

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: P454081

Luminaire Tested: **GALN-SA5A-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18776 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

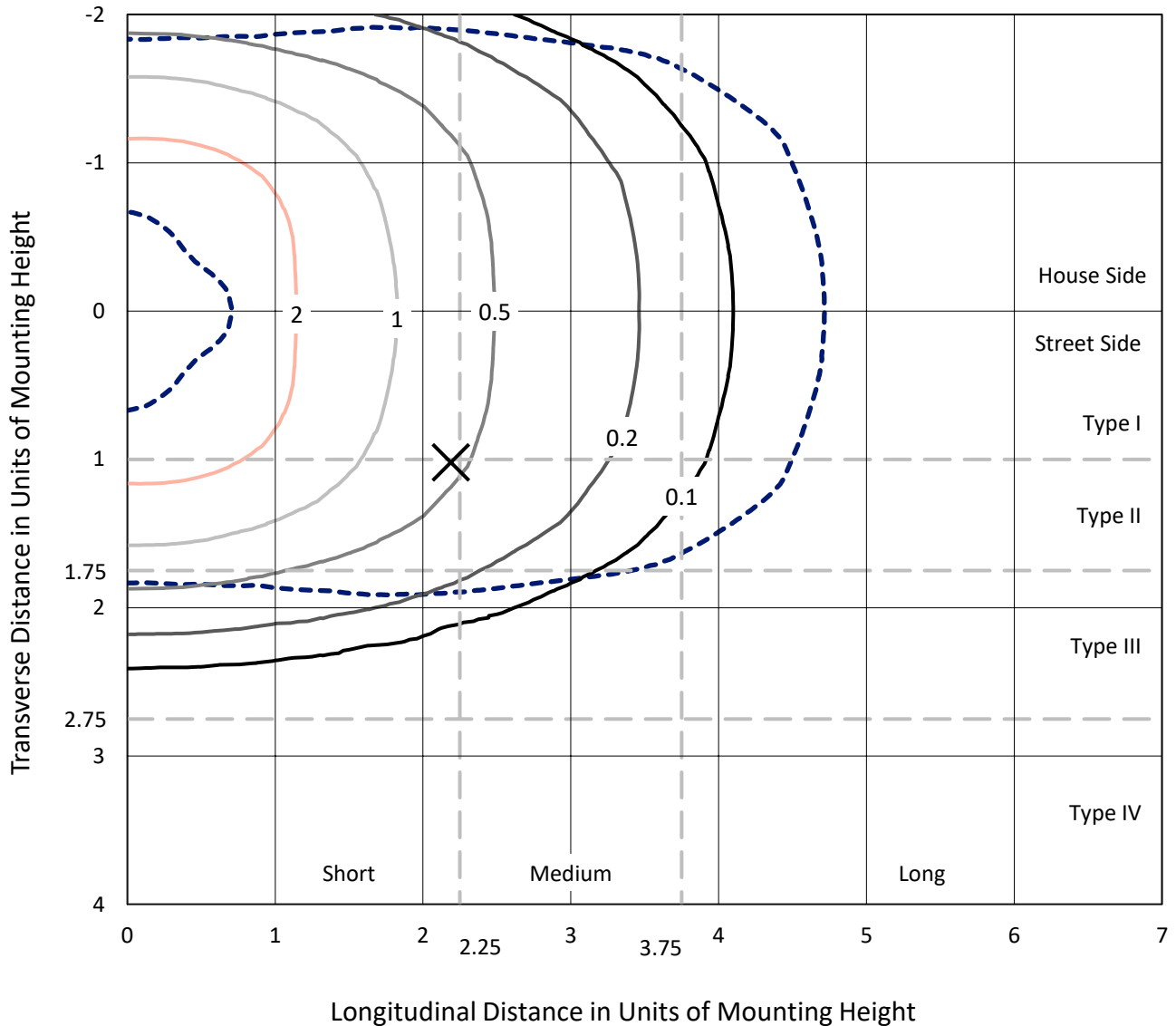
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

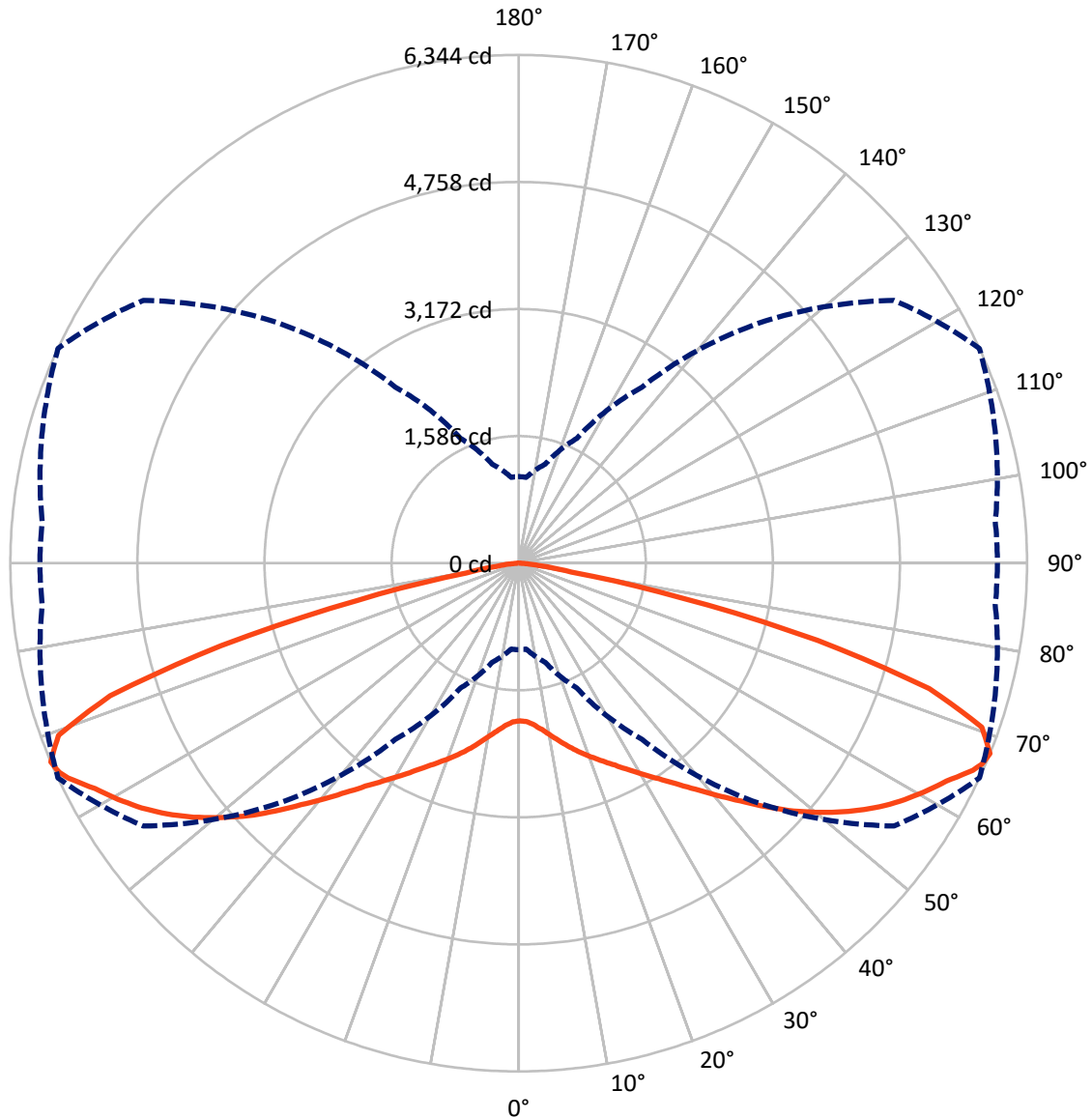
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9388.0	0.0	9388.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9388.0	0.0	9388.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18776.0	0.0	18776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	1.0
10°-20°	649.2	3.5
20°-30°	1269.8	6.8
30°-40°	2159.8	11.5
40°-50°	3418.3	18.2
50°-60°	4532.6	24.1
60°-70°	4275.7	22.8
70°-80°	2113.7	11.3
80°-90°	162.9	0.9
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°	18776.0	100.0
0°-180°	18776.0	100.0

Coefficient of Utilization



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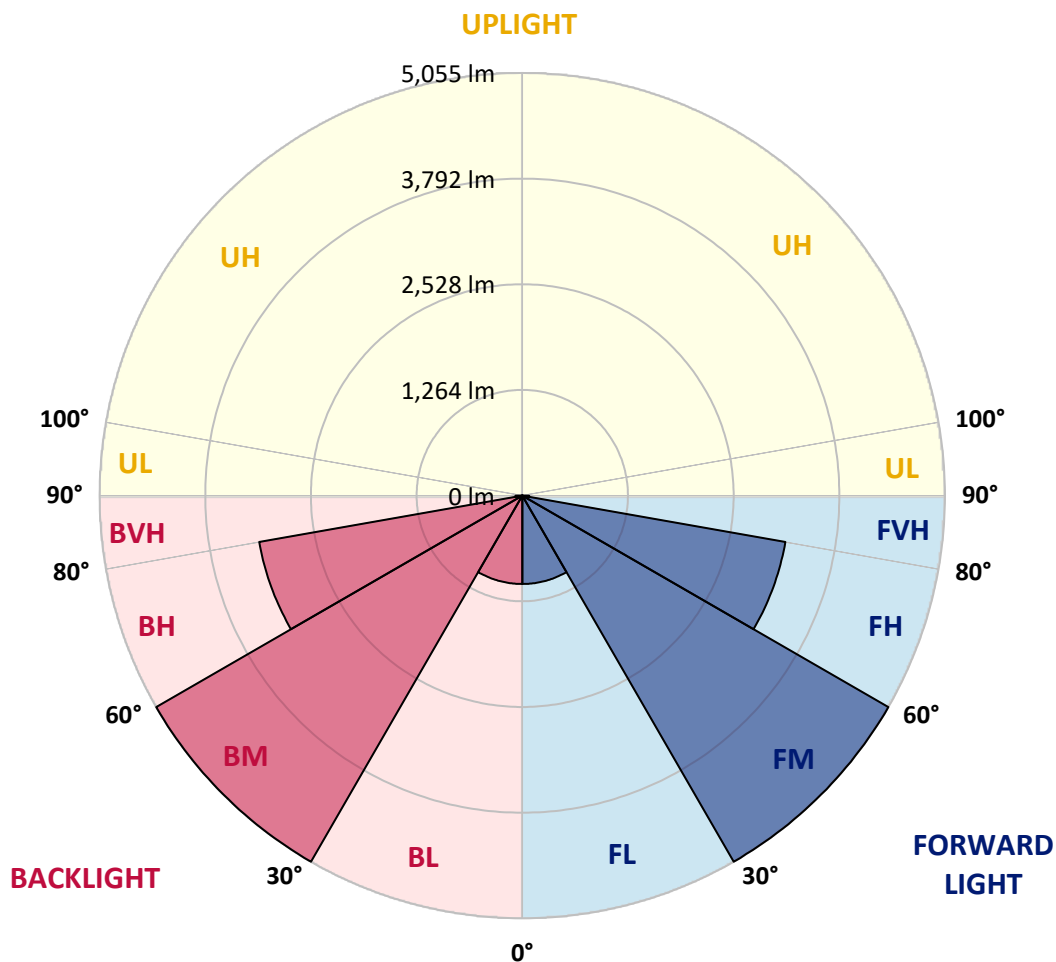
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1056.5	5.6			
FM	(30°-60°)	5055.4	26.9			
FH	(60°-80°)	3194.7	17.0			G2/5000
FVH	(80°-90°)	81.4	0.4			G1/100
BL	(0°-30°)	1056.5	5.6	B3/2500		
BM	(30°-60°)	5055.4	26.9	B4/8500		
BH	(60°-80°)	3194.7	17.0	B4/5000		G4/5000
BVH	(80°-90°)	81.4	0.4			G1/100
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°	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6	1966.6
2.5°	1956.6	1958.6	1960.6	1963.6	1967.6	1973.7	1977.7	1980.7	1988.8	1989.8	1988.8
5°	1949.5	1951.5	1956.6	1965.6	1978.7	1996.8	2010.9	2028.0	2041.1	2050.1	2048.1
7.5°	1948.5	1952.5	1960.6	1979.7	2004.8	2036.0	2068.2	2097.4	2122.5	2142.7	2139.6
10°	1964.6	1969.6	1982.7	2010.9	2050.1	2095.4	2140.6	2183.9	2220.1	2246.3	2255.3
12.5°	1991.8	1995.8	2019.9	2062.2	2118.5	2174.9	2226.2	2279.5	2329.8	2374.0	2374.0
15°	2039.0	2046.1	2076.3	2137.6	2207.0	2272.4	2324.7	2381.1	2435.4	2485.7	2500.8
17.5°	2104.4	2114.5	2159.8	2238.2	2326.7	2387.1	2436.4	2482.7	2529.9	2578.2	2585.3
20°	2194.0	2204.0	2264.4	2358.9	2463.6	2536.0	2569.2	2580.2	2603.4	2649.7	2655.7
22.5°	2315.7	2325.7	2393.1	2499.8	2616.5	2694.9	2709.0	2682.9	2676.8	2713.0	2717.1
25°	2453.5	2462.6	2540.0	2654.7	2775.4	2860.9	2856.9	2792.5	2756.3	2778.4	2784.5
27.5°	2608.4	2621.5	2700.0	2818.7	2949.4	3024.9	3012.8	2919.2	2841.8	2837.8	2839.8
30°	2806.6	2820.7	2895.1	3008.8	3137.5	3206.9	3181.8	3056.1	2936.4	2896.1	2896.1
32.5°	3015.8	3051.0	3126.5	3245.2	3345.8	3396.1	3357.8	3206.9	3048.0	2991.7	2988.7
35°	3288.4	3307.5	3382.0	3497.7	3573.1	3612.3	3538.9	3377.0	3193.9	3127.5	3118.4
37.5°	3555.0	3571.1	3657.6	3768.3	3859.8	3857.8	3758.2	3579.1	3374.9	3300.5	3294.5
40°	3827.6	3844.7	3943.3	4044.9	4136.4	4128.4	4007.7	3807.5	3590.2	3506.7	3522.8
42.5°	4064.0	4083.1	4194.8	4339.6	4422.1	4420.1	4280.3	4055.0	3828.6	3754.2	3768.3
45°	4279.3	4296.4	4426.2	4592.1	4712.8	4727.9	4575.0	4336.6	4104.3	4008.7	4012.7
47.5°	4431.2	4463.4	4599.2	4789.3	4953.3	5006.6	4856.7	4623.3	4355.7	4256.1	4262.2
50°	4546.9	4567.0	4714.9	4931.1	5138.4	5249.0	5128.3	4888.9	4607.2	4501.6	4515.7
52.5°	4560.9	4585.1	4746.0	4995.5	5261.1	5429.1	5369.7	5148.4	4863.7	4755.1	4785.3
55°	4446.3	4460.4	4652.5	4955.3	5309.4	5562.9	5578.0	5389.8	5108.2	5025.7	5045.8
57.5°	4119.3	4155.6	4399.0	4767.2	5243.0	5634.3	5733.9	5609.1	5355.6	5274.2	5306.4
60°	3583.2	3619.4	3863.8	4330.6	4992.5	5601.1	5862.6	5803.3	5580.0	5514.6	5531.7
62.5°	2807.6	2804.6	3107.4	3679.7	4494.6	5438.1	5958.2	5990.4	5801.3	5718.8	5744.9
65°	1819.8	1828.8	2121.5	2738.2	3743.1	5023.7	5979.3	6228.8	6018.6	5893.8	5912.9
66°	1463.6	1490.8	1739.3	2307.6	3359.9	4752.1	5916.0	6299.2	6085.0	5934.1	5943.1
67.5°	1080.4	1075.4	1279.6	1718.2	2682.9	4236.0	5717.8	6343.5	6160.4	5970.3	5974.3
70°	616.6	615.6	688.1	943.6	1577.3	2982.6	4819.5	6131.2	6313.3	6101.0	6090.0
72.5°	450.7	447.6	457.7	521.1	769.5	1505.9	3324.6	5358.7	6234.8	6079.9	6048.7
75°	378.2	376.2	374.2	382.3	431.5	682.0	1764.4	3854.8	5410.0	5706.7	5674.5
77.5°	308.8	308.8	309.8	307.8	309.8	359.1	731.3	2066.2	3294.5	3677.7	3767.3
80°	241.4	240.4	257.5	250.5	234.4	230.4	323.9	664.9	1093.5	1087.4	897.3
82.5°	178.1	166.0	196.2	191.1	173.0	146.9	189.1	283.7	365.2	237.4	176.0
85°	112.7	111.7	138.8	126.7	105.6	69.4	90.5	121.7	150.9	91.5	74.4
87.5°	20.1	19.1	44.3	32.2	32.2	20.1	25.1	33.2	49.3	34.2	25.1
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)