

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: P316918

Luminaire Tested: **GLEON-SA4B-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316918
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-SA4B-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 17480 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

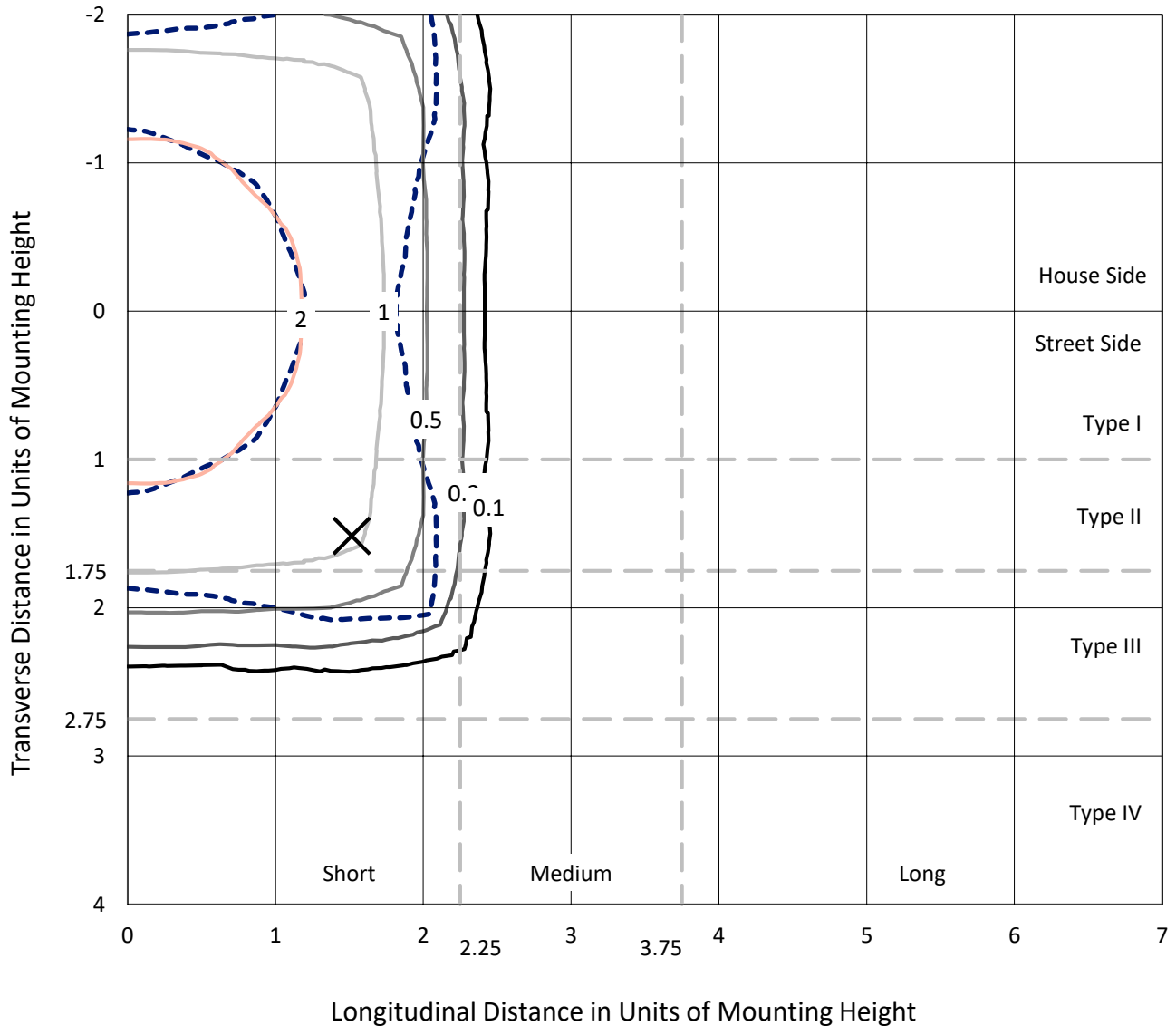
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

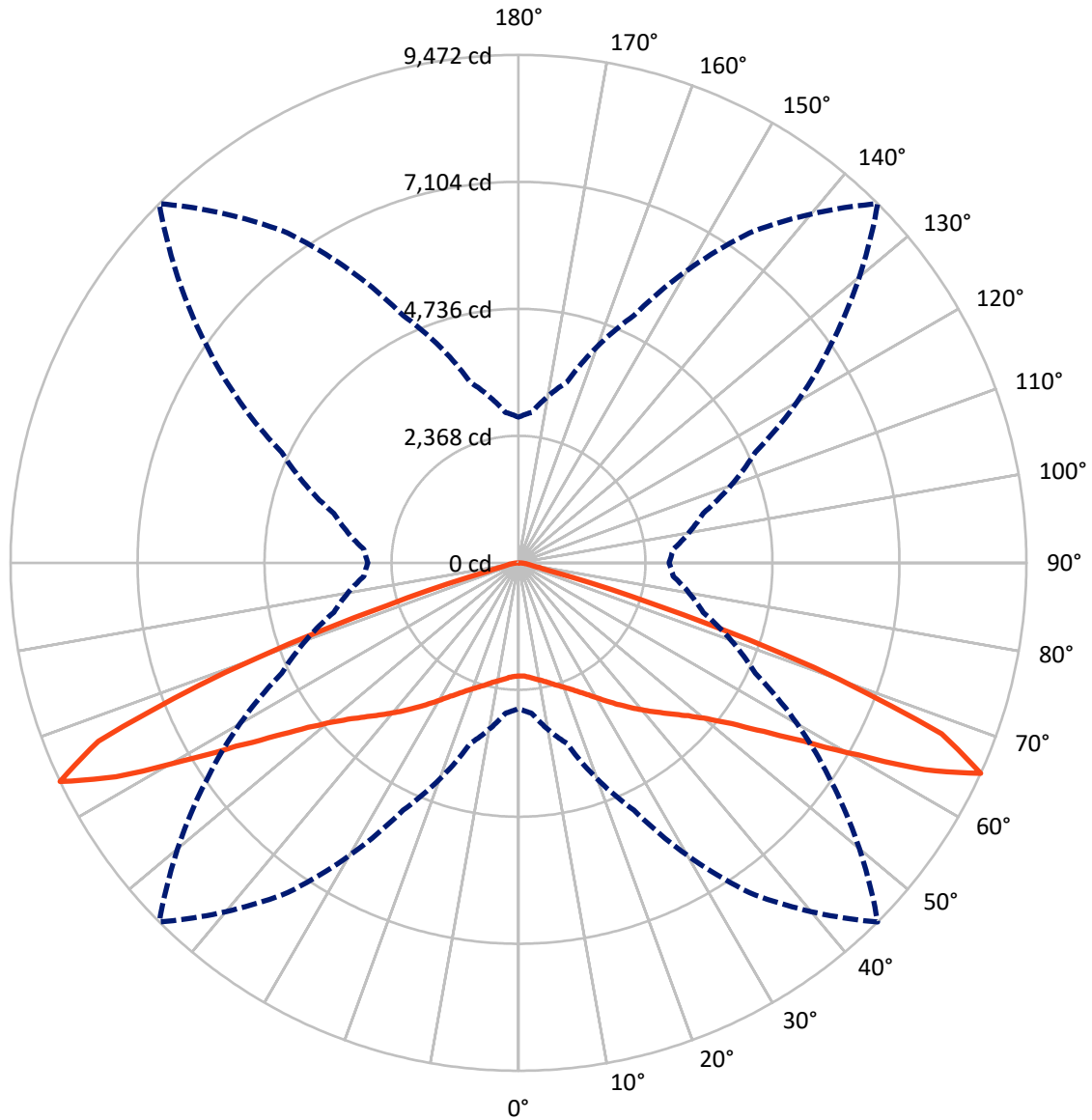
✕ Max cd
 - - - 1/2 Max cd



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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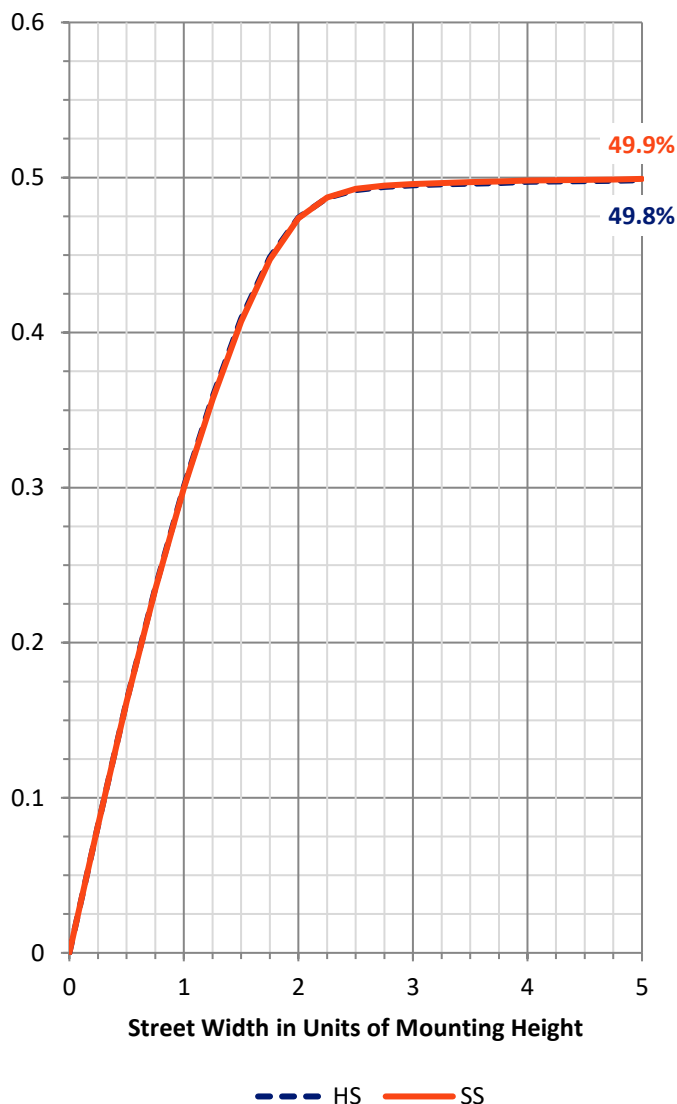
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8740.0	0.0	8740.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8740.0	0.0	8740.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17480.0	0.0	17480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	1.2
10°-20°	665.7	3.8
20°-30°	1249.0	7.1
30°-40°	2065.6	11.8
40°-50°	3199.3	18.3
50°-60°	4906.9	28.1
60°-70°	4578.7	26.2
70°-80°	532.9	3.0
80°-90°	74.9	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°	17480.0	100.0
0°-180°	17480.0	100.0

Coefficient of Utilization



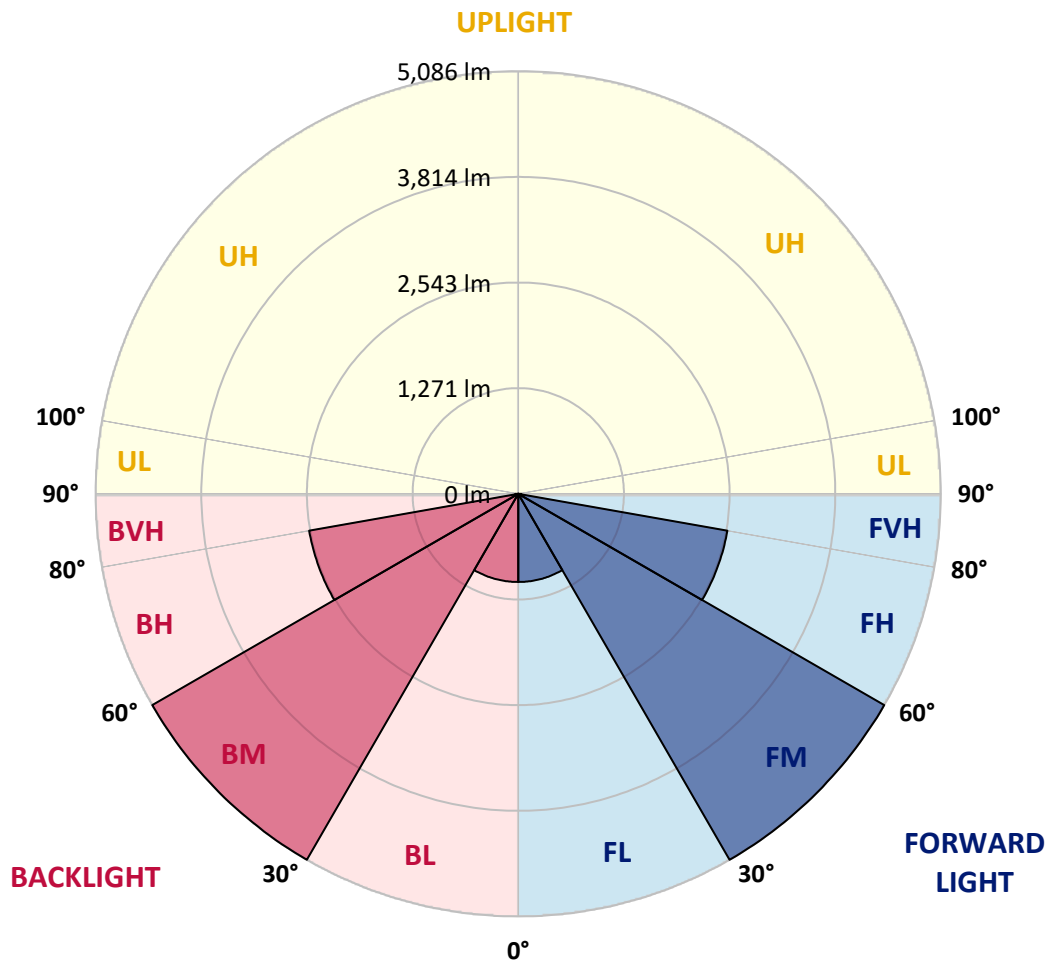
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1060.9	6.1			
FM (30°-60°)	5085.9	29.1			
FH (60°-80°)	2555.8	14.6			G2/5000
FVH (80°-90°)	37.4	0.2			G1/100
BL (0°-30°)	1060.9	6.1	B3/2500		
BM (30°-60°)	5085.9	29.1	B4/8500		
BH (60°-80°)	2555.8	14.6	B4/5000		G2/5000
BVH (80°-90°)	37.4	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°	2110.9	2110.9	2110.9	2110.9	2110.9	2110.9	2110.9	2110.9	2110.9	2110.9	2110.9
2.5°	2117.9	2116.7	2117.9	2118.5	2115.0	2116.7	2116.2	2119.1	2120.2	2119.1	2119.1
5°	2142.3	2140.5	2142.8	2145.7	2141.1	2142.3	2140.5	2144.0	2145.2	2142.8	2144.6
7.5°	2175.9	2176.5	2178.8	2184.0	2181.1	2183.5	2180.0	2180.6	2180.0	2176.5	2177.1
10°	2212.5	2213.1	2217.1	2224.1	2225.2	2225.2	2222.9	2221.2	2218.9	2216.5	2217.1
12.5°	2256.6	2259.5	2262.4	2271.1	2271.1	2275.7	2274.6	2269.9	2265.9	2262.4	2262.4
15°	2316.3	2315.8	2319.2	2327.9	2332.0	2339.5	2339.5	2333.2	2327.9	2324.5	2323.3
17.5°	2379.0	2380.7	2383.1	2393.5	2399.9	2408.6	2409.8	2404.5	2401.1	2396.4	2393.5
20°	2452.1	2455.0	2464.3	2468.4	2474.2	2482.3	2485.2	2484.0	2480.5	2478.2	2478.8
22.5°	2537.4	2545.0	2550.8	2556.6	2563.5	2569.3	2572.2	2576.3	2572.8	2571.1	2569.9
25°	2640.7	2645.9	2657.5	2668.0	2672.6	2674.3	2677.8	2683.6	2683.1	2679.0	2679.0
27.5°	2757.9	2767.8	2782.3	2797.4	2797.4	2791.6	2803.2	2813.0	2809.5	2804.3	2797.4
30°	2900.1	2909.3	2926.2	2947.1	2936.6	2932.6	2948.2	2966.2	2961.0	2952.3	2951.1
32.5°	3053.2	3062.0	3084.0	3106.6	3093.3	3087.5	3104.3	3130.4	3121.1	3103.7	3093.3
35°	3219.2	3227.9	3259.2	3286.5	3263.9	3254.0	3267.9	3296.4	3280.1	3247.6	3239.5
37.5°	3399.7	3404.3	3444.9	3472.8	3457.1	3431.0	3448.4	3469.3	3455.4	3415.9	3400.2
40°	3587.1	3603.9	3650.9	3683.4	3656.1	3614.9	3643.9	3673.0	3652.1	3601.6	3574.9
42.5°	3805.8	3818.6	3881.3	3910.3	3866.2	3808.1	3847.6	3887.1	3866.2	3817.4	3794.2
45°	4033.3	4053.0	4127.9	4156.9	4093.0	4019.4	4067.5	4136.6	4134.8	4064.6	4040.2
47.5°	4281.0	4300.8	4390.1	4428.4	4359.4	4260.7	4328.6	4426.1	4419.1	4342.0	4322.2
50°	4567.1	4588.0	4699.4	4747.6	4683.2	4568.3	4670.4	4756.3	4743.5	4648.3	4650.1
52.5°	4926.3	4925.1	5063.8	5147.4	5081.2	4979.7	5073.7	5157.2	5104.4	4972.7	4968.6
55°	5240.8	5259.9	5431.7	5590.1	5586.0	5547.1	5584.9	5588.3	5437.5	5262.2	5240.8
57.5°	5447.3	5483.9	5725.9	6012.5	6227.2	6278.8	6205.7	5984.1	5630.7	5350.4	5316.2
60°	5320.3	5376.0	5756.0	6340.3	6972.8	7276.3	6863.7	6176.1	5480.4	5089.9	5043.5
62.5°	4462.7	4556.7	5113.1	6181.9	7614.6	8501.7	7340.7	5868.0	4882.8	4344.9	4265.4
65°	2717.9	2817.1	3487.9	5088.2	7510.7	9471.9	7123.1	4870.6	3563.9	2894.8	2809.0
67.5°	905.8	934.8	1329.9	2812.4	5902.8	8510.5	5912.7	2915.7	1551.0	1028.2	998.0
70°	354.5	357.4	421.8	815.2	2787.5	5845.4	3075.9	829.8	441.0	348.7	356.3
72.5°	260.5	261.7	279.7	340.6	726.5	2575.1	752.6	342.3	272.1	244.3	244.3
75°	209.5	209.5	222.2	248.3	325.5	590.7	330.2	245.4	212.9	195.0	192.6
77.5°	165.4	168.9	178.7	195.5	220.5	284.3	228.6	194.4	171.8	154.9	151.4
80°	123.0	126.5	142.7	150.9	158.4	197.3	168.9	152.0	135.8	116.0	112.6
82.5°	80.7	84.1	104.4	109.1	107.3	128.8	113.7	112.0	99.8	74.9	71.4
85°	52.8	54.0	69.6	72.5	66.7	58.6	72.5	76.6	69.6	48.7	47.0
87.5°	25.0	25.0	35.4	33.1	30.2	24.4	33.1	38.9	39.5	23.8	23.2
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)