

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: P948278

Luminaire Tested: **GALN-SB3B-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
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-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16641 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

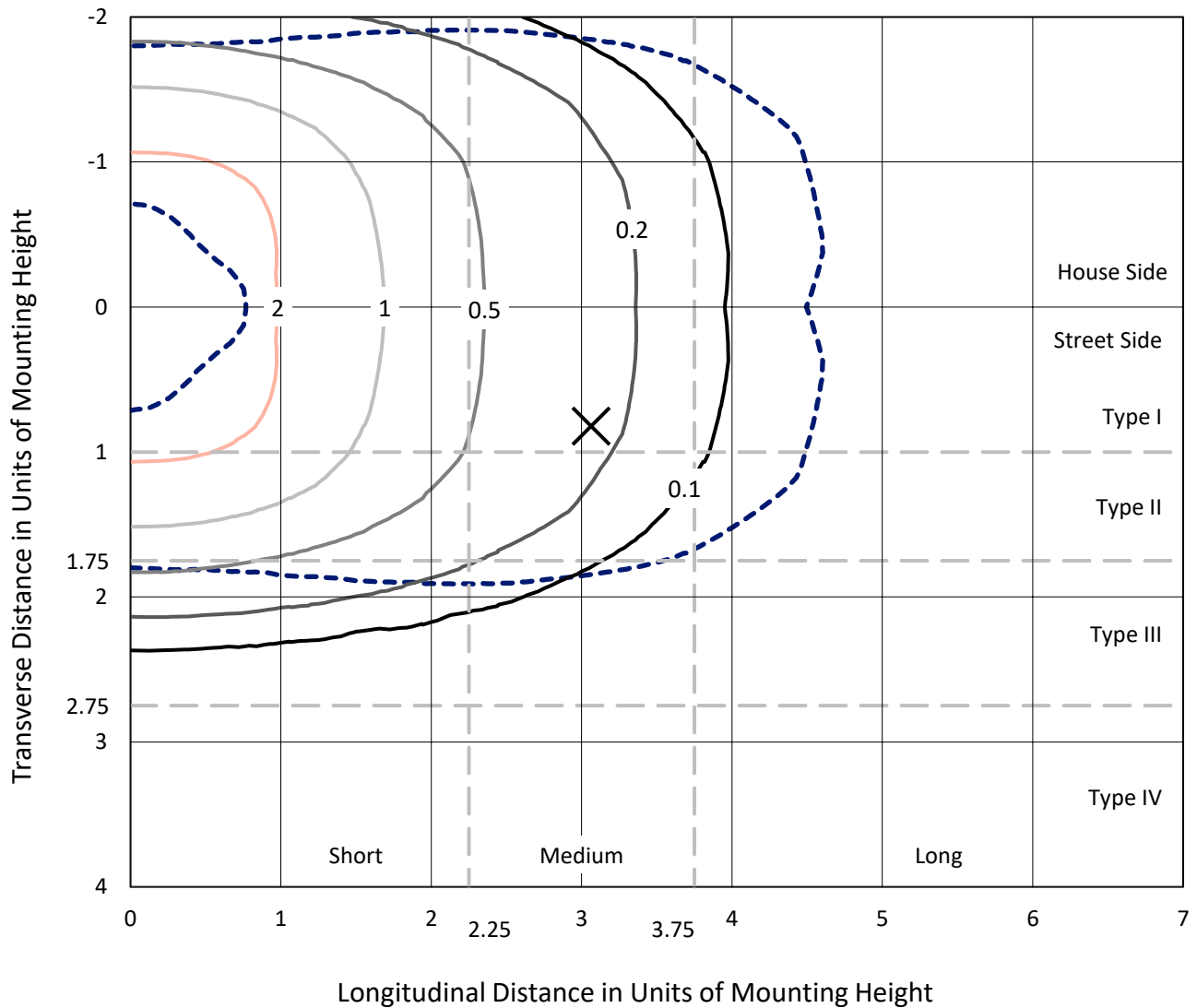
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

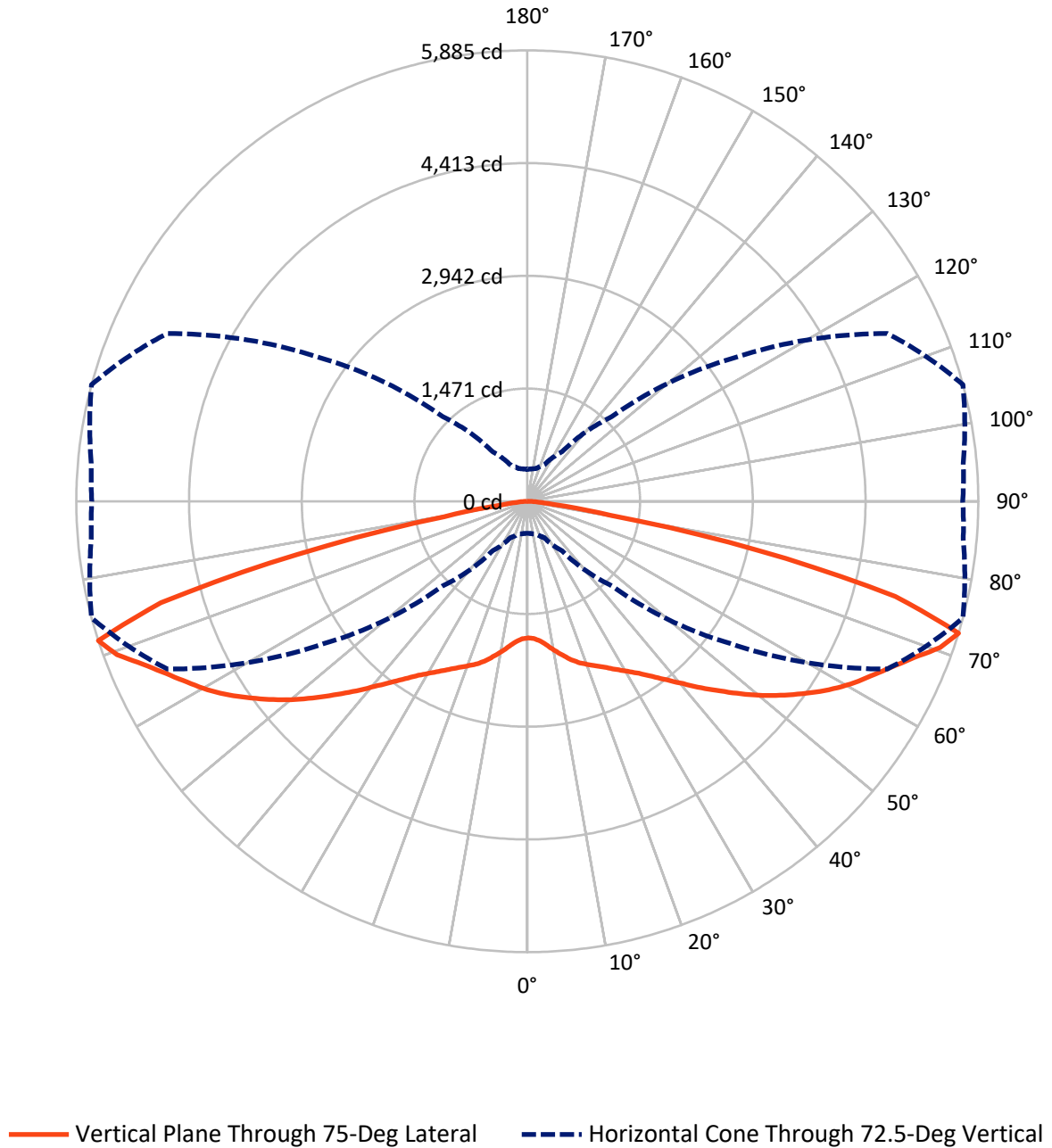
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8320.5	0.0	8320.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8320.5	0.0	8320.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16641.0	0.0	16641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	1.0
10°-20°	575.9	3.5
20°-30°	1112.8	6.7
30°-40°	1879.1	11.3
40°-50°	2980.0	17.9
50°-60°	3989.9	24.0
60°-70°	3797.1	22.8
70°-80°	1981.4	11.9
80°-90°	150.0	0.9
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°	16641.0	100.0
0°-180°	16641.0	100.0

Coefficient of Utilization



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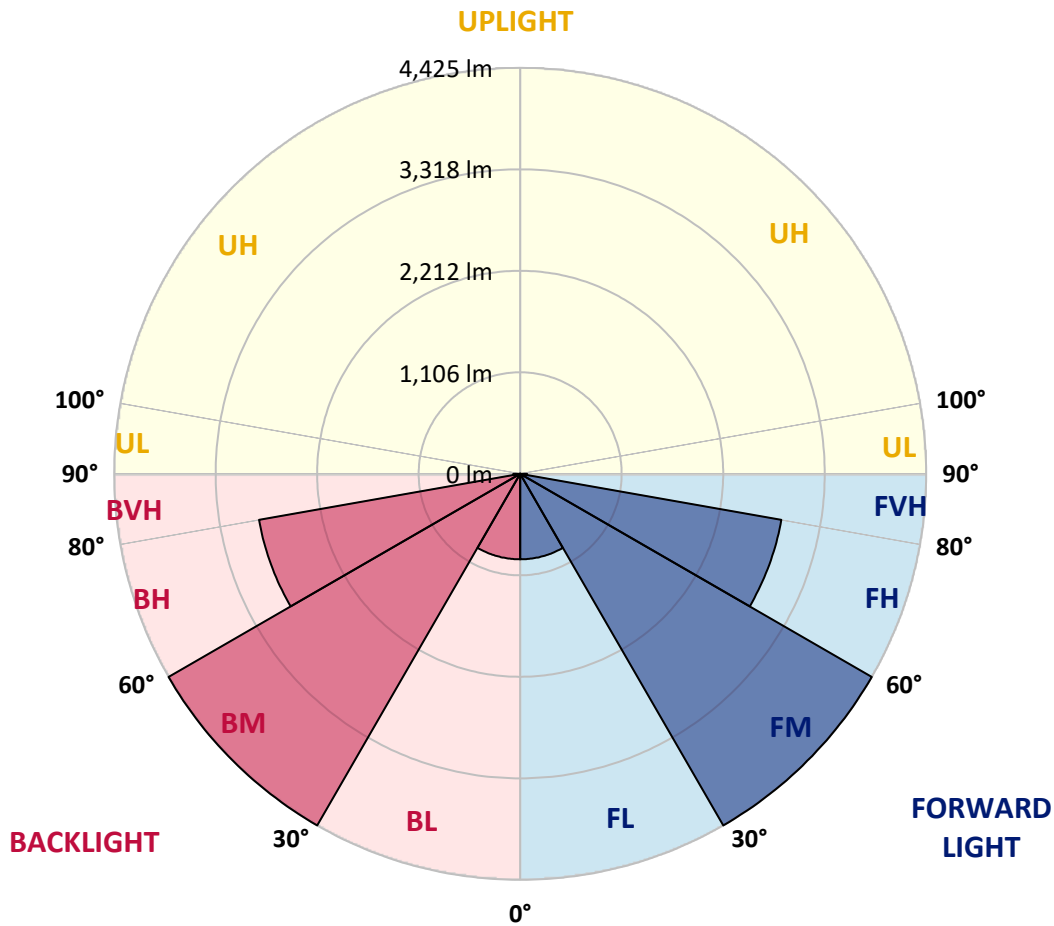
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.7	5.6			
FM (30°-60°)	4424.5	26.6			
FH (60°-80°)	2889.3	17.4			G2/5000
FVH (80°-90°)	75.0	0.5			G1/100
BL (0°-30°)	931.7	5.6	B2/1000		
BM (30°-60°)	4424.5	26.6	B3/5000		
BH (60°-80°)	2889.3	17.4	B4/5000		G4/5000
BVH (80°-90°)	75.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1782.5	1782.5	1782.5	1782.5	1782.5	1782.5	1782.5	1782.5	1782.5	1782.5
2.5°	1782.5	1780.8	1782.5	1784.2	1783.4	1783.4	1787.6	1790.2	1795.3	1794.4
5°	1770.7	1769.8	1776.6	1784.2	1790.2	1800.4	1813.1	1822.5	1834.4	1836.9
7.5°	1764.7	1762.2	1774.1	1787.6	1806.3	1831.8	1856.5	1882.0	1902.3	1909.1
10°	1769.0	1769.8	1785.9	1811.4	1841.2	1876.9	1911.7	1955.0	1983.9	1990.7
12.5°	1788.5	1786.8	1814.0	1854.8	1895.6	1940.6	1981.4	2028.9	2060.4	2076.5
15°	1824.2	1820.8	1859.0	1919.3	1978.8	2031.5	2064.6	2109.7	2146.2	2166.6
17.5°	1866.7	1868.4	1918.5	1996.7	2074.8	2134.3	2165.7	2188.7	2216.7	2234.6
20°	1941.4	1944.8	2000.9	2093.5	2182.7	2250.7	2276.2	2267.7	2275.3	2288.9
22.5°	2041.7	2043.4	2106.3	2206.5	2300.0	2374.7	2391.7	2356.9	2335.7	2345.0
25°	2158.1	2169.1	2232.0	2334.8	2430.8	2502.2	2509.8	2457.2	2404.5	2407.0
27.5°	2300.0	2310.2	2373.9	2475.9	2573.6	2635.6	2634.7	2564.2	2486.9	2467.4
30°	2453.8	2464.8	2530.2	2635.6	2726.5	2780.9	2769.0	2684.9	2574.4	2537.9
32.5°	2636.4	2643.2	2709.5	2814.9	2899.0	2942.3	2917.7	2814.0	2676.4	2634.7
35°	2857.3	2867.5	2916.8	3016.2	3090.1	3125.8	3084.2	2961.9	2807.2	2760.5
37.5°	3109.7	3102.9	3159.0	3247.3	3308.5	3330.6	3273.7	3128.4	2956.8	2901.5
40°	3373.1	3369.7	3430.9	3515.8	3549.0	3562.5	3478.4	3319.6	3129.2	3069.8
42.5°	3611.8	3609.3	3691.7	3786.0	3825.9	3810.6	3704.4	3522.6	3328.9	3260.9
45°	3803.0	3799.6	3900.7	4033.3	4111.4	4085.9	3943.2	3746.9	3531.1	3460.6
47.5°	3950.0	3951.7	4060.4	4224.4	4361.2	4370.6	4187.0	3975.5	3753.7	3673.9
50°	4056.2	4061.3	4177.7	4359.5	4546.4	4628.8	4436.0	4210.0	3984.0	3893.9
52.5°	4082.5	4091.9	4232.1	4445.3	4665.4	4822.6	4689.2	4435.1	4202.3	4116.5
55°	3942.3	3961.0	4138.6	4438.5	4738.5	4950.0	4911.8	4663.7	4422.4	4334.0
57.5°	3620.3	3646.7	3854.0	4245.7	4722.3	5037.5	5084.3	4882.9	4642.4	4557.5
60°	3169.2	3200.6	3399.4	3826.8	4494.6	5069.8	5205.8	5096.2	4844.7	4762.2
62.5°	2488.6	2529.4	2767.3	3268.6	4013.7	4919.4	5309.4	5289.0	5026.5	4923.7
65°	1596.5	1639.8	1890.5	2482.7	3372.2	4458.9	5341.7	5476.8	5218.5	5074.9
67.5°	962.6	982.2	1106.2	1504.7	2464.8	3764.8	5068.1	5685.0	5442.8	5264.4
70°	616.0	627.0	701.0	883.6	1393.4	2746.9	4390.1	5724.0	5714.7	5459.0
72.5°	418.0	421.4	441.0	523.4	788.5	1560.8	3238.0	5182.0	5884.6	5709.6
75°	305.9	324.6	356.0	370.4	447.8	780.0	1855.6	3640.7	4959.4	5035.8
77.5°	227.7	228.6	271.9	288.9	319.5	415.5	785.1	2032.3	3079.1	3232.9
80°	192.9	182.7	181.8	232.8	240.4	259.1	350.9	701.8	1102.8	668.7
82.5°	160.6	149.5	135.1	181.8	164.0	158.9	152.1	285.5	350.9	172.5
85°	112.2	107.1	102.0	118.9	93.5	79.9	73.1	133.4	147.8	73.1
87.5°	48.4	50.1	51.0	52.7	39.1	28.0	28.0	37.4	37.4	28.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1782.5
1793.6
1836.9
1910.8
1997.5
2083.3
2174.2
2243.1
2299.1
2351.8
2411.3
2473.3
2542.1
2644.9
2767.3
2911.7
3089.3
3277.9
3476.7
3697.6
3921.1
4138.6
4358.7
4577.0
4780.1
4935.6
5092.8
5278.0
5457.3
5682.4
4850.6
2883.7
505.5
147.0
64.6
21.2
0.0

OF REPORT)