

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: P948274

Luminaire Tested: **GALN-SB3B-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16924 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

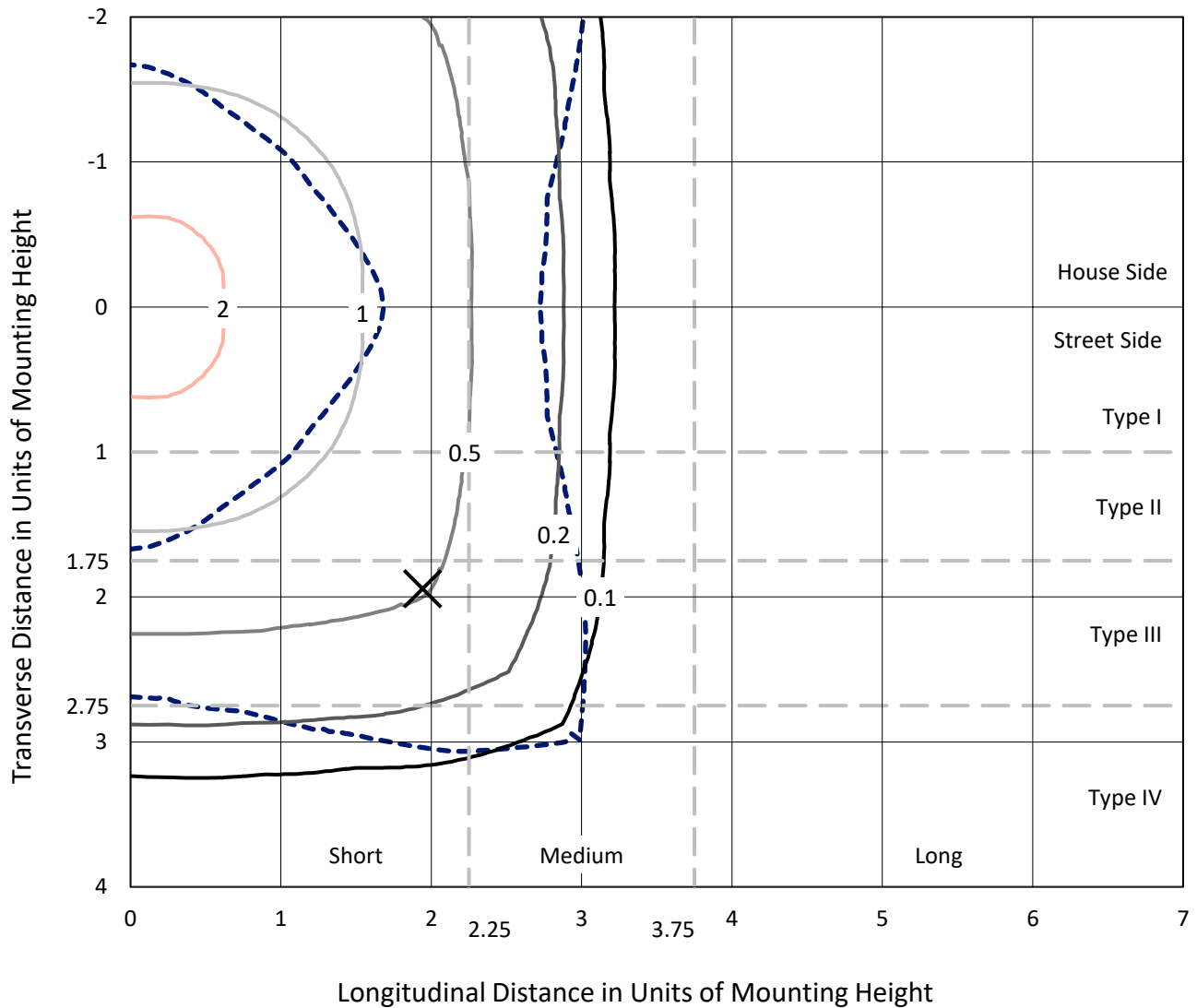
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

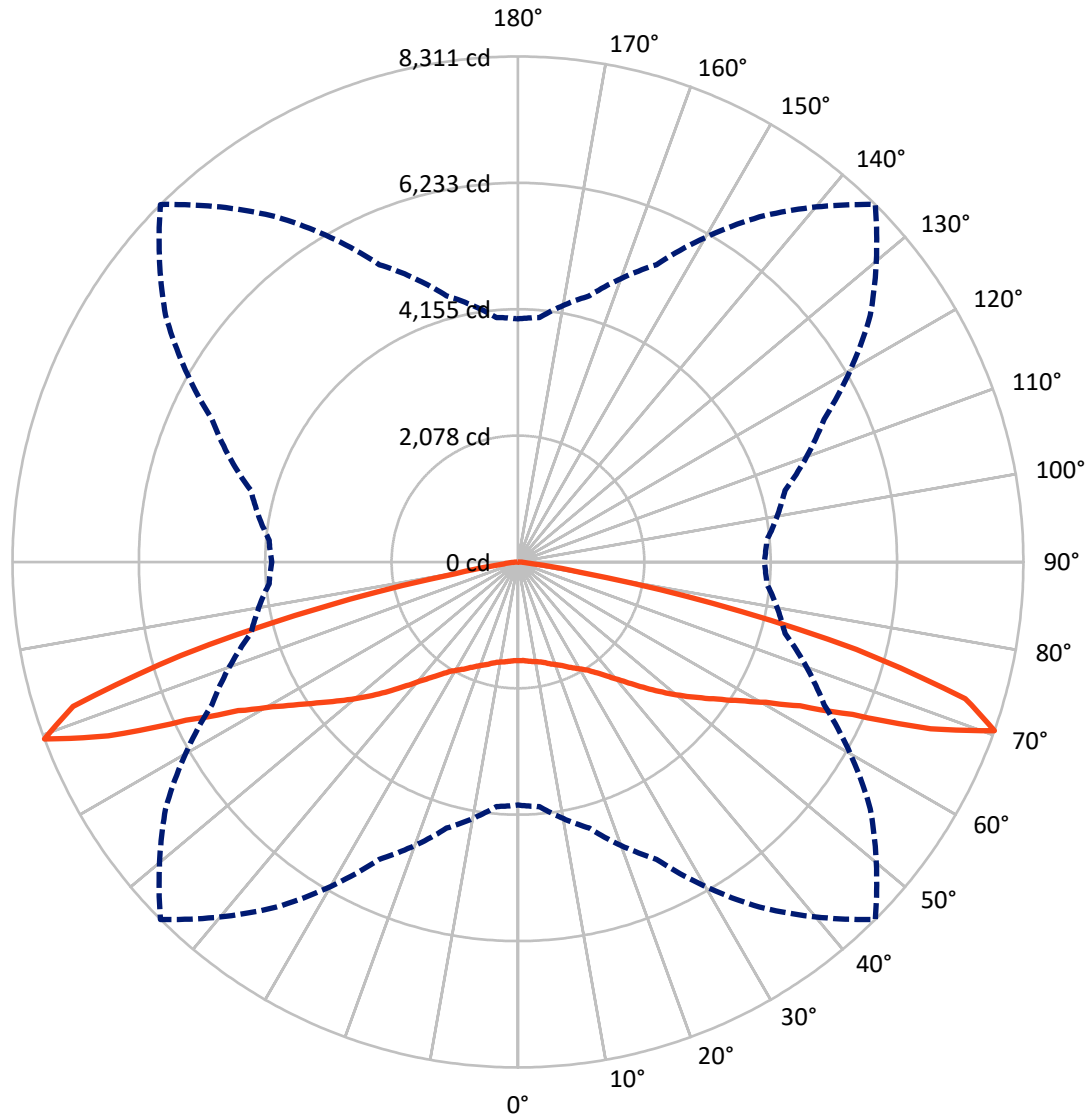
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8462.0	0.0	8462.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8462.0	0.0	8462.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16924.0	0.0	16924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	0.9
10°-20°	488.4	2.9
20°-30°	872.8	5.2
30°-40°	1414.8	8.4
40°-50°	2304.4	13.6
50°-60°	3513.5	20.8
60°-70°	5226.9	30.9
70°-80°	2848.8	16.8
80°-90°	97.0	0.6
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°	16924.0	100.0
0°-180°	16924.0	100.0

Coefficient of Utilization



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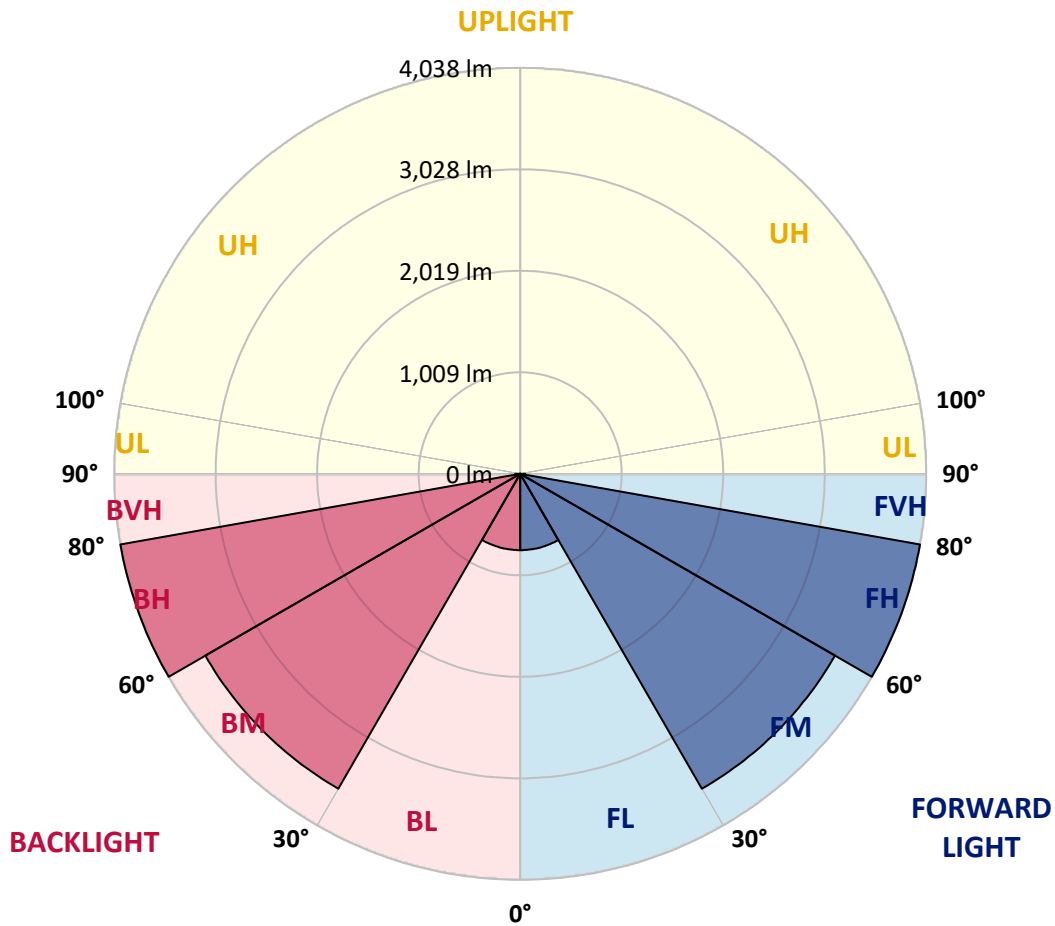
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.3	4.5			
FM (30°-60°)	3616.3	21.4			
FH (60°-80°)	4037.9	23.9			G2/5000
FVH (80°-90°)	48.5	0.3			G1/100
BL (0°-30°)	759.3	4.5	B2/1000		
BM (30°-60°)	3616.3	21.4	B3/5000		
BH (60°-80°)	4037.9	23.9	B4/5000		G2/5000
BVH (80°-90°)	48.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1
2.5°	1628.8	1630.5	1627.1	1625.4	1623.7	1621.1	1622.0	1626.2	1629.6	1628.8
5°	1642.4	1644.1	1641.5	1640.7	1637.3	1636.4	1636.4	1640.7	1643.2	1641.5
7.5°	1657.7	1660.2	1656.0	1655.1	1653.4	1651.7	1650.9	1655.1	1657.7	1657.7
10°	1672.1	1674.7	1671.3	1668.7	1667.0	1667.0	1665.3	1668.7	1673.0	1672.1
12.5°	1687.4	1689.1	1685.7	1684.0	1684.0	1686.6	1684.0	1685.7	1689.1	1687.4
15°	1706.1	1707.0	1706.1	1708.7	1712.9	1721.4	1713.8	1712.1	1713.8	1709.5
17.5°	1731.6	1733.3	1736.7	1742.6	1748.6	1763.9	1750.3	1746.0	1746.0	1737.5
20°	1763.0	1765.6	1770.7	1780.9	1788.5	1803.0	1789.4	1783.4	1780.9	1769.8
22.5°	1796.2	1800.4	1808.1	1821.7	1835.3	1848.9	1835.3	1825.1	1817.4	1803.0
25°	1834.4	1839.5	1851.4	1873.5	1892.2	1911.7	1895.6	1875.2	1859.9	1839.5
27.5°	1888.8	1894.7	1909.2	1936.4	1960.2	1977.1	1961.9	1935.5	1914.3	1889.6
30°	1965.3	1971.2	1988.2	2017.1	2033.2	2044.3	2034.1	2013.7	1988.2	1960.2
32.5°	2063.8	2071.5	2090.2	2117.3	2120.7	2122.4	2119.0	2108.8	2090.2	2056.2
35°	2188.7	2197.2	2218.5	2240.5	2237.1	2240.5	2235.4	2232.0	2218.5	2179.4
37.5°	2341.7	2351.8	2373.9	2390.9	2382.4	2378.2	2379.0	2379.9	2372.2	2328.9
40°	2519.2	2532.8	2549.0	2566.8	2552.4	2539.6	2548.1	2554.9	2548.1	2503.9
42.5°	2701.9	2721.4	2738.4	2763.9	2752.0	2735.9	2747.8	2755.4	2741.0	2693.4
45°	2905.0	2923.7	2945.8	2984.0	2975.5	2958.5	2975.5	2977.2	2952.6	2896.5
47.5°	3114.8	3134.4	3167.5	3218.5	3215.1	3196.4	3218.5	3206.6	3175.2	3108.0
50°	3313.7	3340.8	3391.8	3463.2	3470.0	3447.1	3476.8	3453.9	3401.2	3317.1
52.5°	3500.6	3529.5	3610.2	3707.1	3731.7	3702.0	3741.9	3702.0	3622.9	3515.0
55°	3696.9	3729.1	3825.2	3951.8	4001.0	3978.9	4016.3	3956.0	3843.8	3713.0
57.5°	3928.0	3947.5	4062.2	4212.6	4295.9	4301.0	4318.0	4216.0	4080.0	3931.4
60°	4178.6	4205.8	4330.7	4510.8	4642.5	4685.0	4667.2	4515.9	4357.9	4187.1
62.5°	4499.8	4529.5	4679.1	4894.9	5103.0	5208.4	5138.7	4919.5	4724.1	4519.3
65°	4765.7	4798.9	5069.0	5453.9	5832.9	6044.5	5869.4	5465.8	5114.1	4825.2
67.5°	4572.8	4613.6	5037.6	5744.5	6686.8	7318.1	6719.1	5831.2	5142.1	4750.4
70°	3996.8	4035.0	4529.5	5393.6	6927.2	8310.5	7071.7	5552.5	4545.7	4107.2
72.5°	2653.5	2776.7	3277.1	4313.7	6185.5	7690.2	6246.7	4226.2	3040.1	2647.5
75°	880.2	978.8	1320.4	2236.3	4142.9	5751.3	3944.1	1978.8	1045.9	752.8
77.5°	221.8	255.7	352.6	639.8	1652.6	3274.6	1487.7	522.5	284.6	198.8
80°	107.9	119.0	169.9	213.3	413.8	1040.8	388.3	200.5	134.2	103.7
82.5°	59.5	60.3	96.0	120.7	153.8	269.3	159.7	117.3	77.3	62.9
85°	36.5	35.7	51.0	64.6	64.6	96.0	76.5	64.6	44.2	39.1
87.5°	14.4	14.4	18.7	20.4	17.8	24.6	19.5	21.2	17.0	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1621.1
1629.6
1642.4
1657.7
1672.1
1686.6
1709.5
1737.5
1769.8
1802.1
1838.7
1888.8
1960.2
2057.0
2179.4
2328.9
2503.9
2696.8
2902.4
3103.8
3315.4
3504.8
3695.2
3911.0
4159.9
4483.6
4777.6
4691.8
4048.6
2561.7
712.0
177.6
95.2
62.9
40.8
17.0
0.0

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