

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: P317248

Luminaire Tested: **GLEON-SA4C-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317248
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-SA4C-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21440 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

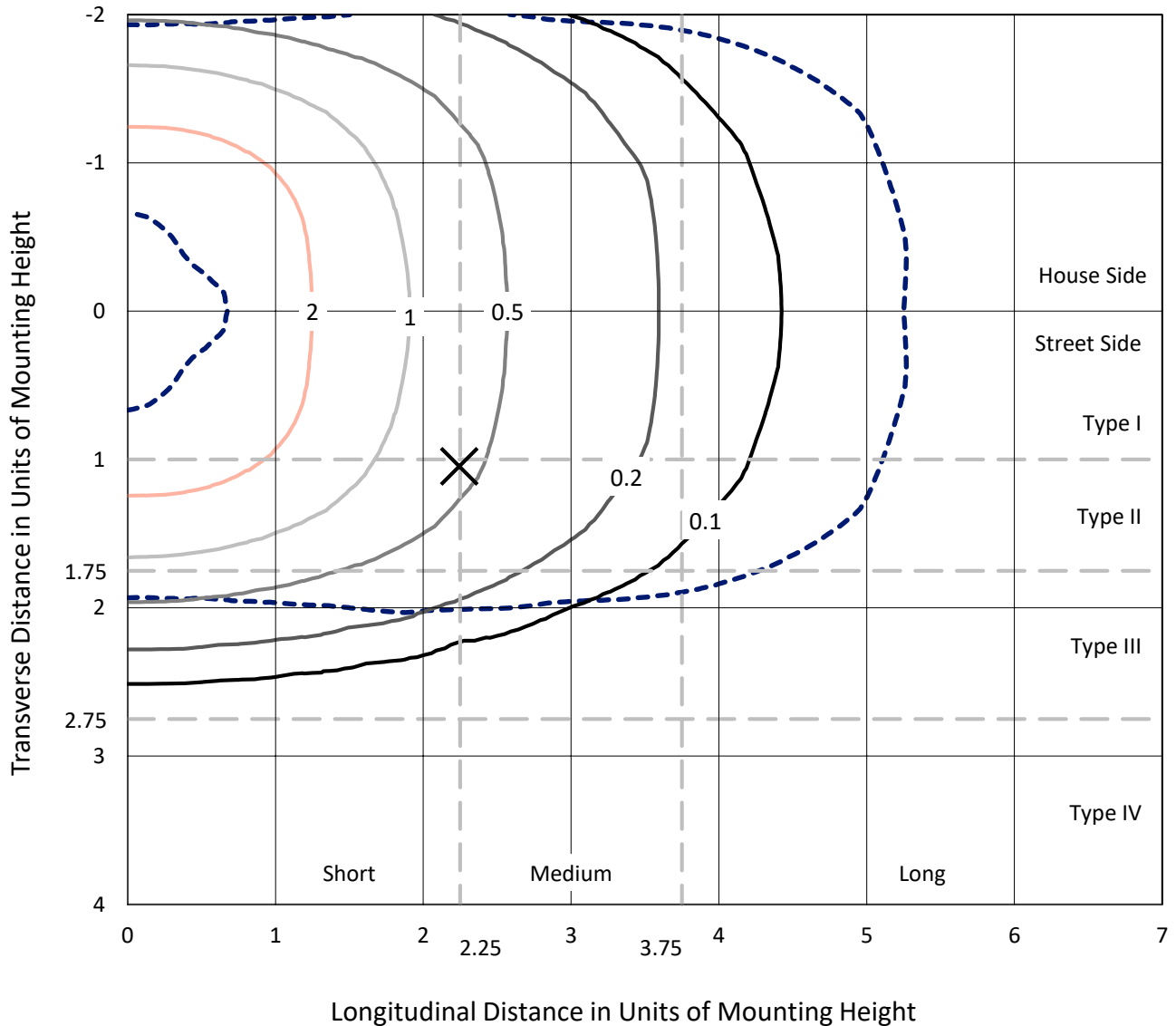
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

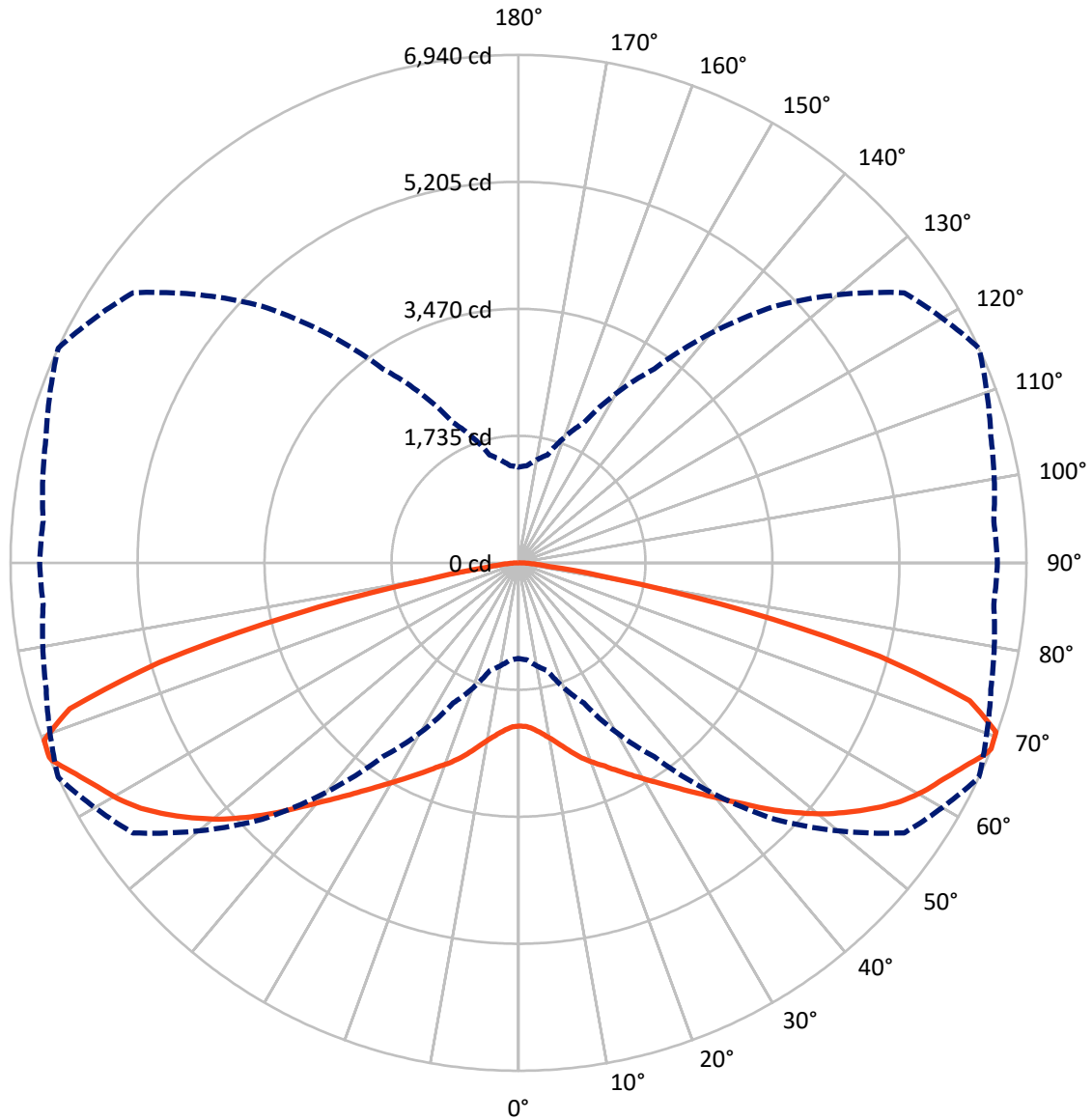
× Max cd
 - - - 1/2 Max cd



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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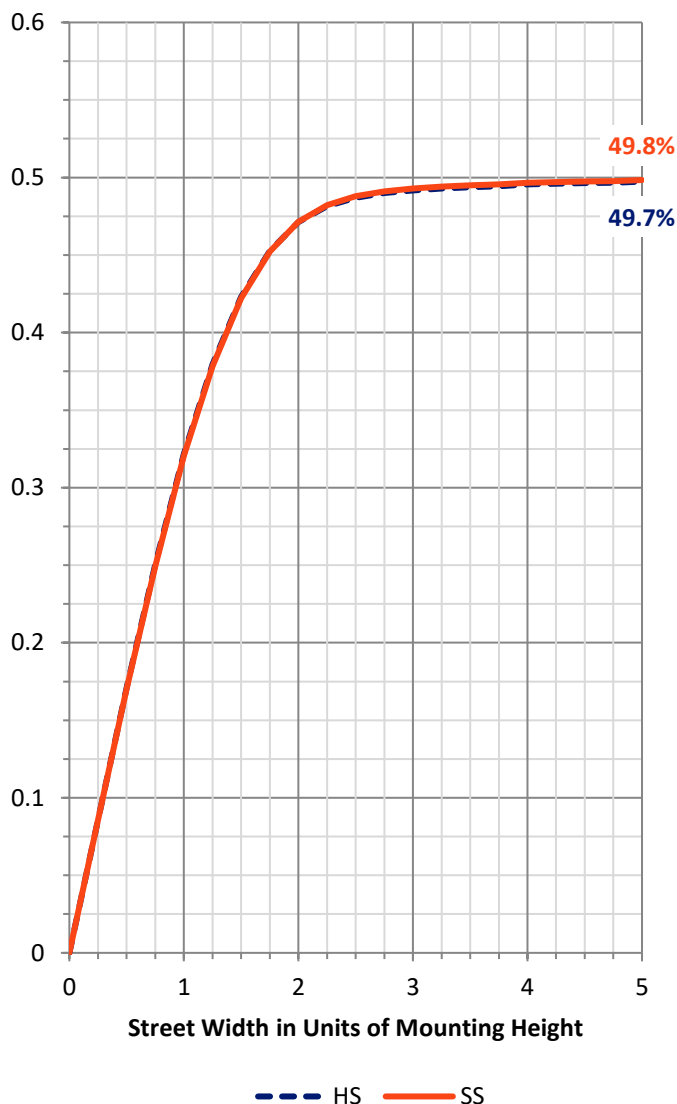
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10720.0	0.0	10720.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10720.0	0.0	10720.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21440.0	0.0	21440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.0
10°-20°	730.8	3.4
20°-30°	1424.9	6.6
30°-40°	2393.8	11.2
40°-50°	3771.7	17.6
50°-60°	5044.0	23.5
60°-70°	4903.4	22.9
70°-80°	2680.5	12.5
80°-90°	272.6	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°	21440.0	100.0
0°-180°	21440.0	100.0

Coefficient of Utilization



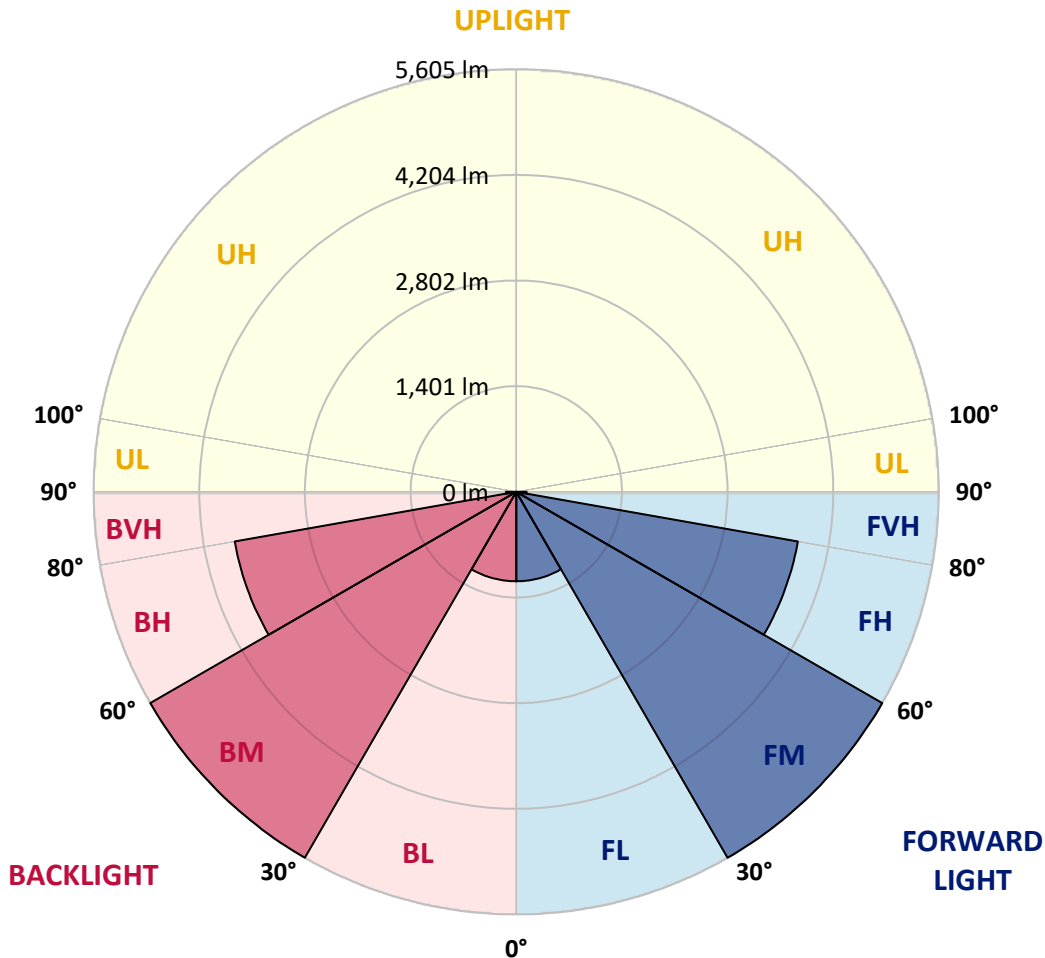
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 CATALOG NUMBER: GLEON-SA4C-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1187.0	5.5			
FM (30°-60°)	5604.7	26.1			
FH (60°-80°)	3791.9	17.7			G2/5000
FVH (80°-90°)	136.3	0.6			G2/225
BL (0°-30°)	1187.0	5.5	B3/2500		
BM (30°-60°)	5604.7	26.1	B4/8500		
BH (60°-80°)	3791.9	17.7	B4/5000		G4/5000
BVH (80°-90°)	136.3	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°	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3
2.5°	2213.4	2214.2	2217.8	2222.1	2225.7	2235.0	2237.2	2240.8	2242.2	2245.8	2245.8
5°	2194.0	2195.5	2204.1	2215.6	2228.5	2251.5	2268.1	2286.8	2296.1	2306.2	2305.5
7.5°	2191.9	2195.5	2207.7	2226.4	2247.9	2286.0	2320.6	2357.9	2383.1	2406.1	2404.7
10°	2214.2	2219.9	2237.2	2265.2	2297.5	2345.0	2396.0	2446.4	2490.2	2525.4	2526.9
12.5°	2247.9	2255.1	2282.5	2324.9	2373.8	2434.9	2495.2	2552.0	2612.4	2664.9	2669.2
15°	2292.5	2301.9	2342.8	2406.1	2480.9	2553.5	2618.2	2676.4	2746.1	2818.7	2825.9
17.5°	2358.7	2371.6	2425.5	2511.1	2609.5	2689.3	2756.9	2800.8	2859.0	2933.8	2947.4
20°	2459.3	2475.8	2544.1	2646.2	2766.3	2849.7	2901.4	2910.8	2939.5	3006.4	3022.2
22.5°	2590.1	2604.5	2680.7	2802.2	2936.6	3027.2	3054.5	3017.2	3014.3	3068.2	3083.3
25°	2736.1	2749.0	2837.4	2974.0	3118.5	3218.4	3217.7	3145.1	3094.8	3136.5	3152.3
27.5°	2900.0	2920.1	3004.9	3148.7	3303.3	3401.8	3396.0	3283.9	3188.2	3199.0	3212.7
30°	3088.3	3110.6	3193.3	3339.2	3493.8	3590.1	3582.9	3434.8	3291.0	3262.3	3272.4
32.5°	3322.0	3348.6	3426.9	3570.7	3707.3	3794.3	3773.4	3598.7	3414.7	3352.2	3361.5
35°	3603.0	3618.9	3701.5	3843.1	3953.9	4013.5	3969.7	3788.5	3571.4	3495.9	3495.9
37.5°	3887.7	3899.9	3992.7	4130.0	4237.1	4268.7	4183.2	3996.3	3776.3	3669.2	3671.3
40°	4160.9	4194.0	4298.2	4439.1	4544.8	4553.4	4439.8	4233.5	4004.2	3893.5	3906.4
42.5°	4446.3	4478.6	4603.0	4762.6	4856.1	4870.4	4737.4	4499.5	4261.5	4171.7	4186.1
45°	4700.8	4726.7	4870.4	5055.9	5172.4	5209.7	5052.3	4804.3	4539.7	4452.0	4455.6
47.5°	4878.3	4912.1	5070.3	5288.8	5458.5	5516.0	5361.4	5101.2	4813.6	4707.2	4716.6
50°	5039.4	5057.3	5217.7	5456.3	5672.0	5790.6	5658.3	5394.5	5090.4	4977.5	4987.6
52.5°	5129.2	5152.2	5307.5	5556.2	5811.4	6002.7	5922.2	5658.3	5357.8	5247.8	5260.1
55°	5066.7	5083.9	5270.1	5578.5	5897.7	6133.5	6145.7	5916.4	5620.2	5523.9	5558.4
57.5°	4782.0	4803.6	5030.7	5434.8	5908.5	6221.9	6313.9	6155.8	5865.4	5787.0	5807.1
60°	4337.0	4350.7	4592.9	5047.3	5698.6	6258.6	6421.1	6351.3	6105.5	6027.1	6054.4
62.5°	3544.1	3564.2	3853.9	4462.8	5255.0	6150.0	6524.6	6513.1	6329.0	6257.2	6281.6
65°	2422.6	2457.9	2778.5	3548.4	4571.4	5817.9	6618.8	6701.4	6526.7	6436.2	6468.5
67.5°	1462.9	1488.8	1721.0	2342.8	3498.1	5147.9	6521.7	6915.7	6666.2	6520.3	6546.9
68°	1307.6	1331.4	1525.5	2114.2	3235.7	4958.9	6433.3	6940.1	6681.3	6518.8	6542.6
70°	790.1	805.9	936.0	1306.9	2157.4	3933.7	5830.1	6920.0	6777.6	6539.0	6552.6
72.5°	514.7	519.8	541.3	670.7	1102.0	2199.8	4375.8	6448.4	6922.1	6656.1	6654.0
75°	427.7	424.9	427.0	442.1	543.5	964.7	2557.1	5094.0	6598.6	6471.4	6426.1
77.5°	361.6	359.4	358.7	359.4	363.8	465.8	1110.0	3173.1	5049.4	5724.5	5764.7
80°	292.6	289.7	299.1	294.7	281.8	289.7	465.1	1319.9	2380.2	2560.7	2399.6
82.5°	212.8	202.0	242.3	230.8	220.0	204.2	256.6	426.3	567.9	389.6	273.9
85°	163.9	152.4	184.0	176.8	151.0	104.2	152.4	208.5	230.0	131.6	103.5
87.5°	66.9	70.5	133.0	105.0	88.4	50.3	62.5	83.4	112.1	56.1	43.1
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)