

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: P947918

Luminaire Tested: **GALN-SB3A-850-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947918  
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-SB3A-850-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

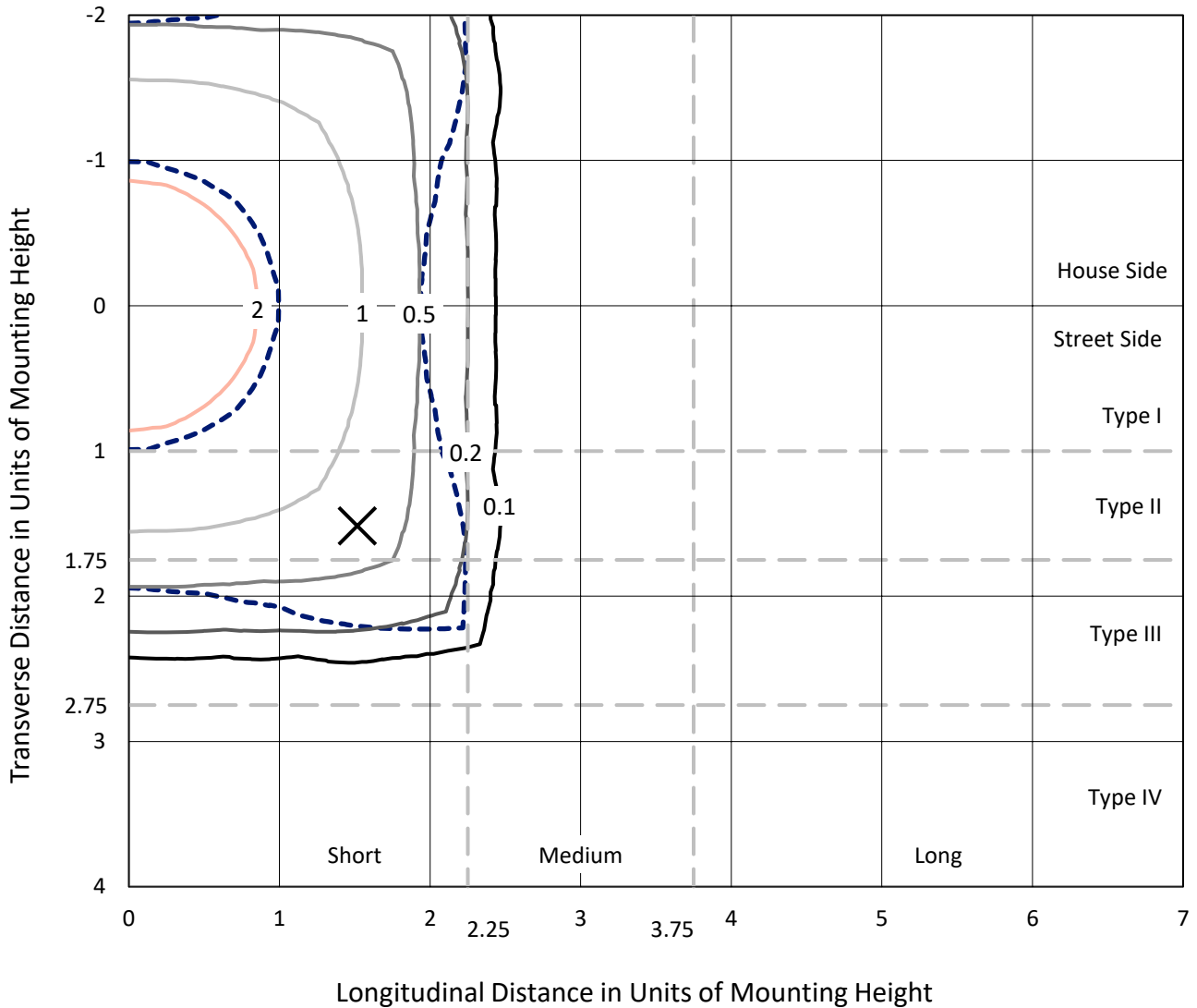
Lumens per Lamp: N/A  
Luminaire Lumens: 13490 lumens  
Efficiency: N/A  
Efficacy: 159.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

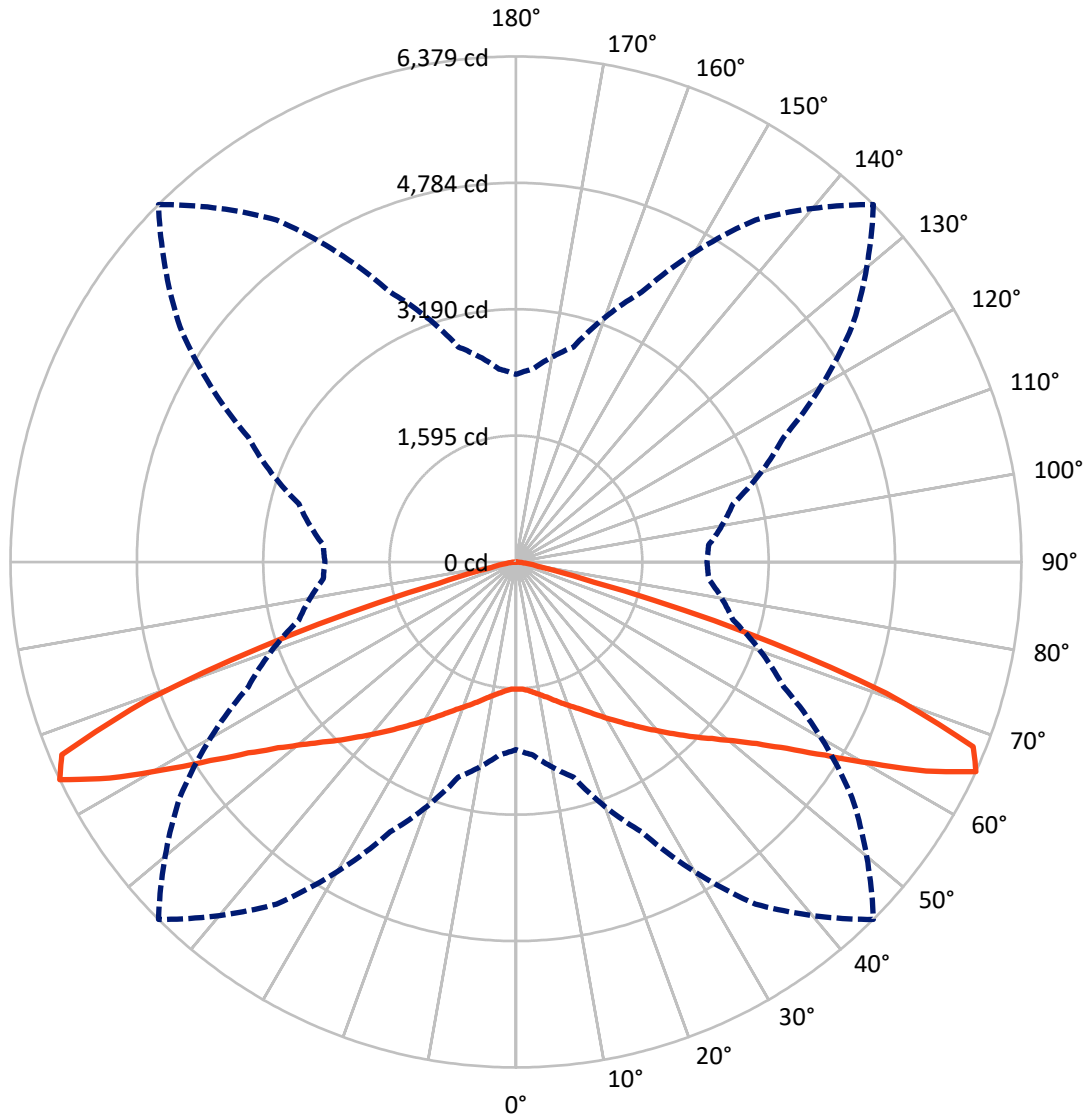
✕ Max cd  
 - - - 1/2 Max cd



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 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6745.0	0.0	6745.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6745.0	0.0	6745.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13490.0	0.0	13490.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.4	1.2
10°-20°	517.0	3.8
20°-30°	976.2	7.2
30°-40°	1598.4	11.8
40°-50°	2478.4	18.4
50°-60°	3661.1	27.1
60°-70°	3485.0	25.8
70°-80°	562.4	4.2
80°-90°	53.0	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°	13490.0	100.0
0°-180°	13490.0	100.0



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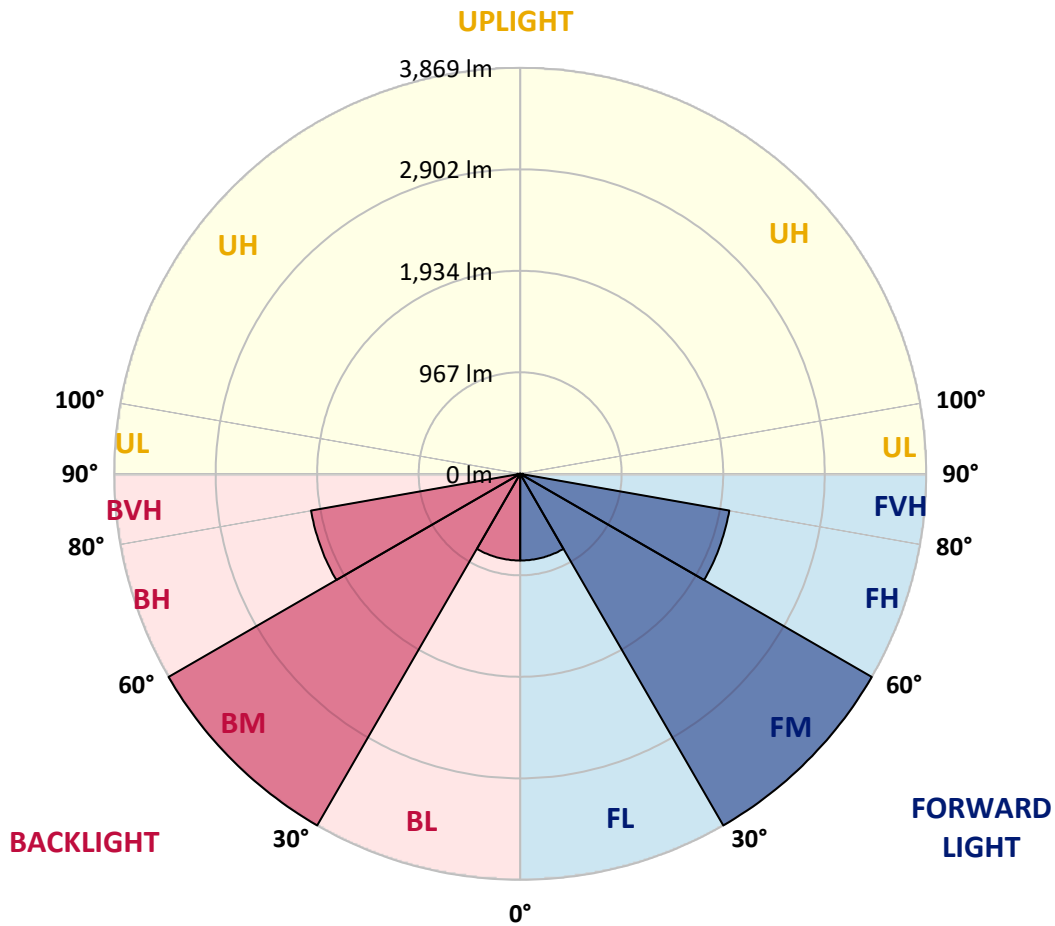
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.8	6.1			
FM (30°-60°)	3869.0	28.7			
FH (60°-80°)	2023.7	15.0			G2/5000
FVH (80°-90°)	26.5	0.2			G1/100
BL (0°-30°)	825.8	6.1	B2/1000		
BM (30°-60°)	3869.0	28.7	B3/5000		
BH (60°-80°)	2023.7	15.0	B3/2500		G2/5000
BVH (80°-90°)	26.5	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°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1616.3	1610.9	1614.9	1611.5	1608.8	1606.1	1607.5	1612.2	1614.2	1614.9
5°	1637.9	1633.2	1635.2	1635.2	1630.5	1629.1	1629.8	1633.2	1637.3	1637.3
7.5°	1673.1	1668.4	1673.1	1670.4	1666.4	1665.0	1664.3	1667.0	1673.1	1673.1
10°	1715.8	1710.4	1713.1	1711.7	1707.0	1704.9	1704.3	1708.3	1713.7	1713.1
12.5°	1762.5	1756.4	1759.8	1755.7	1754.3	1752.3	1752.3	1751.6	1755.0	1752.3
15°	1814.6	1810.5	1811.9	1809.2	1811.2	1809.8	1804.4	1801.7	1803.1	1799.0
17.5°	1876.2	1866.7	1871.4	1870.1	1870.1	1872.8	1864.0	1860.6	1863.3	1859.3
20°	1947.2	1937.8	1939.8	1937.1	1933.7	1936.4	1925.6	1928.3	1930.3	1927.6
22.5°	2025.1	2012.9	2012.2	2013.6	2006.1	2006.8	1999.4	2006.1	2010.2	2002.7
25°	2104.9	2092.1	2100.9	2097.5	2088.0	2090.1	2084.6	2091.4	2094.8	2085.3
27.5°	2189.6	2180.8	2188.9	2190.9	2179.4	2187.5	2179.4	2185.5	2188.9	2174.7
30°	2288.4	2279.6	2287.0	2292.4	2278.9	2291.8	2285.0	2289.0	2289.7	2272.8
32.5°	2396.0	2382.4	2401.4	2404.1	2389.2	2404.8	2396.0	2401.4	2404.8	2381.8
35°	2527.3	2510.4	2532.0	2528.6	2515.8	2528.6	2520.5	2528.6	2536.8	2509.0
37.5°	2668.7	2651.1	2674.2	2668.1	2655.9	2664.7	2659.9	2665.4	2678.2	2648.4
40°	2824.4	2802.8	2833.9	2823.1	2811.6	2810.2	2812.9	2816.3	2833.2	2800.1
42.5°	2990.9	2967.9	3014.6	2997.7	2981.4	2970.6	2979.4	2986.2	3002.4	2965.2
45°	3181.1	3154.7	3215.6	3195.3	3169.6	3147.3	3161.5	3171.6	3195.3	3150.7
47.5°	3390.9	3361.1	3426.1	3420.0	3378.1	3329.3	3361.8	3390.9	3408.5	3354.4
50°	3596.0	3573.0	3658.3	3665.7	3614.3	3545.9	3591.3	3635.3	3640.0	3568.9
52.5°	3788.2	3765.2	3889.1	3935.8	3889.8	3808.5	3856.6	3901.3	3865.4	3773.3
55°	3941.9	3922.9	4080.6	4201.1	4216.7	4149.7	4178.1	4176.7	4059.0	3917.5
57.5°	3979.1	3976.4	4175.4	4430.5	4593.0	4601.1	4544.9	4401.4	4147.6	3957.4
60°	3809.9	3826.8	4100.2	4550.3	4983.5	5163.5	4920.6	4511.1	4046.8	3782.8
62.5°	3303.6	3348.3	3677.9	4404.1	5298.9	5810.6	5221.8	4344.6	3632.6	3288.0
65°	2367.6	2445.4	2809.5	3758.4	5270.5	6379.1	5178.4	3728.0	2836.6	2439.3
67.5°	1074.1	1153.3	1462.6	2573.3	4581.5	6224.8	4570.6	2600.4	1535.7	1157.4
70°	389.2	402.7	502.2	1030.1	2928.0	4959.8	3053.2	1037.6	534.0	429.1
72.5°	235.5	237.6	258.5	368.9	1017.3	3011.2	1060.6	381.1	264.0	234.2
75°	149.6	148.2	184.1	225.4	360.8	1015.9	378.3	225.4	183.4	167.2
77.5°	107.6	111.0	132.0	168.5	227.4	344.5	223.4	161.1	132.0	108.3
80°	80.5	82.6	96.1	131.3	159.7	214.6	142.1	119.1	99.5	67.7
82.5°	58.2	58.2	62.9	95.4	97.5	115.7	77.2	83.9	65.7	48.1
85°	34.5	33.8	39.3	56.9	50.8	42.6	35.2	51.4	41.3	29.8
87.5°	12.2	12.9	12.2	16.2	13.5	11.5	10.8	14.2	11.5	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1605.4
1614.9
1637.3
1671.1
1711.7
1753.7
1799.7
1862.6
1933.7
2010.2
2096.1
2185.5
2283.0
2397.3
2525.9
2666.7
2810.9
2984.8
3173.7
3372.7
3577.7
3776.0
3922.2
3945.3
3751.7
3267.7
2410.2
1140.5
423.7
238.2
168.5
110.3
69.7
48.1
29.1
9.5
0.0

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