

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: P941710

Luminaire Tested: **GALN-SB5B-850-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27521 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

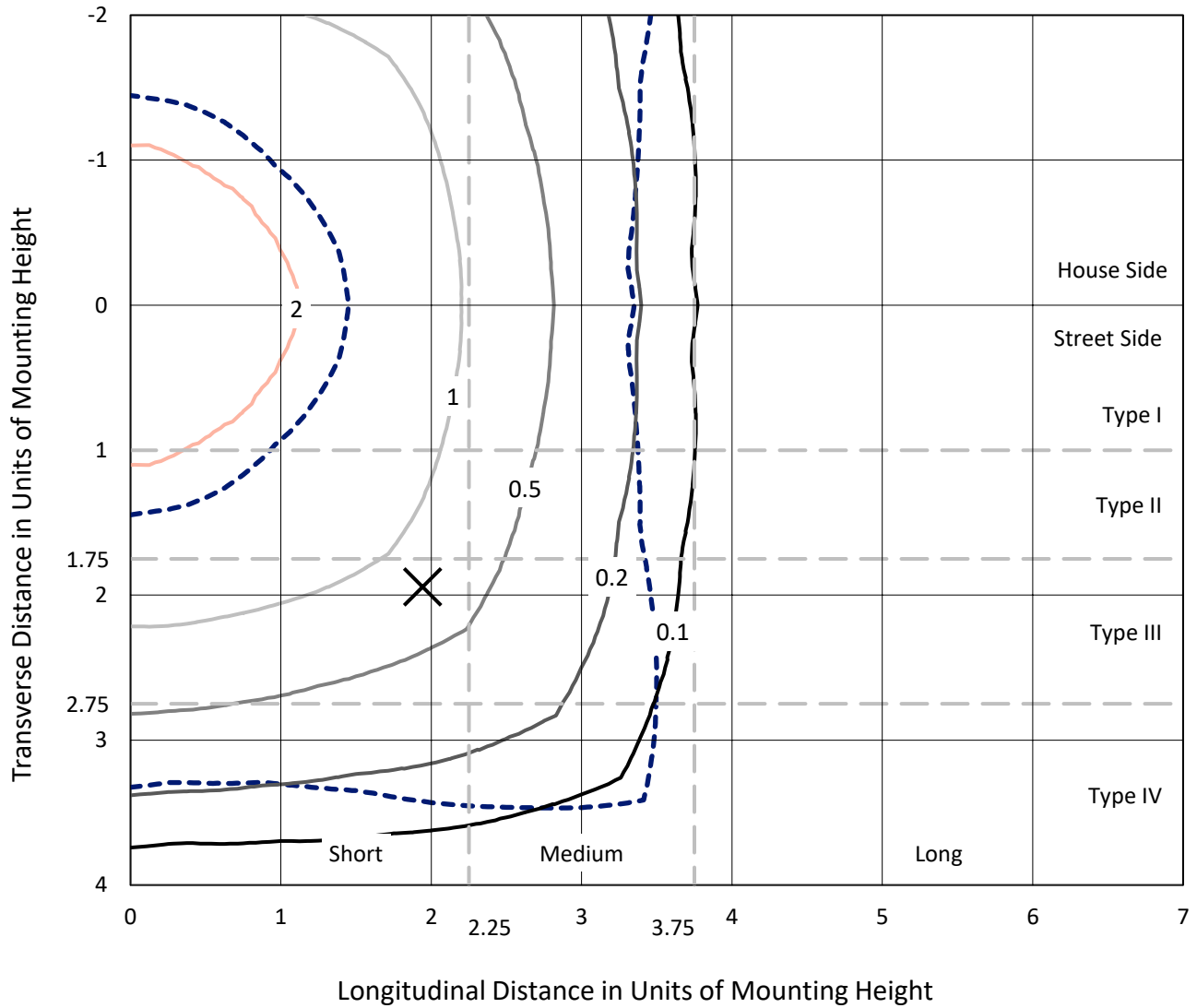
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

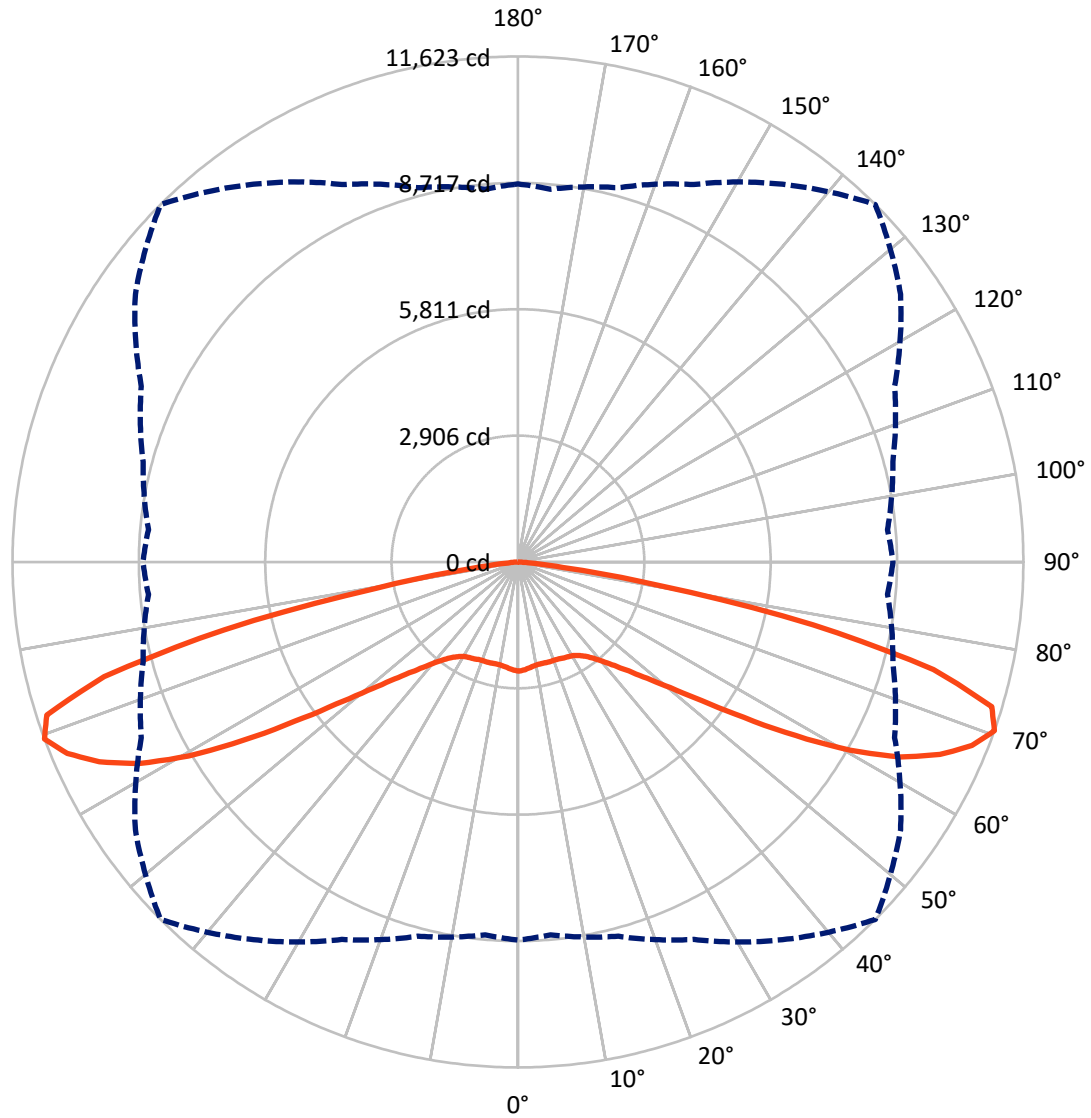
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	13760.5	0.0	13760.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13760.5	0.0	13760.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27521.0	0.0	27521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	0.8
10°-20°	685.7	2.5
20°-30°	1141.1	4.1
30°-40°	1725.7	6.3
40°-50°	2867.7	10.4
50°-60°	5411.3	19.7
60°-70°	9137.2	33.2
70°-80°	6004.1	21.8
80°-90°	314.6	1.1
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°	27521.0	100.0
0°-180°	27521.0	100.0

Coefficient of Utilization



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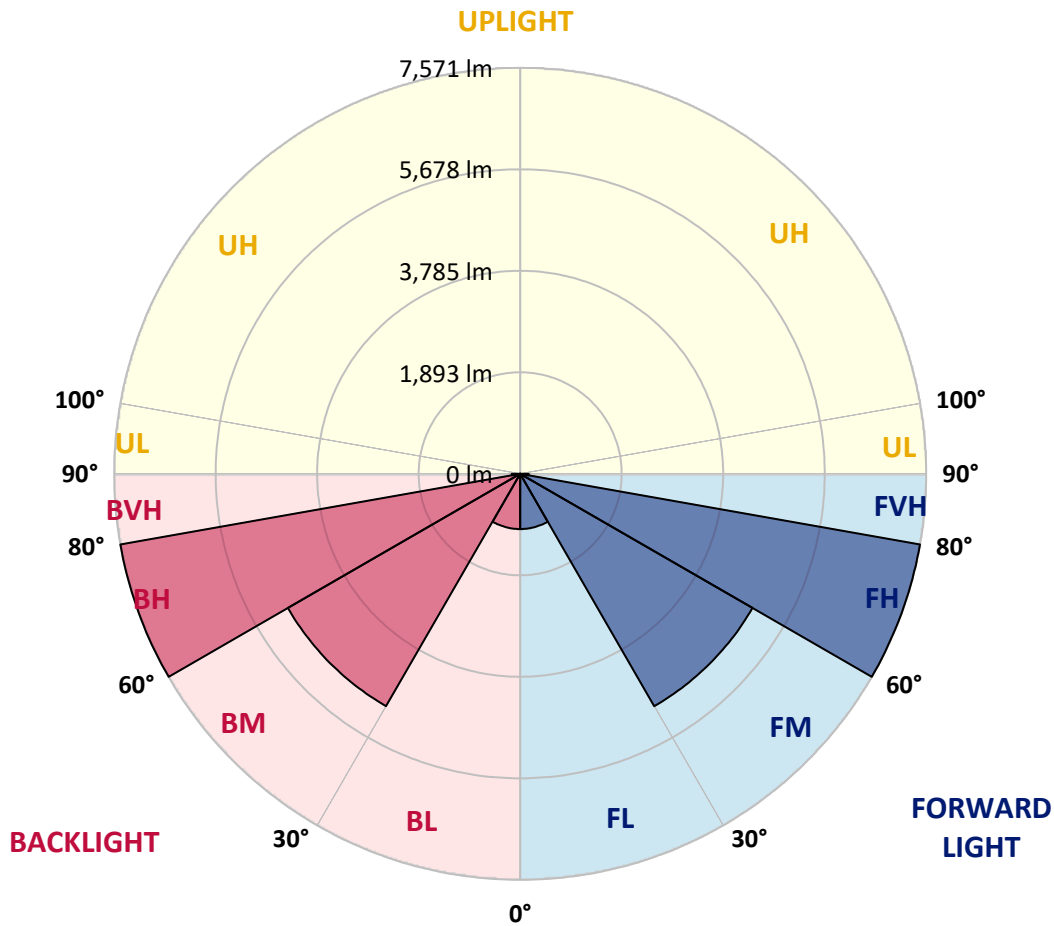
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.2	3.7			
FM (30°-60°)	5002.4	18.2			
FH (60°-80°)	7570.7	27.5			G4/12000
FVH (80°-90°)	157.3	0.6			G2/225
BL (0°-30°)	1030.2	3.7	B3/2500		
BM (30°-60°)	5002.4	18.2	B4/8500		
BH (60°-80°)	7570.7	27.5	B5		G4/12000
BVH (80°-90°)	157.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2510.5	2510.5	2510.5	2510.5	2510.5	2510.5	2510.5	2510.5	2510.5	2510.5
2.5°	2494.7	2501.9	2499.0	2493.3	2493.3	2489.0	2493.3	2496.2	2500.5	2503.3
5°	2461.8	2467.6	2466.1	2461.8	2463.3	2459.0	2461.8	2466.1	2469.0	2470.4
7.5°	2433.2	2438.9	2436.1	2428.9	2428.9	2424.6	2426.1	2430.4	2434.7	2436.1
10°	2426.1	2431.8	2423.2	2411.8	2407.5	2401.8	2403.2	2407.5	2416.1	2420.3
12.5°	2428.9	2433.2	2424.6	2407.5	2403.2	2397.5	2397.5	2401.8	2413.2	2418.9
15°	2437.5	2441.8	2428.9	2410.3	2406.0	2401.8	2400.3	2406.0	2418.9	2428.9
17.5°	2453.3	2457.5	2437.5	2411.8	2406.0	2407.5	2406.0	2410.3	2430.4	2449.0
20°	2467.6	2470.4	2443.2	2411.8	2406.0	2407.5	2406.0	2414.6	2440.4	2466.1
22.5°	2471.8	2474.7	2449.0	2421.8	2417.5	2418.9	2417.5	2426.1	2450.4	2476.1
25°	2473.3	2477.6	2457.5	2436.1	2443.2	2446.1	2443.2	2444.7	2463.3	2486.2
27.5°	2494.7	2500.5	2481.9	2463.3	2467.6	2466.1	2470.4	2474.7	2489.0	2511.9
30°	2539.1	2543.4	2527.6	2509.0	2506.2	2496.2	2509.0	2523.3	2539.1	2559.1
32.5°	2612.0	2620.6	2600.6	2580.6	2567.7	2562.0	2572.0	2596.3	2617.8	2639.2
35°	2733.6	2739.3	2720.7	2683.6	2660.7	2660.7	2669.3	2700.7	2735.1	2762.2
37.5°	2905.3	2912.4	2879.5	2835.2	2800.9	2800.9	2812.3	2845.2	2896.7	2935.3
40°	3114.1	3124.1	3082.7	3036.9	3004.0	2998.3	3012.6	3049.8	3098.4	3147.0
42.5°	3365.9	3377.3	3323.0	3282.9	3257.2	3257.2	3264.3	3298.7	3343.0	3403.1
45°	3687.7	3707.8	3633.4	3593.3	3569.0	3574.7	3579.0	3609.1	3649.1	3717.8
47.5°	4071.1	4091.1	4012.5	3971.0	3966.7	3993.9	3976.7	3998.2	4019.6	4098.3
50°	4506.0	4540.3	4485.9	4483.1	4491.7	4541.7	4501.7	4513.1	4488.8	4538.9
52.5°	5038.1	5088.2	5078.2	5095.3	5191.2	5294.2	5202.6	5162.6	5071.0	5086.7
55°	5683.2	5759.1	5773.4	5876.4	6093.8	6304.1	6109.5	5947.9	5753.3	5717.6
57.5°	6417.1	6477.2	6545.8	6756.1	7162.3	7535.7	7162.3	6804.7	6498.6	6425.7
60°	7206.7	7281.1	7346.9	7657.3	8260.9	8785.9	8249.5	7681.6	7276.8	7178.1
62.5°	8055.0	8150.8	8196.6	8541.3	9245.1	9871.7	9255.1	8567.1	8117.9	8012.0
65°	8868.9	8947.6	8999.1	9366.7	10039.0	10667.0	10084.8	9406.7	8944.7	8806.0
67.5°	9248.0	9290.9	9416.8	9833.0	10542.5	11259.2	10662.7	9877.4	9361.0	9117.8
70°	8692.9	8605.7	8908.9	9575.5	10602.6	11622.5	10739.9	9555.5	8923.3	8528.4
72.5°	6717.5	6567.3	7093.7	8233.8	9916.0	11390.8	9984.7	8298.1	7421.3	6620.2
75°	3654.8	3484.6	4211.3	5653.2	7907.6	9873.1	8089.3	5814.8	4689.1	3627.7
77.5°	1031.4	967.0	1553.5	2735.1	4756.3	6932.0	4939.4	2795.1	1842.4	1092.9
80°	316.1	306.1	414.8	823.9	2019.8	3320.1	1941.1	834.0	527.8	333.3
82.5°	187.4	171.7	206.0	300.4	515.0	1042.8	500.7	313.3	251.8	168.8
85°	107.3	100.1	121.6	145.9	173.1	221.7	144.5	148.8	134.5	90.1
87.5°	44.3	40.1	47.2	45.8	40.1	51.5	38.6	45.8	54.4	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2510.5
2501.9
2470.4
2436.1
2420.3
2420.3
2430.4
2449.0
2467.6
2476.1
2484.7
2506.2
2554.8
2630.6
2752.2
2921.0
3131.3
3398.8
3714.9
4075.4
4508.8
5033.8
5661.8
6374.2
7092.3
7926.2
8737.3
9120.7
8622.9
6819.0
3863.7
1214.5
351.9
183.1
94.4
32.9
0.0

OF REPORT)