

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: P947392

Luminaire Tested: **GALN-SB2D-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947392
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-735-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21312 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

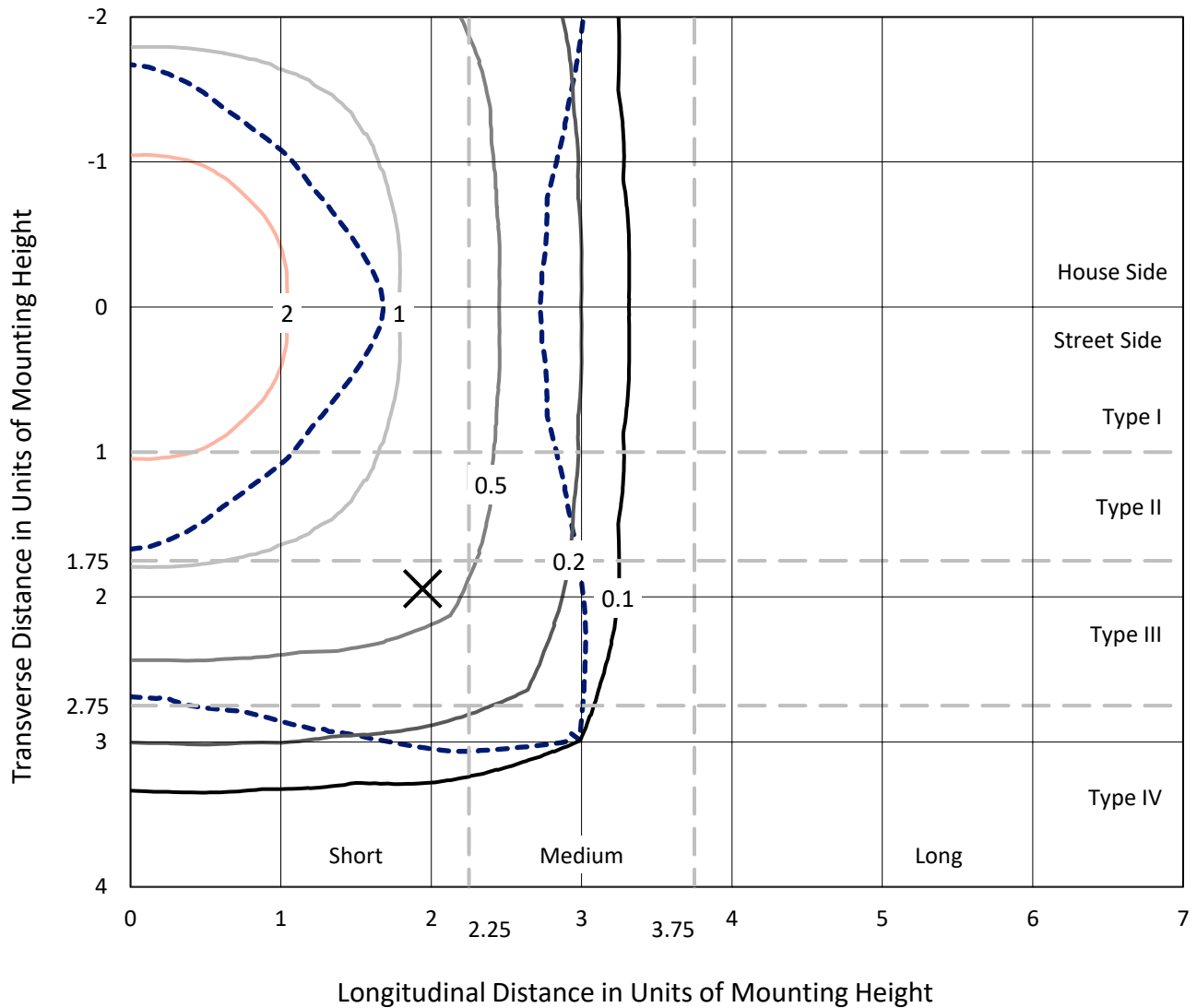
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

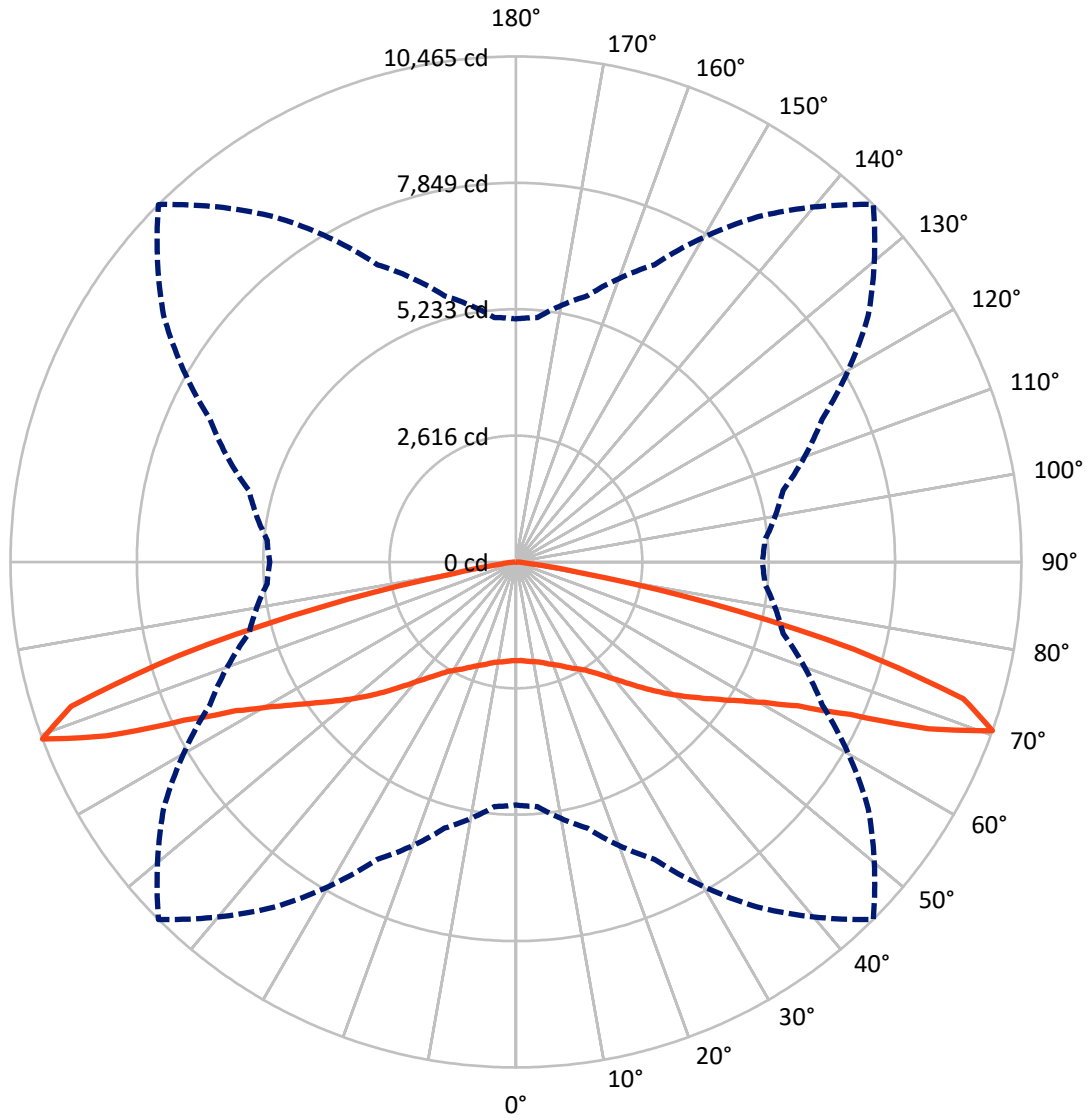
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	10656.0	0.0	10656.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10656.0	0.0	10656.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21312.0	0.0	21312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	0.9
10°-20°	615.0	2.9
20°-30°	1099.1	5.2
30°-40°	1781.6	8.4
40°-50°	2901.9	13.6
50°-60°	4424.4	20.8
60°-70°	6582.1	30.9
70°-80°	3587.5	16.8
80°-90°	122.2	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°	21312.0	100.0
0°-180°	21312.0	100.0

Coefficient of Utilization



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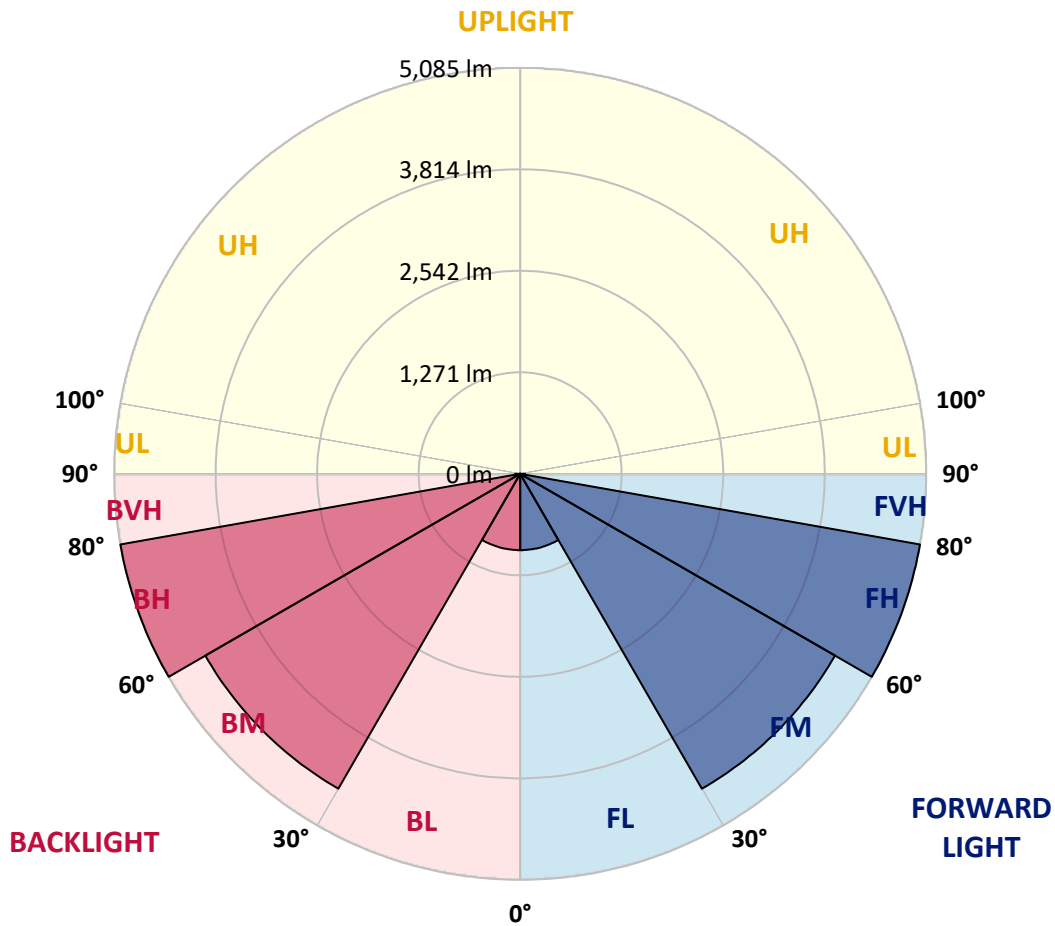
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.2	4.5			
FM (30°-60°)	4553.9	21.4			
FH (60°-80°)	5084.8	23.9			G3/7500
FVH (80°-90°)	61.1	0.3			G1/100
BL (0°-30°)	956.2	4.5	B2/1000		
BM (30°-60°)	4553.9	21.4	B3/5000		
BH (60°-80°)	5084.8	23.9	B5		G3/7500
BVH (80°-90°)	61.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5	2041.5
2.5°	2051.1	2053.2	2049.0	2046.8	2044.7	2041.5	2042.5	2047.9	2052.2	2051.1
5°	2068.2	2070.4	2067.1	2066.1	2061.8	2060.7	2060.7	2066.1	2069.3	2067.1
7.5°	2087.5	2090.7	2085.3	2084.3	2082.1	2080.0	2078.9	2084.3	2087.5	2087.5
10°	2105.7	2108.9	2104.6	2101.4	2099.2	2099.2	2097.1	2101.4	2106.7	2105.7
12.5°	2124.9	2127.1	2122.8	2120.6	2120.6	2123.9	2120.6	2122.8	2127.1	2124.9
15°	2148.5	2149.5	2148.5	2151.7	2157.0	2167.7	2158.1	2156.0	2158.1	2152.7
17.5°	2180.6	2182.7	2187.0	2194.5	2202.0	2221.2	2204.1	2198.8	2198.8	2188.1
20°	2220.2	2223.4	2229.8	2242.6	2252.2	2270.4	2253.3	2245.8	2242.6	2228.7
22.5°	2261.9	2267.2	2276.9	2294.0	2311.1	2328.2	2311.1	2298.3	2288.6	2270.4
25°	2310.0	2316.4	2331.4	2359.2	2382.8	2407.4	2387.1	2361.4	2342.1	2316.4
27.5°	2378.5	2386.0	2404.2	2438.4	2468.4	2489.8	2470.5	2437.4	2410.6	2379.6
30°	2474.8	2482.3	2503.7	2540.1	2560.4	2574.3	2561.5	2535.8	2503.7	2468.4
32.5°	2598.9	2608.5	2632.1	2666.3	2670.6	2672.7	2668.5	2655.6	2632.1	2589.3
35°	2756.2	2766.9	2793.6	2821.5	2817.2	2821.5	2815.0	2810.8	2793.6	2744.4
37.5°	2948.8	2961.6	2989.4	3010.8	3000.1	2994.8	2995.9	2996.9	2987.3	2932.7
40°	3172.4	3189.5	3209.9	3232.3	3214.1	3198.1	3208.8	3217.3	3208.8	3153.1
42.5°	3402.4	3427.1	3448.5	3480.6	3465.6	3445.2	3460.2	3469.9	3451.7	3391.7
45°	3658.2	3681.7	3709.5	3757.7	3747.0	3725.6	3747.0	3749.1	3718.1	3647.5
47.5°	3922.4	3947.1	3988.8	4053.0	4048.7	4025.2	4053.0	4038.0	3998.4	3913.9
50°	4172.8	4207.1	4271.2	4361.1	4369.7	4340.8	4378.2	4349.4	4283.0	4177.1
52.5°	4408.2	4444.6	4546.2	4668.2	4699.2	4661.8	4712.1	4661.8	4562.3	4426.4
55°	4655.4	4696.0	4816.9	4976.3	5038.4	5010.6	5057.7	4981.7	4840.5	4675.7
57.5°	4946.4	4971.0	5115.4	5304.8	5409.7	5416.1	5437.5	5309.1	5137.9	4950.7
60°	5262.0	5296.3	5453.5	5680.4	5846.2	5899.7	5877.2	5686.8	5487.8	5272.7
62.5°	5666.5	5703.9	5892.2	6164.0	6426.1	6558.8	6471.1	6195.0	5948.9	5691.1
65°	6001.4	6043.1	6383.3	6868.0	7345.2	7611.6	7391.2	6883.0	6440.0	6076.3
67.5°	5758.5	5809.8	6343.7	7233.9	8420.5	9215.5	8461.2	7343.1	6475.4	5982.1
70°	5033.1	5081.2	5703.9	6792.1	8723.3	10465.2	8905.2	6992.1	5724.2	5172.1
72.5°	3341.5	3496.6	4126.8	5432.1	7789.3	9684.1	7866.3	5321.9	3828.3	3334.0
75°	1108.5	1232.6	1662.7	2816.1	5217.1	7242.5	4966.7	2491.9	1317.1	948.0
77.5°	279.3	322.1	444.0	805.7	2081.1	4123.6	1873.5	658.0	358.4	250.4
80°	135.9	149.8	214.0	268.6	521.1	1310.7	489.0	252.5	169.1	130.5
82.5°	74.9	76.0	120.9	151.9	193.7	339.2	201.2	147.7	97.4	79.2
85°	46.0	44.9	64.2	81.3	81.3	120.9	96.3	81.3	55.6	49.2
87.5°	18.2	18.2	23.5	25.7	22.5	31.0	24.6	26.7	21.4	20.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2041.5
2052.2
2068.2
2087.5
2105.7
2123.9
2152.7
2188.1
2228.7
2269.4
2315.4
2378.5
2468.4
2590.4
2744.4
2932.7
3153.1
3396.0
3655.0
3908.5
4175.0
4413.6
4653.2
4925.0
5238.5
5646.1
6016.3
5908.3
5098.3
3225.9
896.6
223.6
119.8
79.2
51.4
21.4
0.0

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