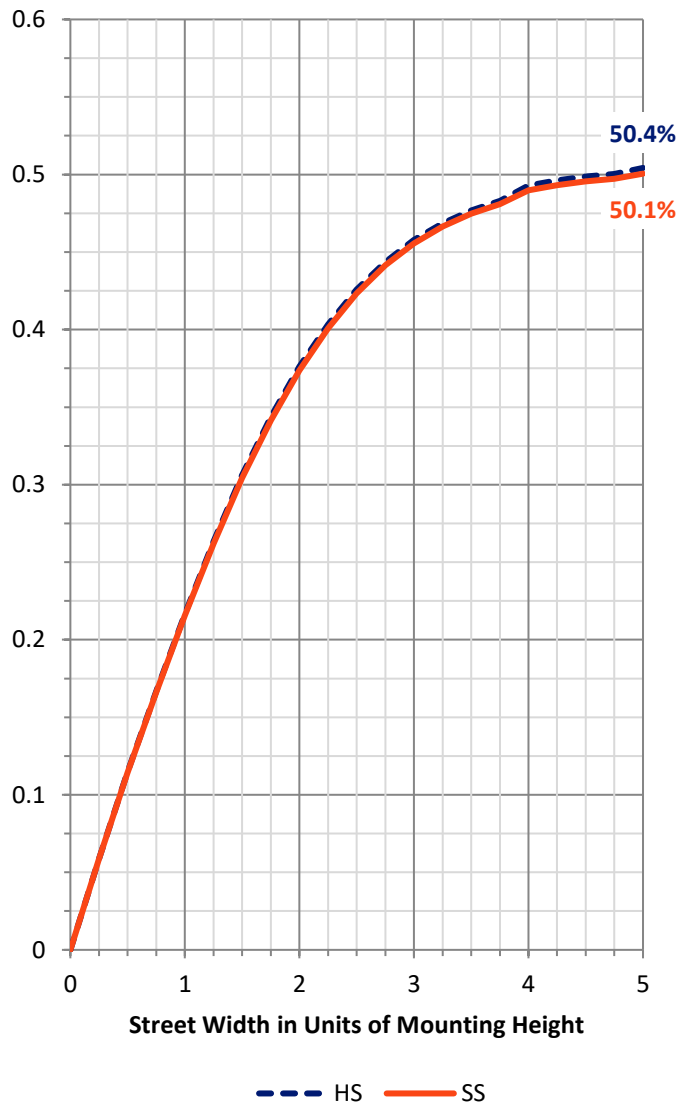
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16378.5	0.0	16378.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16378.5	0.0	16378.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32757.0	0.0	32757.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.6	0.8
10°-20°	735.0	2.2
20°-30°	1253.1	3.8
30°-40°	1958.0	6.0
40°-50°	3318.4	10.1
50°-60°	6051.4	18.5
60°-70°	10417.9	31.8
70°-80°	8166.0	24.9
80°-90°	605.5	1.8
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°	32757.0	100.0
0°-180°	32757.0	100.0

**Coefficient of Utilization**

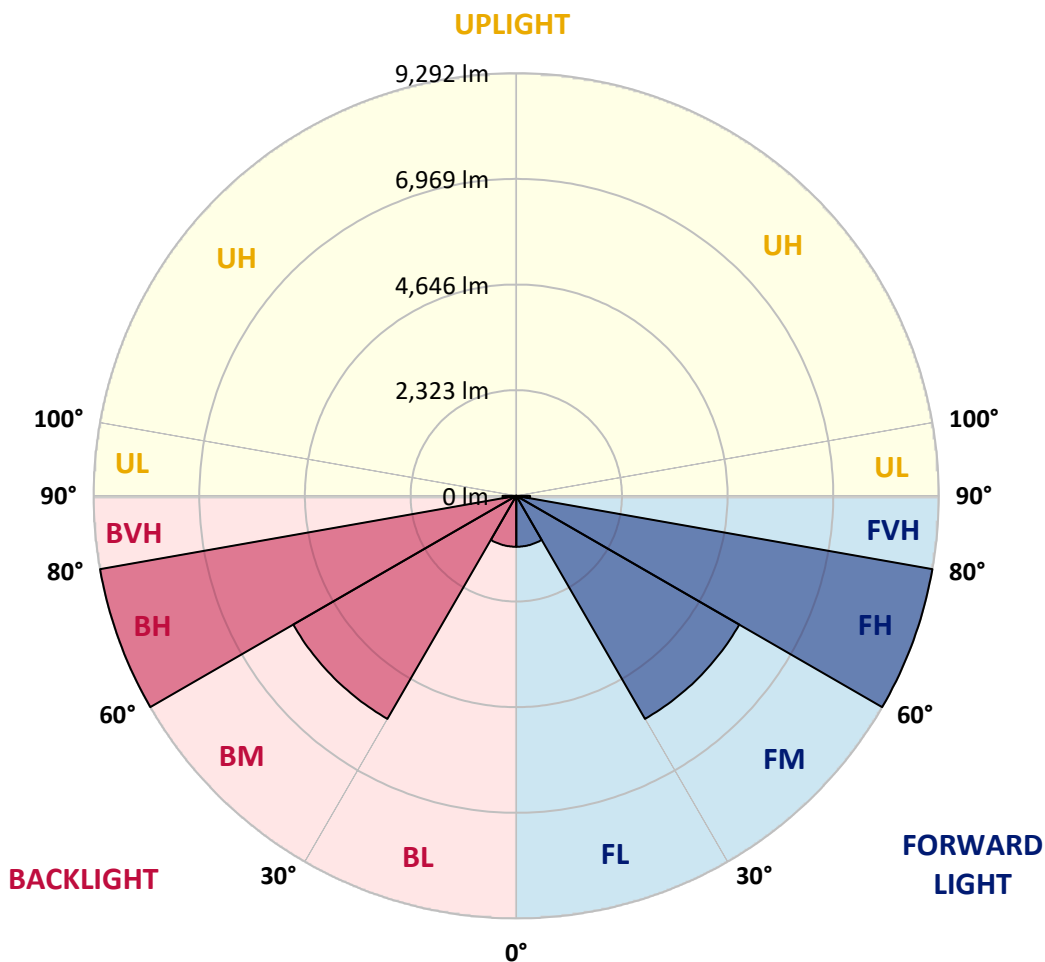


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.9	3.4			
FM (30°-60°)	5663.9	17.3			
FH (60°-80°)	9291.9	28.4			G4/12000
FVH (80°-90°)	302.7	0.9			G3/500
BL (0°-30°)	1119.9	3.4	B3/2500		
BM (30°-60°)	5663.9	17.3	B4/8500		
BH (60°-80°)	9291.9	28.4	B5		G4/12000
BVH (80°-90°)	302.7	0.9			G3/500
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°	2695.9	2695.9	2695.9	2695.9	2695.9	2695.9	2695.9	2695.9	2695.9	2695.9	2695.9
2.5°	2684.0	2687.2	2684.0	2686.2	2680.7	2682.9	2682.9	2682.9	2681.8	2682.9	2680.7
5°	2660.1	2662.3	2658.0	2660.1	2656.9	2660.1	2661.2	2660.1	2658.0	2659.1	2654.7
7.5°	2624.4	2626.6	2623.3	2626.6	2622.2	2627.6	2626.6	2623.3	2620.1	2620.1	2615.7
10°	2604.9	2606.0	2597.3	2594.1	2584.3	2586.5	2589.7	2593.0	2596.2	2602.7	2601.6
12.5°	2606.0	2606.0	2593.0	2578.9	2564.8	2568.0	2573.5	2585.4	2598.4	2610.3	2611.4
15°	2616.8	2615.7	2596.2	2573.5	2563.7	2573.5	2576.7	2584.3	2604.9	2625.5	2626.6
17.5°	2624.4	2624.4	2594.1	2568.0	2567.0	2582.1	2581.0	2584.3	2607.1	2637.4	2638.5
20°	2638.5	2638.5	2599.5	2571.3	2571.3	2587.5	2588.6	2594.1	2616.8	2650.4	2655.8
22.5°	2669.9	2671.0	2629.8	2607.1	2609.2	2619.0	2622.2	2630.9	2651.5	2688.3	2694.8
25°	2714.3	2716.5	2674.2	2661.2	2668.8	2687.2	2685.1	2691.6	2714.3	2750.1	2756.6
27.5°	2776.1	2770.7	2731.7	2726.2	2733.8	2746.8	2745.7	2746.8	2765.3	2797.8	2805.3
30°	2856.3	2854.1	2825.9	2829.2	2825.9	2821.6	2822.7	2831.4	2841.1	2867.1	2874.7
32.5°	2934.3	2936.5	2919.1	2935.4	2959.2	2975.5	2950.5	2926.7	2915.9	2930.0	2936.5
35°	3075.2	3080.6	3053.5	3042.6	3075.2	3122.8	3052.4	3013.4	3035.1	3053.5	3058.9
37.5°	3314.6	3317.9	3272.4	3229.0	3205.2	3250.7	3180.3	3183.5	3259.4	3294.0	3292.9
40°	3587.7	3588.8	3558.4	3520.5	3479.3	3490.2	3462.0	3470.7	3520.5	3551.9	3560.6
42.5°	3912.7	3909.5	3861.8	3807.6	3795.7	3806.6	3758.9	3752.4	3809.8	3866.2	3867.2
45°	4334.3	4326.7	4264.9	4205.3	4147.9	4124.0	4112.1	4143.5	4222.6	4274.7	4275.7
47.5°	4788.3	4767.7	4735.2	4687.5	4637.7	4613.8	4594.3	4609.5	4666.9	4687.5	4689.7
50°	5255.3	5259.6	5266.1	5247.7	5229.3	5221.7	5170.8	5141.5	5158.8	5120.9	5115.5
52.5°	5809.0	5817.7	5880.5	5933.6	5965.0	5981.3	5884.8	5784.1	5727.7	5654.0	5632.4
55°	6462.4	6476.5	6568.6	6715.9	6867.6	6947.8	6773.4	6584.8	6410.4	6272.7	6228.3
57.5°	7190.5	7215.4	7342.2	7625.0	7936.0	8125.6	7830.9	7488.5	7151.5	6953.2	6918.6
60°	8044.4	8068.2	8243.7	8649.0	9152.9	9437.8	8991.4	8431.2	8011.9	7822.2	7758.3
62.5°	9060.8	9062.9	9278.6	9752.1	10417.4	10814.0	10209.3	9460.6	9028.2	8799.6	8737.9
65°	10154.1	10159.5	10382.7	10894.1	11582.2	12013.5	11330.8	10550.7	10021.9	9684.9	9637.2
67.5°	10926.7	10949.4	11184.5	11800.0	12443.6	12832.6	12126.2	11244.1	10633.0	10231.0	10190.9
70°	10803.1	10892.0	11168.3	11886.7	12781.7	13336.5	12255.1	11161.8	10355.6	9881.0	9847.4
72.5°	9421.6	9591.7	9960.1	10902.8	12334.2	13098.1	11551.9	9997.0	9084.6	8680.4	8619.7
75°	6415.8	6692.1	7248.0	8607.8	10537.7	11340.6	9725.0	7970.7	7112.5	6553.4	6512.2
77.5°	2860.6	2923.5	3627.8	5193.5	7271.8	8144.1	7065.9	5214.1	3913.8	3121.7	2954.9
80°	797.5	807.3	1077.1	1934.2	3639.7	4785.0	3907.3	2031.7	1142.1	805.1	758.5
82.5°	253.6	275.2	335.9	501.7	1223.3	2183.4	1255.8	541.8	385.7	307.7	277.4
85°	123.5	122.4	170.1	203.7	312.1	483.3	332.7	251.4	220.0	146.3	132.2
87.5°	52.0	53.1	79.1	71.5	91.0	78.0	107.3	112.7	118.1	65.0	56.3
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)