

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: P947480

Luminaire Tested: **GALN-SB2D-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
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-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18222 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

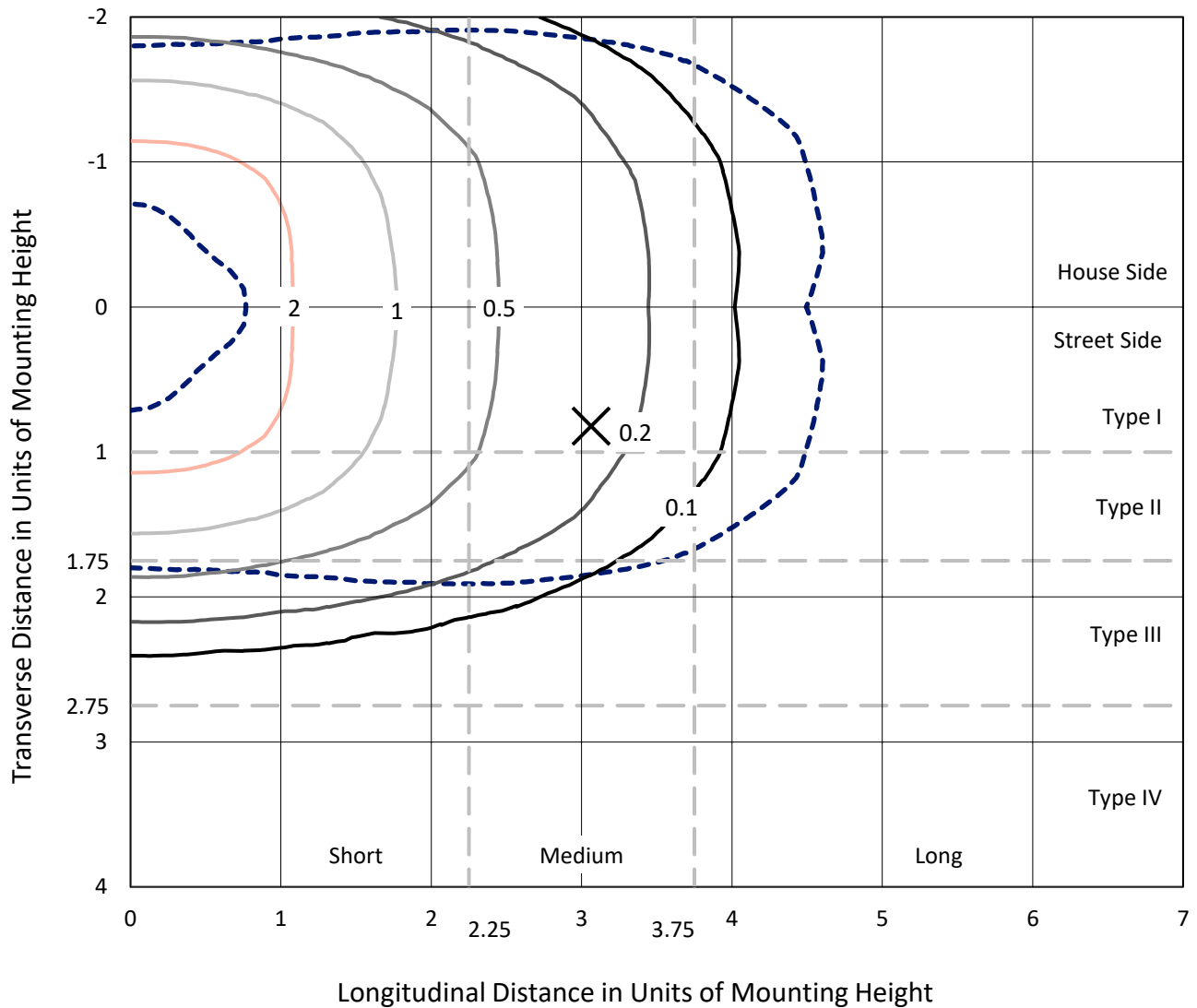
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

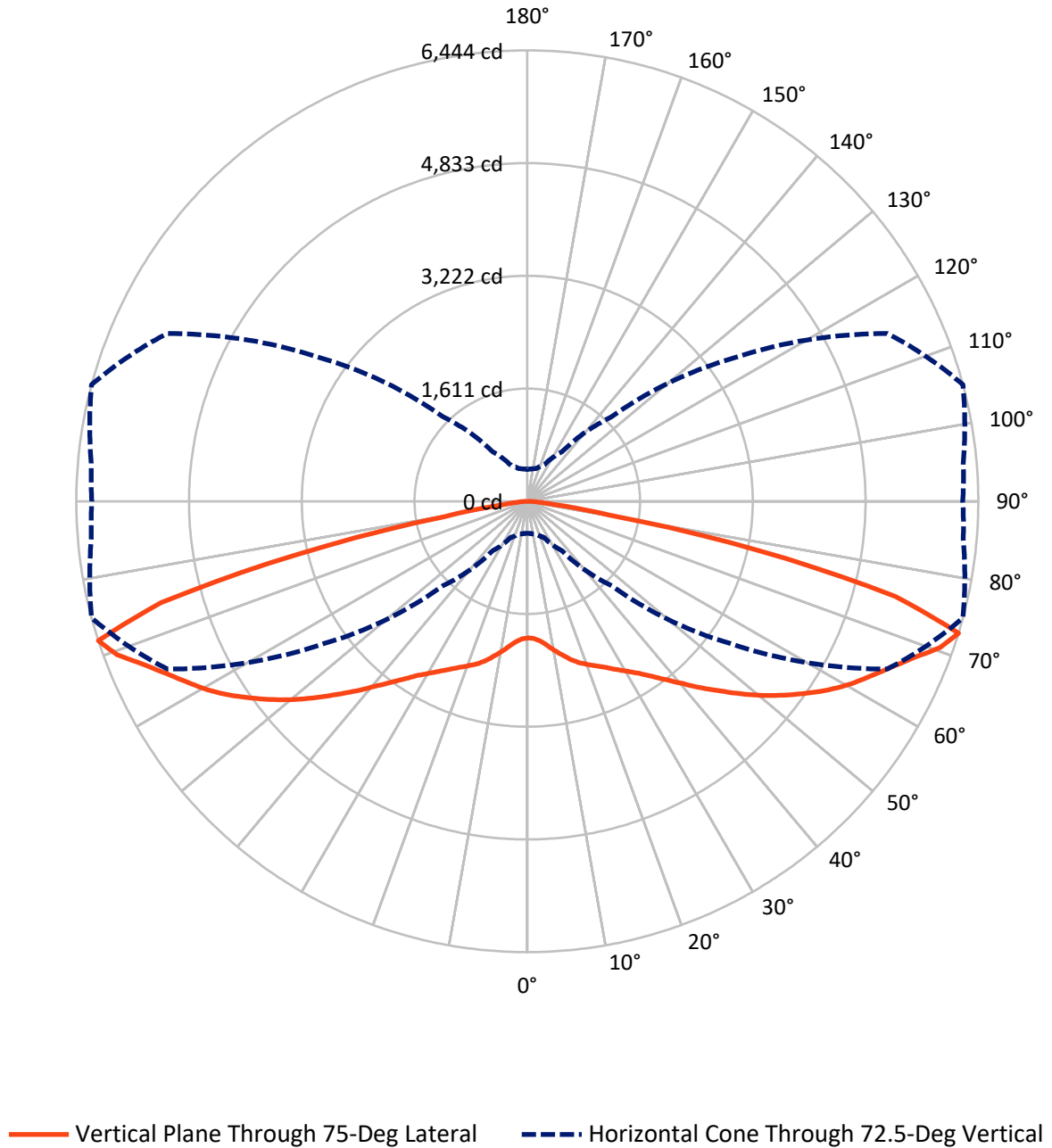
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9111.0	0.0	9111.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9111.0	0.0	9111.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18222.0	0.0	18222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	1.0
10°-20°	630.6	3.5
20°-30°	1218.6	6.7
30°-40°	2057.6	11.3
40°-50°	3263.2	17.9
50°-60°	4369.0	24.0
60°-70°	4157.9	22.8
70°-80°	2169.7	11.9
80°-90°	164.2	0.9
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°	18222.0	100.0
0°-180°	18222.0	100.0

Coefficient of Utilization



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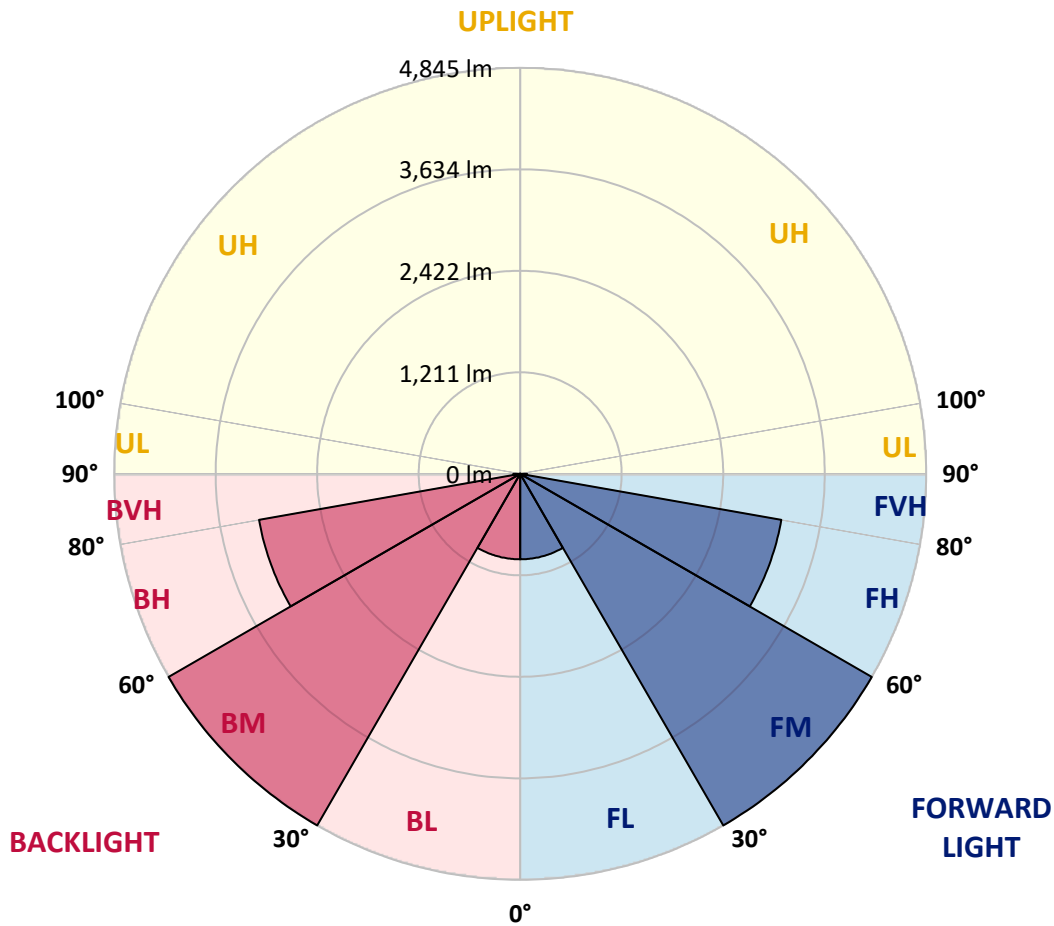
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.2	5.6			
FM (30°-60°)	4844.9	26.6			
FH (60°-80°)	3163.8	17.4			G2/5000
FVH (80°-90°)	82.1	0.5			G1/100
BL (0°-30°)	1020.2	5.6	B3/2500		
BM (30°-60°)	4844.9	26.6	B3/5000		
BH (60°-80°)	3163.8	17.4	B4/5000		G4/5000
BVH (80°-90°)	82.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1951.9	1951.9	1951.9	1951.9	1951.9	1951.9	1951.9	1951.9	1951.9	1951.9
2.5°	1951.9	1950.0	1951.9	1953.8	1952.8	1952.8	1957.5	1960.3	1965.9	1964.9
5°	1938.9	1937.9	1945.4	1953.8	1960.3	1971.4	1985.4	1995.6	2008.7	2011.4
7.5°	1932.4	1929.6	1942.6	1957.5	1978.0	2005.9	2032.8	2060.8	2083.1	2090.5
10°	1937.0	1937.9	1955.6	1983.5	2016.1	2055.2	2093.3	2140.8	2172.4	2179.8
12.5°	1958.4	1956.6	1986.3	2031.0	2075.6	2124.9	2169.6	2221.7	2256.1	2273.8
15°	1997.5	1993.8	2035.6	2101.7	2166.8	2224.5	2260.8	2310.1	2350.1	2372.4
17.5°	2044.0	2045.9	2100.8	2186.4	2271.9	2337.1	2371.5	2396.6	2427.3	2446.9
20°	2125.9	2129.6	2191.0	2292.4	2390.1	2464.5	2492.4	2483.1	2491.5	2506.4
22.5°	2235.7	2237.5	2306.4	2416.2	2518.5	2600.4	2619.0	2580.8	2557.6	2567.8
25°	2363.1	2375.2	2444.1	2556.6	2661.8	2739.9	2748.3	2690.6	2632.9	2635.7
27.5°	2518.5	2529.7	2599.4	2711.1	2818.1	2886.0	2885.1	2807.8	2723.2	2701.8
30°	2686.9	2699.0	2770.6	2886.0	2985.5	3045.1	3032.1	2939.9	2819.0	2779.0
32.5°	2886.9	2894.4	2966.9	3082.3	3174.4	3221.8	3194.9	3081.4	2930.6	2885.1
35°	3128.8	3140.0	3193.9	3302.8	3383.7	3422.8	3377.2	3243.2	3073.9	3022.8
37.5°	3405.1	3397.7	3459.1	3555.8	3622.8	3647.0	3584.7	3425.6	3237.7	3177.2
40°	3693.5	3689.8	3756.8	3849.8	3886.1	3901.0	3808.9	3634.9	3426.5	3361.4
42.5°	3955.0	3952.2	4042.4	4145.7	4189.4	4172.7	4056.4	3857.3	3645.2	3570.7
45°	4164.3	4160.6	4271.3	4416.4	4502.0	4474.1	4317.8	4102.9	3866.6	3789.4
47.5°	4325.3	4327.1	4446.2	4625.8	4775.6	4785.8	4584.8	4353.2	4110.3	4022.9
50°	4441.6	4447.1	4574.6	4773.7	4978.4	5068.6	4857.4	4610.0	4362.5	4263.9
52.5°	4470.4	4480.6	4634.1	4867.7	5108.6	5280.7	5134.7	4856.5	4601.6	4507.6
55°	4316.9	4337.4	4531.8	4860.2	5188.6	5420.3	5378.4	5106.8	4842.5	4745.8
57.5°	3964.3	3993.1	4220.1	4649.0	5171.0	5516.1	5567.3	5346.8	5083.5	4990.5
60°	3470.3	3504.7	3722.4	4190.4	4921.6	5551.5	5700.3	5580.3	5304.9	5214.7
62.5°	2725.0	2769.7	3030.2	3579.1	4395.0	5386.8	5813.8	5791.5	5504.0	5391.5
65°	1748.2	1795.6	2070.1	2718.5	3692.6	4882.5	5849.2	5997.1	5714.3	5557.1
67.5°	1054.1	1075.5	1211.3	1647.7	2699.0	4122.4	5549.6	6225.1	5959.9	5764.5
70°	674.5	686.6	767.5	967.6	1525.8	3007.9	4807.2	6267.9	6257.6	5977.6
72.5°	457.7	461.5	482.9	573.1	863.4	1709.1	3545.6	5674.3	6443.7	6252.0
75°	334.9	355.4	389.8	405.6	490.3	854.1	2031.9	3986.6	5430.5	5514.3
77.5°	249.3	250.3	297.7	316.3	349.8	454.9	859.7	2225.4	3371.6	3540.0
80°	211.2	200.0	199.1	254.9	263.3	283.8	384.2	768.5	1207.6	732.2
82.5°	175.8	163.7	147.9	199.1	179.6	174.0	166.5	312.6	384.2	188.9
85°	122.8	117.2	111.6	130.3	102.3	87.5	80.0	146.1	161.9	80.0
87.5°	53.0	54.9	55.8	57.7	42.8	30.7	30.7	40.9	40.9	31.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1951.9
1964.0
2011.4
2092.4
2187.3
2281.3
2380.8
2456.2
2517.6
2575.2
2640.4
2708.3
2783.6
2896.2
3030.2
3188.4
3382.8
3589.3
3807.0
4048.9
4293.6
4531.8
4772.8
5011.9
5234.2
5404.5
5576.6
5779.4
5975.7
6222.3
5311.4
3157.7
553.6
161.0
70.7
23.3
0.0

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