

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: P947645

Luminaire Tested: **GALN-SB2D-940-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947645
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-940-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15453 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

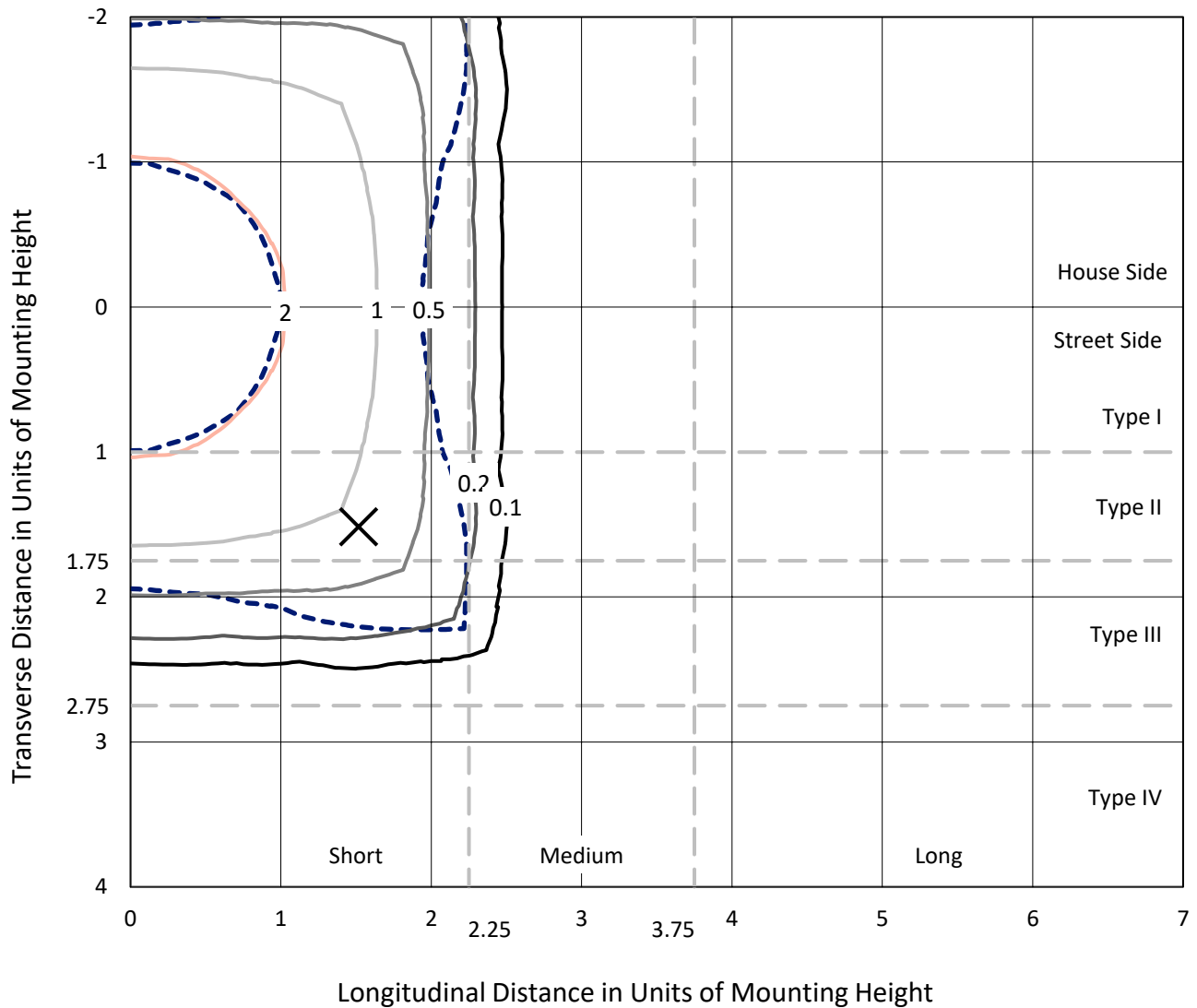
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

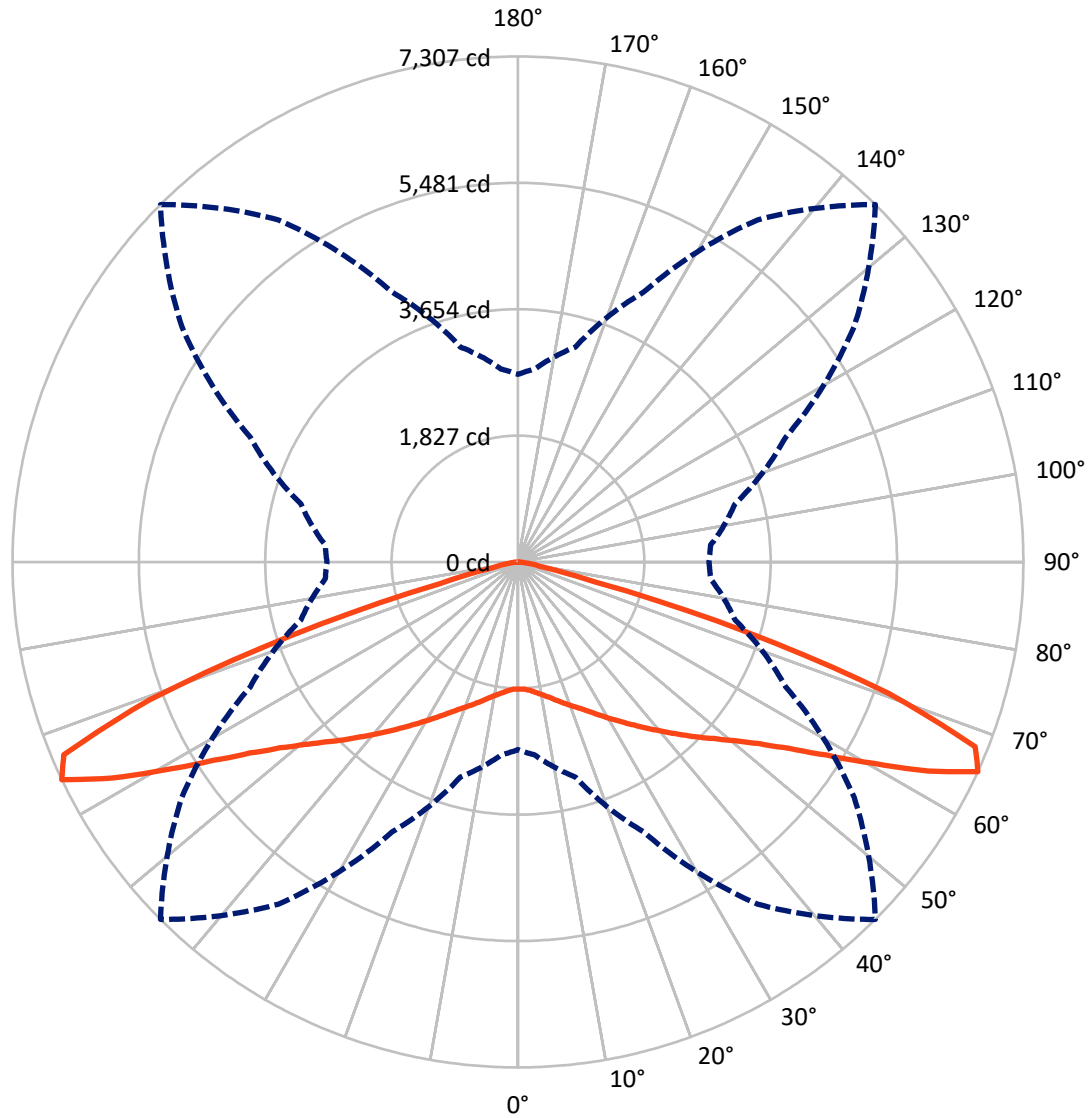
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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
House Side	Lumens	7726.5	0.0	7726.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7726.5	0.0	7726.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15453.0	0.0	15453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	1.2
10°-20°	592.2	3.8
20°-30°	1118.2	7.2
30°-40°	1831.0	11.8
40°-50°	2839.0	18.4
50°-60°	4193.9	27.1
60°-70°	3992.2	25.8
70°-80°	644.2	4.2
80°-90°	60.7	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°	15453.0	100.0
0°-180°	15453.0	100.0

Coefficient of Utilization



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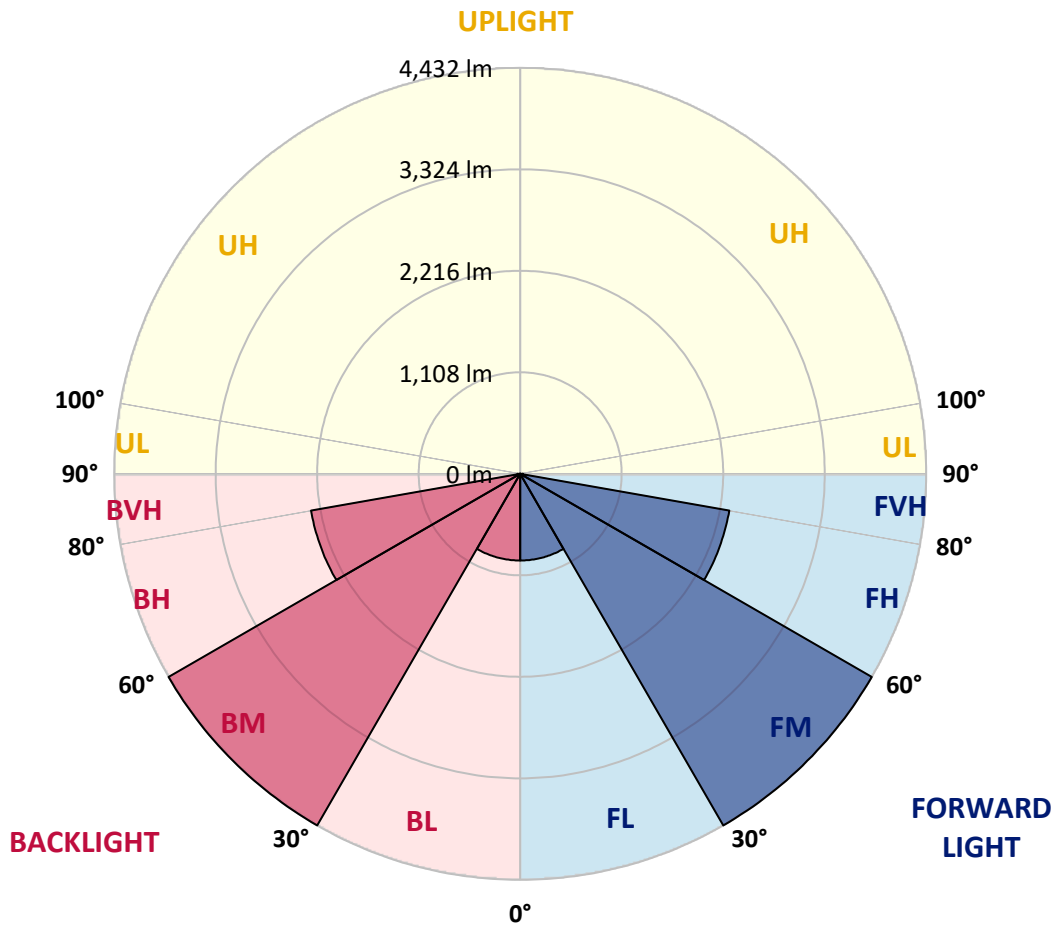
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.0	6.1			
FM (30°-60°)	4432.0	28.7			
FH (60°-80°)	2318.2	15.0			G2/5000
FVH (80°-90°)	30.4	0.2			G1/100
BL (0°-30°)	946.0	6.1	B2/1000		
BM (30°-60°)	4432.0	28.7	B3/5000		
BH (60°-80°)	2318.2	15.0	B3/2500		G2/5000
BVH (80°-90°)	30.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1839.1	1839.1	1839.1	1839.1	1839.1	1839.1	1839.1	1839.1	1839.1	1839.1
2.5°	1851.5	1845.3	1849.9	1846.0	1842.9	1839.8	1841.4	1846.8	1849.1	1849.9
5°	1876.3	1870.8	1873.2	1873.2	1867.7	1866.2	1867.0	1870.8	1875.5	1875.5
7.5°	1916.6	1911.2	1916.6	1913.5	1908.8	1907.3	1906.5	1909.6	1916.6	1916.6
10°	1965.4	1959.2	1962.3	1960.8	1955.4	1953.0	1952.3	1956.9	1963.1	1962.3
12.5°	2018.9	2012.0	2015.8	2011.2	2009.6	2007.3	2007.3	2006.5	2010.4	2007.3
15°	2078.6	2074.0	2075.5	2072.4	2074.8	2073.2	2067.0	2063.9	2065.5	2060.8
17.5°	2149.2	2138.3	2143.8	2142.2	2142.2	2145.3	2135.2	2131.4	2134.5	2129.8
20°	2230.6	2219.7	2222.1	2219.0	2215.1	2218.2	2205.8	2208.9	2211.2	2208.1
22.5°	2319.8	2305.8	2305.0	2306.6	2298.1	2298.8	2290.3	2298.1	2302.7	2294.2
25°	2411.2	2396.5	2406.6	2402.7	2391.9	2394.2	2388.0	2395.7	2399.6	2388.8
27.5°	2508.2	2498.1	2507.4	2509.7	2496.5	2505.8	2496.5	2503.5	2507.4	2491.1
30°	2621.4	2611.3	2619.8	2626.0	2610.5	2625.2	2617.5	2622.1	2622.9	2603.5
32.5°	2744.6	2729.1	2750.8	2753.9	2736.9	2754.7	2744.6	2750.8	2754.7	2728.4
35°	2895.0	2875.7	2900.5	2896.6	2881.9	2896.6	2887.3	2896.6	2905.9	2874.1
37.5°	3057.1	3036.9	3063.3	3056.3	3042.4	3052.4	3047.0	3053.2	3067.9	3033.8
40°	3235.4	3210.6	3246.3	3233.9	3220.7	3219.1	3222.2	3226.1	3245.5	3207.5
42.5°	3426.1	3399.8	3453.3	3433.9	3415.3	3402.9	3413.0	3420.7	3439.3	3396.7
45°	3644.0	3613.8	3683.6	3660.3	3630.8	3605.2	3621.5	3633.2	3660.3	3609.1
47.5°	3884.4	3850.2	3924.7	3917.7	3869.6	3813.8	3851.0	3884.4	3904.5	3842.5
50°	4119.3	4092.9	4190.6	4199.1	4140.2	4061.9	4113.9	4164.2	4169.7	4088.3
52.5°	4339.5	4313.1	4455.0	4508.5	4455.8	4362.7	4417.8	4469.0	4427.9	4322.4
55°	4515.5	4493.8	4674.4	4812.4	4830.3	4753.5	4786.1	4784.5	4649.6	4487.6
57.5°	4558.1	4555.0	4783.0	5075.3	5261.3	5270.6	5206.3	5041.9	4751.2	4533.3
60°	4364.3	4383.7	4696.9	5212.5	5708.7	5914.9	5636.6	5167.5	4635.6	4333.3
62.5°	3784.3	3835.5	4213.1	5045.0	6070.0	6656.1	5981.6	4976.8	4161.1	3766.5
65°	2712.1	2801.2	3218.4	4305.4	6037.4	7307.4	5932.0	4270.5	3249.4	2794.3
67.5°	1230.4	1321.1	1675.5	2947.8	5248.1	7130.6	5235.7	2978.8	1759.2	1325.8
70°	445.8	461.3	575.3	1180.0	3354.0	5681.6	3497.5	1188.6	611.7	491.6
72.5°	269.8	272.1	296.2	422.5	1165.3	3449.4	1214.9	436.5	302.4	268.3
75°	171.3	169.8	210.9	258.2	413.2	1163.8	433.4	258.2	210.1	191.5
77.5°	123.3	127.2	151.2	193.1	260.5	394.6	255.9	184.5	151.2	124.1
80°	92.3	94.6	110.1	150.4	183.0	245.8	162.8	136.5	114.0	77.5
82.5°	66.7	66.7	72.1	109.3	111.6	132.6	88.4	96.1	75.2	55.0
85°	39.5	38.8	45.0	65.1	58.1	48.8	40.3	58.9	47.3	34.1
87.5°	14.0	14.7	14.0	18.6	15.5	13.2	12.4	16.3	13.2	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1839.1
1849.9
1875.5
1914.3
1960.8
2008.9
2061.6
2133.7
2215.1
2302.7
2401.2
2503.5
2615.2
2746.2
2893.5
3054.8
3219.9
3419.2
3635.5
3863.4
4098.3
4325.5
4493.0
4519.3
4297.6
3743.3
2760.9
1306.4
485.4
272.9
193.1
126.4
79.9
55.0
33.3
10.9
0.0

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