

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: P529503

Luminaire Tested: **GALN-SA4C-830-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
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-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14282 lumens
Efficiency: N/A
Efficacy: 67.1 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



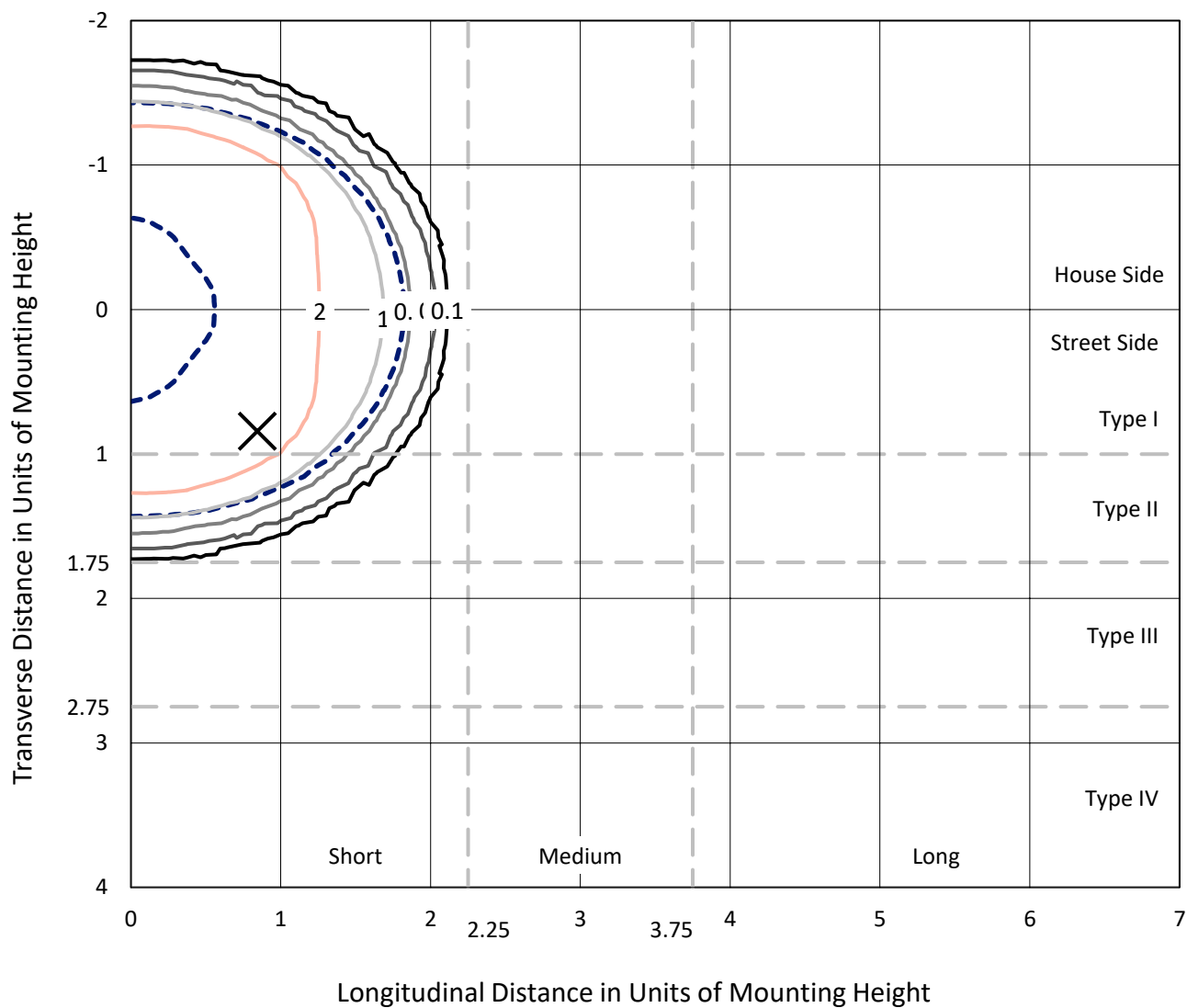
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



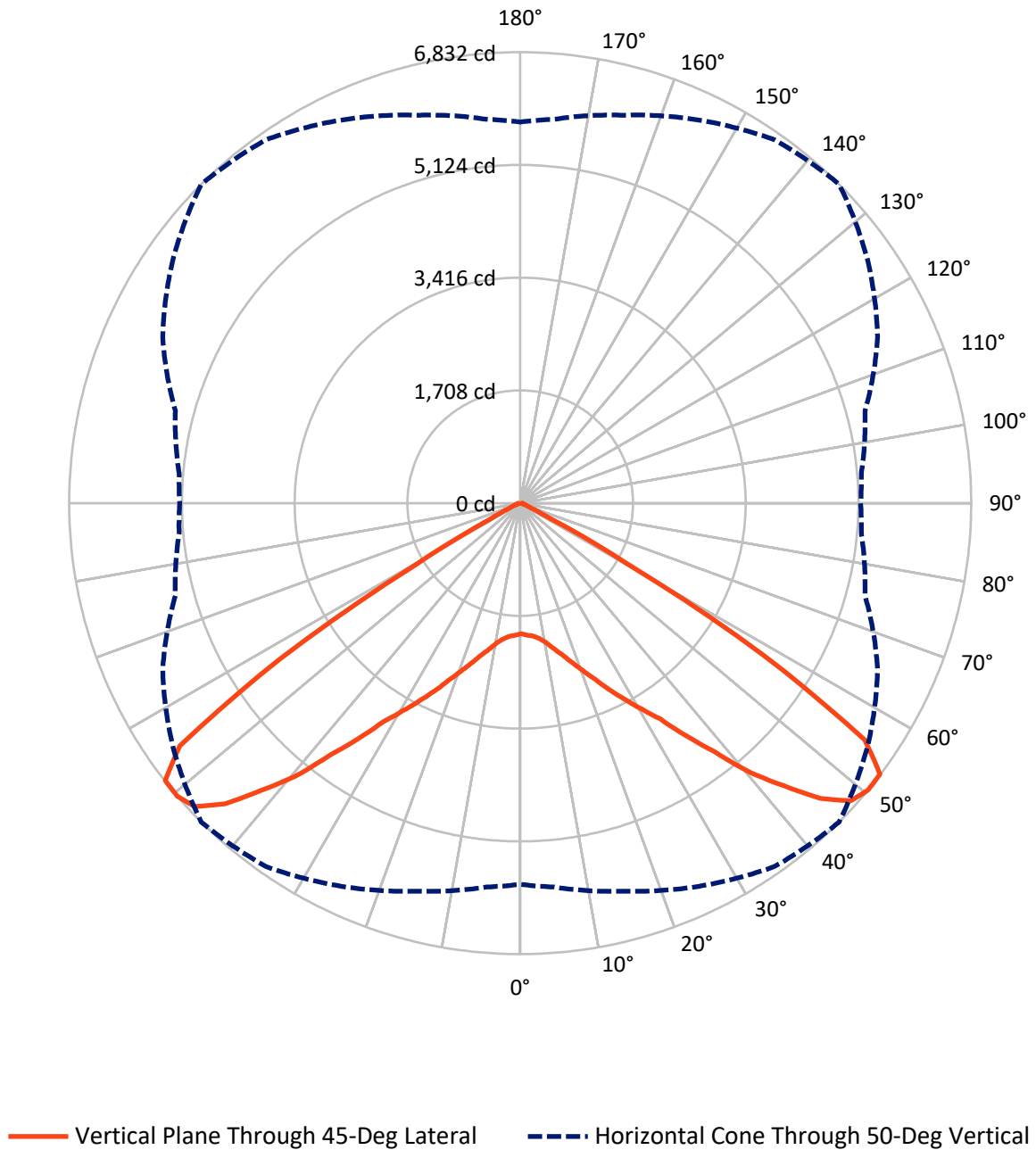
Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

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	7141.0	0.0	7141.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7141.0	0.0	7141.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14282.0	0.0	14282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	1.4
10°-20°	678.9	4.8
20°-30°	1386.6	9.7
30°-40°	2644.3	18.5
40°-50°	4456.0	31.2
50°-60°	4249.6	29.8
60°-70°	593.2	4.2
70°-80°	56.7	0.4
80°-90°	19.6	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°	14282.0	100.0
0°-180°	14282.0	100.0

Coefficient of Utilization



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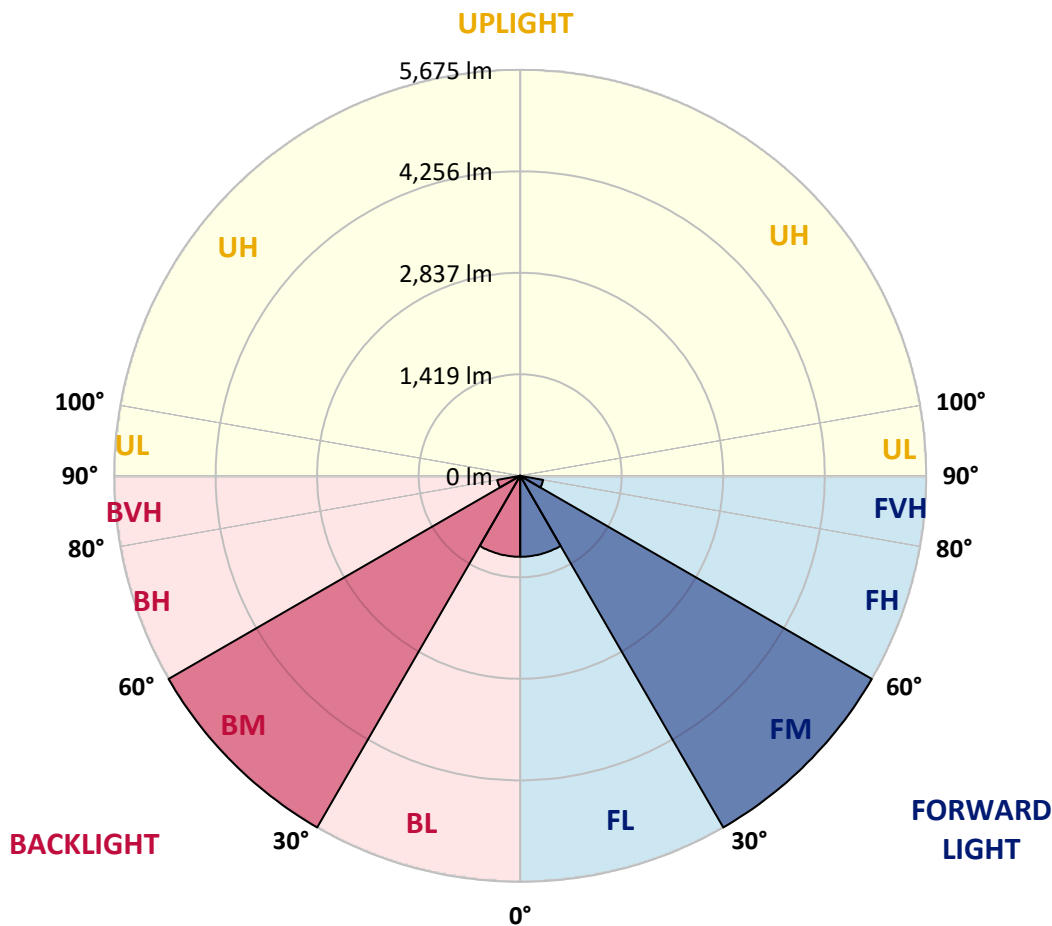
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1131.3	7.9			
FM	(30°-60°)	5675.0	39.7			
FH	(60°-80°)	325.0	2.3			G0/660
FVH	(80°-90°)	9.8	0.1			G0/10
BL	(0°-30°)	1131.3	7.9	B3/2500		
BM	(30°-60°)	5675.0	39.7	B4/8500		
BH	(60°-80°)	325.0	2.3	B1/500		G0/660
BVH	(80°-90°)	9.8	0.1			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°	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0
2.5°	1972.8	1972.8	1970.4	1989.7	1980.0	2001.7	1999.3	2006.5	2013.7	2011.3	2030.5
5°	1956.0	1953.6	1953.6	1975.2	1996.9	2020.9	2042.5	2056.9	2081.0	2081.0	2105.0
7.5°	1972.8	1960.8	1977.6	1987.3	2028.1	2069.0	2105.0	2133.8	2189.1	2208.3	2201.1
10°	1977.6	1992.1	2004.1	2032.9	2083.4	2145.8	2177.1	2249.2	2311.7	2354.9	2364.5
12.5°	2008.9	2030.5	2064.1	2133.8	2179.5	2261.2	2304.4	2374.1	2460.6	2508.7	2542.3
15°	2069.0	2076.2	2119.4	2208.3	2306.8	2381.3	2448.6	2499.1	2583.2	2638.5	2640.9
17.5°	2145.8	2177.1	2237.2	2321.3	2424.6	2535.1	2588.0	2643.3	2674.5	2749.0	2765.8
20°	2299.6	2304.4	2362.1	2472.6	2602.4	2703.3	2741.8	2770.6	2758.6	2835.5	2849.9
22.5°	2443.8	2448.6	2520.7	2669.7	2809.1	2895.6	2912.4	2895.6	2859.5	2914.8	2919.6
25°	2590.4	2633.6	2686.5	2835.5	3008.5	3123.9	3126.3	3080.6	3006.1	3015.7	3039.7
27.5°	2818.7	2849.9	2905.2	3042.2	3232.0	3361.7	3340.1	3284.9	3188.7	3195.9	3188.7
30°	3085.4	3114.2	3159.9	3335.3	3474.7	3616.5	3647.7	3594.8	3450.7	3419.4	3455.5
32.5°	3407.4	3448.3	3532.4	3693.4	3811.1	3897.6	3919.2	3900.0	3765.4	3753.4	3777.5
35°	3799.1	3854.4	3931.2	4073.0	4169.1	4325.3	4325.3	4260.5	4137.9	4152.3	4149.9
37.5°	4212.4	4294.1	4414.2	4558.4	4688.2	4772.3	4745.9	4690.6	4568.0	4536.8	4568.0
40°	4731.4	4772.3	4923.7	5111.1	5269.7	5365.8	5252.9	5132.7	4839.6	4885.2	4969.3
42.5°	5204.8	5269.7	5385.0	5591.7	5771.9	5851.2	5716.7	5478.8	5125.5	5089.5	5152.0
45°	5608.5	5678.2	5829.6	6125.2	6315.0	6384.7	6086.7	5702.2	5298.5	5207.2	5233.7
47.5°	5877.6	5913.7	6125.2	6406.3	6579.3	6737.9	6310.2	5856.0	5380.2	5207.2	5197.6
50°	5774.3	5836.8	6084.3	6403.9	6718.7	6831.6	6423.1	5973.8	5406.7	5185.6	5156.8
52.5°	5127.9	5236.1	5512.4	5942.5	6418.3	6822.0	6579.3	5935.3	5397.1	5207.2	5250.5
55°	3568.4	3570.8	3907.2	4541.6	5382.6	6334.2	6351.0	5978.6	5459.5	5341.8	5344.2
57.5°	1434.6	1506.7	1763.8	2400.6	3176.7	4349.4	5171.2	5546.0	5466.7	5437.9	5512.4
60°	362.8	365.3	444.5	677.6	1117.4	1864.7	2708.1	3664.5	4219.6	4409.4	4435.9
62.5°	185.0	187.4	206.7	240.3	305.2	499.8	889.1	1410.5	2006.5	2309.2	2388.5
65°	151.4	151.4	163.4	180.2	182.6	192.2	230.7	329.2	478.2	543.1	550.3
67.5°	115.3	115.3	125.0	134.6	139.4	137.0	132.2	137.0	165.8	158.6	153.8
70°	72.1	74.5	79.3	88.9	93.7	96.1	98.5	103.3	117.7	122.6	117.7
72.5°	43.3	43.3	45.7	52.9	60.1	64.9	72.1	76.9	84.1	96.1	93.7
75°	19.2	19.2	24.0	31.2	38.4	45.7	52.9	60.1	64.9	72.1	74.5
77.5°	4.8	7.2	12.0	21.6	28.8	38.4	48.1	55.3	60.1	60.1	57.7
80°	2.4	2.4	9.6	16.8	31.2	40.9	52.9	57.7	64.9	60.1	52.9
82.5°	2.4	2.4	9.6	16.8	28.8	40.9	55.3	62.5	67.3	60.1	50.5
85°	0.0	2.4	7.2	14.4	24.0	28.8	24.0	16.8	9.6	9.6	7.2
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)