

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: P942290

Luminaire Tested: **GALN-SB6B-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32037 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 220.4
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

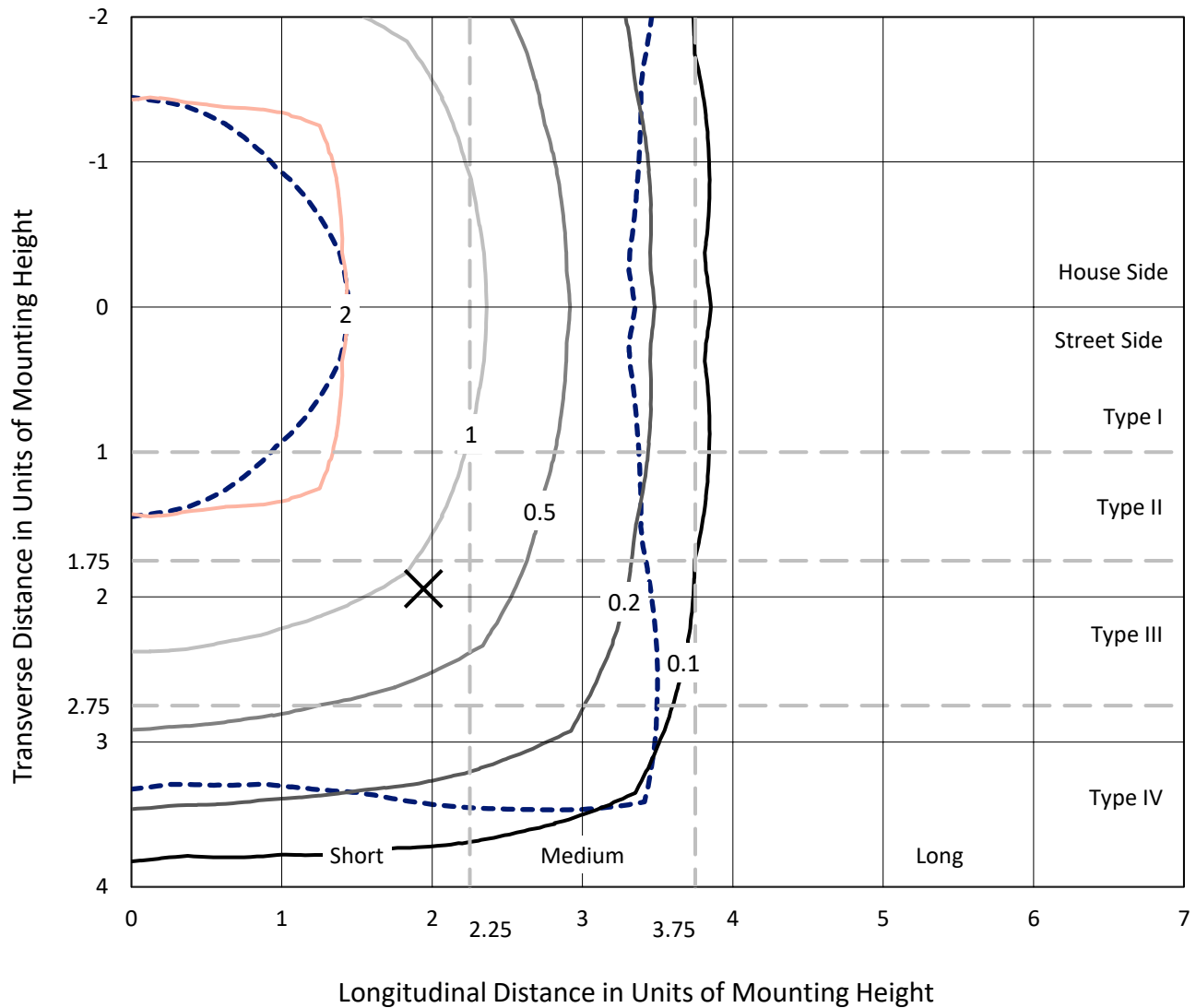


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Iso-Footcandle Lines of Horizontal Illumination

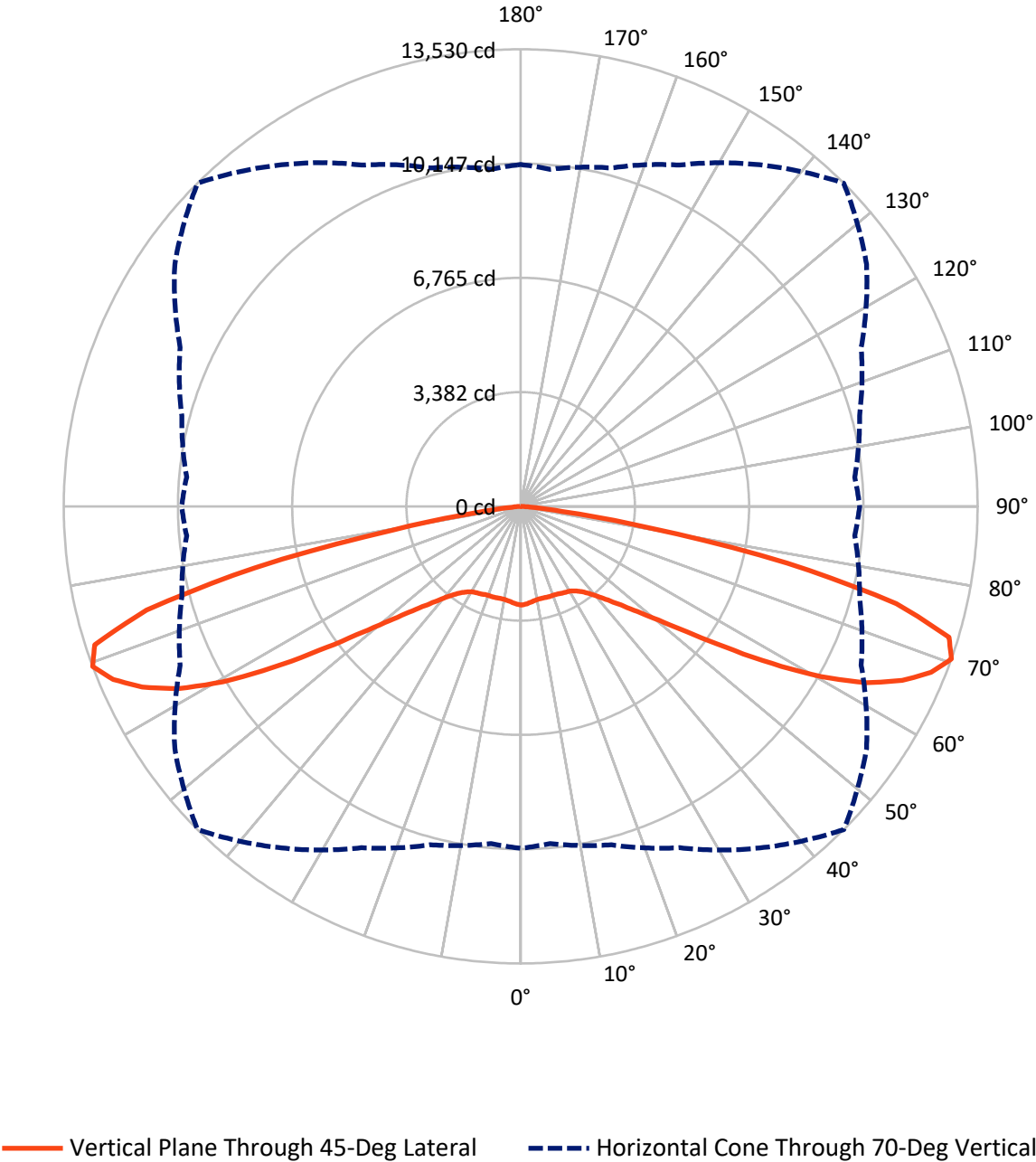
✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16018.5	0.0	16018.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16018.5	0.0	16018.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32037.0	0.0	32037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	0.8
10°-20°	798.2	2.5
20°-30°	1328.4	4.1
30°-40°	2008.9	6.3
40°-50°	3338.3	10.4
50°-60°	6299.3	19.7
60°-70°	10636.6	33.2
70°-80°	6989.3	21.8
80°-90°	366.2	1.1
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°	32037.0	100.0
0°-180°	32037.0	100.0

Coefficient of Utilization



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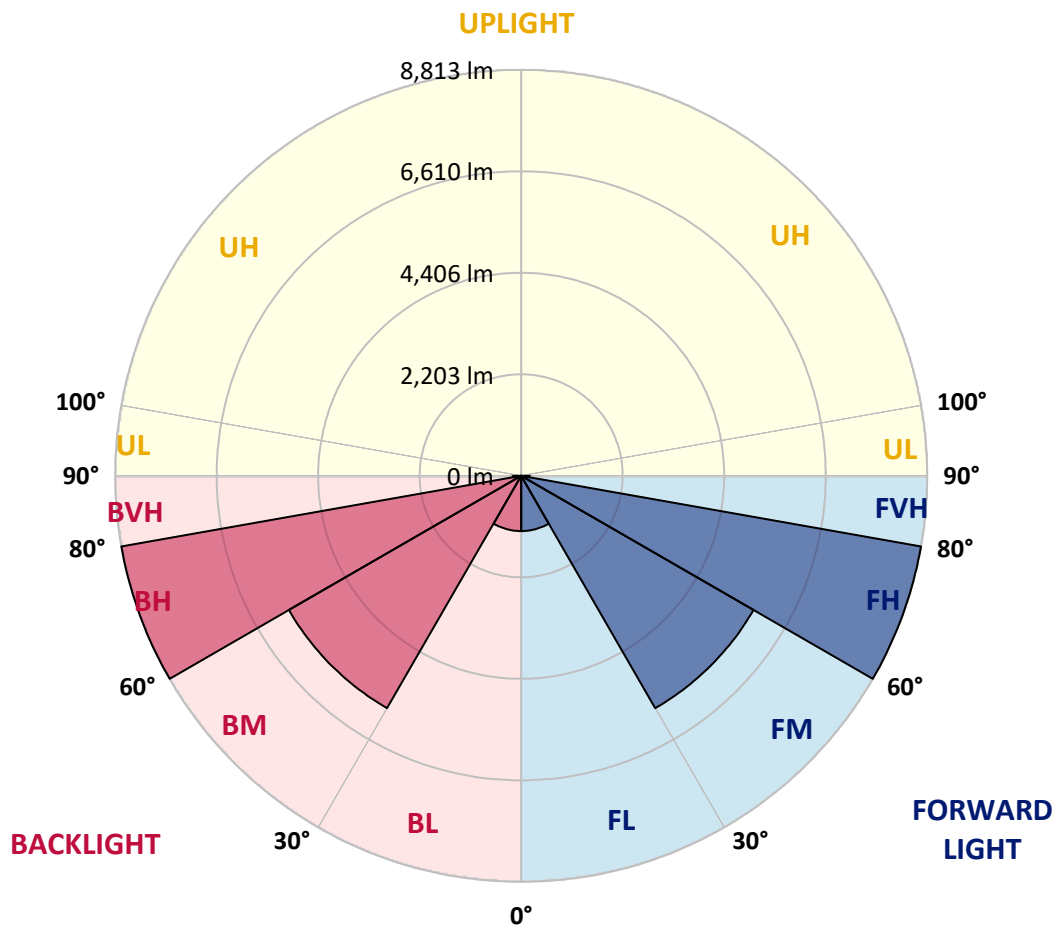
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1199.2	3.7			
FM	(30°-60°)	5823.2	18.2			
FH	(60°-80°)	8813.0	27.5			G4/12000
FVH	(80°-90°)	183.1	0.6			G2/225
BL	(0°-30°)	1199.2	3.7	B3/2500		
BM	(30°-60°)	5823.2	18.2	B4/8500		
BH	(60°-80°)	8813.0	27.5	B5		G4/12000
BVH	(80°-90°)	183.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4
2.5°	2904.1	2912.4	2909.1	2902.4	2902.4	2897.4	2902.4	2905.8	2910.8	2914.1	2912.4
5°	2865.8	2872.5	2870.8	2865.8	2867.5	2862.5	2865.8	2870.8	2874.1	2875.8	2875.8
7.5°	2832.5	2839.2	2835.8	2827.5	2827.5	2822.5	2824.2	2829.2	2834.2	2835.8	2835.8
10°	2824.2	2830.8	2820.8	2807.5	2802.5	2795.9	2797.5	2802.5	2812.5	2817.5	2817.5
12.5°	2827.5	2832.5	2822.5	2802.5	2797.5	2790.9	2790.9	2795.9	2809.2	2815.8	2817.5
15°	2837.5	2842.5	2827.5	2805.9	2800.9	2795.9	2794.2	2800.9	2815.8	2827.5	2829.2
17.5°	2855.8	2860.8	2837.5	2807.5	2800.9	2802.5	2800.9	2805.9	2829.2	2850.8	2850.8
20°	2872.5	2875.8	2844.2	2807.5	2800.9	2802.5	2800.9	2810.9	2840.8	2870.8	2872.5
22.5°	2877.5	2880.8	2850.8	2819.2	2814.2	2815.8	2814.2	2824.2	2852.5	2882.5	2882.5
25°	2879.1	2884.1	2860.8	2835.8	2844.2	2847.5	2844.2	2845.8	2867.5	2894.1	2892.4
27.5°	2904.1	2910.8	2889.1	2867.5	2872.5	2870.8	2875.8	2880.8	2897.4	2924.1	2917.4
30°	2955.7	2960.7	2942.4	2920.8	2917.4	2905.8	2920.8	2937.4	2955.7	2979.0	2974.0
32.5°	3040.6	3050.6	3027.3	3004.0	2989.0	2982.4	2994.0	3022.3	3047.3	3072.3	3062.3
35°	3182.2	3188.9	3167.2	3123.9	3097.3	3097.3	3107.3	3143.9	3183.9	3215.5	3203.8
37.5°	3382.0	3390.3	3352.0	3300.4	3260.5	3260.5	3273.8	3312.1	3372.0	3417.0	3400.3
40°	3625.1	3636.8	3588.5	3535.2	3496.9	3490.3	3506.9	3550.2	3606.8	3663.4	3645.1
42.5°	3918.2	3931.5	3868.3	3821.6	3791.7	3791.7	3800.0	3839.9	3891.6	3961.5	3956.5
45°	4292.9	4316.2	4229.6	4183.0	4154.7	4161.3	4166.3	4201.3	4247.9	4327.8	4324.5
47.5°	4739.1	4762.5	4670.9	4622.6	4617.6	4649.2	4629.2	4654.2	4679.2	4770.8	4744.1
50°	5245.4	5285.3	5222.1	5218.7	5228.7	5287.0	5240.4	5253.7	5225.4	5283.7	5248.7
52.5°	5864.8	5923.1	5911.4	5931.4	6043.0	6162.9	6056.3	6009.7	5903.1	5921.4	5859.8
55°	6615.8	6704.1	6720.7	6840.6	7093.7	7338.5	7112.1	6923.9	6697.4	6655.8	6590.8
57.5°	7470.1	7540.0	7619.9	7864.7	8337.6	8772.3	8337.6	7921.3	7565.0	7480.1	7420.1
60°	8389.3	8475.8	8552.4	8913.8	9616.5	10227.6	9603.2	8942.1	8470.9	8356.0	8256.0
62.5°	9376.7	9488.3	9541.6	9942.9	10762.2	11491.5	10773.8	9972.9	9450.0	9326.8	9226.9
65°	10324.2	10415.8	10475.7	10903.7	11686.3	12417.4	11739.6	10950.3	10412.5	10250.9	10171.0
67.5°	10765.5	10815.4	10962.0	11446.6	12272.5	13106.8	12412.4	11498.2	10897.0	10614.0	10617.3
70°	10119.4	10017.8	10370.8	11146.8	12342.4	13529.7	12502.3	11123.5	10387.5	9927.9	10037.8
72.5°	7819.8	7644.9	8257.7	9584.9	11543.1	13260.0	11623.1	9659.8	8639.0	7706.5	7938.0
75°	4254.6	4056.4	4902.3	6580.9	9205.2	11493.2	9416.7	6769.0	5458.5	4222.9	4497.7
77.5°	1200.6	1125.7	1808.4	3183.9	5536.8	8069.5	5749.9	3253.8	2144.8	1272.2	1413.8
80°	368.0	356.4	482.9	959.2	2351.3	3864.9	2259.7	970.8	614.5	388.0	409.6
82.5°	218.1	199.8	239.8	349.7	599.5	1213.9	582.8	364.7	293.1	196.5	213.1
85°	124.9	116.6	141.5	169.9	201.5	258.1	168.2	173.2	156.5	104.9	109.9
87.5°	51.6	46.6	55.0	53.3	46.6	59.9	45.0	53.3	63.3	41.6	38.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)