

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: P947476

Luminaire Tested: **GALN-SB2D-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947476
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-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18532 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

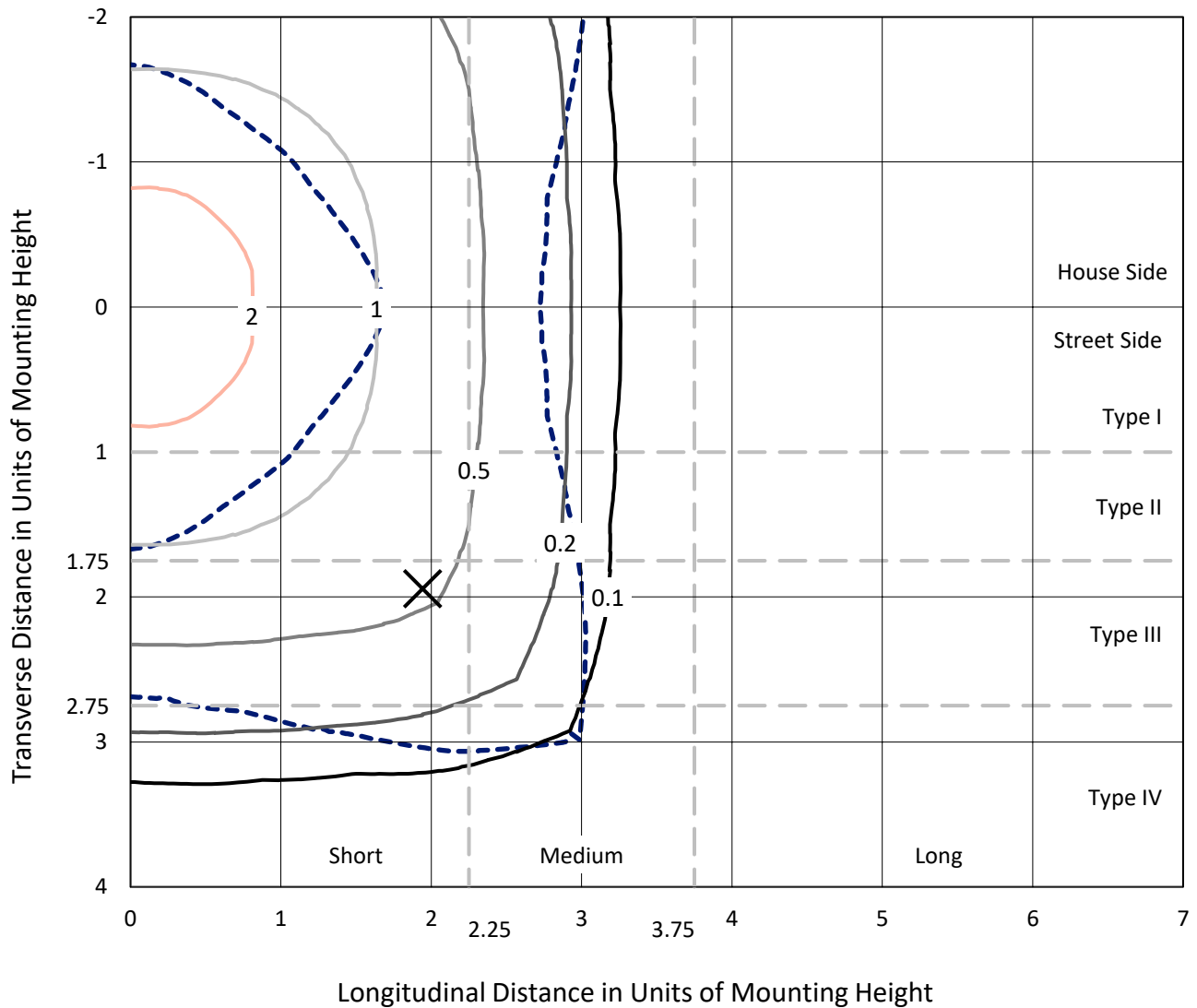
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

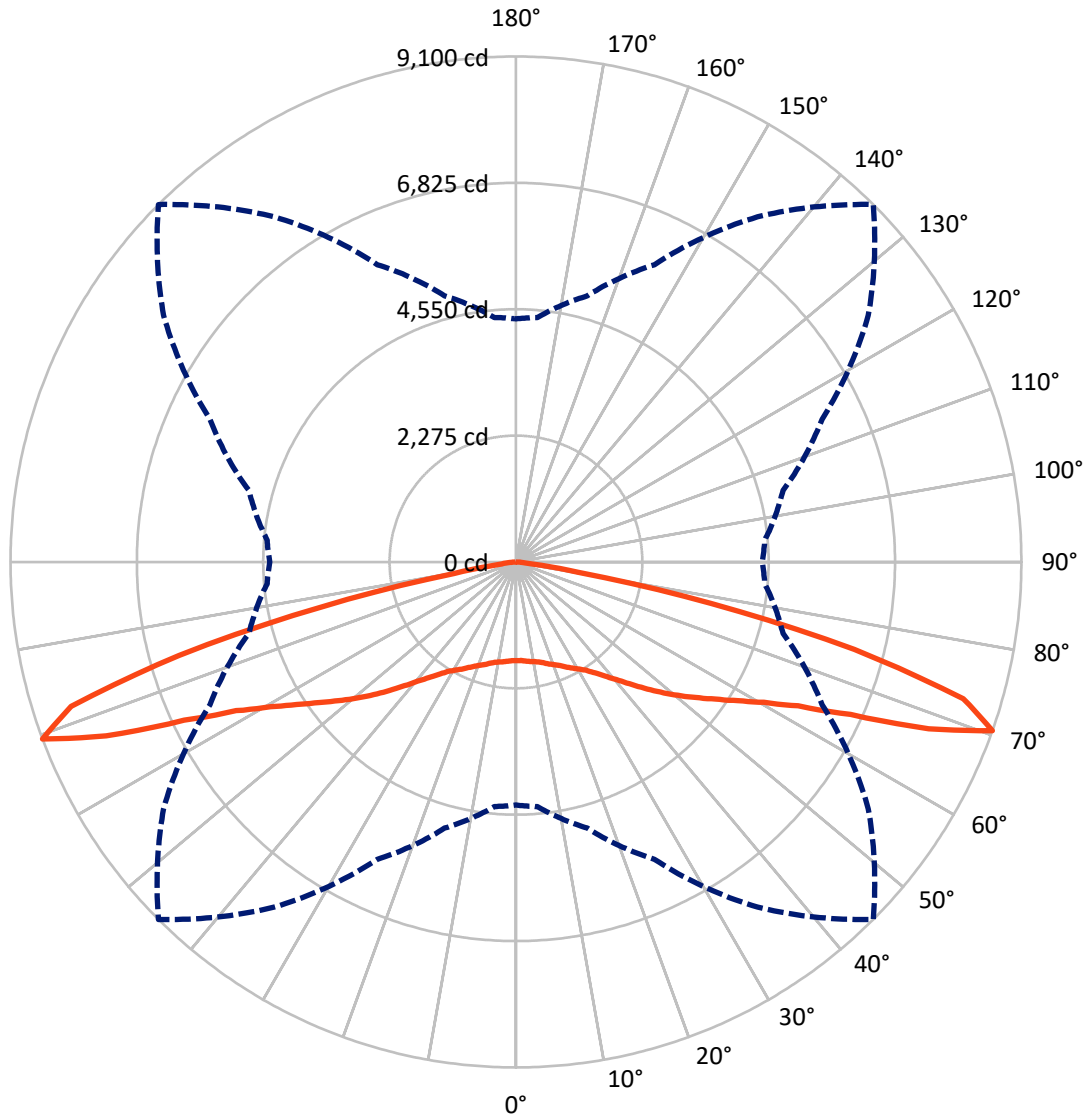
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	9266.0	0.0	9266.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9266.0	0.0	9266.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18532.0	0.0	18532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	0.9
10°-20°	534.8	2.9
20°-30°	955.7	5.2
30°-40°	1549.2	8.4
40°-50°	2523.4	13.6
50°-60°	3847.3	20.8
60°-70°	5723.5	30.9
70°-80°	3119.5	16.8
80°-90°	106.2	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°	18532.0	100.0
0°-180°	18532.0	100.0

Coefficient of Utilization



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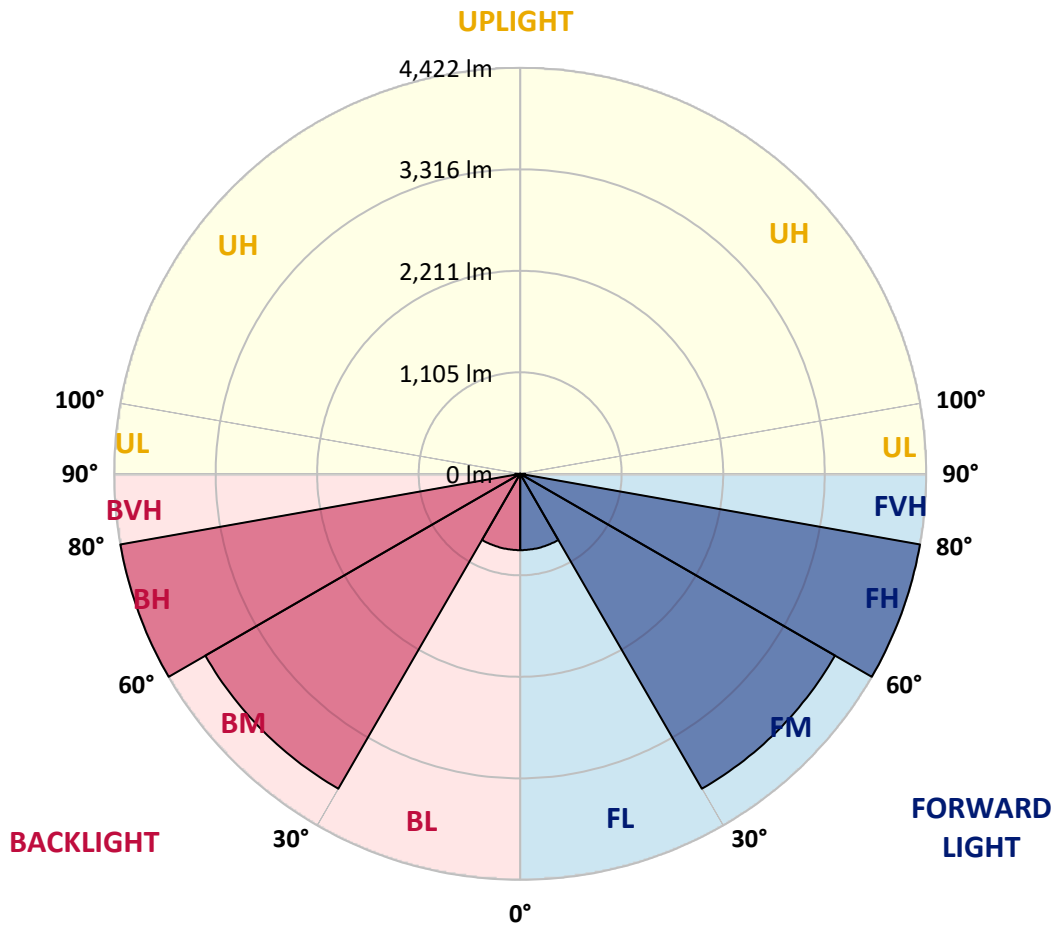
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	831.5	4.5			
FM (30°-60°)	3959.9	21.4			
FH (60°-80°)	4421.5	23.9			G2/5000
FVH (80°-90°)	53.1	0.3			G1/100
BL (0°-30°)	831.5	4.5	B2/1000		
BM (30°-60°)	3959.9	21.4	B3/5000		
BH (60°-80°)	4421.5	23.9	B4/5000		G2/5000
BVH (80°-90°)	53.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1775.2	1775.2	1775.2	1775.2	1775.2	1775.2	1775.2	1775.2	1775.2	1775.2
2.5°	1783.5	1785.4	1781.7	1779.8	1778.0	1775.2	1776.1	1780.8	1784.5	1783.5
5°	1798.4	1800.3	1797.5	1796.6	1792.9	1791.9	1791.9	1796.6	1799.4	1797.5
7.5°	1815.2	1818.0	1813.3	1812.4	1810.5	1808.7	1807.7	1812.4	1815.2	1815.2
10°	1831.0	1833.8	1830.1	1827.3	1825.4	1825.4	1823.6	1827.3	1831.9	1831.0
12.5°	1847.7	1849.6	1845.9	1844.0	1844.0	1846.8	1844.0	1845.9	1849.6	1847.7
15°	1868.2	1869.1	1868.2	1871.0	1875.7	1885.0	1876.6	1874.7	1876.6	1871.9
17.5°	1896.1	1898.0	1901.7	1908.2	1914.7	1931.5	1916.6	1911.9	1911.9	1902.6
20°	1930.5	1933.3	1938.9	1950.1	1958.5	1974.3	1959.4	1952.9	1950.1	1938.0
22.5°	1966.8	1971.5	1979.9	1994.7	2009.6	2024.5	2009.6	1998.5	1990.1	1974.3
25°	2008.7	2014.3	2027.3	2051.5	2072.0	2093.4	2075.7	2053.4	2036.6	2014.3
27.5°	2068.2	2074.8	2090.6	2120.3	2146.4	2165.0	2148.3	2119.4	2096.2	2069.2
30°	2152.0	2158.5	2177.1	2208.7	2226.4	2238.5	2227.3	2205.0	2177.1	2146.4
32.5°	2259.9	2268.3	2288.7	2318.5	2322.2	2324.1	2320.4	2309.2	2288.7	2251.5
35°	2396.7	2406.0	2429.2	2453.4	2449.7	2453.4	2447.8	2444.1	2429.2	2386.4
37.5°	2564.1	2575.3	2599.5	2618.1	2608.8	2604.1	2605.1	2606.0	2597.6	2550.2
40°	2758.6	2773.5	2791.2	2810.7	2794.9	2780.9	2790.2	2797.7	2790.2	2741.8
42.5°	2958.6	2980.0	2998.6	3026.5	3013.5	2995.8	3008.9	3017.2	3001.4	2949.3
45°	3181.0	3201.5	3225.6	3267.5	3258.2	3239.6	3258.2	3260.1	3233.1	3171.7
47.5°	3410.8	3432.2	3468.5	3524.3	3520.6	3500.1	3524.3	3511.3	3476.8	3403.3
50°	3628.5	3658.3	3714.1	3792.2	3799.7	3774.6	3807.1	3782.0	3724.3	3632.2
52.5°	3833.2	3864.8	3953.2	4059.3	4086.2	4053.7	4097.4	4053.7	3967.2	3849.0
55°	4048.1	4083.5	4188.6	4327.2	4381.2	4357.0	4397.9	4331.9	4209.1	4065.8
57.5°	4301.2	4322.6	4448.2	4612.8	4704.0	4709.6	4728.2	4616.6	4467.7	4304.9
60°	4575.6	4605.4	4742.2	4939.4	5083.6	5130.1	5110.6	4945.0	4771.9	4584.9
62.5°	4927.3	4959.9	5123.6	5359.9	5587.9	5703.3	5627.0	5386.9	5172.9	4948.7
65°	5218.5	5254.8	5550.7	5972.1	6387.1	6618.8	6427.1	5985.2	5600.0	5283.7
67.5°	5007.3	5052.0	5516.3	6290.3	7322.1	8013.4	7357.5	6385.2	5630.7	5201.8
70°	4376.5	4418.4	4959.9	5906.1	7585.4	9100.1	7743.6	6080.1	4977.6	4497.5
72.5°	2905.6	3040.5	3588.5	4723.6	6773.2	8420.9	6840.2	4627.7	3328.9	2899.1
75°	963.9	1071.8	1445.8	2448.8	4536.6	6297.8	4318.8	2166.9	1145.3	824.3
77.5°	242.8	280.0	386.1	700.6	1809.6	3585.7	1629.1	572.2	311.7	217.7
80°	118.2	130.3	186.1	233.5	453.1	1139.7	425.2	219.6	147.0	113.5
82.5°	65.1	66.1	105.1	132.1	168.4	294.9	174.9	128.4	84.7	68.8
85°	40.0	39.1	55.8	70.7	70.7	105.1	83.7	70.7	48.4	42.8
87.5°	15.8	15.8	20.5	22.3	19.5	27.0	21.4	23.3	18.6	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1775.2
1784.5
1798.4
1815.2
1831.0
1846.8
1871.9
1902.6
1938.0
1973.3
2013.4
2068.2
2146.4
2252.5
2386.4
2550.2
2741.8
2953.0
3178.2
3398.7
3630.4
3837.8
4046.2
4282.6
4555.2
4909.6
5231.6
5137.6
4433.3
2805.1
779.7
194.5
104.2
68.8
44.7
18.6
0.0

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