

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: P316608

Luminaire Tested: **GLEON-SA4C-827-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
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-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22034 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

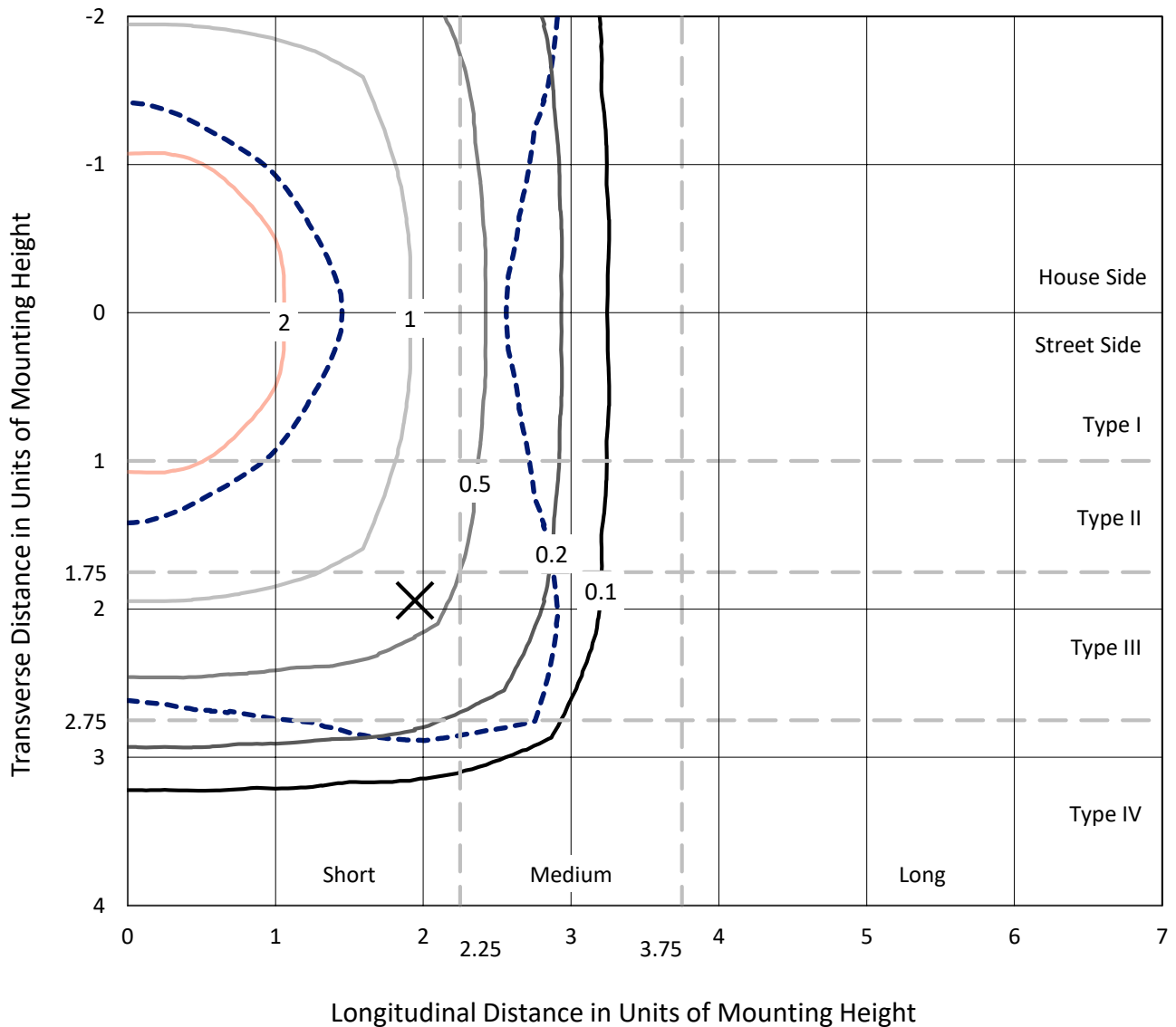
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

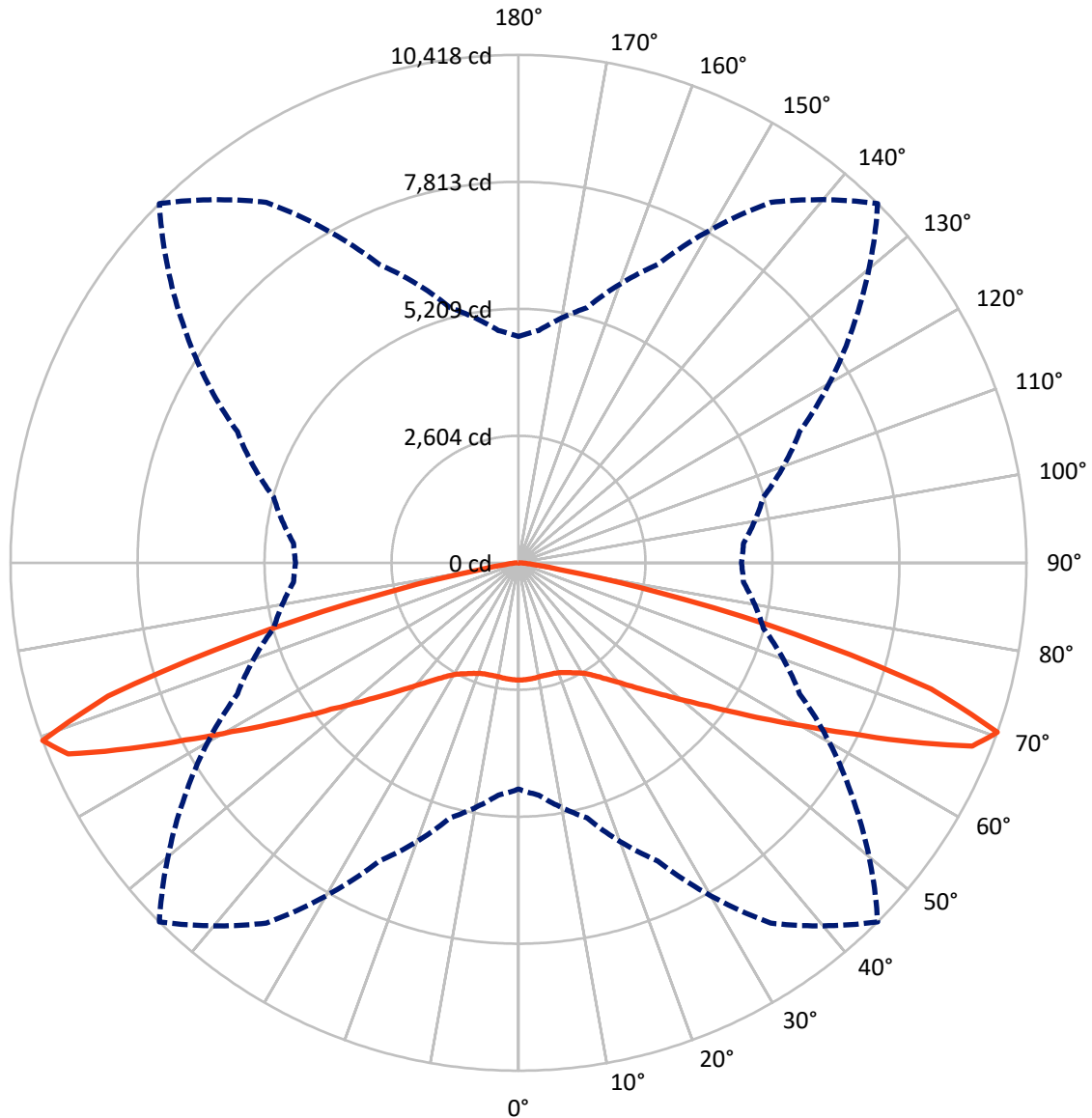
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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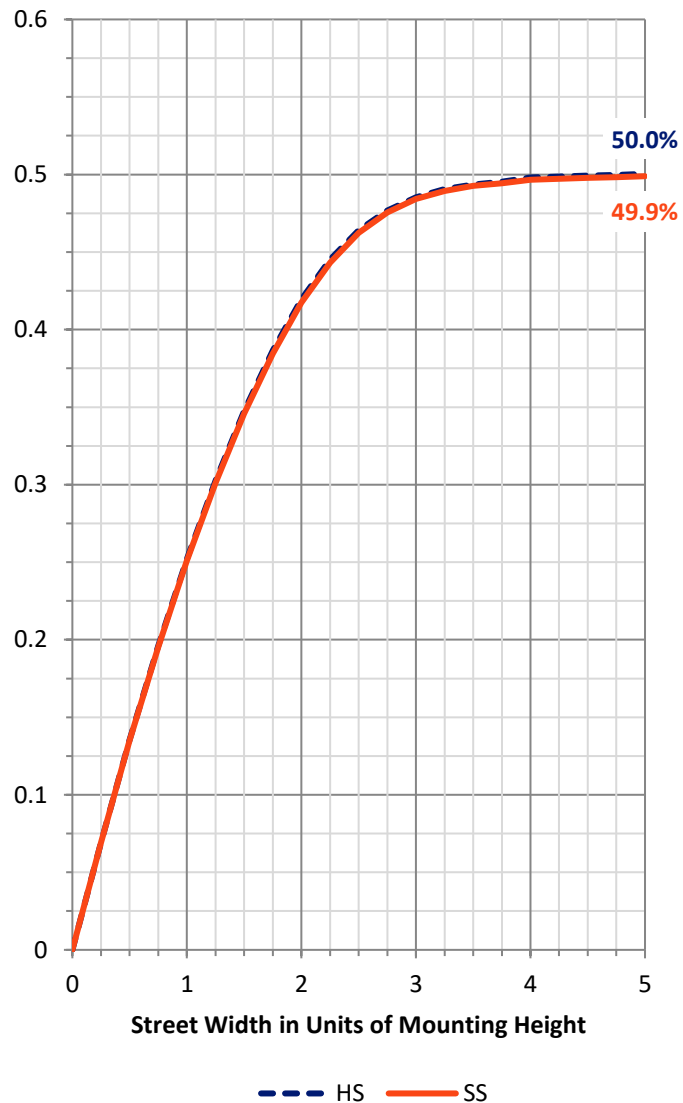
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11017.0	0.0	11017.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11017.0	0.0	11017.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22034.0	0.0	22034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	1.0
10°-20°	669.1	3.0
20°-30°	1139.0	5.2
30°-40°	1806.5	8.2
40°-50°	2939.7	13.3
50°-60°	4847.1	22.0
60°-70°	7115.6	32.3
70°-80°	3146.5	14.3
80°-90°	142.5	0.6
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°	22034.0	100.0
0°-180°	22034.0	100.0

Coefficient of Utilization



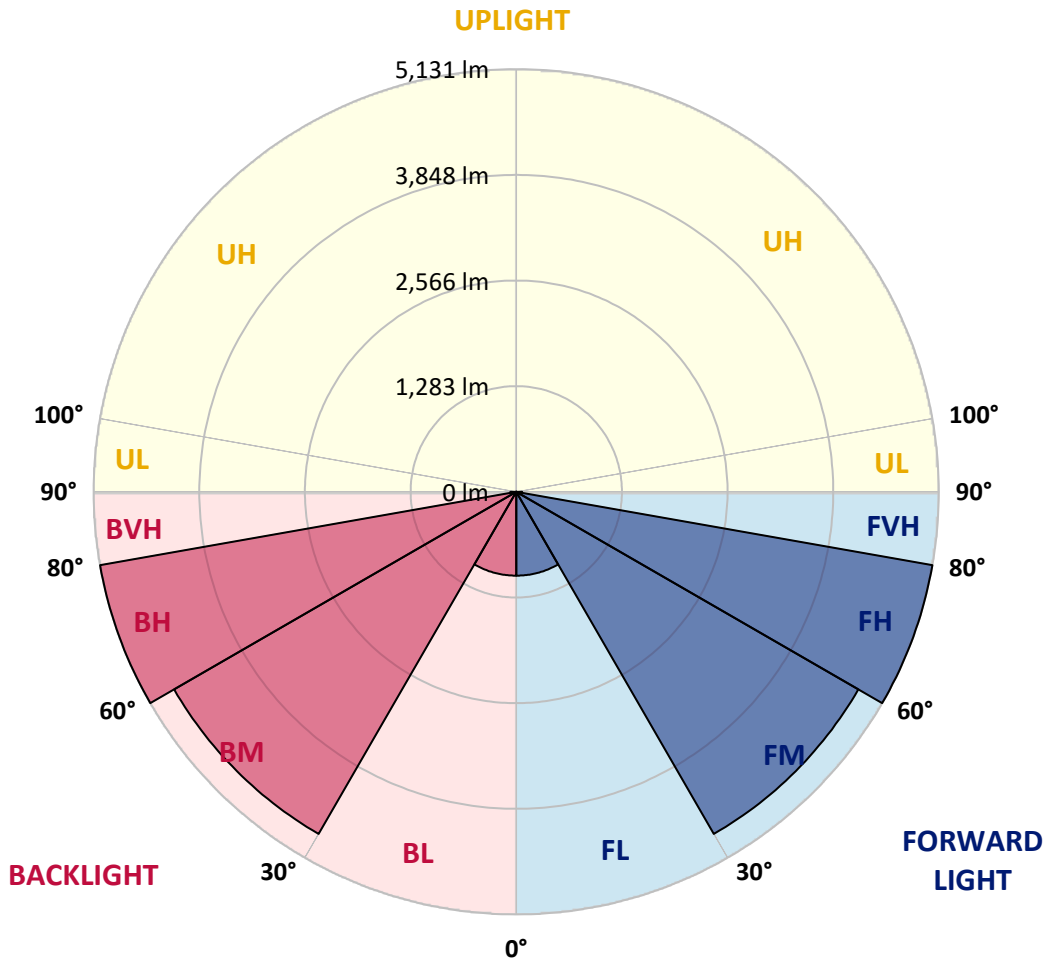
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.0	4.6			
FM (30°-60°)	4796.6	21.8			
FH (60°-80°)	5131.1	23.3			G3/7500
FVH (80°-90°)	71.2	0.3			G1/100
BL (0°-30°)	1018.0	4.6	B3/2500		
BM (30°-60°)	4796.6	21.8	B3/5000		
BH (60°-80°)	5131.1	23.3	B5		G3/7500
BVH (80°-90°)	71.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5
2.5°	2402.8	2400.6	2405.7	2405.0	2400.6	2401.4	2401.4	2403.5	2403.5	2402.1	2402.1
5°	2394.1	2392.6	2398.4	2398.4	2394.1	2395.5	2397.0	2399.2	2398.4	2397.0	2396.2
7.5°	2383.1	2382.4	2388.2	2388.2	2385.3	2386.8	2385.3	2386.0	2384.6	2383.1	2380.9
10°	2364.9	2366.3	2371.5	2372.9	2372.9	2373.6	2372.2	2368.5	2366.3	2364.2	2362.0
12.5°	2348.1	2347.4	2354.7	2358.3	2364.2	2370.7	2366.3	2356.1	2351.8	2347.4	2345.9
15°	2337.2	2337.9	2345.2	2351.8	2362.0	2375.8	2370.7	2354.7	2345.9	2340.8	2339.4
17.5°	2335.0	2336.4	2345.9	2357.6	2368.5	2383.8	2380.9	2364.9	2350.3	2340.8	2338.6
20°	2340.1	2340.8	2355.4	2372.2	2391.1	2405.7	2399.2	2381.7	2362.0	2347.4	2343.7
22.5°	2349.6	2352.5	2370.7	2397.0	2426.1	2445.8	2437.8	2407.9	2377.3	2359.1	2354.0
25°	2379.5	2380.2	2405.0	2440.7	2475.7	2498.3	2488.9	2446.6	2407.2	2386.8	2380.2
27.5°	2441.5	2443.6	2468.4	2510.0	2539.9	2554.5	2548.7	2514.4	2480.8	2459.0	2461.1
30°	2531.2	2534.1	2561.8	2607.7	2626.0	2629.6	2628.1	2612.1	2581.5	2552.3	2554.5
32.5°	2640.5	2642.0	2679.2	2720.8	2735.3	2738.3	2735.3	2720.8	2684.3	2644.9	2647.1
35°	2781.3	2785.7	2821.4	2861.5	2873.2	2879.0	2873.9	2854.9	2817.0	2778.4	2776.9
37.5°	2954.8	2955.6	2992.8	3034.3	3048.9	3050.4	3044.5	3032.1	2984.7	2949.7	2947.5
40°	3156.1	3159.0	3202.8	3247.3	3253.1	3246.5	3254.5	3247.3	3198.4	3158.3	3164.9
42.5°	3401.1	3407.7	3460.2	3503.9	3487.2	3483.5	3488.6	3490.8	3451.4	3402.6	3398.2
45°	3686.3	3692.1	3757.7	3792.7	3781.8	3757.7	3767.9	3785.4	3730.7	3670.2	3676.0
47.5°	4011.5	4026.1	4096.1	4128.9	4101.9	4069.1	4088.8	4115.0	4050.9	3975.8	3972.1
50°	4373.2	4391.4	4484.8	4530.7	4503.7	4443.2	4476.0	4493.5	4400.9	4303.9	4295.9
52.5°	4758.9	4777.2	4894.6	4989.4	4971.9	4877.8	4923.8	4905.5	4799.1	4668.5	4658.3
55°	5195.8	5203.0	5329.9	5483.1	5500.6	5431.3	5428.4	5398.5	5241.0	5090.0	5082.7
57.5°	5645.0	5650.1	5814.1	5995.0	6077.4	6077.4	5995.7	5932.3	5723.0	5548.0	5529.7
60°	6129.9	6148.1	6329.7	6575.5	6768.0	6824.9	6680.5	6507.6	6280.1	6066.5	6045.3
62.5°	6561.6	6582.8	6860.6	7226.7	7535.9	7743.0	7390.0	7108.5	6694.3	6351.6	6311.5
65°	6616.3	6673.2	7077.9	7740.8	8432.8	8846.3	8169.6	7476.1	6721.3	6245.1	6204.3
67.5°	6042.4	6138.6	6685.6	7717.4	9147.4	10034.9	8667.6	7266.0	6237.1	5710.6	5665.4
70°	4643.0	4783.0	5413.8	6750.5	9024.2	10417.8	8355.5	6361.1	5200.1	4633.5	4570.1
72.5°	2547.2	2604.8	3172.1	4622.6	7234.7	8852.8	6969.2	4703.5	3448.5	2806.1	2699.6
75°	808.0	828.4	1117.2	1891.6	4092.4	5863.7	4427.1	2308.7	1271.0	937.1	926.1
77.5°	358.8	361.0	404.0	552.0	1409.6	2970.9	1693.3	628.6	433.2	378.5	390.9
80°	226.8	226.8	250.1	273.5	383.6	862.7	458.0	299.0	255.2	237.0	242.1
82.5°	108.7	120.3	162.6	175.0	210.7	290.2	234.8	195.4	170.6	126.9	118.1
85°	71.5	59.8	102.8	115.9	122.5	139.3	136.4	129.1	111.6	63.4	70.7
87.5°	32.1	30.6	53.2	48.9	45.9	35.0	52.5	64.9	62.7	31.4	31.4
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)