

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: P529495

Luminaire Tested: **GALN-SA4C-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13263 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

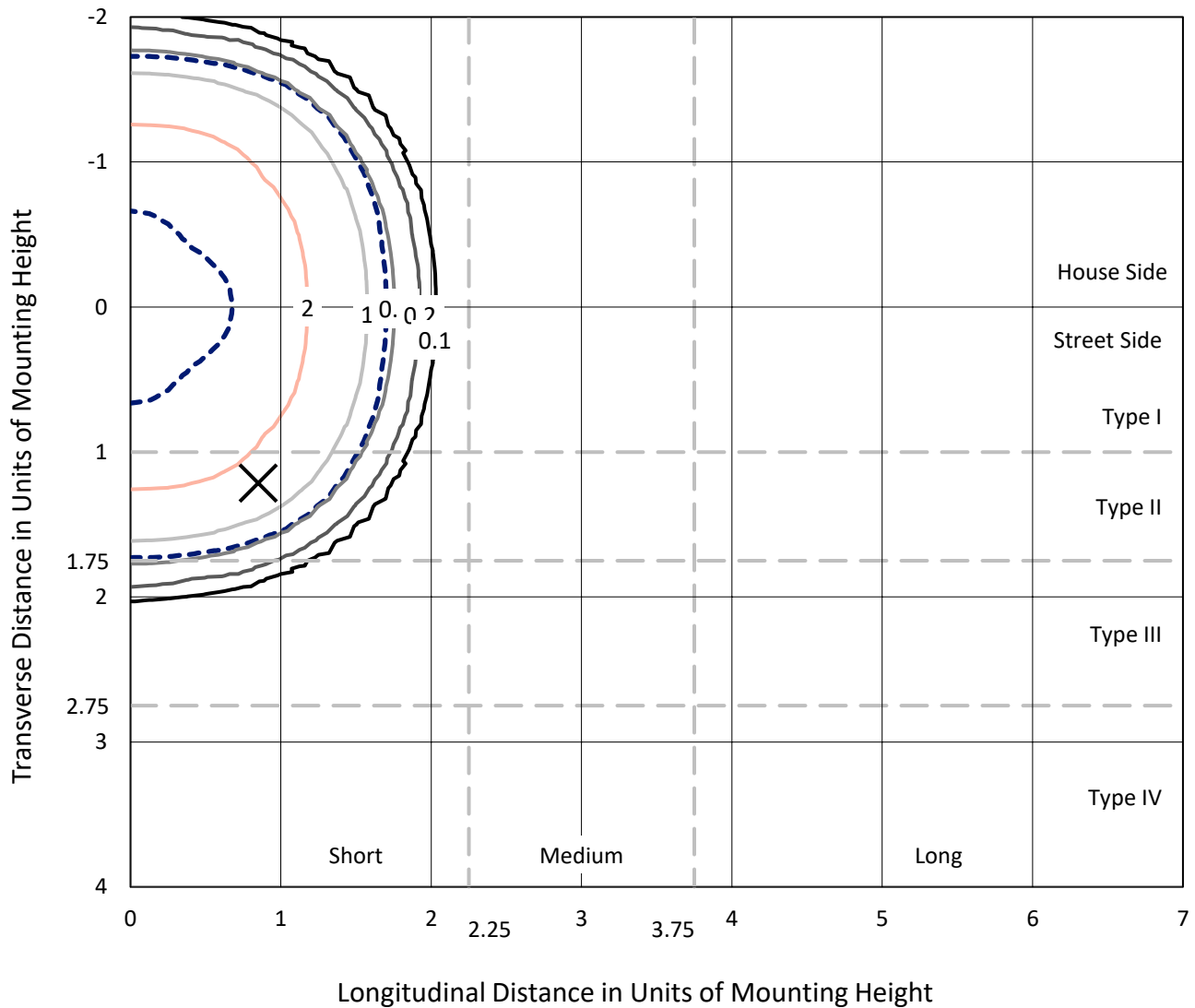
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

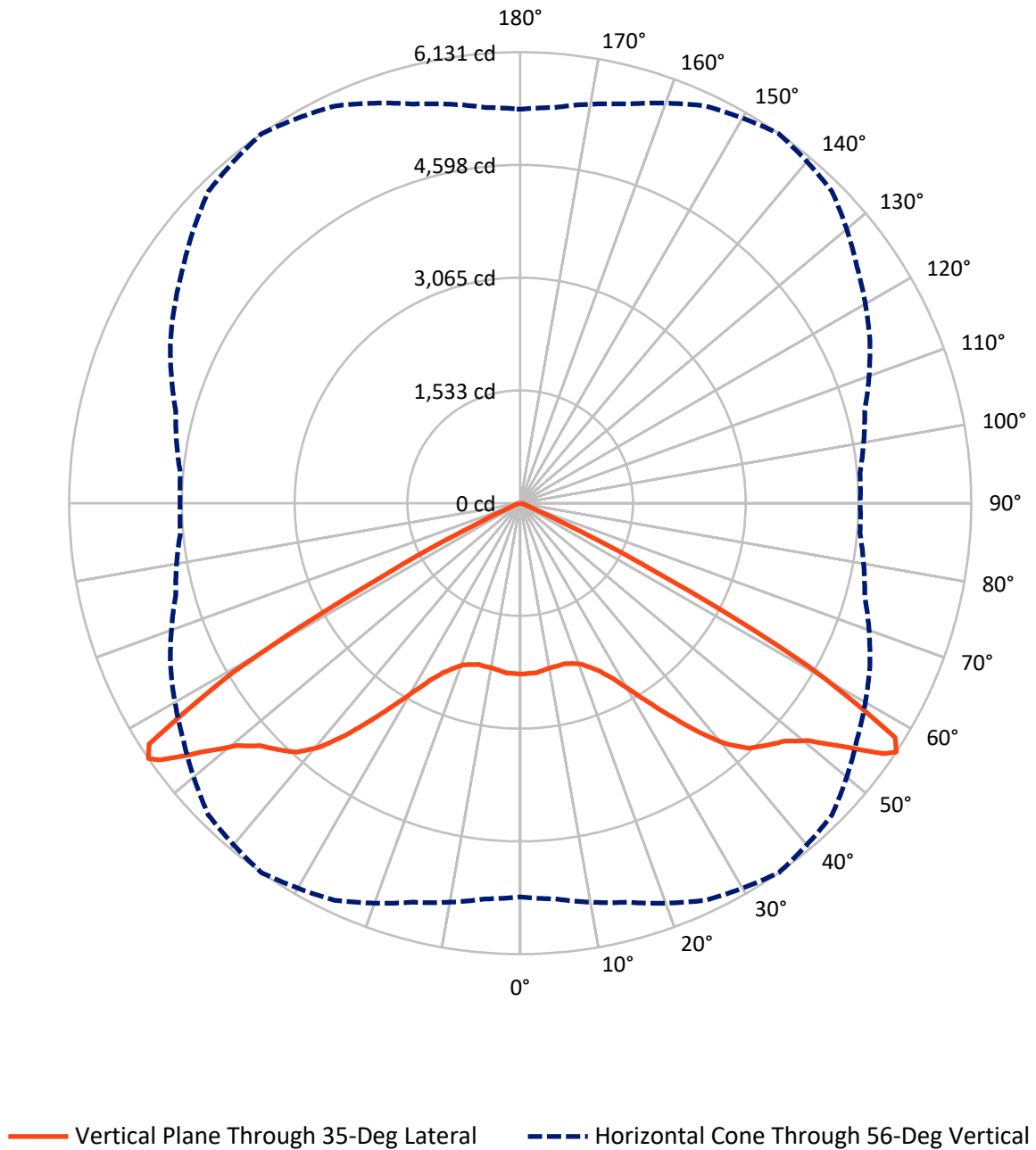
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6631.5	0.0	6631.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6631.5	0.0	6631.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13263.0	0.0	13263.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	1.6
10°-20°	637.7	4.8
20°-30°	1154.7	8.7
30°-40°	2141.3	16.1
40°-50°	3514.8	26.5
50°-60°	4528.1	34.1
60°-70°	997.9	7.5
70°-80°	57.9	0.4
80°-90°	12.2	0.1
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°	13263.0	100.0
0°-180°	13263.0	100.0

Coefficient of Utilization



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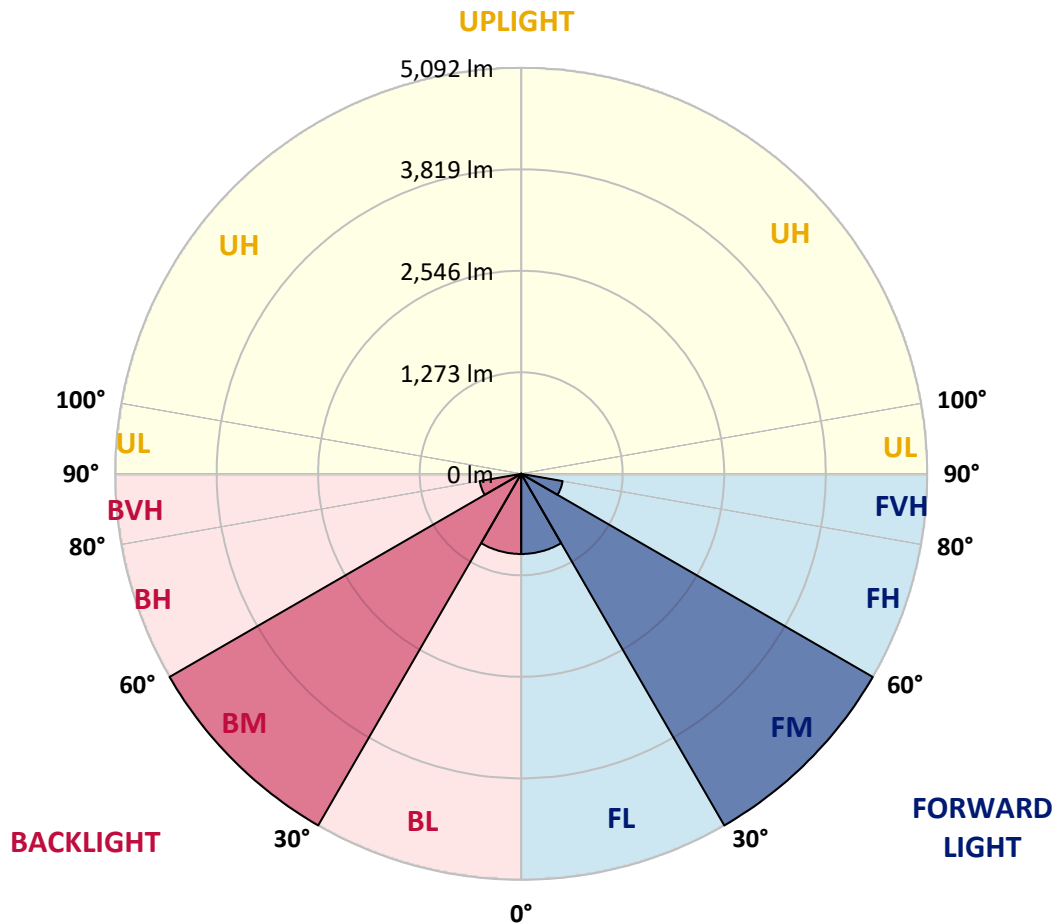
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.4	7.6			
FM	(30°-60°)	5092.1	38.4			
FH	(60°-80°)	527.9	4.0			G0/660
FVH	(80°-90°)	6.1	0.0			G0/10
BL	(0°-30°)	1005.4	7.6	B3/2500		
BM	(30°-60°)	5092.1	38.4	B4/8500		
BH	(60°-80°)	527.9	4.0	B2/1000		G0/660
BVH	(80°-90°)	6.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0
2.5°	2328.8	2328.8	2331.2	2333.6	2316.8	2309.5	2311.9	2307.1	2304.7	2311.9	2311.9
5°	2321.6	2321.6	2314.3	2316.8	2316.8	2295.1	2295.1	2299.9	2299.9	2285.5	2280.7
7.5°	2302.3	2297.5	2287.9	2299.9	2292.7	2292.7	2275.9	2263.9	2259.1	2268.7	2259.1
10°	2261.5	2263.9	2273.5	2278.3	2273.5	2287.9	2259.1	2242.3	2225.4	2218.2	2218.2
12.5°	2242.3	2256.7	2242.3	2254.3	2271.1	2259.1	2242.3	2230.2	2206.2	2196.6	2196.6
15°	2239.8	2249.5	2254.3	2271.1	2263.9	2268.7	2235.0	2220.6	2184.6	2167.8	2160.5
17.5°	2237.4	2249.5	2256.7	2287.9	2292.7	2295.1	2268.7	2225.4	2194.2	2177.4	2160.5
20°	2263.9	2268.7	2283.1	2314.3	2333.6	2367.2	2319.2	2273.5	2206.2	2187.0	2179.8
22.5°	2297.5	2321.6	2336.0	2369.6	2420.1	2448.9	2386.4	2328.8	2259.1	2235.0	2206.2
25°	2405.7	2400.9	2424.9	2494.6	2535.5	2557.1	2506.6	2422.5	2331.2	2302.3	2307.1
27.5°	2540.3	2545.1	2566.7	2643.6	2703.7	2737.3	2677.2	2566.7	2477.8	2429.7	2424.9
30°	2715.7	2710.9	2734.9	2838.3	2946.4	2996.9	2891.1	2761.4	2674.8	2612.4	2626.8
32.5°	2900.7	2903.2	2970.4	3064.2	3239.6	3338.1	3167.5	3008.9	2879.1	2835.9	2814.2
35°	3174.7	3186.7	3239.6	3383.8	3578.5	3705.8	3518.4	3328.5	3179.5	3100.2	3109.8
37.5°	3513.6	3501.6	3590.5	3746.7	3951.0	4044.7	3886.1	3669.8	3518.4	3465.5	3499.2
40°	3874.1	3886.1	3931.8	4073.5	4301.9	4364.3	4128.8	4011.1	3878.9	3852.4	3893.3
42.5°	4234.6	4227.4	4261.0	4388.4	4554.2	4510.9	4371.5	4301.9	4208.1	4155.3	4210.5
45°	4498.9	4486.9	4549.4	4635.9	4696.0	4614.3	4551.8	4527.8	4479.7	4422.0	4472.5
47.5°	4756.1	4746.5	4806.5	4830.6	4835.4	4727.2	4739.2	4782.5	4662.3	4542.2	4599.9
50°	4974.8	4957.9	5032.4	5085.3	5073.3	4900.3	4943.5	4900.3	4712.8	4571.0	4549.4
52.5°	5340.1	5347.3	5426.6	5522.7	5493.9	5349.7	5287.2	5090.1	4849.8	4722.4	4647.9
55°	5570.8	5534.7	5671.7	5976.9	6010.6	5861.6	5585.2	5294.4	4933.9	4777.7	4758.5
56°	5354.5	5400.1	5616.4	5957.7	6130.7	5993.8	5592.4	5243.9	4847.4	4635.9	4621.5
57.5°	4804.1	4780.1	5073.3	5539.5	6010.6	5952.9	5395.3	4883.4	4422.0	4184.1	4155.3
60°	2989.7	3059.4	3316.5	3893.3	4523.0	4551.8	3999.0	3559.2	3020.9	2809.4	2859.9
62.5°	1170.4	1110.3	1271.3	1701.5	2134.1	2230.2	2021.2	1679.9	1379.5	1170.4	1156.0
65°	271.6	264.4	298.0	411.0	574.4	665.7	632.1	454.2	334.1	317.2	293.2
67.5°	153.8	153.8	146.6	146.6	161.0	170.6	163.4	161.0	168.2	175.4	173.0
70°	108.1	105.7	100.9	103.3	98.5	98.5	105.7	117.8	127.4	127.4	129.8
72.5°	64.9	64.9	64.9	72.1	72.1	72.1	79.3	88.9	91.3	88.9	86.5
75°	28.8	28.8	33.6	40.9	45.7	48.1	55.3	60.1	64.9	60.1	55.3
77.5°	7.2	7.2	12.0	16.8	21.6	26.4	36.0	43.3	45.7	43.3	36.0
80°	2.4	2.4	4.8	12.0	21.6	26.4	36.0	38.5	40.9	36.0	28.8
82.5°	2.4	2.4	4.8	12.0	16.8	21.6	28.8	33.6	36.0	31.2	28.8
85°	0.0	2.4	4.8	9.6	14.4	19.2	19.2	14.4	12.0	7.2	9.6
87.5°	0.0	0.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)