

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: P951050

Luminaire Tested: **GALN-SB5B-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951050
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-SB5B-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 25471 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

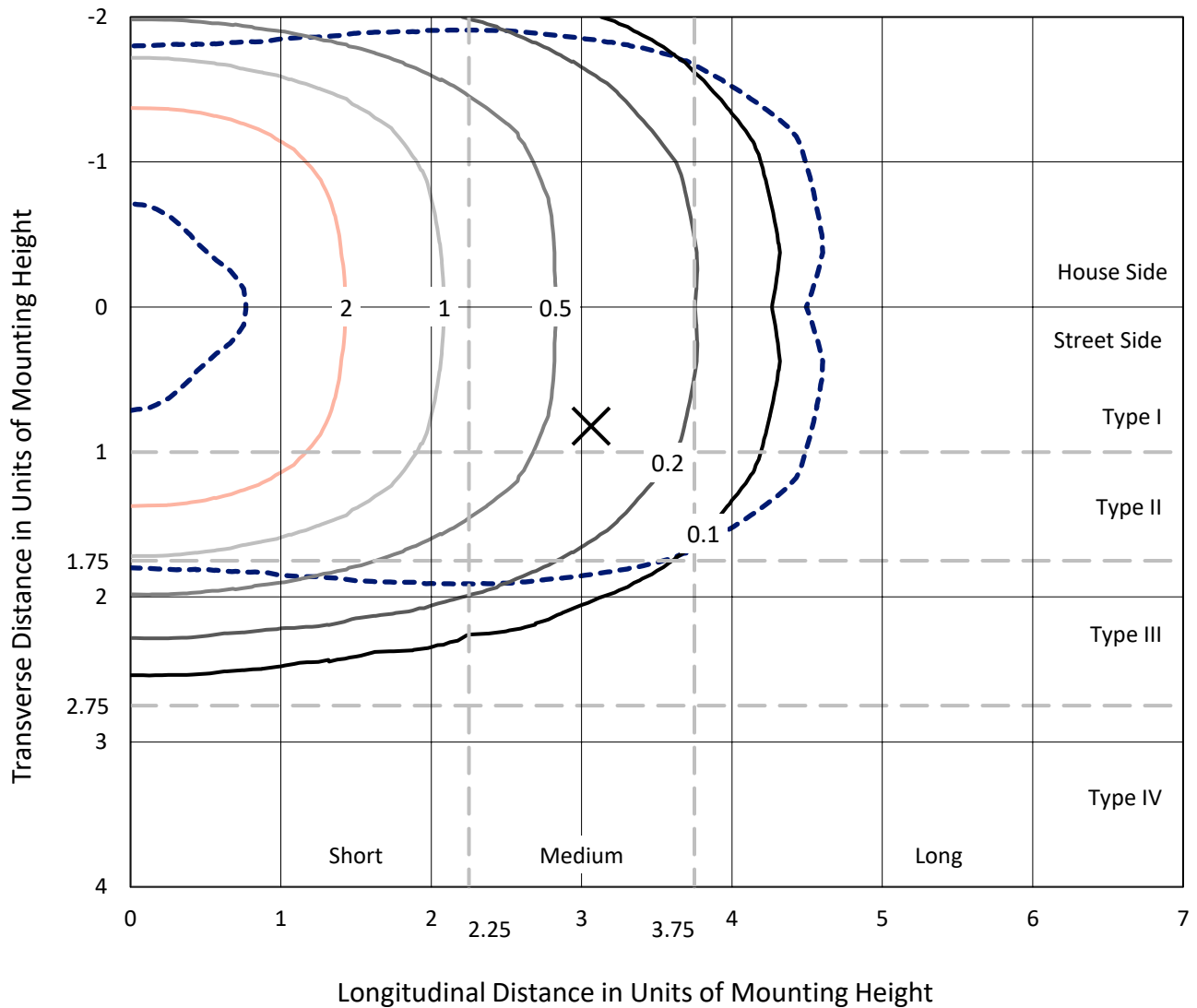
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

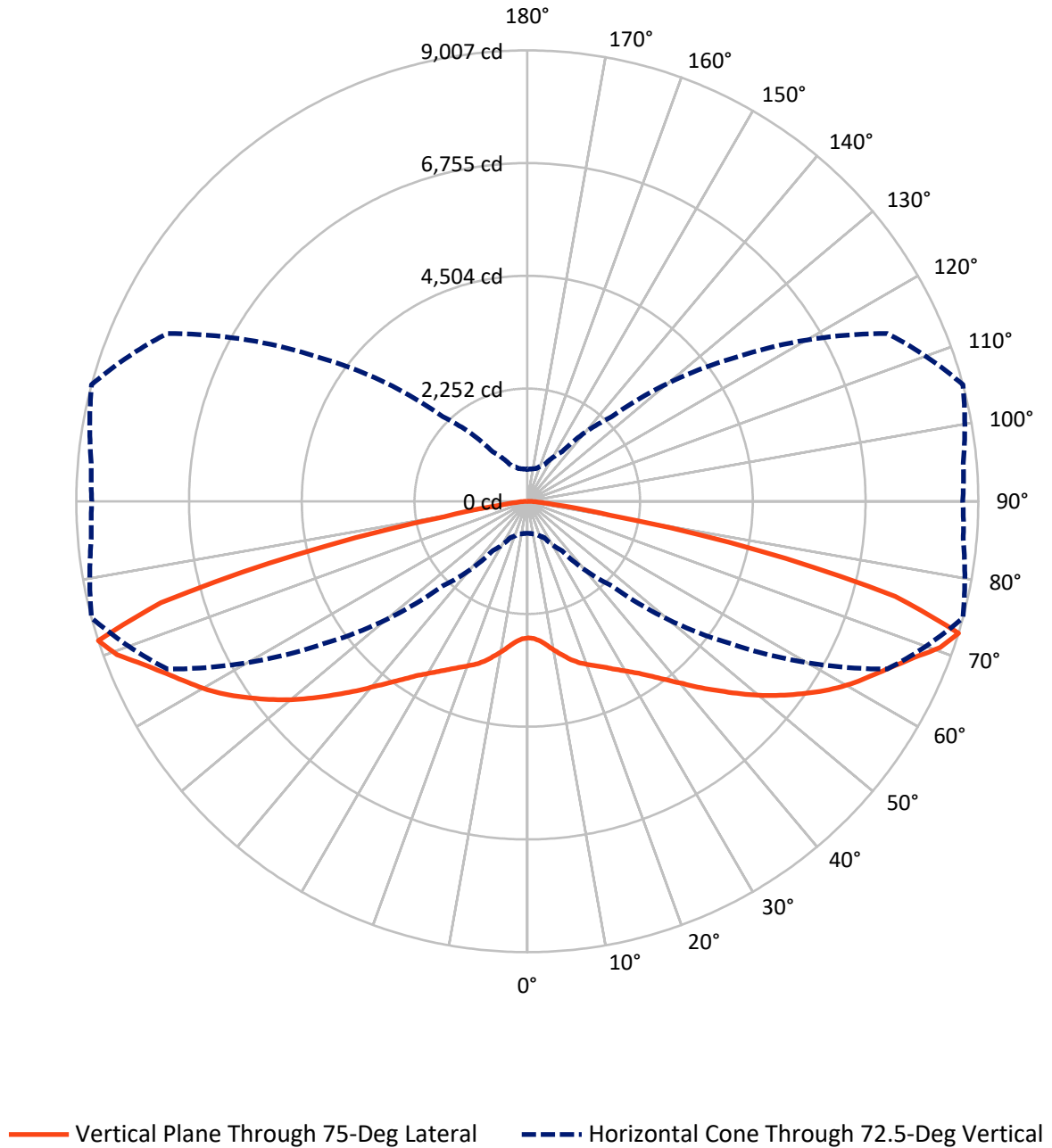
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	12735.5	0.0	12735.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12735.5	0.0	12735.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25471.0	0.0	25471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.3	1.0
10°-20°	881.5	3.5
20°-30°	1703.3	6.7
30°-40°	2876.2	11.3
40°-50°	4561.3	17.9
50°-60°	6107.1	24.0
60°-70°	5812.0	22.8
70°-80°	3032.8	11.9
80°-90°	229.6	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°	25471.0	100.0
0°-180°	25471.0	100.0

Coefficient of Utilization



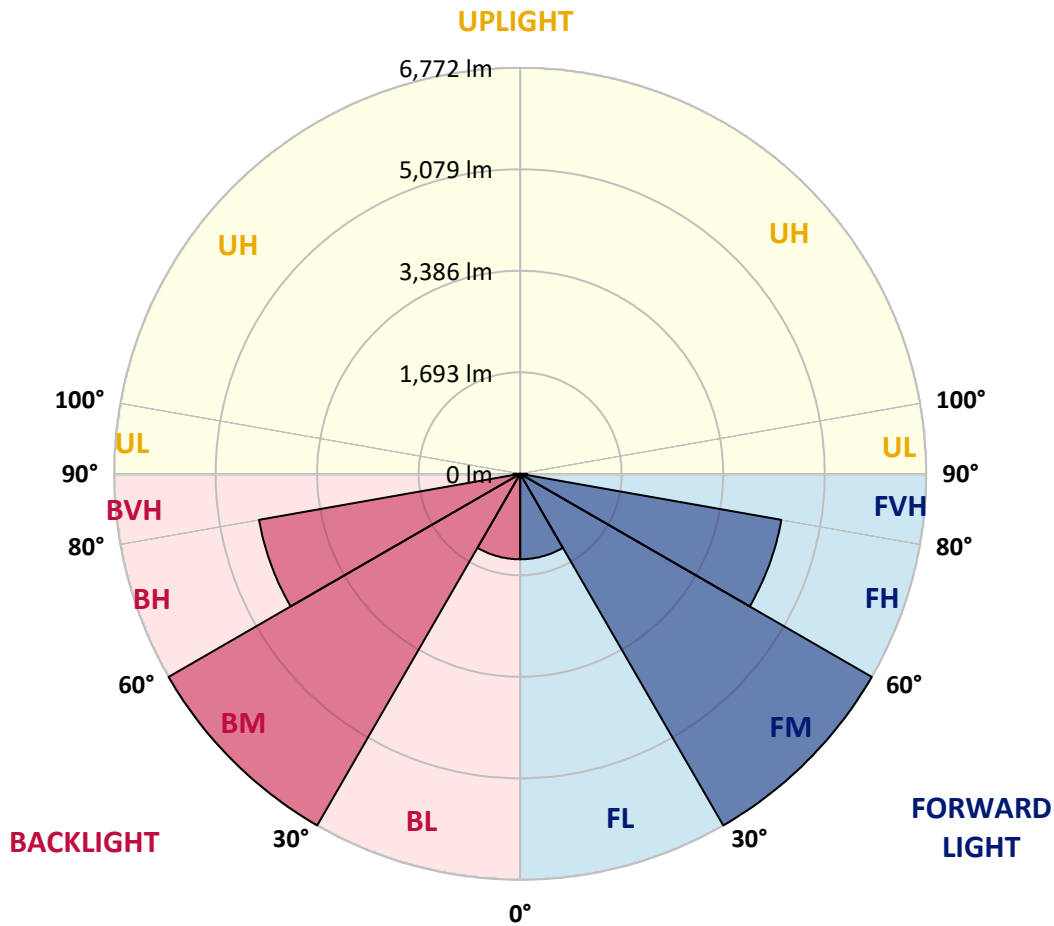
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.1	5.6			
FM (30°-60°)	6772.3	26.6			
FH (60°-80°)	4422.4	17.4			G2/5000
FVH (80°-90°)	114.8	0.5			G2/225
BL (0°-30°)	1426.1	5.6	B3/2500		
BM (30°-60°)	6772.3	26.6	B4/8500		
BH (60°-80°)	4422.4	17.4	B4/5000		G4/5000
BVH (80°-90°)	114.8	0.5			G2/225
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°	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4
2.5°	2728.4	2725.8	2728.4	2731.0	2729.7	2729.7	2736.2	2740.1	2747.9	2746.6
5°	2710.2	2708.9	2719.3	2731.0	2740.1	2755.7	2775.2	2789.5	2807.7	2811.6
7.5°	2701.1	2697.2	2715.4	2736.2	2764.8	2803.8	2841.5	2880.6	2911.8	2922.2
10°	2707.6	2708.9	2733.6	2772.6	2818.1	2872.8	2926.1	2992.4	3036.6	3047.0
12.5°	2737.5	2734.9	2776.5	2838.9	2901.4	2970.3	3032.7	3105.5	3153.7	3178.4
15°	2792.1	2786.9	2845.4	2937.8	3028.8	3109.4	3160.2	3229.1	3285.0	3316.2
17.5°	2857.1	2859.7	2936.5	3056.1	3175.8	3266.8	3314.9	3350.0	3392.9	3420.3
20°	2971.6	2976.8	3062.6	3204.4	3340.9	3445.0	3484.0	3471.0	3482.7	3503.5
22.5°	3125.0	3127.6	3223.9	3377.3	3520.4	3634.8	3660.8	3607.5	3575.0	3589.3
25°	3303.2	3320.1	3416.4	3573.7	3720.7	3829.9	3841.6	3761.0	3680.3	3684.3
27.5°	3520.4	3536.0	3633.5	3789.6	3939.1	4034.1	4032.8	3924.8	3806.5	3776.6
30°	3755.8	3772.7	3872.8	4034.1	4173.2	4256.5	4238.3	4109.5	3940.4	3884.5
32.5°	4035.4	4045.8	4147.2	4308.5	4437.2	4503.6	4465.8	4307.2	4096.5	4032.8
35°	4373.5	4389.1	4464.5	4616.7	4729.8	4784.5	4720.7	4533.5	4296.8	4225.2
37.5°	4759.7	4749.3	4835.2	4970.4	5064.1	5097.9	5010.7	4788.4	4525.7	4441.1
40°	5162.9	5157.7	5251.3	5381.4	5432.1	5452.9	5324.2	5081.0	4789.7	4698.6
42.5°	5528.3	5524.4	5650.6	5794.9	5856.0	5832.6	5670.1	5391.8	5095.3	4991.2
45°	5820.9	5815.7	5970.5	6173.4	6293.0	6254.0	6035.5	5735.1	5404.8	5296.8
47.5°	6045.9	6048.5	6215.0	6466.0	6675.3	6689.7	6408.7	6084.9	5745.5	5623.3
50°	6208.5	6216.3	6394.4	6672.7	6958.9	7085.0	6789.8	6443.9	6097.9	5960.1
52.5°	6248.8	6263.1	6477.7	6804.1	7140.9	7381.5	7177.3	6788.5	6432.2	6300.8
55°	6034.2	6062.8	6334.6	6793.7	7252.8	7576.6	7518.1	7138.3	6769.0	6633.7
57.5°	5541.3	5581.6	5899.0	6498.5	7228.0	7710.5	7782.1	7473.8	7105.8	6975.8
60°	4850.8	4898.9	5203.2	5857.3	6879.5	7759.9	7968.0	7800.3	7415.3	7289.2
62.5°	3809.1	3871.5	4235.7	5002.9	6143.5	7529.8	8126.7	8095.5	7693.6	7536.3
65°	2443.6	2509.9	2893.6	3800.0	5161.6	6824.9	8176.1	8382.9	7987.5	7767.7
67.5°	1473.4	1503.4	1693.2	2303.1	3772.7	5762.4	7757.3	8701.5	8330.9	8057.8
70°	942.8	959.8	1072.9	1352.5	2132.8	4204.4	6719.6	8761.3	8747.0	8355.6
72.5°	639.8	645.0	674.9	801.1	1206.8	2389.0	4956.1	7931.6	9007.1	8739.2
75°	468.2	496.8	544.9	567.0	685.4	1193.8	2840.2	5572.5	7590.9	7707.9
77.5°	348.5	349.8	416.2	442.2	489.0	635.9	1201.6	3110.7	4712.9	4948.3
80°	295.2	279.6	278.3	356.3	368.0	396.6	537.1	1074.2	1688.0	1023.5
82.5°	245.8	228.9	206.8	278.3	251.0	243.2	232.8	437.0	537.1	264.0
85°	171.7	163.9	156.1	182.1	143.1	122.2	111.8	204.2	226.3	111.8
87.5°	74.1	76.7	78.0	80.6	59.8	42.9	42.9	57.2	57.2	44.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2728.4
2745.3
2811.6
2924.8
3057.4
3188.8
3327.9
3433.3
3519.1
3599.7
3690.8
3785.7
3891.0
4048.4
4235.7
4456.7
4728.5
5017.2
5321.6
5659.7
6001.7
6334.6
6671.4
7005.7
7316.5
7554.5
7795.1
8078.6
8353.0
8697.6
7424.4
4413.8
773.8
225.0
98.8
32.5
0.0

OF REPORT)