

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: P527858

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
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-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10912 lumens
Efficiency: N/A
Efficacy: 87.3 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

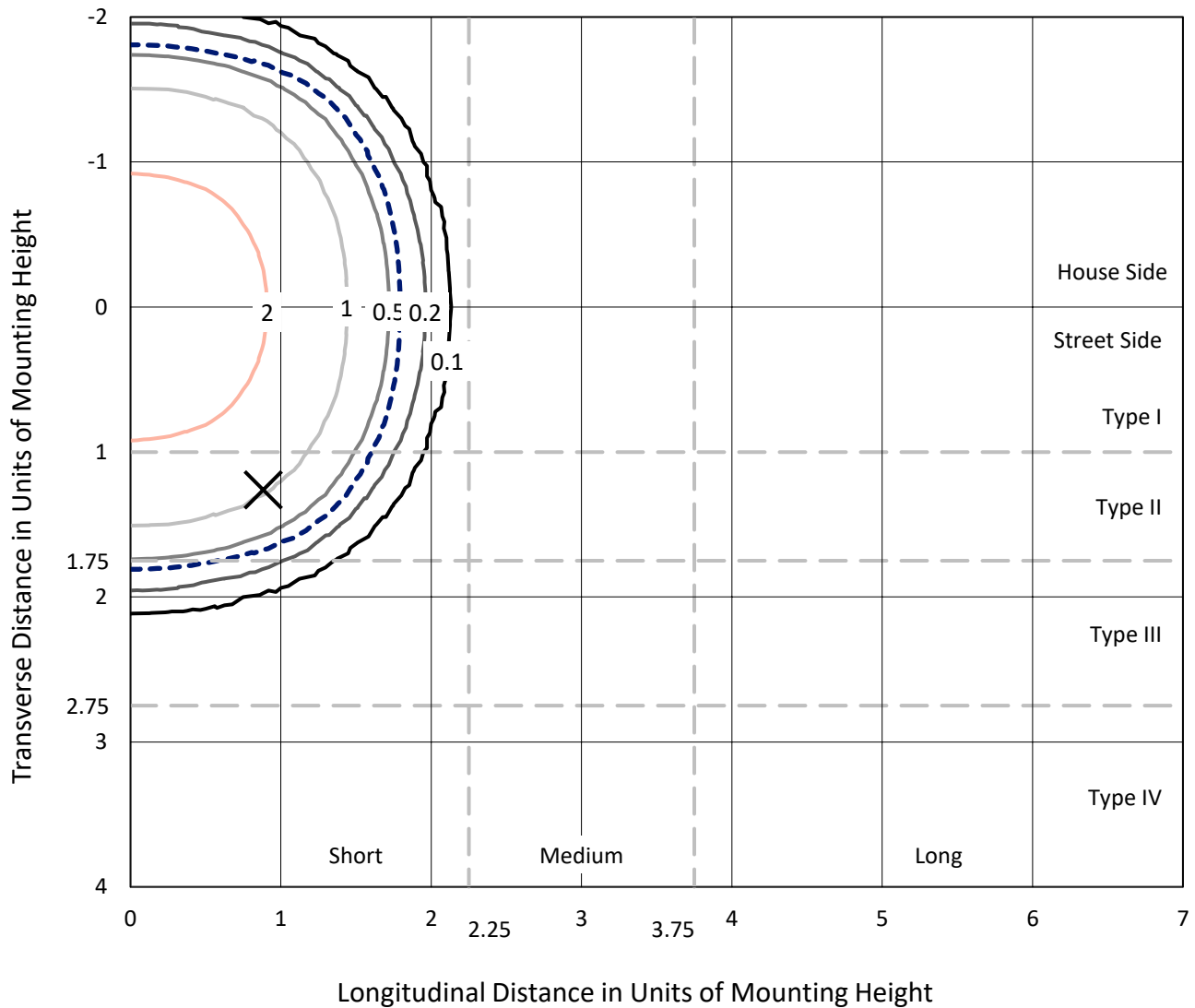


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

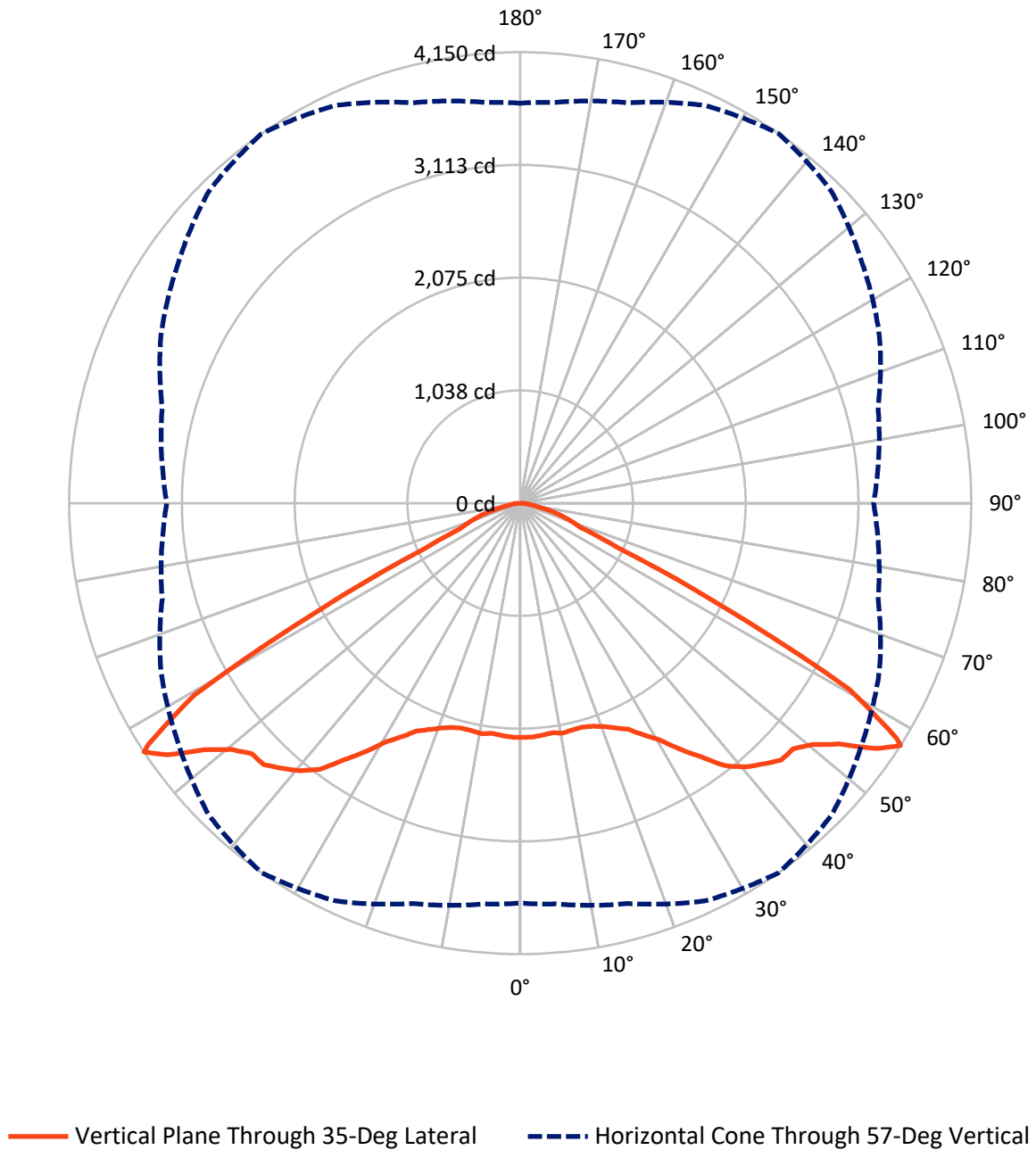


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5456.0	0.0	5456.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5456.0	0.0	5456.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10912.0	0.0	10912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	1.9
10°-20°	605.1	5.5
20°-30°	1056.8	9.7
30°-40°	1731.6	15.9
40°-50°	2538.9	23.3
50°-60°	3198.0	29.3
60°-70°	1202.7	11.0
70°-80°	319.8	2.9
80°-90°	54.8	0.5
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°	10912.0	100.0
0°-180°	10912.0	100.0

Coefficient of Utilization



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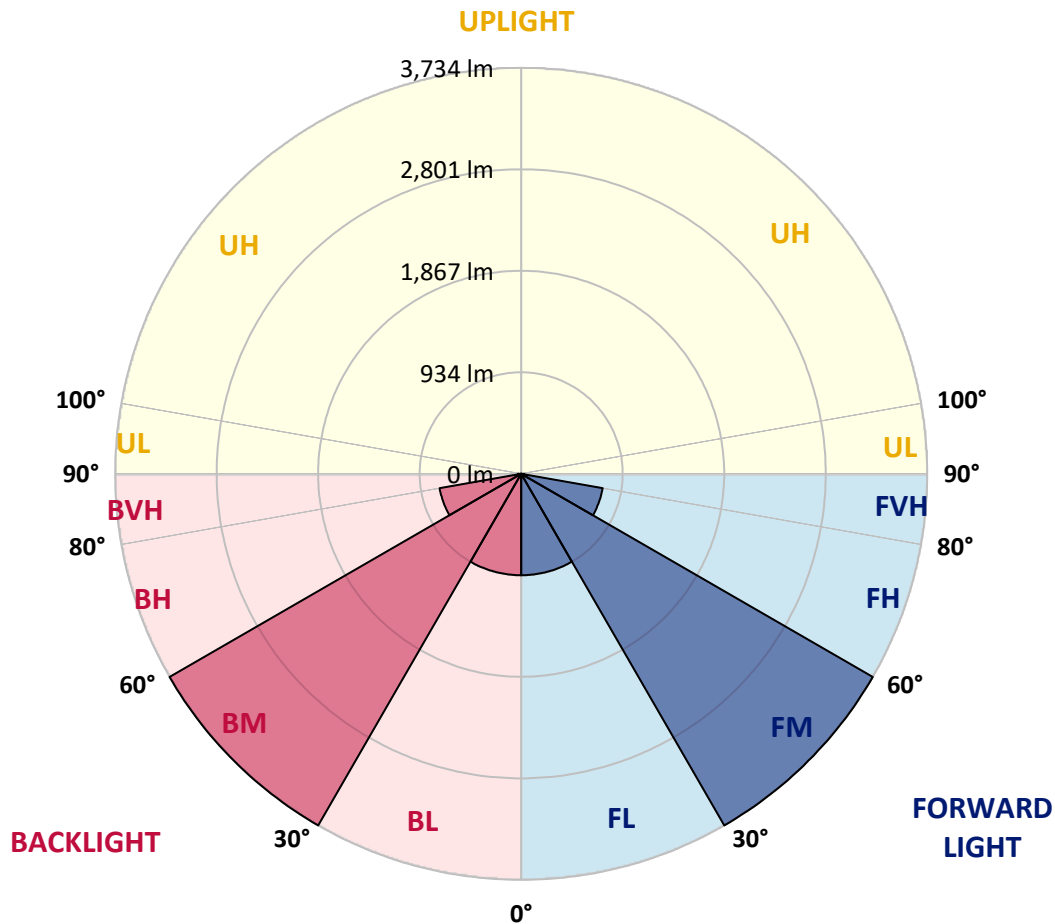
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	933.1	8.6			
FM	(30°-60°)	3734.2	34.2			
FH	(60°-80°)	761.3	7.0			G1/1800
FVH	(80°-90°)	27.4	0.3			G1/100
BL	(0°-30°)	933.1	8.6	B2/1000		
BM	(30°-60°)	3734.2	34.2	B3/5000		
BH	(60°-80°)	761.3	7.0	B2/1000		G1/1800
BVH	(80°-90°)	27.4	0.3			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°	2155.0	2155.0	2155.0	2155.0	2155.0	2155.0	2155.0	2155.0	2155.0	2155.0	2155.0
2.5°	2144.3	2165.8	2156.4	2151.0	2155.0	2148.3	2137.6	2149.7	2147.0	2136.2	2132.2
5°	2138.9	2155.0	2144.3	2155.0	2144.3	2163.1	2157.7	2137.6	2161.8	2138.9	2147.0
7.5°	2134.9	2140.3	2142.9	2137.6	2133.5	2156.4	2144.3	2134.9	2121.4	2117.4	2124.1
10°	2125.5	2138.9	2118.7	2145.6	2151.0	2134.9	2134.9	2117.4	2106.6	2099.9	2122.8
12.5°	2149.7	2126.8	2124.1	2137.6	2141.6	2148.3	2129.5	2120.1	2099.9	2102.6	2098.6
15°	2121.4	2130.8	2132.2	2134.9	2138.9	2155.0	2137.6	2117.4	2109.3	2081.1	2083.8
17.5°	2132.2	2122.8	2132.2	2163.1	2157.7	2169.8	2151.0	2120.1	2101.3	2085.1	2106.6
20°	2151.0	2147.0	2151.0	2188.6	2195.4	2206.1	2190.0	2161.8	2125.5	2106.6	2117.4
22.5°	2171.2	2168.5	2171.2	2207.5	2246.5	2259.9	2243.8	2177.9	2159.1	2124.1	2112.0
25°	2207.5	2210.2	2238.4	2278.7	2304.3	2329.8	2300.2	2253.2	2192.7	2171.2	2145.6
27.5°	2288.1	2294.9	2311.0	2370.1	2414.5	2437.4	2395.7	2331.2	2293.5	2249.1	2242.4
30°	2387.6	2387.6	2415.8	2466.9	2527.4	2562.4	2511.3	2434.7	2389.0	2364.8	2350.0
32.5°	2519.4	2504.6	2515.3	2605.4	2699.5	2729.1	2660.5	2566.4	2493.8	2461.6	2450.8
35°	2632.3	2641.7	2665.9	2762.7	2867.6	2936.1	2828.6	2706.2	2632.3	2602.7	2597.3
37.5°	2778.8	2795.0	2807.1	2940.2	3066.5	3092.1	2988.6	2890.4	2800.3	2776.1	2762.7
40°	2985.9	2975.1	2979.1	3077.3	3191.6	3207.7	3105.5	3035.6	2961.7	2946.9	2946.9
42.5°	3156.6	3144.5	3157.9	3194.2	3281.6	3269.5	3213.1	3162.0	3131.1	3114.9	3131.1
45°	3260.1	3257.4	3281.6	3308.5	3370.4	3330.0	3285.7	3293.7	3264.2	3237.3	3235.9
47.5°	3373.0	3355.6	3385.1	3425.5	3378.4	3359.6	3356.9	3374.4	3365.0	3317.9	3303.1
50°	3428.2	3421.4	3468.5	3515.6	3490.0	3447.0	3456.4	3484.6	3363.6	3300.5	3264.2
52.5°	3576.0	3577.4	3667.5	3693.0	3682.3	3619.1	3639.2	3562.6	3420.1	3331.4	3335.4
55°	3808.6	3799.2	3900.0	3975.3	3987.4	3906.8	3810.0	3702.4	3523.6	3433.5	3406.7
57°	3680.9	3702.4	3814.0	4037.2	4150.1	4054.6	3843.6	3647.3	3409.3	3300.5	3252.1
57.5°	3510.2	3545.1	3738.7	3963.2	4081.5	4073.5	3801.9	3545.1	3332.7	3163.3	3167.4
60°	2571.8	2578.5	2753.3	3109.5	3479.3	3487.3	3156.6	2816.5	2579.9	2395.7	2421.2
62.5°	1356.5	1387.4	1457.3	1743.7	2063.6	2141.6	1941.3	1766.5	1562.2	1422.4	1435.8
65°	717.9	713.9	747.5	828.1	985.4	1025.8	998.9	860.4	789.2	766.3	767.6
67.5°	583.5	590.2	586.1	590.2	600.9	618.4	614.4	619.8	623.8	630.5	629.2
70°	494.7	494.7	497.4	498.8	498.8	506.8	516.2	533.7	535.1	541.8	544.5
72.5°	389.9	387.2	391.2	400.6	402.0	408.7	422.1	432.9	436.9	436.9	428.9
75°	264.8	267.5	272.9	281.0	289.0	301.1	311.9	318.6	321.3	317.3	313.2
77.5°	149.2	151.9	155.9	168.0	177.5	188.2	200.3	207.0	213.8	215.1	207.0
80°	88.7	88.7	95.5	104.9	115.6	126.4	137.1	145.2	147.9	147.9	143.8
82.5°	53.8	55.1	60.5	69.9	79.3	86.0	95.5	102.2	107.6	106.2	103.5
85°	28.2	28.2	33.6	41.7	48.4	55.1	55.1	51.1	48.4	41.7	39.0
87.5°	9.4	8.1	10.8	10.8	9.4	10.8	10.8	12.1	12.1	12.1	12.1
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)