

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: P947497

Luminaire Tested: **GALN-SB2D-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947497
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-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19150 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

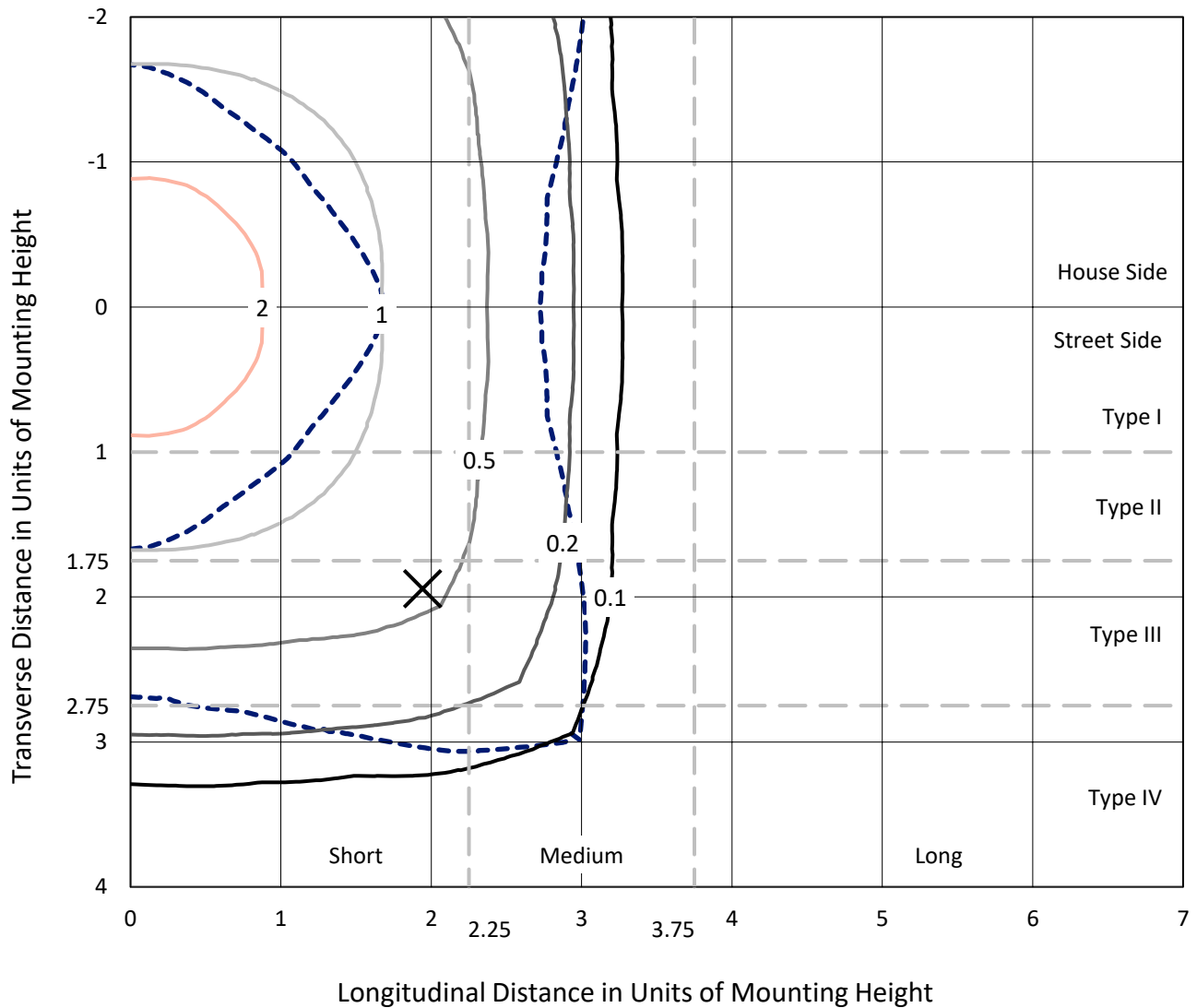
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

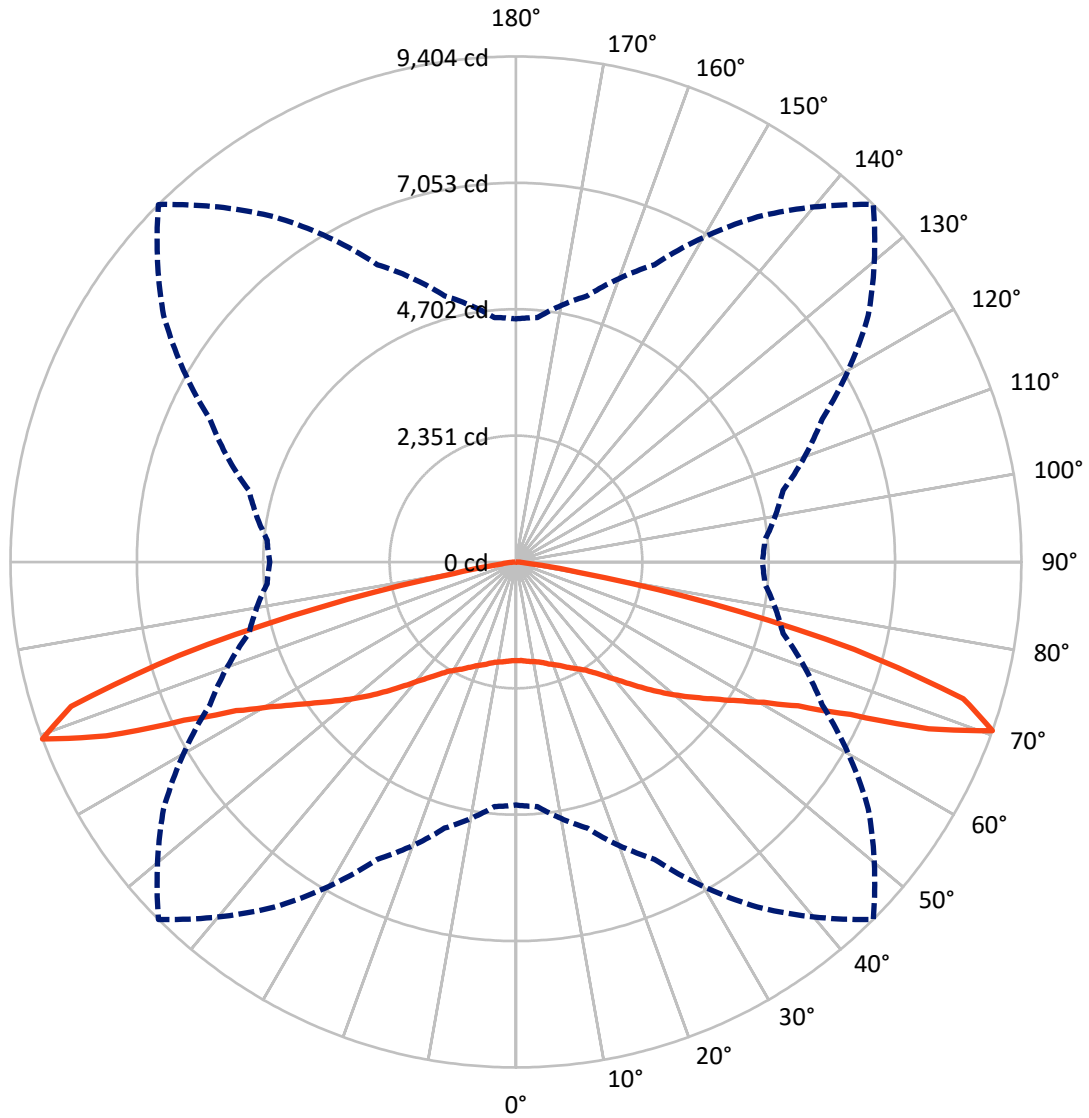
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	9575.0	0.0	9575.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9575.0	0.0	9575.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19150.0	0.0	19150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	0.9
10°-20°	552.6	2.9
20°-30°	987.6	5.2
30°-40°	1600.8	8.4
40°-50°	2607.5	13.6
50°-60°	3975.6	20.8
60°-70°	5914.4	30.9
70°-80°	3223.5	16.8
80°-90°	109.8	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°	19150.0	100.0
0°-180°	19150.0	100.0

Coefficient of Utilization



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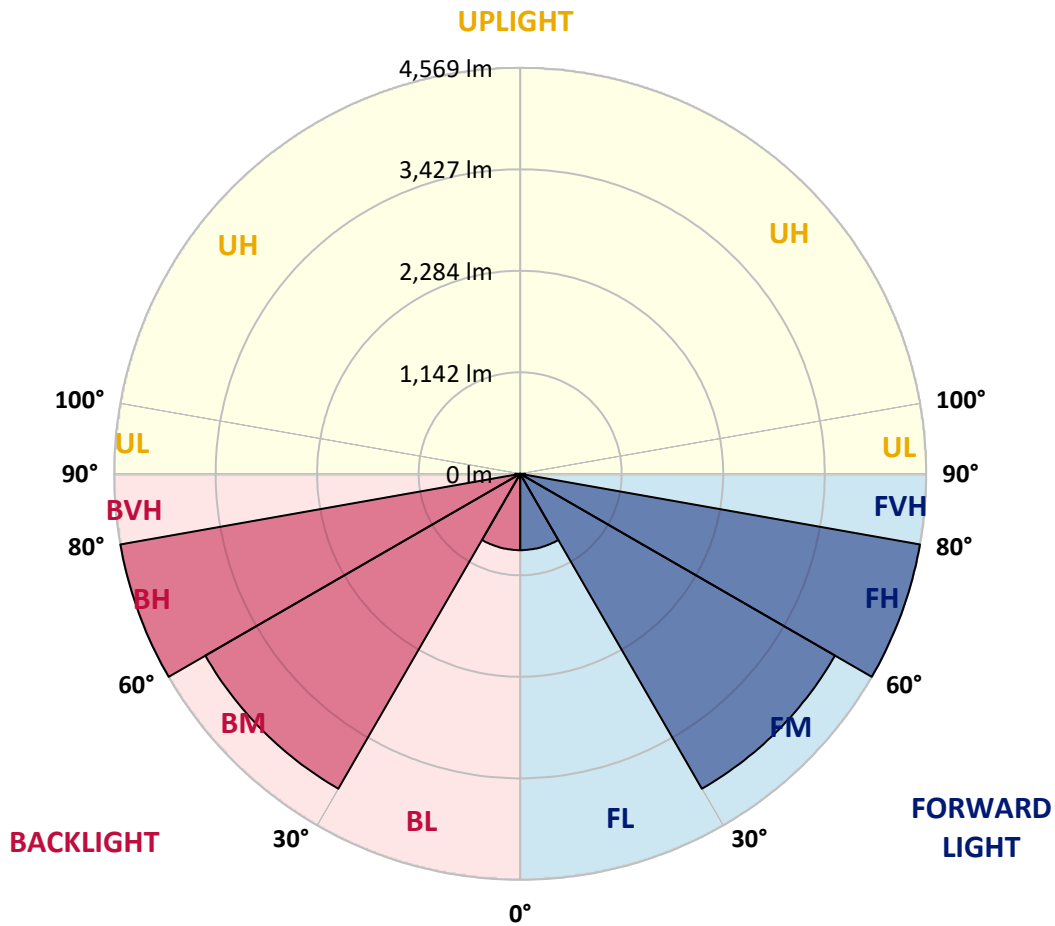
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.2	4.5			
FM (30°-60°)	4092.0	21.4			
FH (60°-80°)	4569.0	23.9			G2/5000
FVH (80°-90°)	54.9	0.3			G1/100
BL (0°-30°)	859.2	4.5	B2/1000		
BM (30°-60°)	4092.0	21.4	B3/5000		
BH (60°-80°)	4569.0	23.9	B4/5000		G2/5000
BVH (80°-90°)	54.9	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°	1834.4	1834.4	1834.4	1834.4	1834.4	1834.4	1834.4	1834.4	1834.4	1834.4
2.5°	1843.0	1844.9	1841.1	1839.2	1837.3	1834.4	1835.3	1840.1	1844.0	1843.0
5°	1858.4	1860.3	1857.4	1856.5	1852.6	1851.7	1851.7	1856.5	1859.4	1857.4
7.5°	1875.7	1878.6	1873.8	1872.8	1870.9	1869.0	1868.0	1872.8	1875.7	1875.7
10°	1892.1	1894.9	1891.1	1888.2	1886.3	1886.3	1884.4	1888.2	1893.0	1892.1
12.5°	1909.4	1911.3	1907.4	1905.5	1905.5	1908.4	1905.5	1907.4	1911.3	1909.4
15°	1930.5	1931.5	1930.5	1933.4	1938.2	1947.8	1939.2	1937.2	1939.2	1934.4
17.5°	1959.4	1961.3	1965.1	1971.9	1978.6	1995.9	1980.5	1975.7	1975.7	1966.1
20°	1994.9	1997.8	2003.6	2015.1	2023.8	2040.1	2024.7	2018.0	2015.1	2002.6
22.5°	2032.4	2037.2	2045.9	2061.3	2076.6	2092.0	2076.6	2065.1	2056.5	2040.1
25°	2075.7	2081.5	2094.9	2119.9	2141.1	2163.2	2144.9	2121.8	2104.5	2081.5
27.5°	2137.2	2143.9	2160.3	2191.1	2218.0	2237.2	2219.9	2190.1	2166.1	2138.2
30°	2223.7	2230.5	2249.7	2282.4	2300.7	2313.2	2301.6	2278.5	2249.7	2218.0
32.5°	2335.3	2343.9	2365.1	2395.8	2399.7	2401.6	2397.8	2386.2	2365.1	2326.6
35°	2476.6	2486.2	2510.2	2535.2	2531.4	2535.2	2529.5	2525.6	2510.2	2466.0
37.5°	2649.6	2661.2	2686.2	2705.4	2695.8	2691.0	2692.0	2692.9	2684.3	2635.2
40°	2850.6	2866.0	2884.2	2904.4	2888.1	2873.7	2883.3	2891.0	2883.3	2833.3
42.5°	3057.3	3079.4	3098.6	3127.5	3114.0	3095.7	3109.2	3117.9	3101.5	3047.7
45°	3287.1	3308.2	3333.2	3376.5	3366.9	3347.6	3366.9	3368.8	3340.9	3277.4
47.5°	3524.5	3546.6	3584.1	3641.8	3638.0	3616.8	3641.8	3628.4	3592.8	3516.8
50°	3749.5	3780.3	3838.0	3918.7	3926.4	3900.4	3934.1	3908.1	3848.5	3753.3
52.5°	3961.0	3993.7	4085.0	4194.6	4222.5	4188.9	4234.1	4188.9	4099.5	3977.4
55°	4183.1	4219.6	4328.3	4471.5	4527.3	4502.3	4544.6	4476.3	4349.4	4201.4
57.5°	4444.6	4466.7	4596.5	4766.7	4860.9	4866.7	4885.9	4770.5	4616.7	4448.4
60°	4728.2	4759.0	4900.3	5104.1	5253.1	5301.2	5281.0	5109.9	4931.1	4737.8
62.5°	5091.6	5125.3	5294.5	5538.7	5774.2	5893.4	5814.6	5566.6	5345.4	5113.7
65°	5392.6	5430.0	5735.8	6171.3	6600.1	6839.5	6641.4	6184.8	5786.7	5459.9
67.5°	5174.3	5220.5	5700.2	6500.1	7566.3	8280.6	7602.8	6598.2	5818.5	5375.2
70°	4522.5	4565.7	5125.3	6103.0	7838.4	9403.6	8001.8	6282.8	5143.5	4647.5
72.5°	3002.5	3141.9	3708.2	4881.1	6999.1	8701.7	7068.3	4782.1	3439.9	2995.8
75°	996.0	1107.5	1494.0	2530.4	4687.8	6507.8	4462.9	2239.1	1183.5	851.8
77.5°	250.9	289.4	399.0	723.9	1869.9	3705.3	1683.4	591.3	322.1	225.0
80°	122.1	134.6	192.3	241.3	468.2	1177.7	439.4	226.9	151.9	117.3
82.5°	67.3	68.3	108.6	136.5	174.0	304.8	180.7	132.7	87.5	71.1
85°	41.3	40.4	57.7	73.1	73.1	108.6	86.5	73.1	50.0	44.2
87.5°	16.3	16.3	21.2	23.1	20.2	27.9	22.1	24.0	19.2	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1834.4
1844.0
1858.4
1875.7
1892.1
1908.4
1934.4
1966.1
2002.6
2039.2
2080.5
2137.2
2218.0
2327.6
2466.0
2635.2
2833.3
3051.5
3284.2
3512.0
3751.4
3965.8
4181.2
4425.4
4707.1
5073.4
5406.0
5308.9
4581.1
2898.7
805.7
200.9
107.7
71.1
46.1
19.2
0.0

OF REPORT)