

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: P947561

Luminaire Tested: **GALN-SB2D-850-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947561  
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-SB2D-850-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

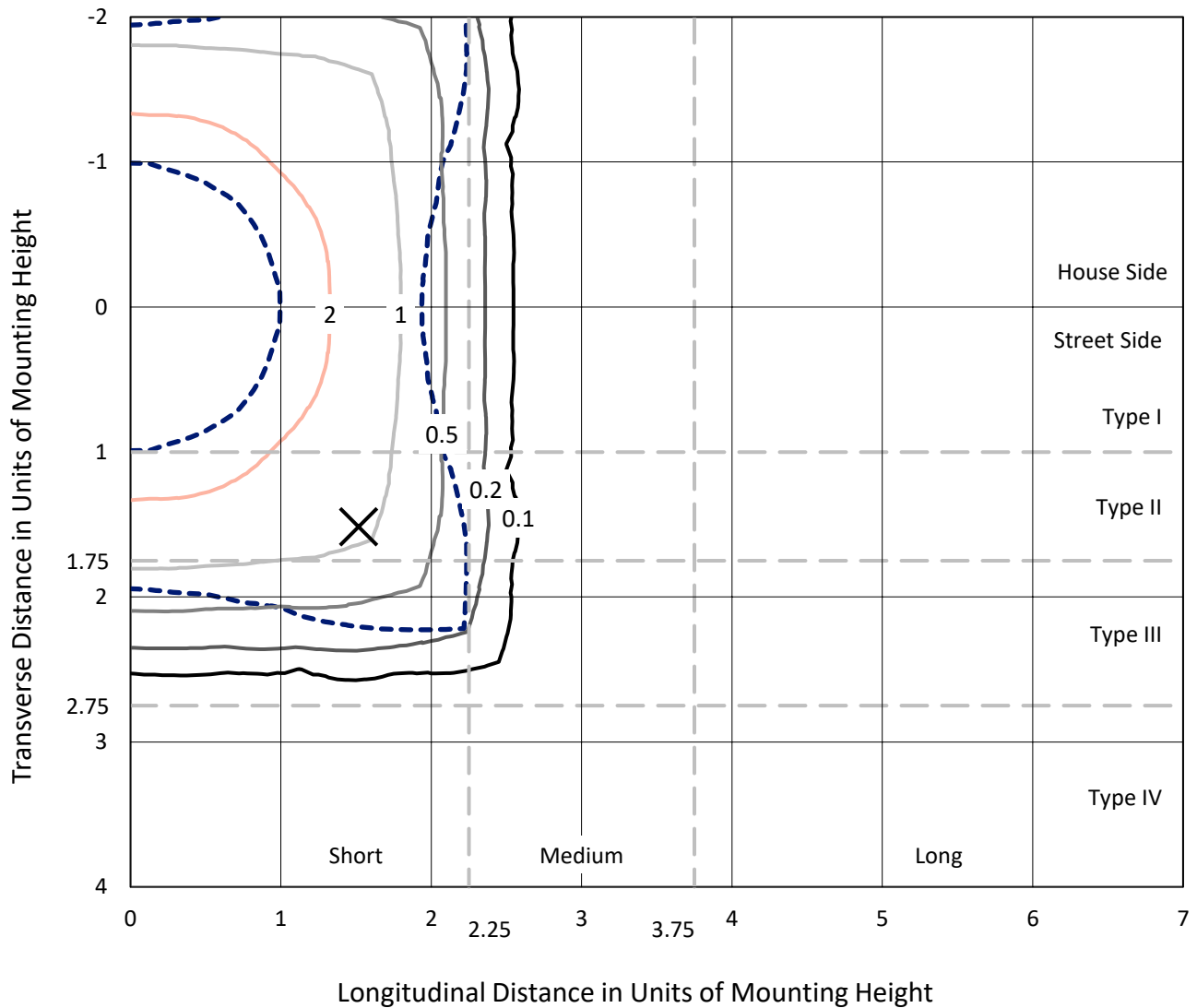
Lumens per Lamp: N/A  
Luminaire Lumens: 20398 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

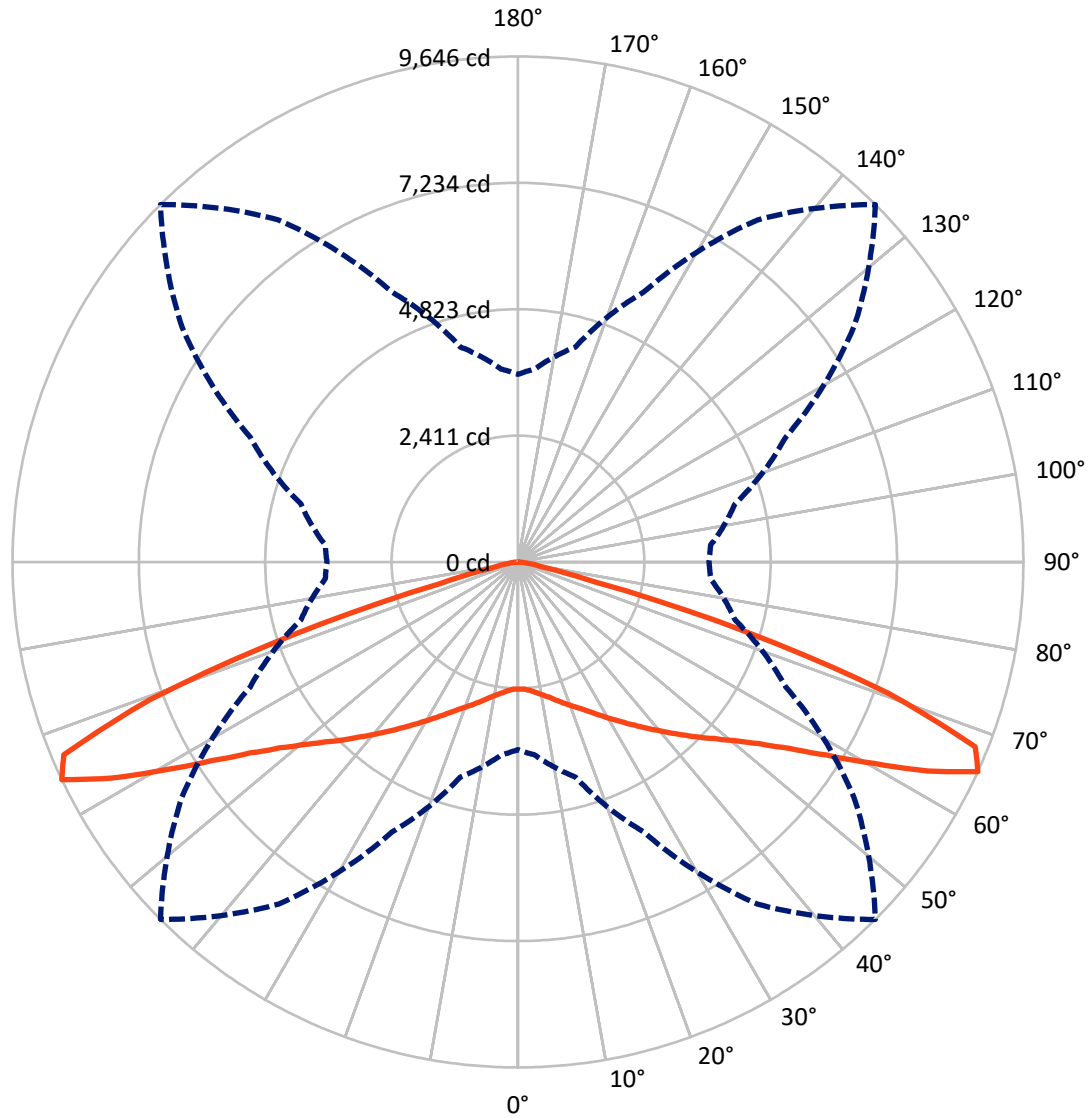
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	10199.0	0.0	10199.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10199.0	0.0	10199.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20398.0	0.0	20398.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.6	1.2
10°-20°	781.8	3.8
20°-30°	1476.0	7.2
30°-40°	2417.0	11.8
40°-50°	3747.6	18.4
50°-60°	5535.9	27.1
60°-70°	5269.7	25.8
70°-80°	850.3	4.2
80°-90°	80.2	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°	20398.0	100.0
0°-180°	20398.0	100.0

**Coefficient of Utilization**



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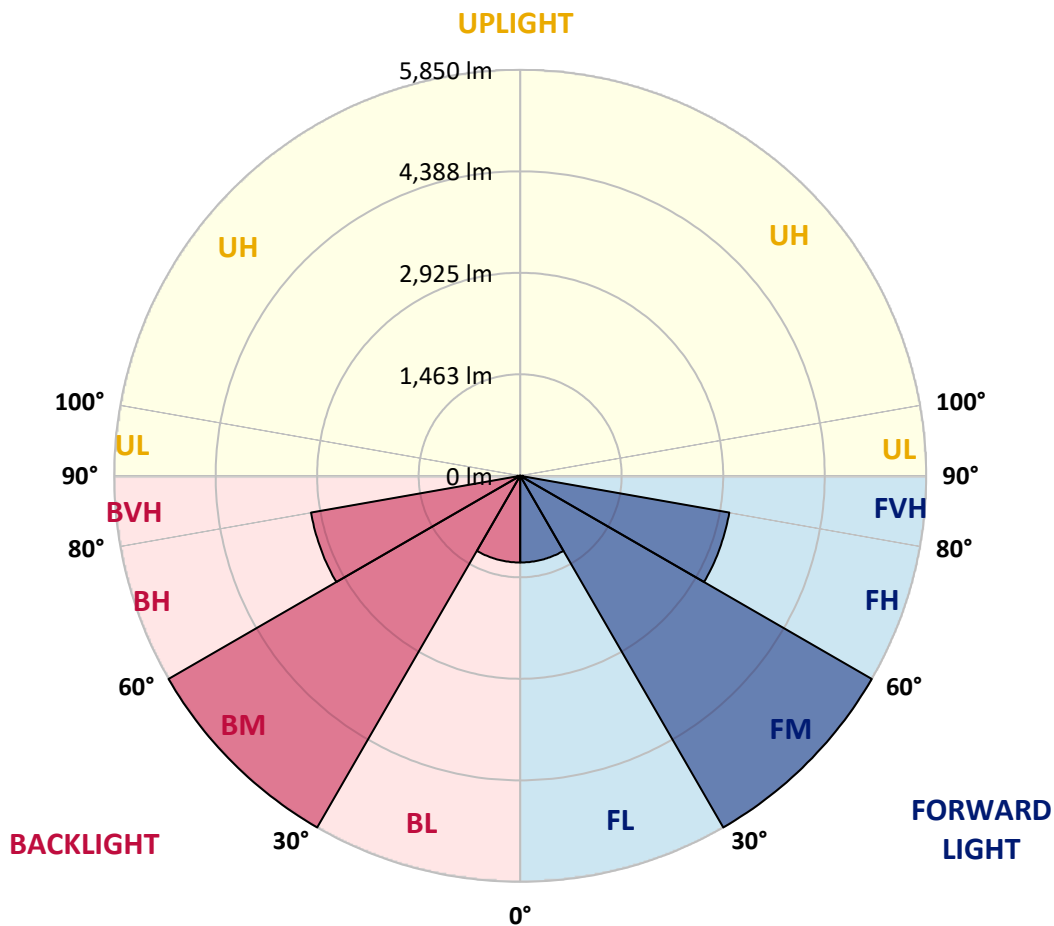
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.7	6.1			
FM (30°-60°)	5850.2	28.7			
FH (60°-80°)	3060.0	15.0			G2/5000
FVH (80°-90°)	40.1	0.2			G1/100
BL (0°-30°)	1248.7	6.1	B3/2500		
BM (30°-60°)	5850.2	28.7	B4/8500		
BH (60°-80°)	3060.0	15.0	B4/5000		G2/5000
BVH (80°-90°)	40.1	0.2			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°	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6
2.5°	2443.9	2435.8	2441.9	2436.8	2432.7	2428.6	2430.6	2437.8	2440.9	2441.9
5°	2476.7	2469.5	2472.6	2472.6	2465.4	2463.4	2464.4	2469.5	2475.7	2475.7
7.5°	2529.9	2522.7	2529.9	2525.8	2519.7	2517.6	2516.6	2520.7	2529.9	2529.9
10°	2594.4	2586.2	2590.3	2588.2	2581.1	2578.0	2577.0	2583.1	2591.3	2590.3
12.5°	2665.0	2655.8	2660.9	2654.8	2652.7	2649.6	2649.6	2648.6	2653.7	2649.6
15°	2743.8	2737.7	2739.7	2735.6	2738.7	2736.6	2728.5	2724.4	2726.4	2720.3
17.5°	2836.9	2822.6	2829.8	2827.7	2827.7	2831.8	2818.5	2813.4	2817.5	2811.4
20°	2944.4	2930.1	2933.1	2929.0	2923.9	2928.0	2911.6	2915.7	2918.8	2914.7
22.5°	3062.1	3043.7	3042.6	3044.7	3033.4	3034.5	3023.2	3033.4	3039.6	3028.3
25°	3182.9	3163.4	3176.7	3171.6	3157.3	3160.3	3152.2	3162.4	3167.5	3153.2
27.5°	3310.8	3297.5	3309.8	3312.8	3295.4	3307.7	3295.4	3304.6	3309.8	3288.3
30°	3460.2	3446.9	3458.2	3466.3	3445.9	3465.3	3455.1	3461.2	3462.2	3436.7
32.5°	3622.9	3602.5	3631.1	3635.2	3612.7	3636.2	3622.9	3631.1	3636.2	3601.4
35°	3821.5	3795.9	3828.6	3823.5	3804.1	3823.5	3811.2	3823.5	3835.8	3793.8
37.5°	4035.4	4008.8	4043.6	4034.3	4015.9	4029.2	4022.1	4030.3	4049.7	4004.7
40°	4270.8	4238.0	4285.1	4268.7	4251.3	4249.3	4253.4	4258.5	4284.1	4233.9
42.5°	4522.5	4487.7	4558.3	4532.8	4508.2	4491.8	4505.1	4515.4	4539.9	4483.6
45°	4810.1	4770.2	4862.3	4831.6	4792.7	4758.9	4780.4	4795.8	4831.6	4764.0
47.5°	5127.4	5082.3	5180.6	5171.4	5107.9	5034.2	5083.4	5127.4	5154.0	5072.1
50°	5437.5	5402.7	5531.6	5542.9	5465.1	5361.7	5430.3	5496.8	5504.0	5396.5
52.5°	5728.1	5693.3	5880.6	5951.2	5881.6	5758.8	5831.5	5899.0	5844.8	5705.6
55°	5960.4	5931.8	6170.2	6352.4	6375.9	6274.6	6317.6	6315.6	6137.5	5923.6
57.5°	6016.7	6012.6	6313.5	6699.3	6945.0	6957.2	6872.3	6655.3	6271.6	5984.0
60°	5760.9	5786.4	6199.9	6880.5	7535.5	7807.7	7440.3	6821.1	6119.1	5719.9
62.5°	4995.3	5062.9	5561.3	6659.4	8012.4	8786.1	7895.7	6569.4	5492.7	4971.8
65°	3579.9	3697.6	4248.2	5683.1	7969.4	9645.8	7830.2	5637.0	4289.2	3688.4
67.5°	1624.2	1743.9	2211.6	3891.1	6927.6	9412.4	6911.2	3932.0	2322.2	1750.1
70°	588.5	608.9	759.4	1557.7	4427.3	7499.7	4616.7	1568.9	807.5	648.9
72.5°	356.2	359.2	390.9	557.8	1538.2	4553.2	1603.7	576.2	399.1	354.1
75°	226.2	224.1	278.4	340.8	545.5	1536.2	572.1	340.8	277.3	252.8
77.5°	162.7	167.8	199.6	254.8	343.9	520.9	337.7	243.6	199.6	163.7
80°	121.8	124.9	145.3	198.5	241.5	324.4	214.9	180.1	150.4	102.3
82.5°	88.0	88.0	95.2	144.3	147.4	175.0	116.7	126.9	99.3	72.7
85°	52.2	51.2	59.4	86.0	76.8	64.5	53.2	77.8	62.4	45.0
87.5°	18.4	19.4	18.4	24.6	20.5	17.4	16.4	21.5	17.4	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2427.6
2441.9
2475.7
2526.8
2588.2
2651.7
2721.3
2816.5
2923.9
3039.6
3169.5
3304.6
3452.0
3625.0
3819.4
4032.3
4250.3
4513.3
4798.8
5099.7
5409.8
5709.7
5930.8
5965.5
5672.8
4941.1
3644.4
1724.5
640.7
360.2
254.8
166.8
105.4
72.7
44.0
14.3
0.0

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