

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: P947204

Luminaire Tested: **GALN-SB2C-850-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947204
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-850-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15012 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

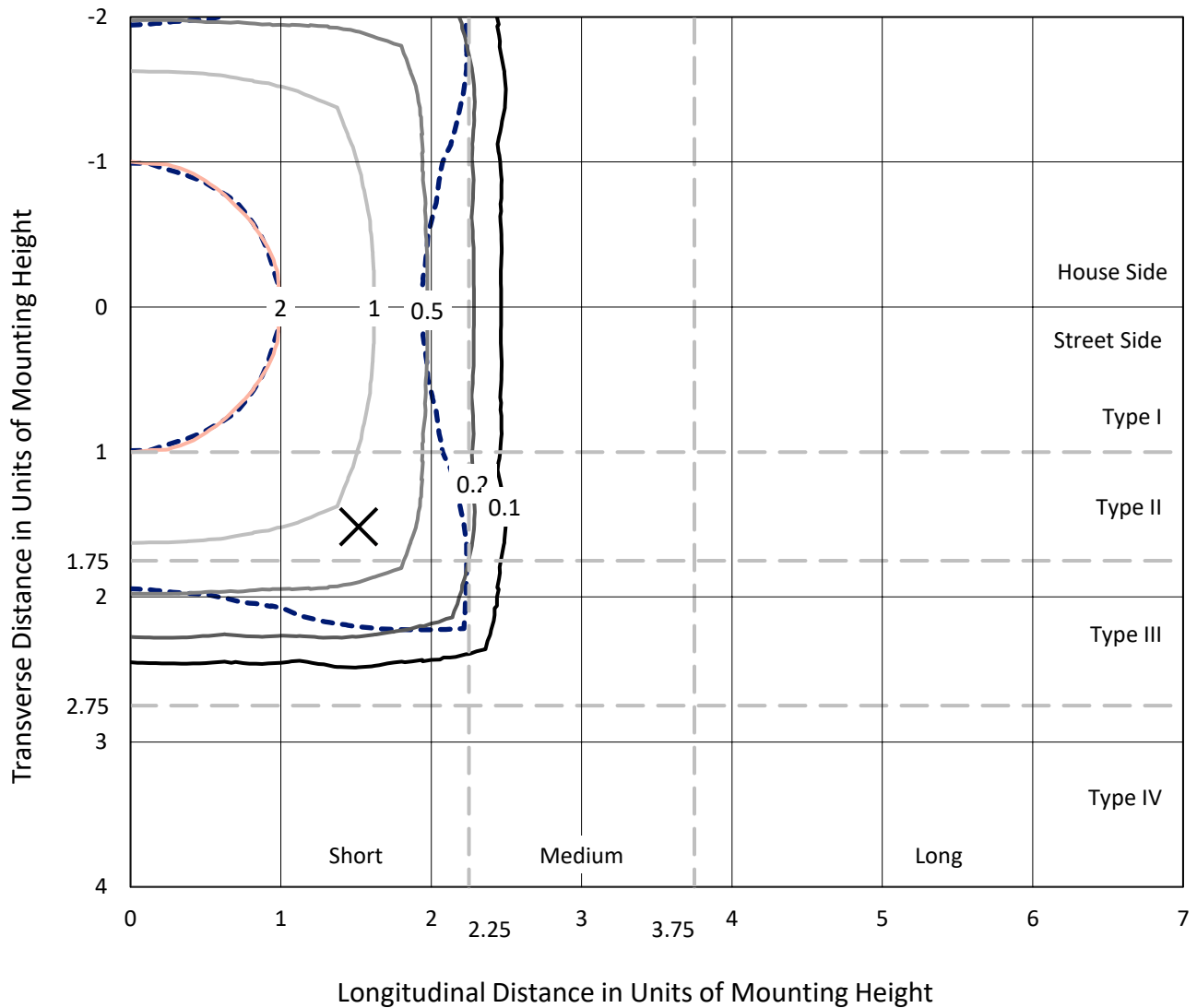
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

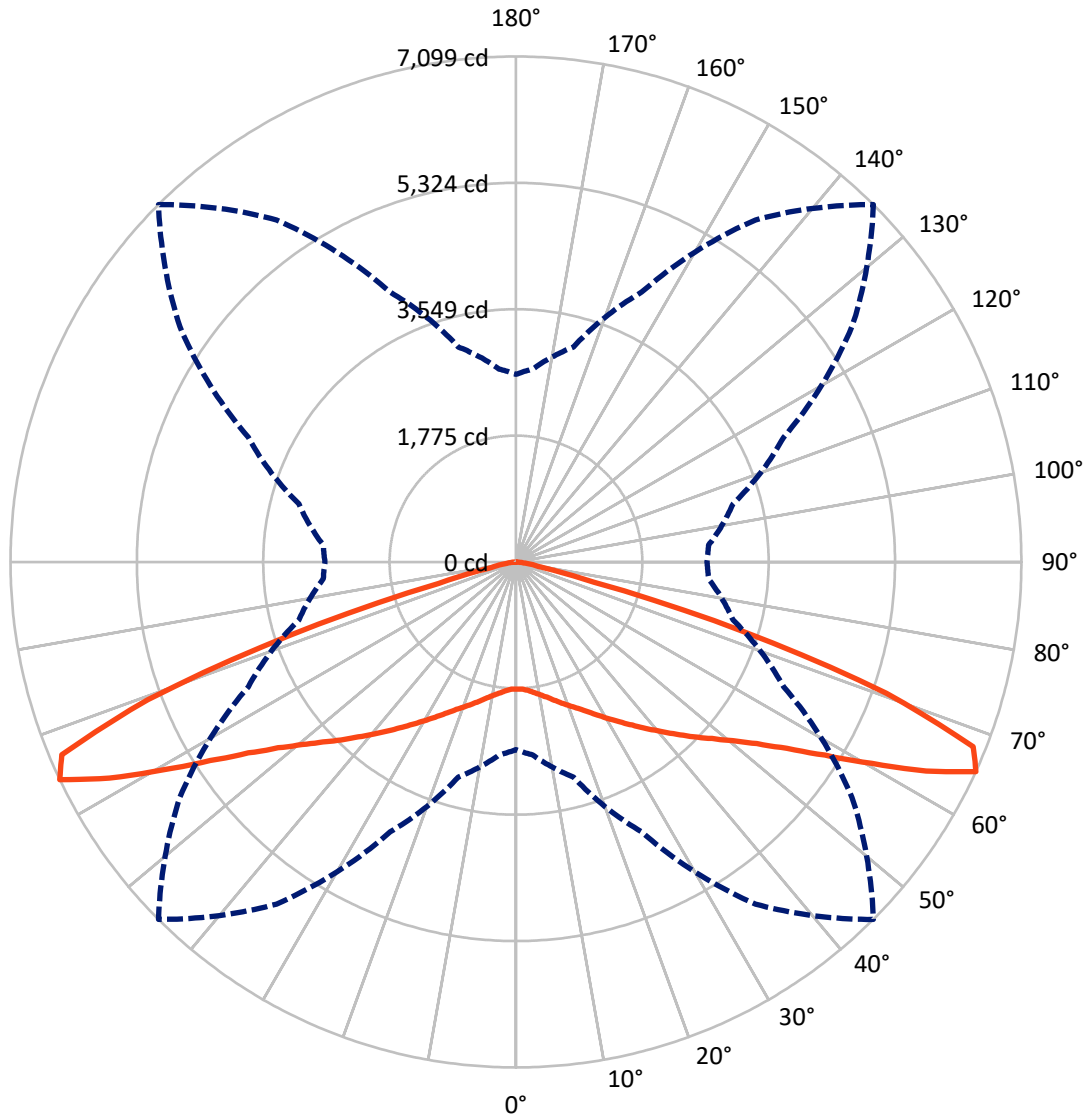
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	7506.0	0.0	7506.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7506.0	0.0	7506.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15012.0	0.0	15012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	1.2
10°-20°	575.3	3.8
20°-30°	1086.3	7.2
30°-40°	1778.8	11.8
40°-50°	2758.0	18.4
50°-60°	4074.2	27.1
60°-70°	3878.2	25.8
70°-80°	625.8	4.2
80°-90°	59.0	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°	15012.0	100.0
0°-180°	15012.0	100.0

Coefficient of Utilization



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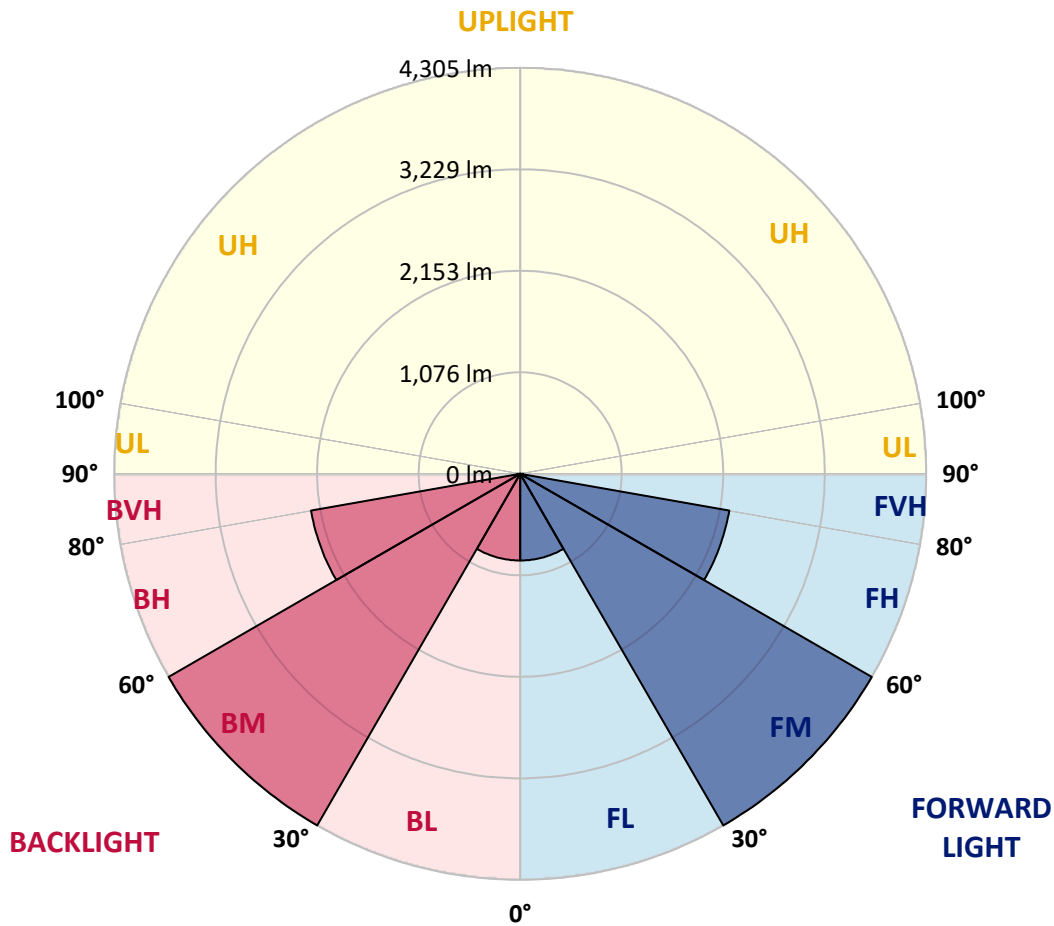
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	919.0	6.1			
FM (30°-60°)	4305.5	28.7			
FH (60°-80°)	2252.0	15.0			G2/5000
FVH (80°-90°)	29.5	0.2			G1/100
BL (0°-30°)	919.0	6.1	B2/1000		
BM (30°-60°)	4305.5	28.7	B3/5000		
BH (60°-80°)	2252.0	15.0	B3/2500		G2/5000
BVH (80°-90°)	29.5	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°	1786.6	1786.6	1786.6	1786.6	1786.6	1786.6	1786.6	1786.6	1786.6	1786.6
2.5°	1798.6	1792.6	1797.1	1793.4	1790.3	1787.3	1788.8	1794.1	1796.4	1797.1
5°	1822.7	1817.5	1819.7	1819.7	1814.4	1812.9	1813.7	1817.5	1822.0	1822.0
7.5°	1861.9	1856.6	1861.9	1858.9	1854.4	1852.9	1852.1	1855.1	1861.9	1861.9
10°	1909.3	1903.3	1906.3	1904.8	1899.6	1897.3	1896.5	1901.1	1907.1	1906.3
12.5°	1961.3	1954.5	1958.3	1953.8	1952.3	1950.0	1950.0	1949.3	1953.0	1950.0
15°	2019.3	2014.8	2016.3	2013.3	2015.5	2014.0	2008.0	2005.0	2006.5	2002.0
17.5°	2087.9	2077.3	2082.6	2081.1	2081.1	2084.1	2074.3	2070.5	2073.5	2069.0
20°	2166.9	2156.4	2158.7	2155.6	2151.9	2154.9	2142.8	2145.9	2148.1	2145.1
22.5°	2253.6	2240.0	2239.2	2240.8	2232.5	2233.2	2224.9	2232.5	2237.0	2228.7
25°	2342.4	2328.1	2337.9	2334.2	2323.6	2325.9	2319.8	2327.4	2331.1	2320.6
27.5°	2436.6	2426.8	2435.8	2438.1	2425.3	2434.3	2425.3	2432.1	2435.8	2420.0
30°	2546.6	2536.8	2545.0	2551.1	2536.0	2550.3	2542.8	2547.3	2548.1	2529.2
32.5°	2666.3	2651.2	2672.3	2675.3	2658.8	2676.1	2666.3	2672.3	2676.1	2650.5
35°	2812.4	2793.6	2817.7	2813.9	2799.6	2813.9	2804.9	2813.9	2823.0	2792.1
37.5°	2969.8	2950.3	2975.9	2969.1	2955.5	2965.3	2960.1	2966.1	2980.4	2947.3
40°	3143.1	3119.0	3153.6	3141.6	3128.8	3127.3	3130.3	3134.0	3152.9	3116.0
42.5°	3328.4	3302.8	3354.7	3335.9	3317.8	3305.8	3315.6	3323.1	3341.2	3299.7
45°	3540.0	3510.6	3578.4	3555.8	3527.2	3502.4	3518.2	3529.5	3555.8	3506.1
47.5°	3773.5	3740.4	3812.7	3805.9	3759.2	3705.0	3741.1	3773.5	3793.1	3732.8
50°	4001.7	3976.1	4071.0	4079.3	4022.1	3946.0	3996.5	4045.4	4050.7	3971.6
52.5°	4215.6	4190.0	4327.9	4379.8	4328.6	4238.2	4291.7	4341.4	4301.5	4199.1
55°	4386.6	4365.5	4541.0	4675.1	4692.4	4617.8	4649.5	4648.0	4516.9	4359.5
57.5°	4428.0	4425.0	4646.5	4930.4	5111.2	5120.2	5057.7	4898.0	4615.6	4403.9
60°	4239.7	4258.6	4562.9	5063.7	5545.8	5746.1	5475.7	5020.0	4503.4	4209.6
62.5°	3676.3	3726.1	4092.9	4901.0	5896.8	6466.2	5810.9	4834.8	4042.4	3659.0
65°	2634.7	2721.3	3126.5	4182.5	5865.1	7098.9	5762.7	4148.6	3156.6	2714.5
67.5°	1195.3	1283.4	1627.7	2863.6	5098.4	6927.1	5086.3	2893.8	1709.0	1288.0
70°	433.1	448.2	558.9	1146.4	3258.3	5519.4	3397.7	1154.6	594.3	477.5
72.5°	262.1	264.4	287.7	410.5	1132.1	3351.0	1180.3	424.0	293.7	260.6
75°	166.5	164.9	204.9	250.8	401.5	1130.5	421.0	250.8	204.1	186.0
77.5°	119.8	123.5	146.9	187.5	253.1	383.4	248.6	179.3	146.9	120.5
80°	89.6	91.9	107.0	146.1	177.8	238.8	158.2	132.6	110.7	75.3
82.5°	64.8	64.8	70.0	106.2	108.5	128.8	85.9	93.4	73.1	53.5
85°	38.4	37.7	43.7	63.3	56.5	47.5	39.2	57.2	45.9	33.1
87.5°	13.6	14.3	13.6	18.1	15.1	12.8	12.1	15.8	12.8	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1786.6
1797.1
1822.0
1859.6
1904.8
1951.5
2002.7
2072.8
2151.9
2237.0
2332.6
2432.1
2540.5
2667.8
2810.9
2967.6
3128.0
3321.6
3531.7
3753.2
3981.4
4202.1
4364.8
4390.4
4175.0
3636.4
2682.1
1269.1
471.5
265.1
187.5
122.8
77.6
53.5
32.4
10.5
0.0

OF REPORT)