

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: P316909

Luminaire Tested: **GLEON-SA5A-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316909  
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-SA5A-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17662 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

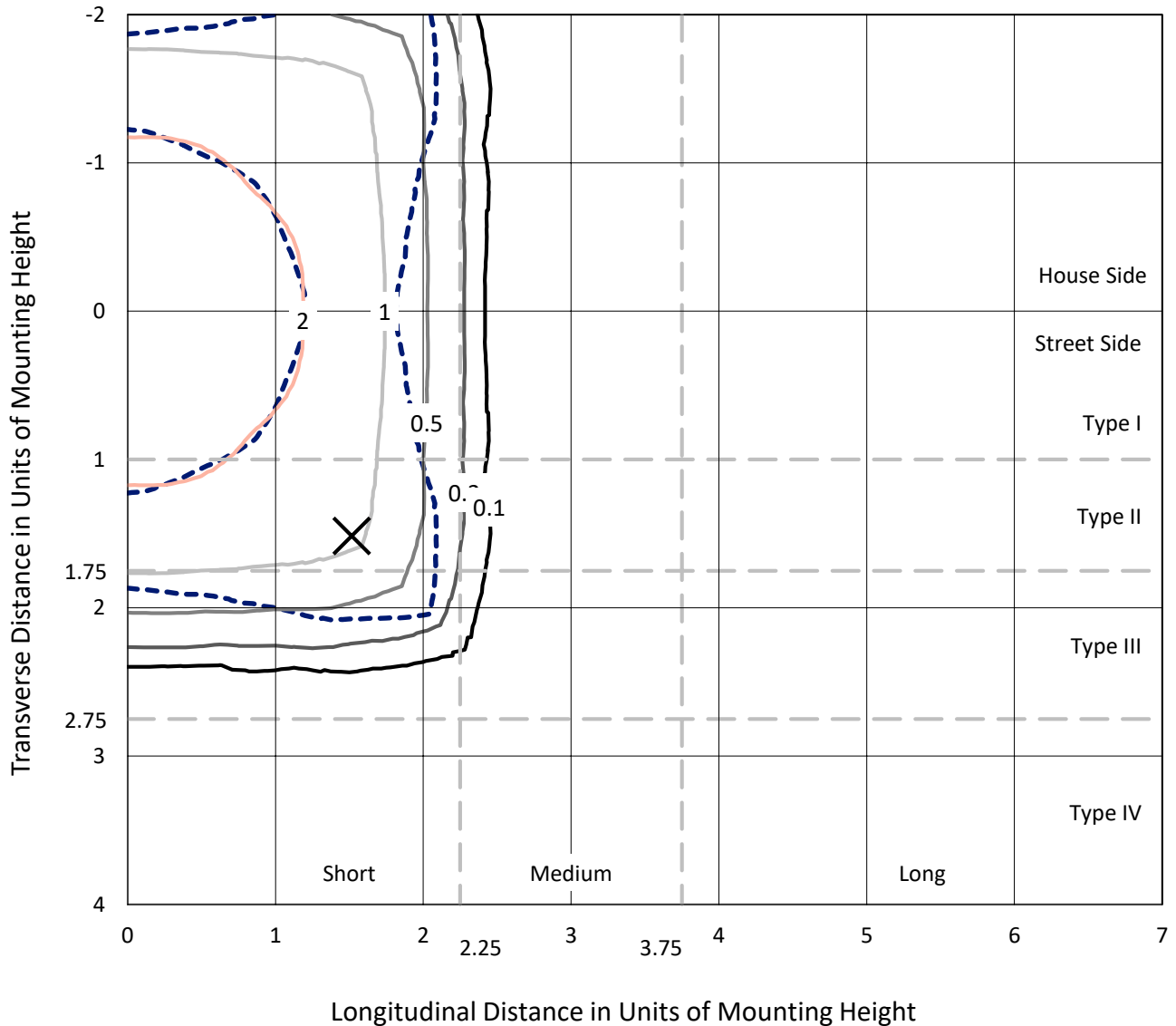
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

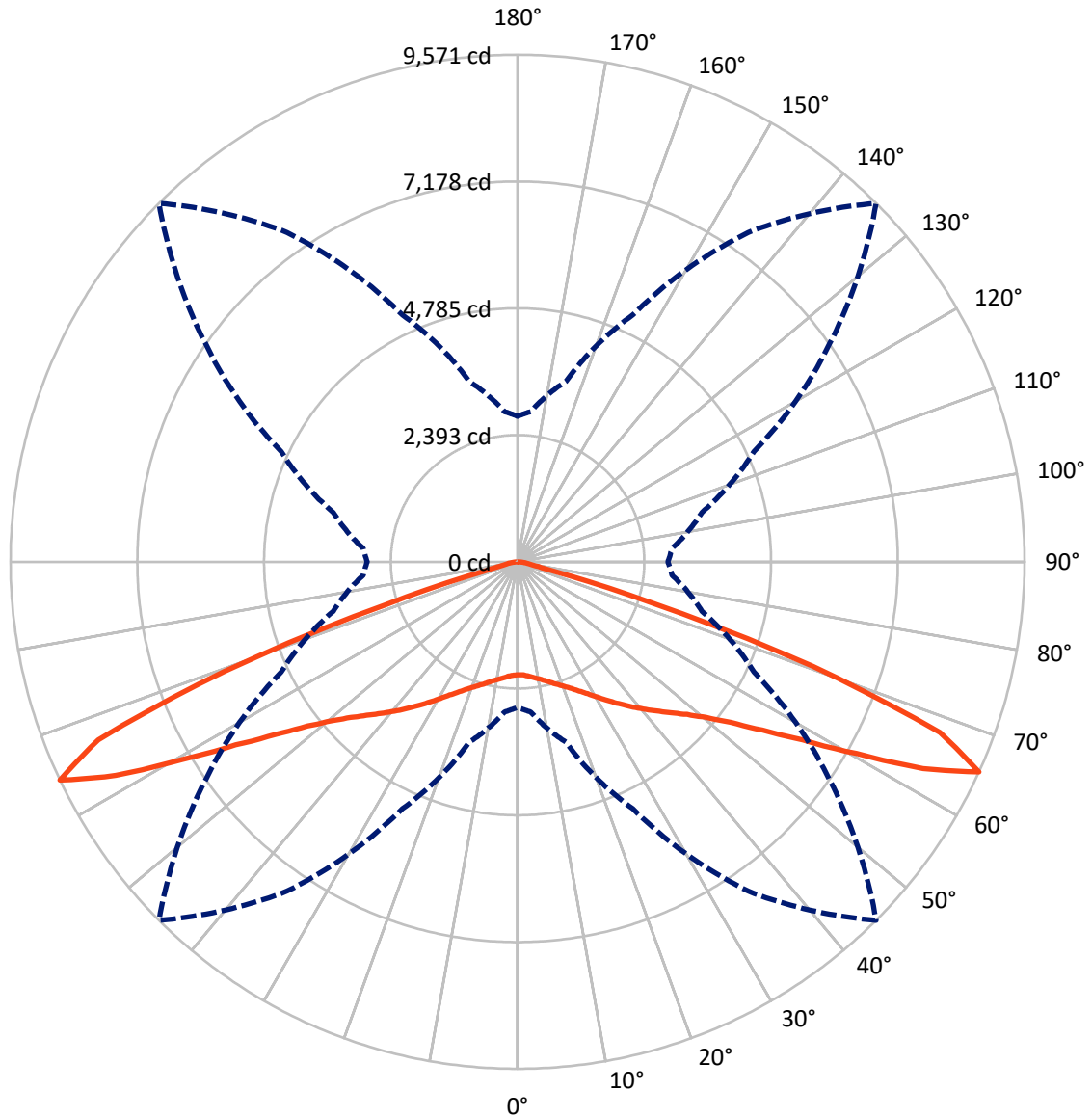
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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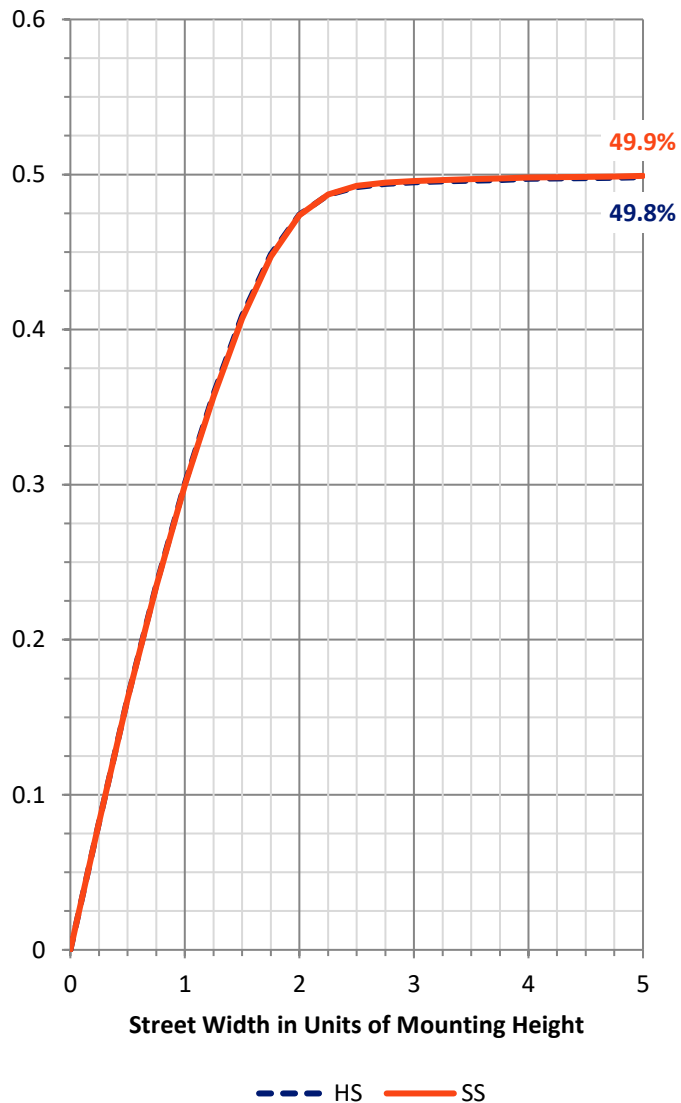
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8831.0	0.0	8831.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8831.0	0.0	8831.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17662.0	0.0	17662.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.3	1.2
10°-20°	672.6	3.8
20°-30°	1262.0	7.1
30°-40°	2087.1	11.8
40°-50°	3232.6	18.3
50°-60°	4957.9	28.1
60°-70°	4626.3	26.2
70°-80°	538.4	3.0
80°-90°	75.7	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°	17662.0	100.0
0°-180°	17662.0	100.0

**Coefficient of Utilization**



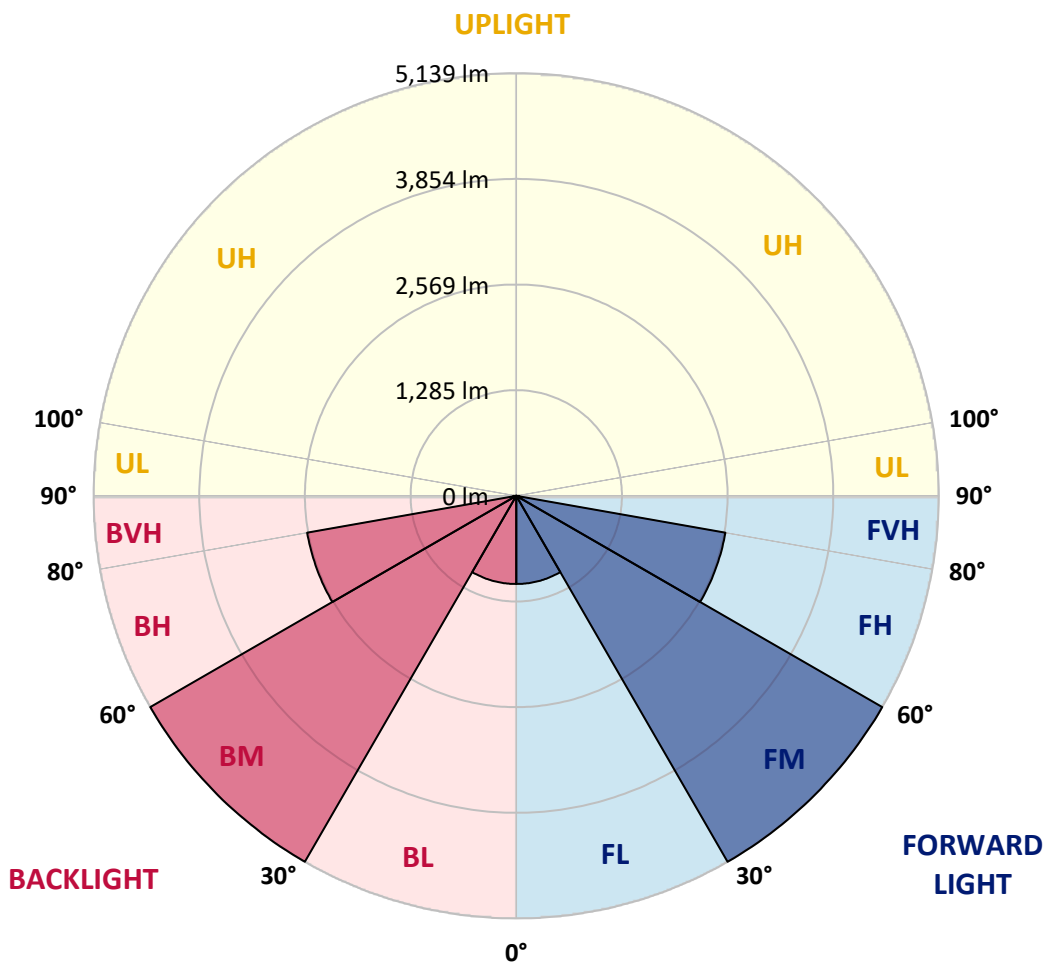
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1072.0	6.1			
FM (30°-60°)	5138.8	29.1			
FH (60°-80°)	2582.4	14.6			G2/5000
FVH (80°-90°)	37.8	0.2			G1/100
BL (0°-30°)	1072.0	6.1	B3/2500		
BM (30°-60°)	5138.8	29.1	B4/8500		
BH (60°-80°)	2582.4	14.6	B4/5000		G2/5000
BVH (80°-90°)	37.8	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°	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9	2132.9
2.5°	2139.9	2138.8	2139.9	2140.5	2137.0	2138.8	2138.2	2141.1	2142.3	2141.1	2141.1
5°	2164.6	2162.8	2165.2	2168.1	2163.4	2164.6	2162.8	2166.3	2167.5	2165.2	2166.9
7.5°	2198.6	2199.2	2201.5	2206.8	2203.9	2206.2	2202.7	2203.3	2202.7	2199.2	2199.7
10°	2235.5	2236.1	2240.2	2247.2	2248.4	2248.4	2246.1	2244.3	2242.0	2239.6	2240.2
12.5°	2280.1	2283.0	2285.9	2294.7	2294.7	2299.4	2298.2	2293.6	2289.4	2285.9	2285.9
15°	2340.5	2339.9	2343.4	2352.2	2356.3	2363.9	2363.9	2357.5	2352.2	2348.7	2347.5
17.5°	2403.8	2405.5	2407.9	2418.4	2424.9	2433.7	2434.8	2429.6	2426.1	2421.4	2418.4
20°	2477.6	2480.6	2490.0	2494.1	2499.9	2508.1	2511.1	2509.9	2506.4	2504.0	2504.6
22.5°	2563.8	2571.5	2577.3	2583.2	2590.2	2596.1	2599.0	2603.1	2599.6	2597.8	2596.7
25°	2668.2	2673.5	2685.2	2695.7	2700.4	2702.2	2705.7	2711.6	2711.0	2706.9	2706.9
27.5°	2786.6	2796.6	2811.2	2826.5	2826.5	2820.6	2832.3	2842.3	2838.8	2833.5	2826.5
30°	2930.3	2939.6	2956.6	2977.7	2967.2	2963.1	2978.9	2997.1	2991.8	2983.0	2981.9
32.5°	3085.0	3093.8	3116.1	3139.0	3125.5	3119.6	3136.6	3163.0	3153.6	3136.0	3125.5
35°	3252.7	3261.5	3293.2	3320.7	3297.9	3287.9	3302.0	3330.7	3314.3	3281.4	3273.2
37.5°	3435.1	3439.7	3480.8	3508.9	3493.1	3466.7	3484.3	3505.4	3491.3	3451.5	3435.6
40°	3624.4	3641.4	3688.9	3721.7	3694.2	3652.6	3681.9	3711.2	3690.1	3639.1	3612.1
42.5°	3845.5	3858.4	3921.7	3951.0	3906.4	3847.8	3887.7	3927.5	3906.4	3857.2	3833.7
45°	4075.3	4095.2	4170.8	4200.2	4135.7	4061.2	4109.9	4179.6	4177.9	4106.9	4082.3
47.5°	4325.6	4345.6	4435.8	4474.5	4404.8	4305.1	4373.7	4472.2	4465.2	4387.2	4367.2
50°	4614.7	4635.8	4748.3	4797.0	4731.9	4615.8	4719.0	4805.8	4792.9	4696.7	4698.5
52.5°	4977.6	4976.4	5116.5	5200.9	5134.1	5031.5	5126.5	5210.9	5157.6	5024.5	5020.4
55°	5295.3	5314.7	5488.2	5648.3	5644.2	5604.9	5643.0	5646.5	5494.1	5317.0	5295.3
57.5°	5504.1	5541.0	5785.5	6075.1	6292.0	6344.2	6270.3	6046.4	5689.3	5406.1	5371.6
60°	5375.7	5431.9	5816.0	6406.4	7045.4	7352.0	6935.2	6240.4	5537.5	5142.9	5096.0
62.5°	4509.1	4604.1	5166.4	6246.3	7693.8	8590.3	7417.1	5929.1	4933.6	4390.1	4309.8
65°	2746.2	2846.4	3524.2	5141.1	7588.9	9570.5	7197.3	4921.3	3601.0	2925.0	2838.2
67.5°	915.2	944.5	1343.8	2841.7	5964.3	8599.1	5974.3	2946.1	1567.1	1038.9	1008.4
70°	358.2	361.2	426.2	823.7	2816.5	5906.2	3107.9	838.4	445.6	352.4	360.0
72.5°	263.2	264.4	282.6	344.2	734.0	2601.9	760.4	345.9	275.0	246.8	246.8
75°	211.6	211.6	224.5	250.9	328.9	596.8	333.6	248.0	215.2	197.0	194.6
77.5°	167.1	170.6	180.6	197.6	222.8	287.3	231.0	196.4	173.5	156.5	153.0
80°	124.3	127.8	144.2	152.4	160.1	199.3	170.6	153.6	137.2	117.3	113.7
82.5°	81.5	85.0	105.5	110.2	108.5	130.2	114.9	113.2	100.8	75.6	72.1
85°	53.4	54.5	70.4	73.3	67.4	59.2	73.3	77.4	70.4	49.2	47.5
87.5°	25.2	25.2	35.8	33.4	30.5	24.6	33.4	39.3	39.9	24.0	23.5
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)