

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: P947560

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
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-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20385 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

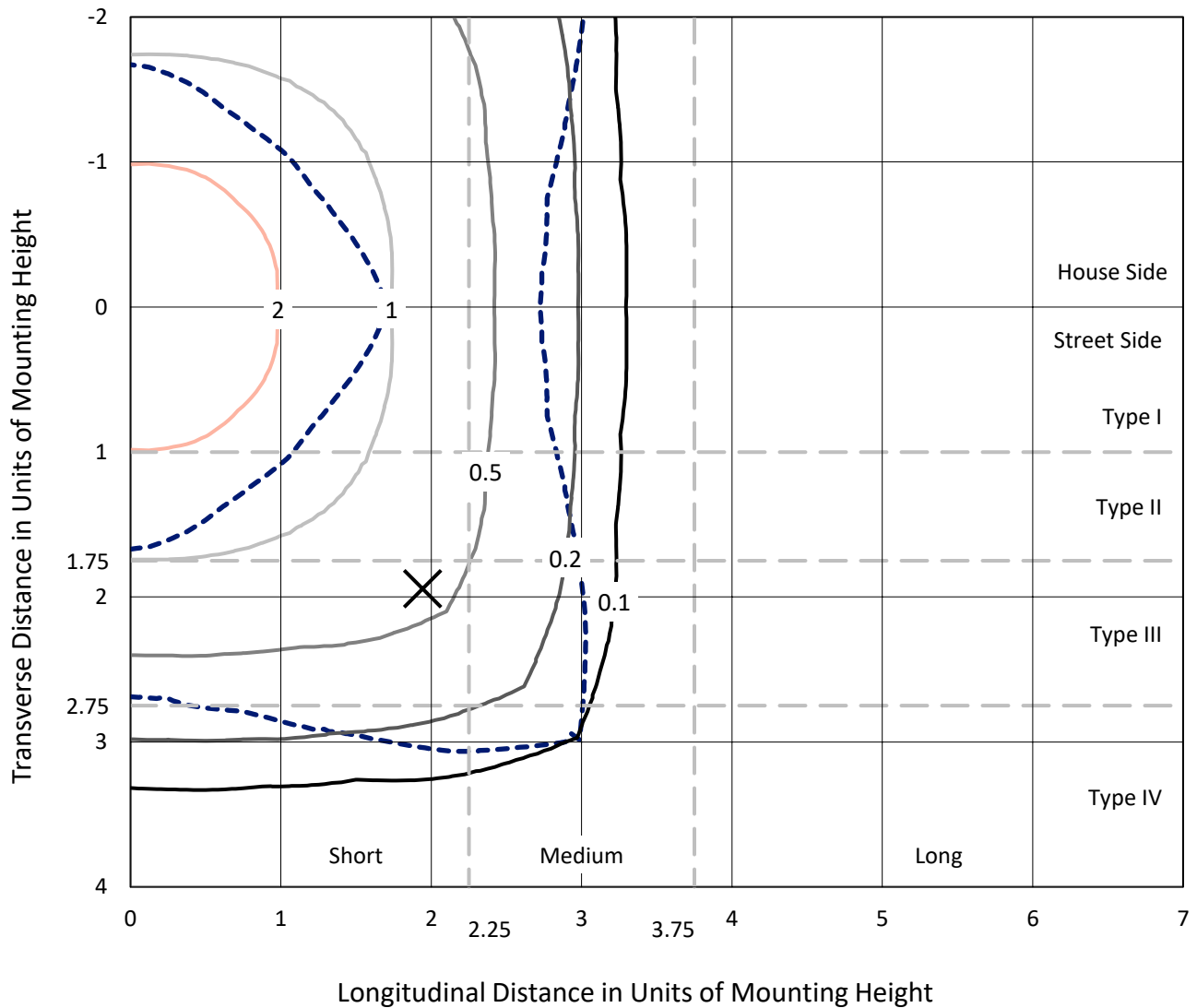
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

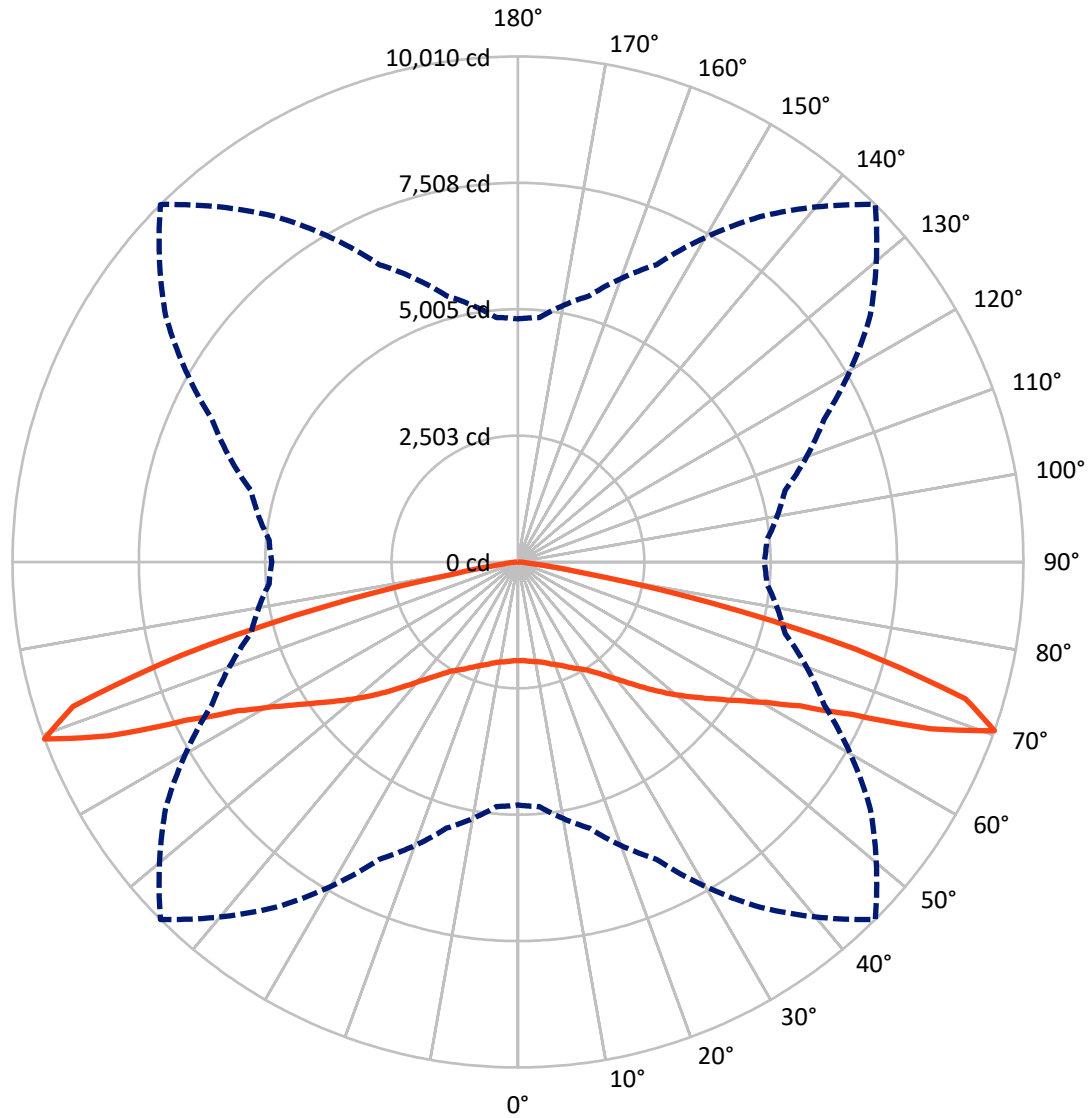
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	10192.5	0.0	10192.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10192.5	0.0	10192.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20385.0	0.0	20385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	0.9
10°-20°	588.2	2.9
20°-30°	1051.3	5.2
30°-40°	1704.1	8.4
40°-50°	2775.7	13.6
50°-60°	4232.0	20.8
60°-70°	6295.8	30.9
70°-80°	3431.4	16.8
80°-90°	116.8	0.6
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°	20385.0	100.0
0°-180°	20385.0	100.0

Coefficient of Utilization



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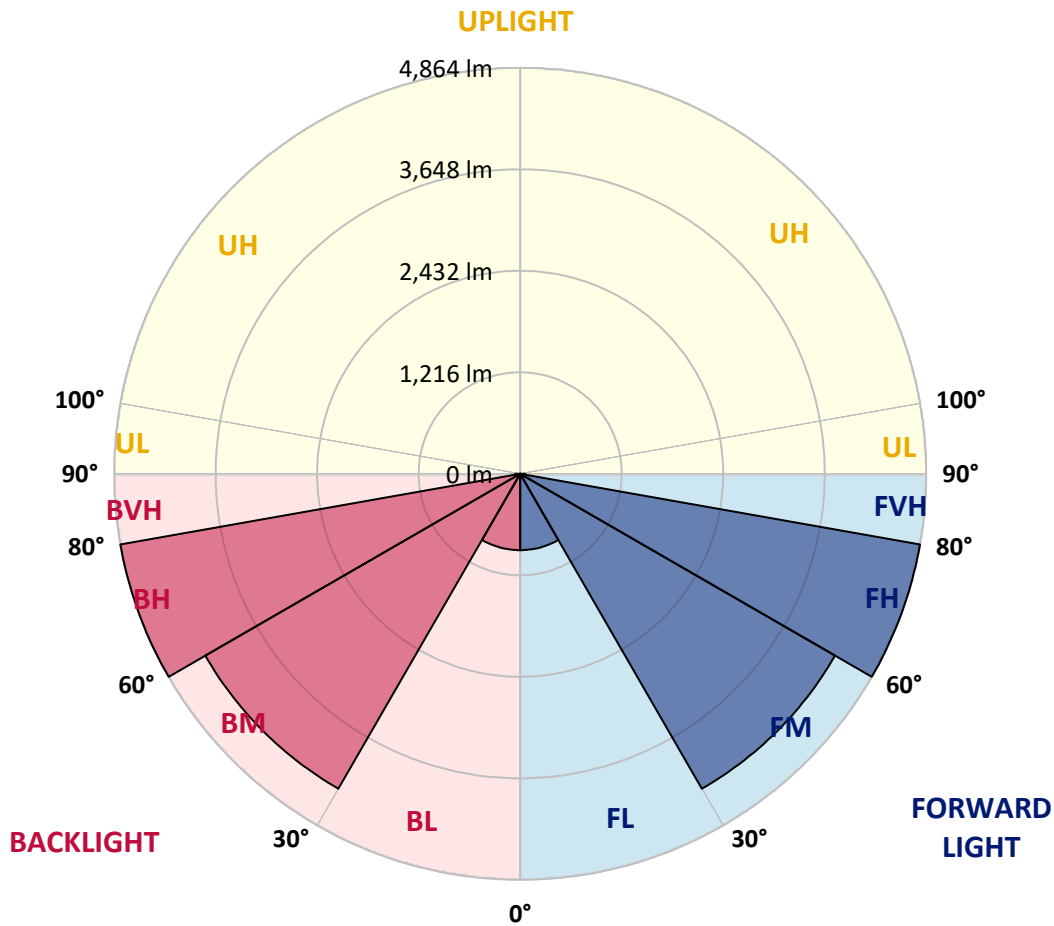
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.6	4.5			
FM (30°-60°)	4355.9	21.4			
FH (60°-80°)	4863.6	23.9			G2/5000
FVH (80°-90°)	58.4	0.3			G1/100
BL (0°-30°)	914.6	4.5	B2/1000		
BM (30°-60°)	4355.9	21.4	B3/5000		
BH (60°-80°)	4863.6	23.9	B4/5000		G2/5000
BVH (80°-90°)	58.4	0.3			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°	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7	1952.7
2.5°	1961.9	1963.9	1959.8	1957.8	1955.7	1952.7	1953.7	1958.8	1962.9	1961.9
5°	1978.3	1980.3	1977.2	1976.2	1972.1	1971.1	1971.1	1976.2	1979.3	1977.2
7.5°	1996.7	1999.7	1994.6	1993.6	1991.6	1989.5	1988.5	1993.6	1996.7	1996.7
10°	2014.1	2017.1	2013.1	2010.0	2007.9	2007.9	2005.9	2010.0	2015.1	2014.1
12.5°	2032.5	2034.5	2030.5	2028.4	2028.4	2031.5	2028.4	2030.5	2034.5	2032.5
15°	2055.0	2056.0	2055.0	2058.1	2063.2	2073.4	2064.2	2062.2	2064.2	2059.1
17.5°	2085.7	2087.8	2091.9	2099.0	2106.2	2124.6	2108.2	2103.1	2103.1	2092.9
20°	2123.6	2126.7	2132.8	2145.1	2154.3	2171.7	2155.3	2148.1	2145.1	2131.8
22.5°	2163.5	2168.6	2177.8	2194.2	2210.6	2226.9	2210.6	2198.3	2189.1	2171.7
25°	2209.5	2215.7	2230.0	2256.6	2279.1	2302.7	2283.2	2258.7	2240.3	2215.7
27.5°	2275.0	2282.2	2299.6	2332.4	2361.0	2381.5	2363.1	2331.3	2305.7	2276.1
30°	2367.2	2374.3	2394.8	2429.6	2449.0	2462.3	2450.1	2425.5	2394.8	2361.0
32.5°	2485.9	2495.1	2517.6	2550.3	2554.4	2556.5	2552.4	2540.1	2517.6	2476.7
35°	2636.3	2646.5	2672.1	2698.7	2694.6	2698.7	2692.6	2688.5	2672.1	2625.1
37.5°	2820.5	2832.8	2859.4	2879.9	2869.7	2864.5	2865.6	2866.6	2857.4	2805.2
40°	3034.4	3050.8	3070.2	3091.7	3074.3	3059.0	3069.2	3077.4	3069.2	3016.0
42.5°	3254.5	3278.0	3298.5	3329.2	3314.8	3295.4	3309.7	3318.9	3301.5	3244.2
45°	3499.0	3521.6	3548.2	3594.2	3584.0	3563.5	3584.0	3586.0	3556.4	3488.8
47.5°	3751.8	3775.4	3815.3	3876.7	3872.6	3850.1	3876.7	3862.4	3824.5	3743.6
50°	3991.3	4024.1	4085.5	4171.4	4179.6	4152.0	4187.8	4160.2	4096.7	3995.4
52.5°	4216.5	4251.3	4348.5	4465.2	4494.8	4459.0	4507.1	4459.0	4363.8	4233.9
55°	4452.9	4491.8	4607.4	4759.9	4819.3	4792.6	4837.7	4765.0	4629.9	4472.3
57.5°	4731.2	4754.8	4892.9	5074.1	5174.4	5180.5	5201.0	5078.2	4914.4	4735.3
60°	5033.1	5065.9	5216.3	5433.3	5591.9	5643.1	5621.6	5439.4	5249.1	5043.4
62.5°	5420.0	5455.8	5635.9	5895.9	6146.6	6273.5	6189.6	5925.6	5690.2	5443.5
65°	5740.3	5780.2	6105.7	6569.3	7025.7	7280.6	7069.7	6583.6	6159.9	5812.0
67.5°	5508.0	5557.1	6067.8	6919.3	8054.3	8814.7	8093.2	7023.7	6193.7	5721.9
70°	4814.1	4860.2	5455.8	6496.6	8343.9	10010.0	8517.9	6688.0	5475.3	4947.2
72.5°	3196.1	3344.5	3947.3	5195.9	7450.4	9262.9	7524.1	5090.5	3661.8	3189.0
75°	1060.3	1179.0	1590.4	2693.6	4990.2	6927.5	4750.7	2383.5	1259.8	906.7
77.5°	267.1	308.0	424.7	770.6	1990.5	3944.2	1792.0	629.4	342.8	239.5
80°	130.0	143.3	204.7	256.9	498.4	1253.7	467.7	241.5	161.7	124.9
82.5°	71.6	72.7	115.6	145.3	185.2	324.4	192.4	141.2	93.1	75.7
85°	44.0	43.0	61.4	77.8	77.8	115.6	92.1	77.8	53.2	47.1
87.5°	17.4	17.4	22.5	24.6	21.5	29.7	23.5	25.6	20.5	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1952.7
1962.9
1978.3
1996.7
2014.1
2031.5
2059.1
2092.9
2131.8
2170.7
2214.7
2275.0
2361.0
2477.7
2625.1
2805.2
3016.0
3248.3
3496.0
3738.5
3993.4
4221.6
4450.8
4710.8
5010.6
5400.6
5754.7
5651.3
4876.6
3085.6
857.6
213.9
114.6
75.7
49.1
20.5
0.0

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