

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: P949622

Luminaire Tested: **GALN-SB4B-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949622
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-SB4B-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20208 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

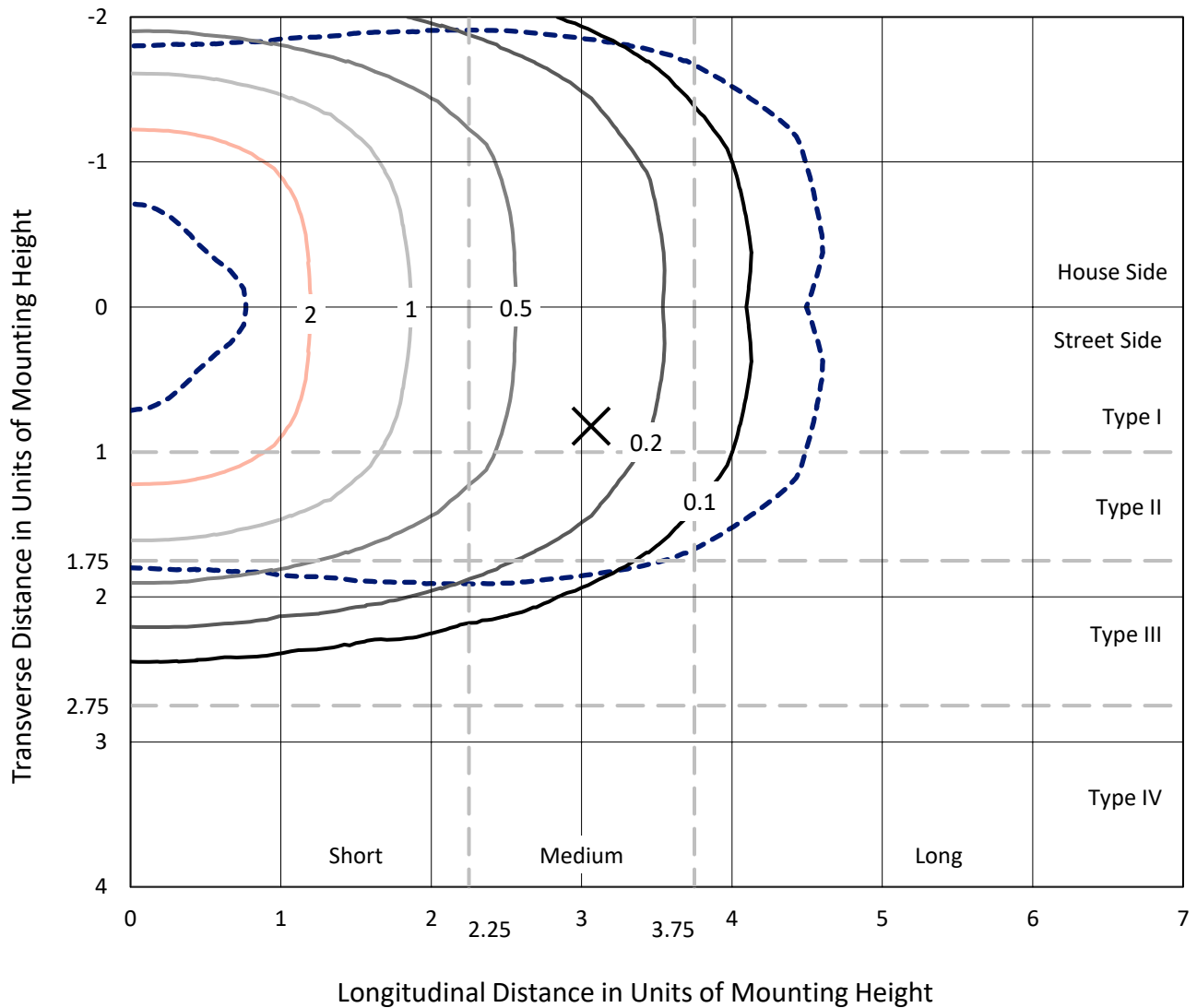
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

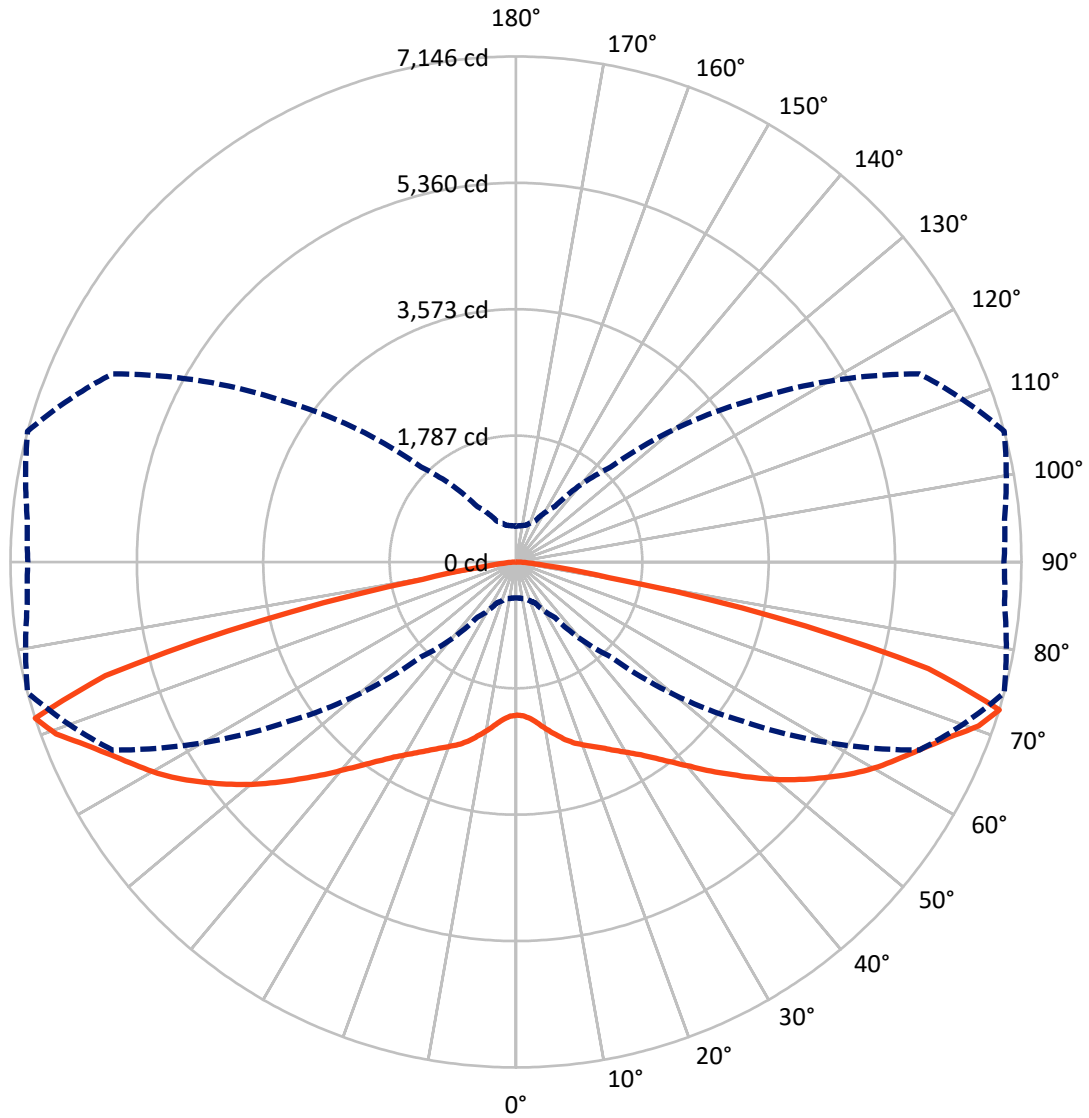
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10104.0	0.0	10104.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10104.0	0.0	10104.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20208.0	0.0	20208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	1.0
10°-20°	699.4	3.5
20°-30°	1351.4	6.7
30°-40°	2281.9	11.3
40°-50°	3618.8	17.9
50°-60°	4845.2	24.0
60°-70°	4611.1	22.8
70°-80°	2406.1	11.9
80°-90°	182.1	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°	20208.0	100.0
0°-180°	20208.0	100.0

Coefficient of Utilization



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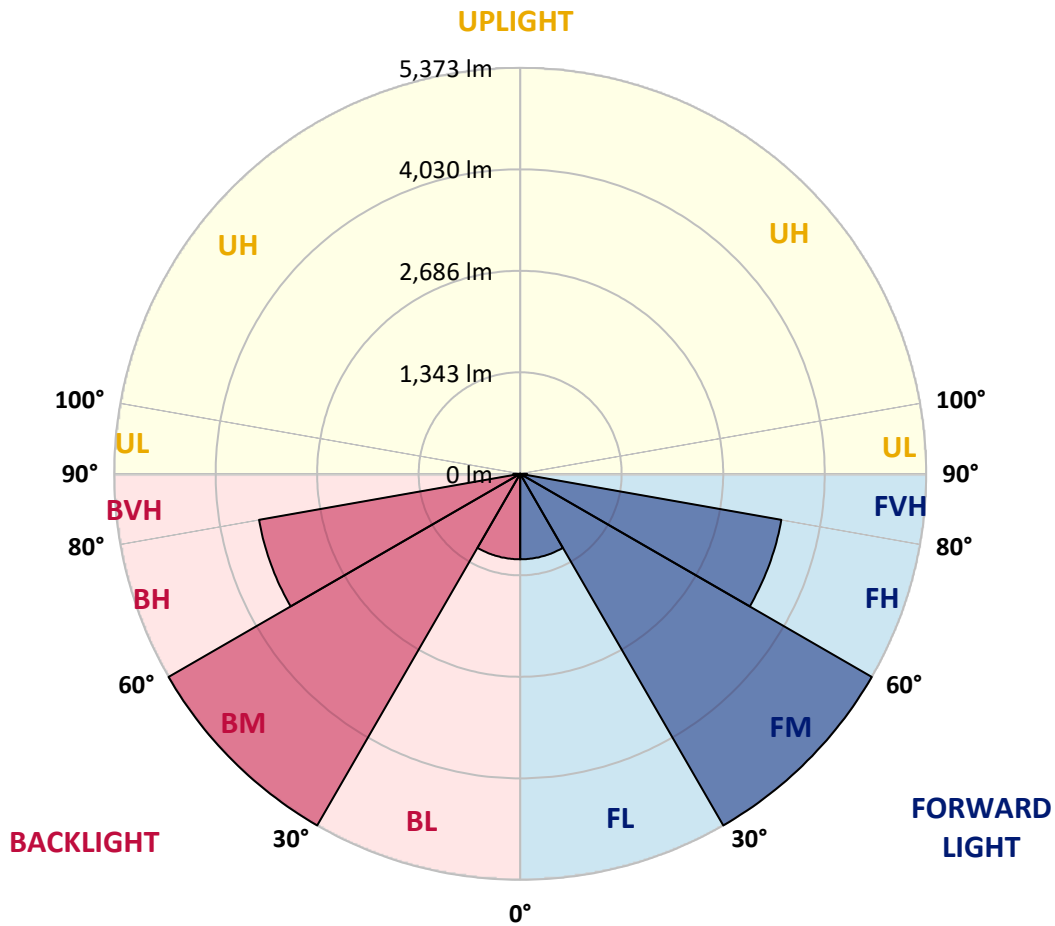
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.4	5.6			
FM (30°-60°)	5372.9	26.6			
FH (60°-80°)	3508.6	17.4			G2/5000
FVH (80°-90°)	91.1	0.5			G1/100
BL (0°-30°)	1131.4	5.6	B3/2500		
BM (30°-60°)	5372.9	26.6	B4/8500		
BH (60°-80°)	3508.6	17.4	B4/5000		G4/5000
BVH (80°-90°)	91.1	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°	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6	2164.6
2.5°	2164.6	2162.6	2164.6	2166.7	2165.7	2165.7	2170.8	2173.9	2180.1	2179.1
5°	2150.2	2149.2	2157.4	2166.7	2173.9	2186.3	2201.8	2213.1	2227.6	2230.7
7.5°	2143.0	2139.9	2154.3	2170.8	2193.5	2224.5	2254.4	2285.4	2310.1	2318.4
10°	2148.1	2149.2	2168.8	2199.7	2235.8	2279.2	2321.5	2374.1	2409.2	2417.4
12.5°	2171.9	2169.8	2202.8	2252.3	2301.9	2356.5	2406.1	2463.8	2502.0	2521.6
15°	2215.2	2211.1	2257.5	2330.8	2403.0	2466.9	2507.2	2561.9	2606.2	2631.0
17.5°	2266.8	2268.8	2329.7	2424.6	2519.6	2591.8	2630.0	2657.8	2691.9	2713.5
20°	2357.6	2361.7	2429.8	2542.3	2650.6	2733.1	2764.1	2753.8	2763.1	2779.6
22.5°	2479.3	2481.4	2557.7	2679.5	2793.0	2883.8	2904.4	2862.1	2836.3	2847.7
25°	2620.7	2634.1	2710.4	2835.3	2951.9	3038.5	3047.8	2983.9	2919.9	2923.0
27.5°	2793.0	2805.4	2882.7	3006.6	3125.2	3200.5	3199.5	3113.9	3020.0	2996.2
30°	2979.7	2993.1	3072.6	3200.5	3310.9	3377.0	3362.5	3260.4	3126.2	3081.9
32.5°	3201.6	3209.8	3290.3	3418.2	3520.4	3573.0	3543.1	3417.2	3250.1	3199.5
35°	3469.8	3482.2	3542.0	3662.8	3752.5	3795.9	3745.3	3596.7	3408.9	3352.2
37.5°	3776.3	3768.0	3836.1	3943.4	4017.7	4044.5	3975.4	3799.0	3590.5	3523.5
40°	4096.1	4092.0	4166.3	4269.4	4309.7	4326.2	4224.0	4031.1	3800.0	3727.8
42.5°	4386.0	4382.9	4483.0	4597.5	4646.0	4627.5	4498.5	4277.7	4042.4	3959.9
45°	4618.2	4614.0	4736.8	4897.8	4992.7	4961.7	4788.4	4550.1	4288.0	4202.4
47.5°	4796.7	4798.7	4930.8	5129.9	5296.0	5307.4	5084.5	4827.6	4558.3	4461.3
50°	4925.6	4931.8	5073.2	5294.0	5521.0	5621.0	5386.8	5112.4	4837.9	4728.6
52.5°	4957.6	4969.0	5139.2	5398.2	5665.4	5856.3	5694.3	5385.8	5103.1	4998.9
55°	4787.4	4810.1	5025.7	5389.9	5754.1	6011.1	5964.6	5663.3	5370.3	5263.0
57.5°	4396.3	4428.3	4680.1	5155.7	5734.5	6117.3	6174.1	5929.5	5637.6	5534.4
60°	3848.5	3886.7	4128.1	4647.1	5458.0	6156.5	6321.6	6188.5	5883.1	5783.0
62.5°	3022.0	3071.6	3360.5	3969.2	4874.0	5973.9	6447.5	6422.7	6103.9	5979.1
65°	1938.7	1991.3	2295.7	3014.8	4095.1	5414.7	6486.7	6650.7	6337.1	6162.7
67.5°	1169.0	1192.7	1343.4	1827.3	2993.1	4571.7	6154.5	6903.5	6609.5	6392.8
70°	748.0	761.4	851.2	1073.0	1692.1	3335.7	5331.1	6951.0	6939.6	6629.1
72.5°	507.6	511.8	535.5	635.6	957.5	1895.3	3932.0	6292.7	7146.0	6933.4
75°	371.4	394.1	432.3	449.8	543.7	947.2	2253.4	4421.1	6022.4	6115.3
77.5°	276.5	277.5	330.2	350.8	387.9	504.5	953.3	2468.0	3739.1	3925.9
80°	234.2	221.8	220.8	282.7	292.0	314.7	426.1	852.2	1339.2	812.0
82.5°	195.0	181.6	164.1	220.8	199.1	192.9	184.7	346.7	426.1	209.4
85°	136.2	130.0	123.8	144.4	113.5	97.0	88.7	162.0	179.5	88.7
87.5°	58.8	60.9	61.9	64.0	47.5	34.0	34.0	45.4	45.4	35.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2164.6
2178.1
2230.7
2320.4
2425.7
2529.9
2640.3
2723.9
2792.0
2855.9
2928.1
3003.5
3087.0
3211.9
3360.5
3535.9
3751.5
3980.5
4222.0
4490.2
4761.6
5025.7
5292.9
5558.1
5804.7
5993.5
6184.4
6409.3
6627.0
6900.4
5890.3
3501.8
613.9
178.5
78.4
25.8
0.0

OF REPORT)