

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: P947141

Luminaire Tested: **GALN-SB2C-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14102 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

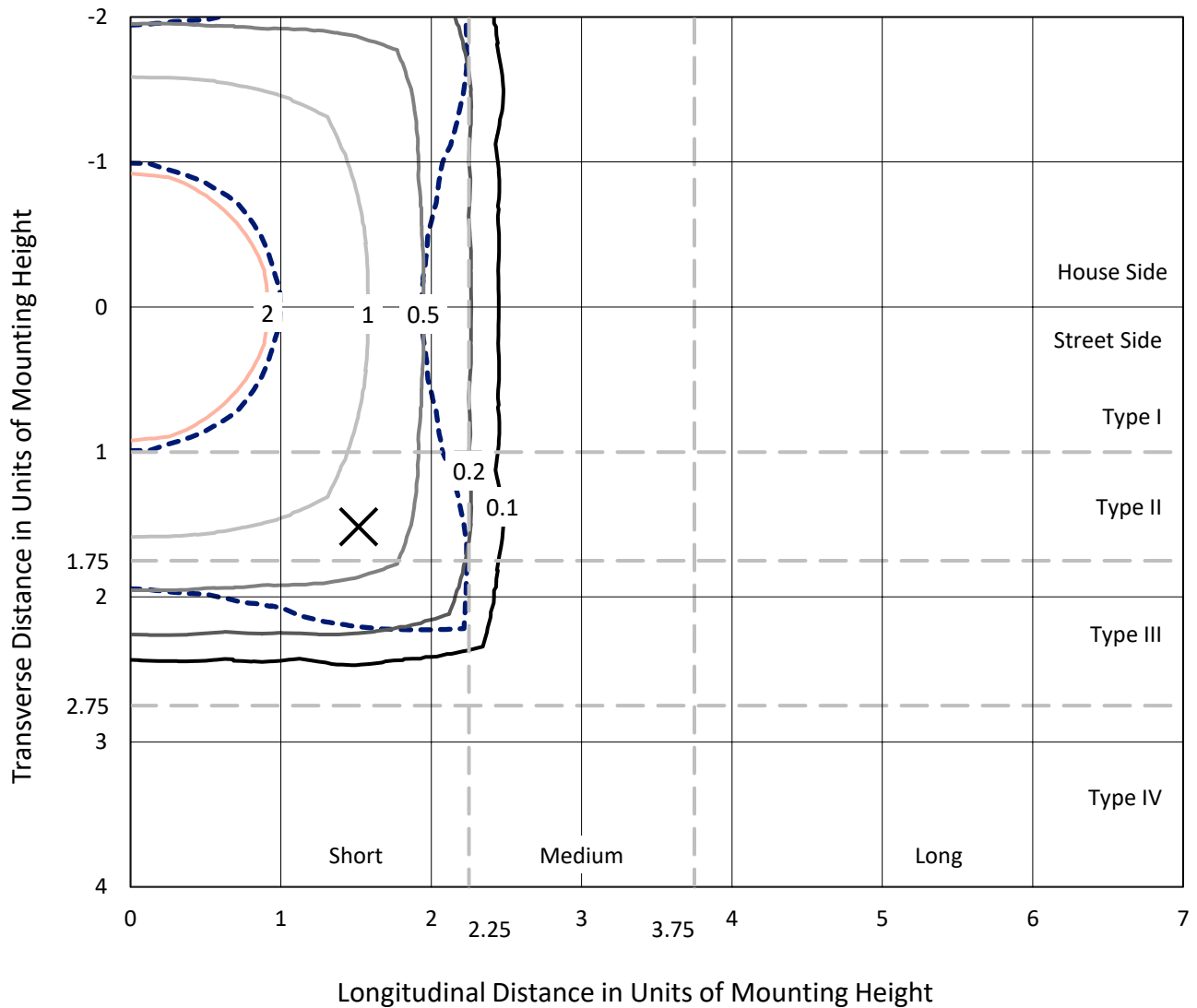
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

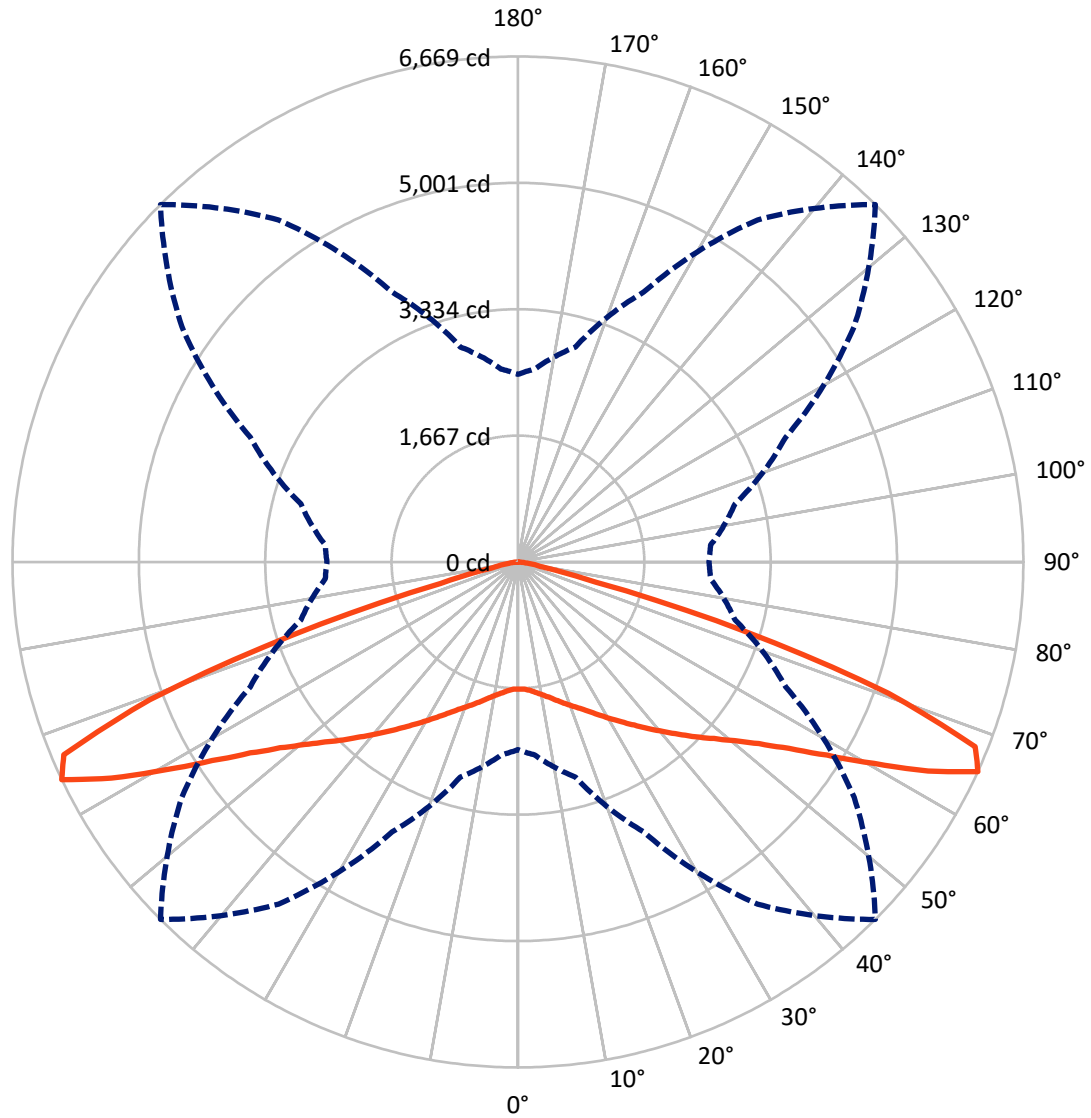
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7051.0	0.0	7051.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7051.0	0.0	7051.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14102.0	0.0	14102.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	1.2
10°-20°	540.5	3.8
20°-30°	1020.5	7.2
30°-40°	1671.0	11.8
40°-50°	2590.8	18.4
50°-60°	3827.2	27.1
60°-70°	3643.2	25.8
70°-80°	587.9	4.2
80°-90°	55.4	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°	14102.0	100.0
0°-180°	14102.0	100.0



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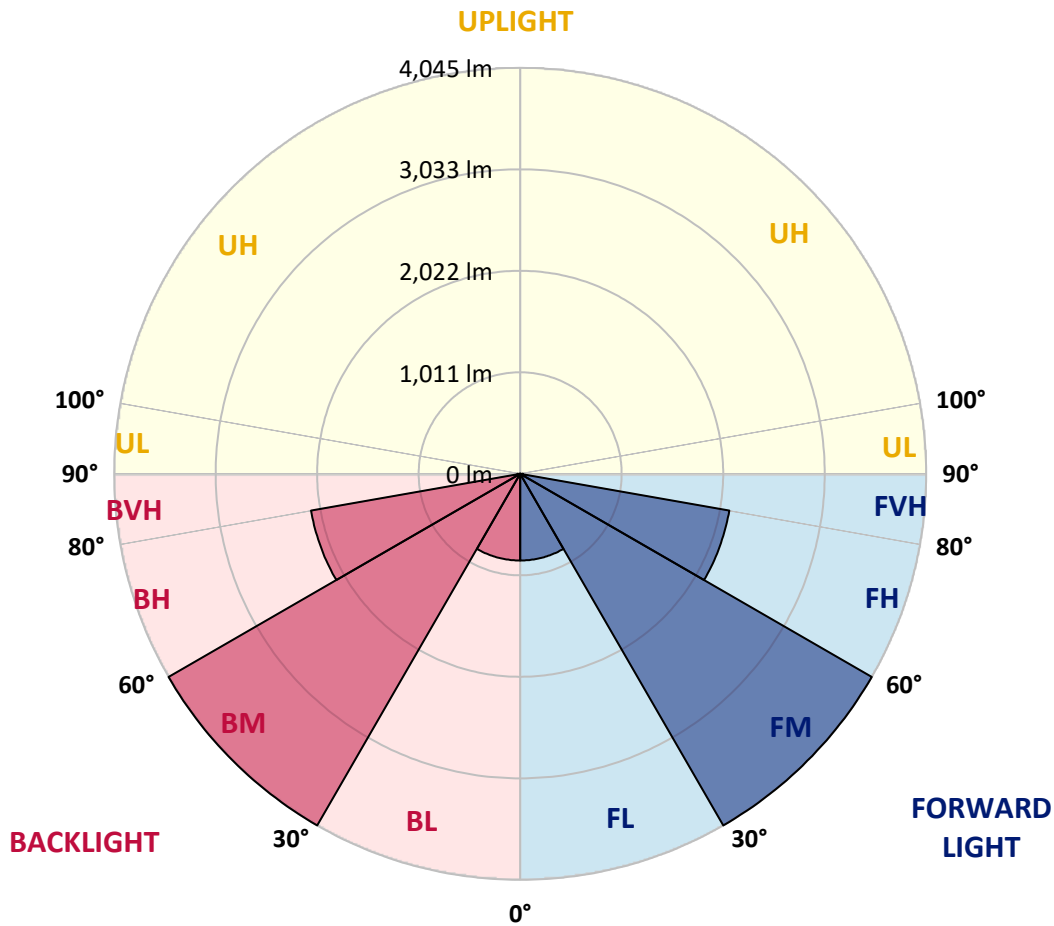
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	863.3	6.1			
FM (30°-60°)	4044.5	28.7			
FH (60°-80°)	2115.5	15.0			G2/5000
FVH (80°-90°)	27.7	0.2			G1/100
BL (0°-30°)	863.3	6.1	B2/1000		
BM (30°-60°)	4044.5	28.7	B3/5000		
BH (60°-80°)	2115.5	15.0	B3/2500		G2/5000
BVH (80°-90°)	27.7	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3	1678.3
2.5°	1689.6	1683.9	1688.2	1684.6	1681.8	1679.0	1680.4	1685.4	1687.5	1688.2
5°	1712.2	1707.3	1709.4	1709.4	1704.5	1703.0	1703.8	1707.3	1711.5	1711.5
7.5°	1749.0	1744.1	1749.0	1746.2	1742.0	1740.5	1739.8	1742.7	1749.0	1749.0
10°	1793.6	1787.9	1790.8	1789.4	1784.4	1782.3	1781.6	1785.8	1791.5	1790.8
12.5°	1842.4	1836.1	1839.6	1835.4	1833.9	1831.8	1831.8	1831.1	1834.6	1831.8
15°	1896.9	1892.7	1894.1	1891.2	1893.4	1892.0	1886.3	1883.5	1884.9	1880.6
17.5°	1961.3	1951.4	1956.3	1954.9	1954.9	1957.8	1948.6	1945.0	1947.9	1943.6
20°	2035.6	2025.7	2027.8	2025.0	2021.4	2024.3	2012.9	2015.8	2017.9	2015.1
22.5°	2117.0	2104.2	2103.5	2104.9	2097.1	2097.8	2090.1	2097.1	2101.4	2093.6
25°	2200.4	2187.0	2196.2	2192.7	2182.8	2184.9	2179.2	2186.3	2189.8	2179.9
27.5°	2288.9	2279.7	2288.2	2290.3	2278.3	2286.8	2278.3	2284.6	2288.2	2273.3
30°	2392.2	2383.0	2390.8	2396.4	2382.3	2395.7	2388.6	2392.9	2393.6	2375.9
32.5°	2504.7	2490.5	2510.3	2513.2	2497.6	2513.9	2504.7	2510.3	2513.9	2489.8
35°	2641.9	2624.3	2646.9	2643.4	2629.9	2643.4	2634.9	2643.4	2651.9	2622.8
37.5°	2789.8	2771.4	2795.5	2789.1	2776.4	2785.6	2780.6	2786.3	2799.7	2768.6
40°	2952.6	2929.9	2962.5	2951.1	2939.1	2937.7	2940.5	2944.1	2961.8	2927.1
42.5°	3126.6	3102.6	3151.4	3133.7	3116.7	3105.4	3114.6	3121.7	3138.6	3099.7
45°	3325.4	3297.8	3361.5	3340.3	3313.4	3290.0	3304.9	3315.5	3340.3	3293.6
47.5°	3544.8	3513.6	3581.6	3575.2	3531.3	3480.4	3514.3	3544.8	3563.2	3506.6
50°	3759.1	3735.1	3824.2	3832.0	3778.3	3706.8	3754.2	3800.2	3805.1	3730.8
52.5°	3960.1	3936.0	4065.5	4114.3	4066.2	3981.3	4031.5	4078.2	4040.7	3944.5
55°	4120.7	4100.9	4265.7	4391.7	4408.0	4337.9	4367.6	4366.2	4243.1	4095.2
57.5°	4159.6	4156.8	4364.8	4631.5	4801.3	4809.8	4751.1	4601.1	4335.8	4137.0
60°	3982.7	4000.4	4286.3	4756.8	5209.6	5397.8	5143.8	4715.7	4230.4	3954.4
62.5°	3453.5	3500.2	3844.8	4603.9	5539.3	6074.2	5458.7	4541.7	3797.4	3437.2
65°	2475.0	2556.3	2937.0	3929.0	5509.6	6668.5	5413.4	3897.1	2965.3	2550.0
67.5°	1122.9	1205.6	1529.0	2690.1	4789.3	6507.2	4778.0	2718.4	1605.4	1209.9
70°	406.8	421.0	525.0	1076.9	3060.8	5184.8	3191.7	1084.7	558.2	448.6
72.5°	246.2	248.3	270.3	385.6	1063.4	3147.8	1108.7	398.3	275.9	244.8
75°	156.4	155.0	192.5	235.6	377.1	1062.0	395.5	235.6	191.7	174.8
77.5°	112.5	116.0	138.0	176.2	237.7	360.1	233.5	168.4	138.0	113.2
80°	84.2	86.3	100.5	137.3	167.0	224.3	148.6	124.5	104.0	70.8
82.5°	60.8	60.8	65.8	99.8	101.9	121.0	80.7	87.7	68.6	50.2
85°	36.1	35.4	41.0	59.4	53.1	44.6	36.8	53.8	43.2	31.1
87.5°	12.7	13.4	12.7	17.0	14.2	12.0	11.3	14.9	12.0	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1678.3
1688.2
1711.5
1746.9
1789.4
1833.2
1881.3
1947.1
2021.4
2101.4
2191.2
2284.6
2386.5
2506.1
2640.5
2787.7
2938.4
3120.2
3317.6
3525.7
3740.0
3947.4
4100.2
4124.2
3921.9
3416.0
2519.5
1192.2
442.9
249.1
176.2
115.3
72.9
50.2
30.4
9.9
0.0

OF REPORT)