

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: P527860

Luminaire Tested: **GALN-SA2D-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11134 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 125
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



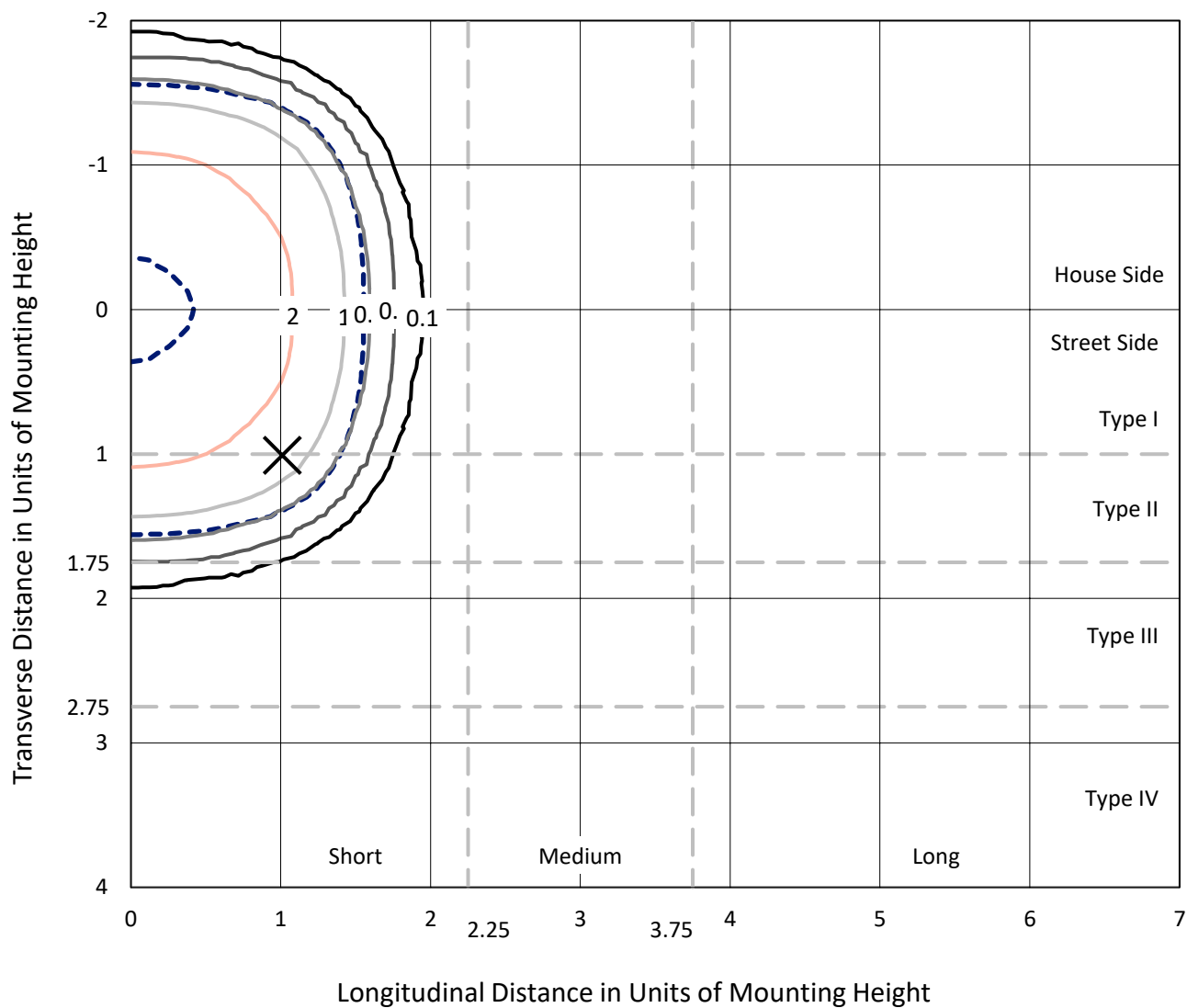
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

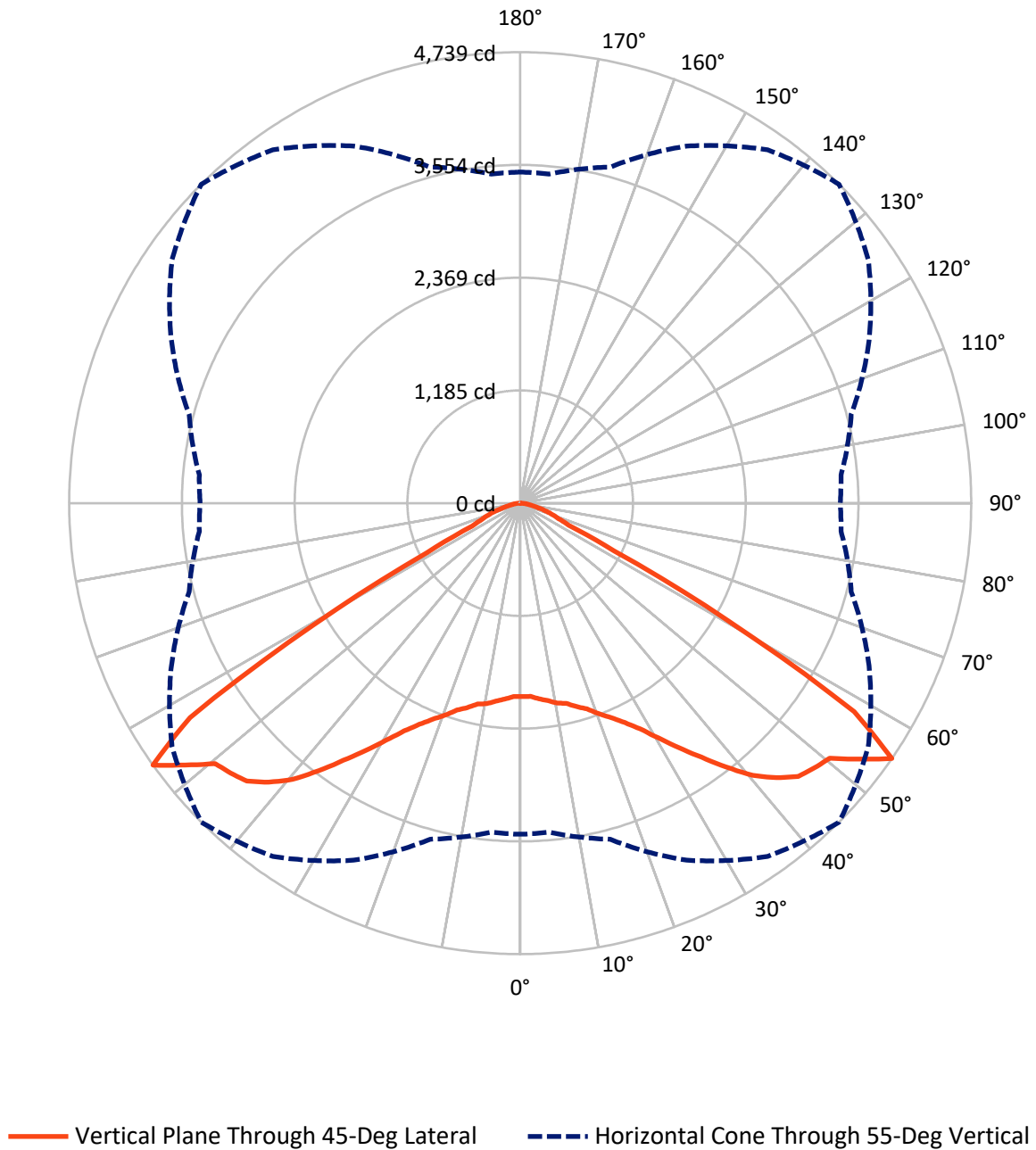
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	5567.0	0.0	5567.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5567.0	0.0	5567.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11134.0	0.0	11134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.6	1.8
10°-20°	629.2	5.7
20°-30°	1173.4	10.5
30°-40°	1964.6	17.6
40°-50°	3057.0	27.5
50°-60°	3174.2	28.5
60°-70°	673.1	6.0
70°-80°	221.7	2.0
80°-90°	42.2	0.4
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°	11134.0	100.0
0°-180°	11134.0	100.0

Coefficient of Utilization



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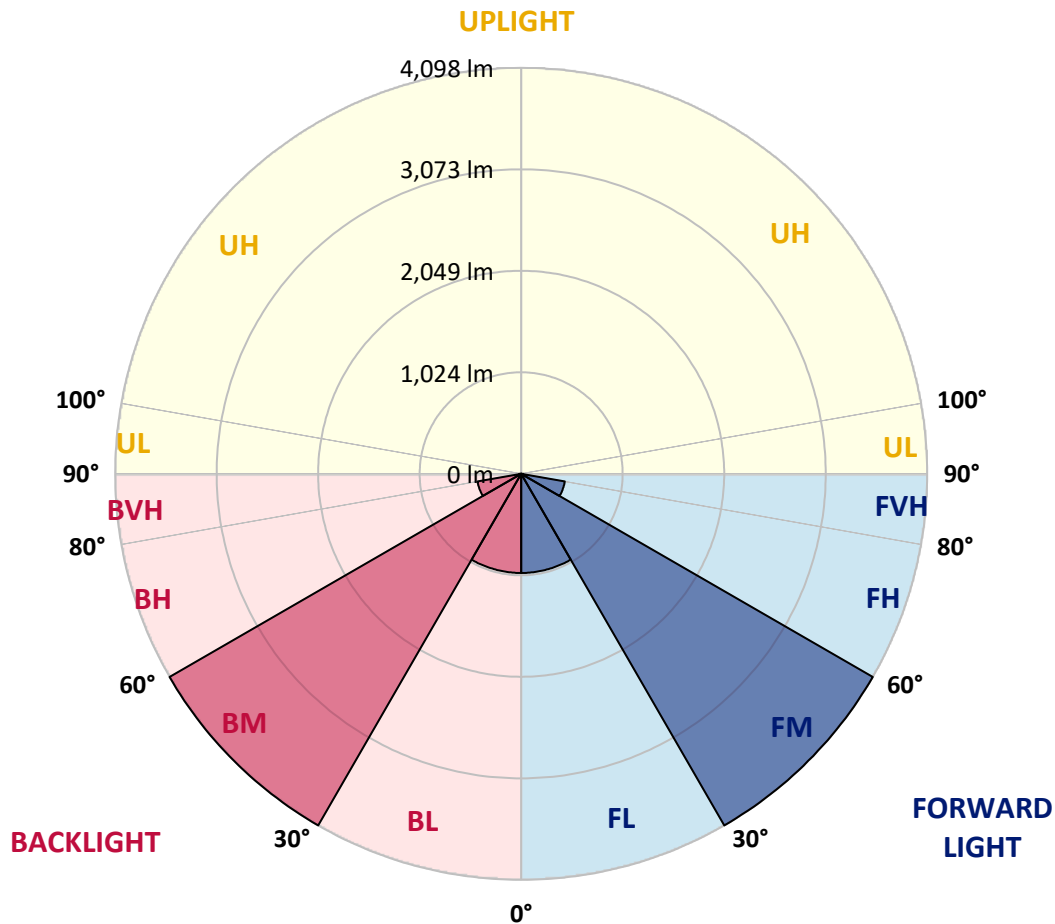
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1000.6	9.0			
FM	(30°-60°)	4097.9	36.8			
FH	(60°-80°)	447.4	4.0			G0/660
FVH	(80°-90°)	21.1	0.2			G1/100
BL	(0°-30°)	1000.6	9.0	B3/2500		
BM	(30°-60°)	4097.9	36.8	B3/5000		
BH	(60°-80°)	447.4	4.0	B1/500		G0/660
BVH	(80°-90°)	21.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9	2032.9
2.5°	2057.1	2047.7	2031.6	2043.7	2053.1	2032.9	2041.0	2045.0	2042.3	2031.6	2035.6
5°	2086.7	2081.3	2067.9	2077.3	2065.2	2065.2	2057.1	2046.4	2062.5	2059.8	2066.5
7.5°	2086.7	2080.0	2106.9	2089.4	2094.8	2094.8	2081.3	2070.6	2078.6	2066.5	2059.8
10°	2128.4	2137.8	2125.7	2129.8	2127.1	2136.5	2116.3	2109.6	2102.9	2098.8	2090.8
12.5°	2178.2	2171.5	2175.5	2172.8	2182.2	2158.0	2145.9	2131.1	2143.2	2125.7	2137.8
15°	2218.6	2214.5	2218.6	2229.3	2219.9	2218.6	2197.0	2182.2	2163.4	2167.4	2148.6
17.5°	2273.7	2269.7	2271.0	2280.5	2279.1	2272.4	2256.2	2228.0	2221.3	2210.5	2198.4
20°	2355.8	2349.1	2346.4	2350.4	2357.1	2362.5	2330.2	2319.5	2296.6	2279.1	2258.9
22.5°	2425.8	2423.1	2433.8	2416.3	2431.1	2447.3	2416.3	2411.0	2354.5	2345.0	2323.5
25°	2522.6	2518.6	2511.9	2537.4	2554.9	2553.6	2524.0	2494.4	2451.3	2440.6	2440.6
27.5°	2624.9	2602.0	2637.0	2643.7	2674.7	2684.1	2658.5	2615.5	2575.1	2552.2	2557.6
30°	2752.7	2731.2	2739.2	2787.7	2828.0	2863.0	2798.4	2735.2	2678.7	2638.3	2631.6
32.5°	2880.5	2859.0	2883.2	2930.3	3011.0	3063.5	3000.2	2889.9	2824.0	2764.8	2776.9
35°	2984.1	3000.2	3039.3	3110.6	3194.0	3278.7	3177.8	3093.1	2998.9	2933.0	2942.4
37.5°	3150.9	3200.7	3231.7	3313.7	3432.1	3519.6	3414.6	3304.3	3203.4	3117.3	3087.7
40°	3368.9	3402.5	3437.5	3534.4	3674.3	3761.7	3662.2	3518.2	3418.7	3329.9	3325.8
42.5°	3608.4	3640.7	3677.0	3795.4	3878.8	3944.7	3853.2	3776.5	3666.2	3596.3	3592.2
45°	3886.9	3864.0	3904.4	3982.4	4052.4	4095.4	4036.2	3998.5	3919.2	3854.6	3847.8
47.5°	4072.5	4052.4	4125.0	4195.0	4205.7	4158.6	4170.7	4205.7	4122.3	4016.0	4049.7
50°	4180.2	4180.2	4228.6	4293.2	4273.0	4212.5	4308.0	4310.7	4227.3	4133.1	4133.1
52.5°	3993.2	4034.9	4172.1	4383.3	4450.6	4468.1	4446.6	4355.1	4137.1	3944.7	3935.3
55°	3479.2	3469.8	3655.5	4139.8	4531.3	4738.5	4464.0	4042.9	3600.3	3383.7	3362.2
57.5°	2263.0	2273.7	2550.9	3044.6	3751.0	4137.1	3674.3	3082.3	2550.9	2252.2	2280.5
60°	1018.5	1054.8	1223.0	1591.6	2198.4	2513.2	2203.8	1672.3	1283.5	1114.0	1128.8
62.5°	585.2	592.0	598.7	710.4	936.4	1107.3	972.7	750.7	661.9	632.3	632.3
65°	493.8	489.7	491.1	500.5	524.7	559.7	544.9	524.7	527.4	524.7	520.7
67.5°	419.8	425.1	421.1	427.8	429.2	434.6	444.0	452.1	453.4	456.1	453.4
70°	344.4	345.8	348.5	353.8	355.2	359.2	372.7	379.4	383.4	383.4	388.8
72.5°	263.7	262.4	265.0	270.4	277.2	278.5	290.6	300.0	305.4	298.7	300.0
75°	173.6	174.9	178.9	183.0	192.4	201.8	205.8	215.3	216.6	219.3	212.6
77.5°	103.6	106.3	110.3	118.4	126.5	134.5	144.0	150.7	153.4	150.7	142.6
80°	67.3	67.3	72.7	79.4	88.8	95.5	100.9	106.3	110.3	106.3	103.6
82.5°	41.7	41.7	48.4	56.5	63.2	67.3	75.3	82.1	86.1	83.4	79.4
85°	21.5	22.9	28.3	35.0	40.4	43.1	41.7	37.7	33.6	32.3	29.6
87.5°	6.7	6.7	8.1	8.1	6.7	6.7	8.1	6.7	8.1	8.1	8.1
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)