

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: P947564

Luminaire Tested: **GALN-SB2D-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947564
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-SB2D-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20045 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

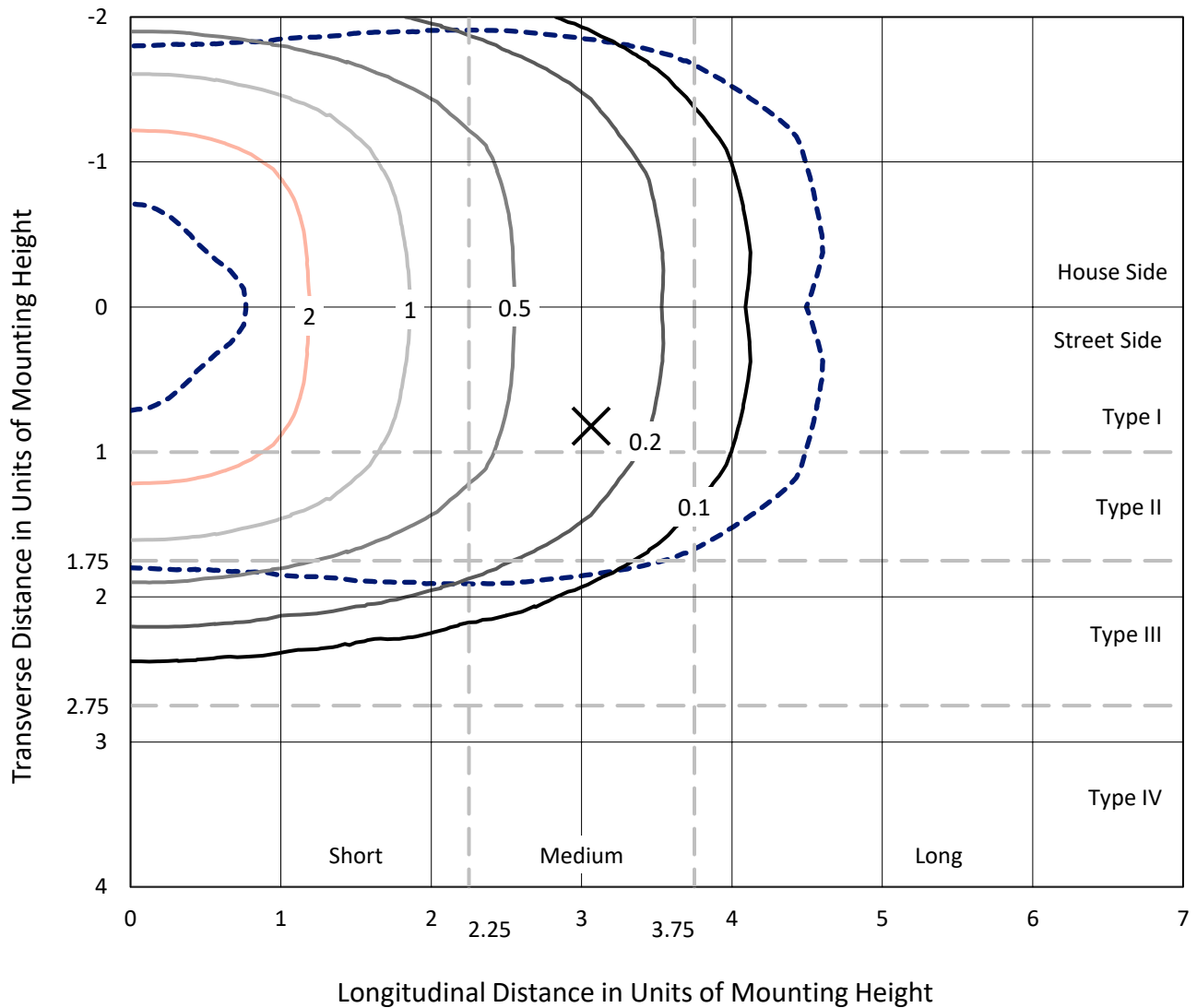
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

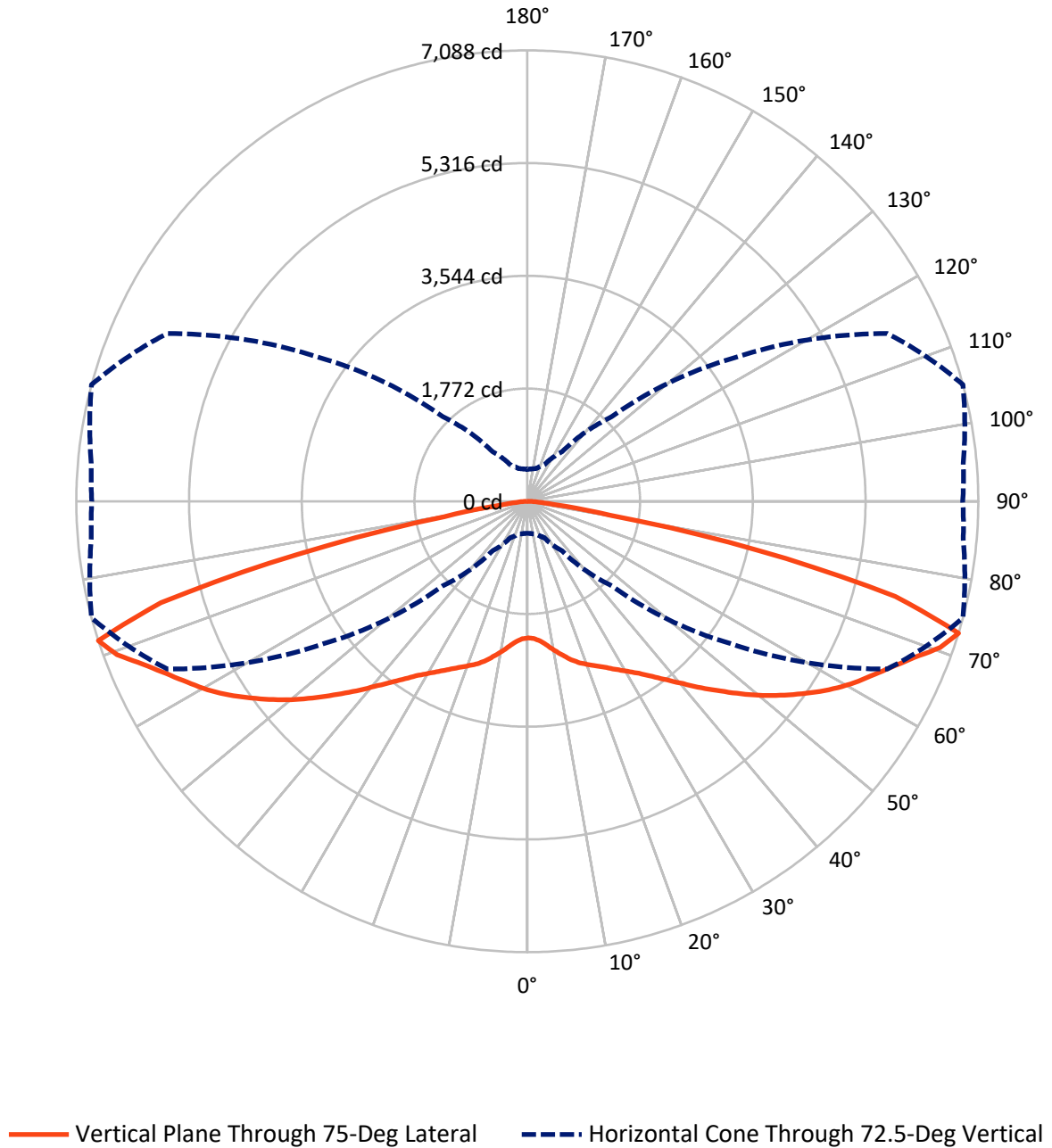
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	10022.5	0.0	10022.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10022.5	0.0	10022.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20045.0	0.0	20045.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	1.0
10°-20°	693.7	3.5
20°-30°	1340.5	6.7
30°-40°	2263.5	11.3
40°-50°	3589.6	17.9
50°-60°	4806.1	24.0
60°-70°	4573.9	22.8
70°-80°	2386.7	11.9
80°-90°	180.7	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°	20045.0	100.0
0°-180°	20045.0	100.0



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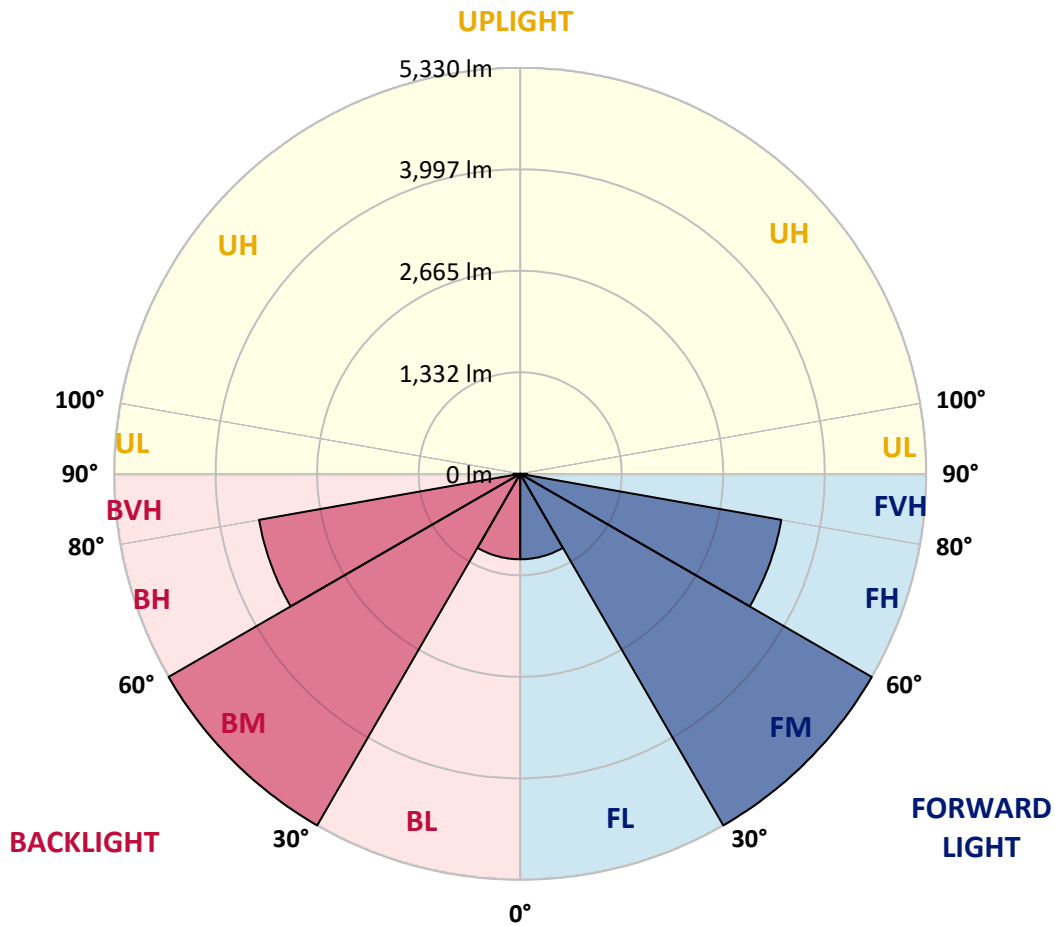
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.3	5.6			
FM (30°-60°)	5329.6	26.6			
FH (60°-80°)	3480.3	17.4			G2/5000
FVH (80°-90°)	90.3	0.5			G1/100
BL (0°-30°)	1122.3	5.6	B3/2500		
BM (30°-60°)	5329.6	26.6	B4/8500		
BH (60°-80°)	3480.3	17.4	B4/5000		G4/5000
BVH (80°-90°)	90.3	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°	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2
2.5°	2147.2	2145.1	2147.2	2149.2	2148.2	2148.2	2153.3	2156.4	2162.5	2161.5
5°	2132.9	2131.8	2140.0	2149.2	2156.4	2168.7	2184.0	2195.3	2209.6	2212.7
7.5°	2125.7	2122.6	2136.9	2153.3	2175.8	2206.5	2236.2	2266.9	2291.5	2299.7
10°	2130.8	2131.8	2151.3	2182.0	2217.8	2260.8	2302.7	2354.9	2389.7	2397.9
12.5°	2154.3	2152.3	2185.0	2234.2	2283.3	2337.5	2386.7	2444.0	2481.8	2501.3
15°	2197.3	2193.2	2239.3	2312.0	2383.6	2447.0	2487.0	2541.2	2585.2	2609.8
17.5°	2248.5	2250.5	2310.9	2405.1	2499.2	2570.9	2608.8	2636.4	2670.2	2691.6
20°	2338.6	2342.7	2410.2	2521.8	2629.2	2711.1	2741.8	2731.6	2740.8	2757.1
22.5°	2459.3	2461.4	2537.1	2657.9	2770.5	2860.5	2881.0	2839.0	2813.4	2824.7
25°	2599.5	2612.8	2688.6	2812.4	2928.1	3014.0	3023.2	2959.8	2896.3	2899.4
27.5°	2770.5	2782.7	2859.5	2982.3	3100.0	3174.7	3173.7	3088.7	2995.6	2972.1
30°	2955.7	2969.0	3047.8	3174.7	3284.2	3349.7	3335.4	3234.1	3101.0	3057.0
32.5°	3175.7	3183.9	3263.8	3390.7	3492.0	3544.2	3514.5	3389.6	3223.8	3173.7
35°	3441.8	3454.1	3513.5	3633.2	3722.3	3765.2	3715.1	3567.7	3381.4	3325.2
37.5°	3745.8	3737.6	3805.2	3911.6	3985.3	4011.9	3943.3	3768.3	3561.6	3495.0
40°	4063.1	4059.0	4132.7	4235.0	4274.9	4291.3	4190.0	3998.6	3769.3	3697.7
42.5°	4350.6	4347.6	4446.8	4560.5	4608.6	4590.1	4462.2	4243.2	4009.8	3928.0
45°	4580.9	4576.8	4698.6	4858.3	4952.4	4921.7	4749.8	4513.4	4253.4	4168.5
47.5°	4758.0	4760.0	4891.0	5088.5	5253.3	5264.6	5043.5	4788.7	4521.6	4425.4
50°	4885.9	4892.0	5032.3	5251.3	5476.4	5575.7	5343.4	5071.1	4798.9	4690.4
52.5°	4917.6	4928.9	5097.8	5354.6	5619.7	5809.0	5648.4	5342.4	5061.9	4958.6
55°	4748.8	4771.3	4985.2	5346.5	5707.7	5962.6	5916.5	5617.7	5327.0	5220.6
57.5°	4360.9	4392.6	4642.3	5114.1	5688.3	6068.0	6124.3	5881.7	5592.1	5489.7
60°	3817.4	3855.3	4094.8	4609.6	5414.0	6106.9	6270.6	6138.6	5835.7	5736.4
62.5°	2997.7	3046.8	3333.3	3937.2	4834.7	5925.7	6395.5	6370.9	6054.7	5930.8
65°	1923.0	1975.2	2277.2	2990.5	4062.0	5371.0	6434.4	6597.1	6286.0	6113.0
67.5°	1159.6	1183.1	1332.5	1812.5	2969.0	4534.9	6104.8	6847.8	6556.2	6341.2
70°	742.0	755.3	844.3	1064.4	1678.4	3308.8	5288.1	6894.9	6883.7	6575.6
72.5°	503.5	507.6	531.2	630.4	949.8	1880.1	3900.3	6242.0	7088.3	6877.5
75°	368.4	391.0	428.8	446.2	539.4	939.5	2235.2	4385.4	5973.8	6065.9
77.5°	274.3	275.3	327.5	348.0	384.8	500.5	945.7	2448.1	3708.9	3894.2
80°	232.3	220.0	219.0	280.4	289.6	312.1	422.7	845.4	1328.4	805.4
82.5°	193.4	180.1	162.7	219.0	197.5	191.4	183.2	343.9	422.7	207.8
85°	135.1	129.0	122.8	143.3	112.6	96.2	88.0	160.7	178.1	88.0
87.5°	58.3	60.4	61.4	63.5	47.1	33.8	33.8	45.0	45.0	34.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2147.2
2160.5
2212.7
2301.7
2406.1
2509.5
2619.0
2701.9
2769.4
2832.9
2904.5
2979.2
3062.1
3186.0
3333.3
3507.3
3721.2
3948.4
4187.9
4454.0
4723.2
4985.2
5250.3
5513.3
5757.9
5945.2
6134.5
6357.6
6573.6
6844.8
5842.8
3473.6
608.9
177.1
77.8
25.6
0.0

OF REPORT)