

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: P949849

Luminaire Tested: **GALN-SB4C-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949849
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-SB4C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29155 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 200.7
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

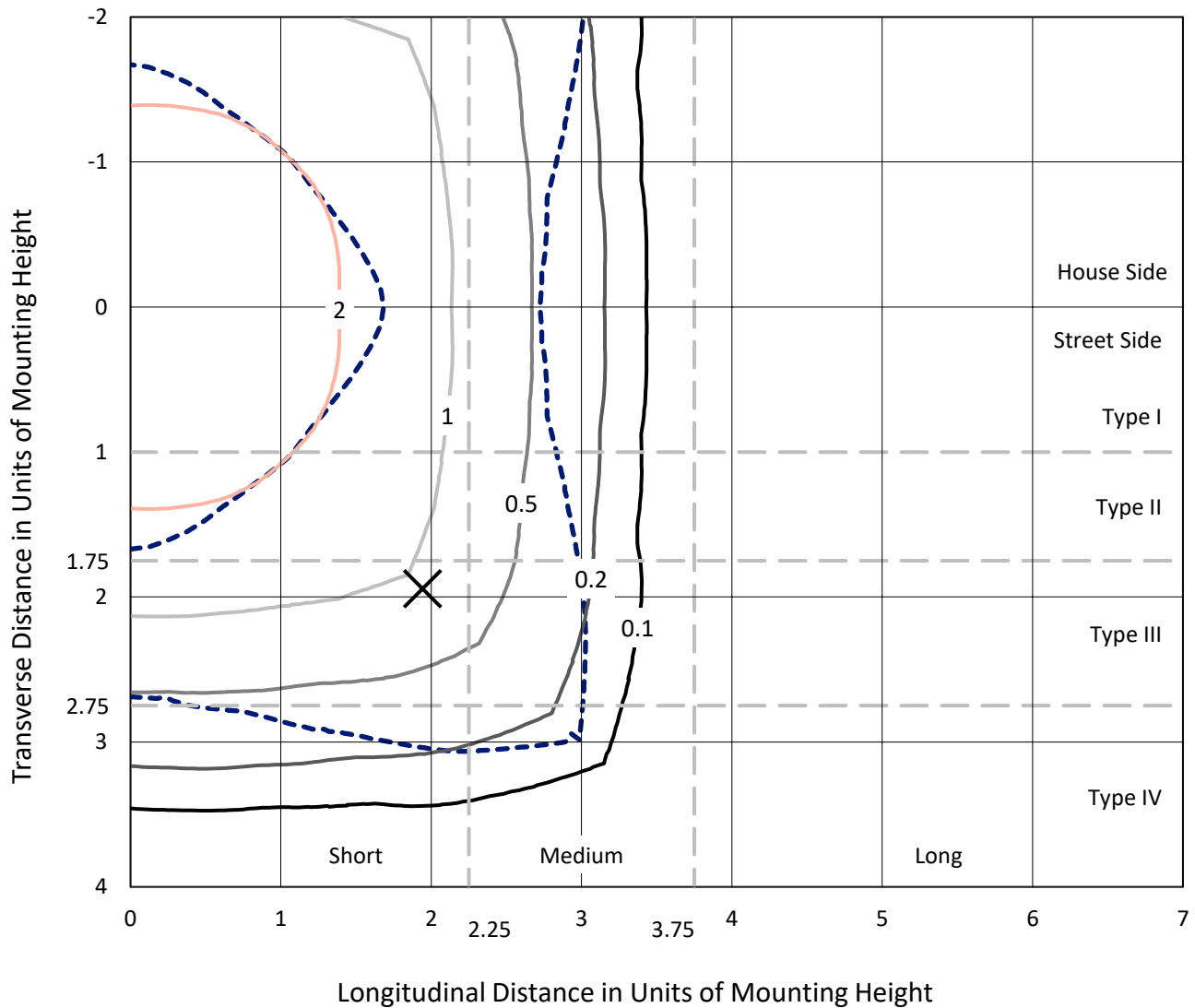


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

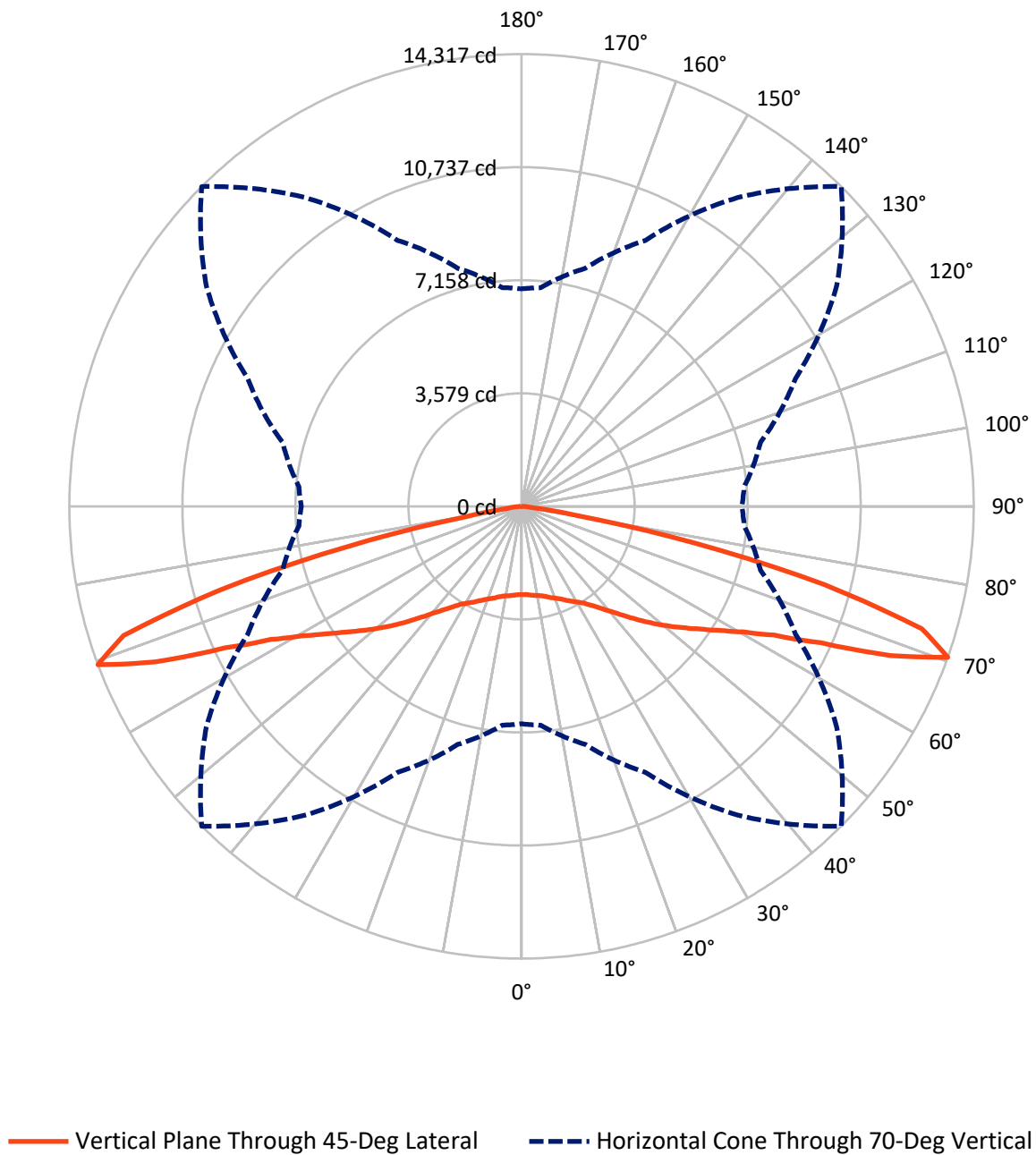


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14577.5	0.0	14577.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14577.5	0.0	14577.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29155.0	0.0	29155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	0.9
10°-20°	841.3	2.9
20°-30°	1503.5	5.2
30°-40°	2437.2	8.4
40°-50°	3969.8	13.6
50°-60°	6052.6	20.8
60°-70°	9004.4	30.9
70°-80°	4907.7	16.8
80°-90°	167.1	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°	29155.0	100.0
0°-180°	29155.0	100.0

Coefficient of Utilization



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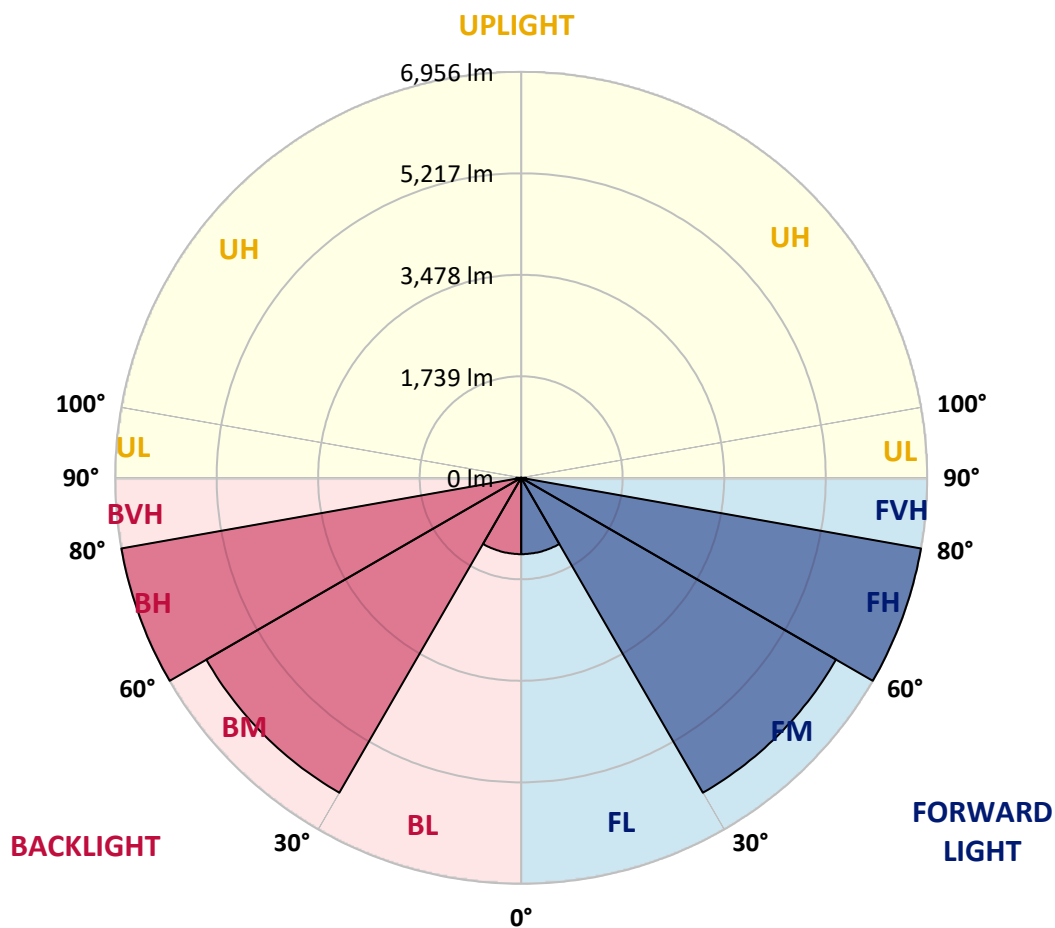
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1308.1	4.5			
FM	(30°-60°)	6229.8	21.4			
FH	(60°-80°)	6956.0	23.9			G3/7500
FVH	(80°-90°)	83.6	0.3			G1/100
BL	(0°-30°)	1308.1	4.5	B3/2500		
BM	(30°-60°)	6229.8	21.4	B4/8500		
BH	(60°-80°)	6956.0	23.9	B5		G3/7500
BVH	(80°-90°)	83.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2792.7	2792.7	2792.7	2792.7	2792.7	2792.7	2792.7	2792.7	2792.7	2792.7	2792.7
2.5°	2805.9	2808.8	2803.0	2800.1	2797.1	2792.7	2794.2	2801.5	2807.4	2805.9	2807.4
5°	2829.3	2832.3	2827.9	2826.4	2820.6	2819.1	2819.1	2826.4	2830.8	2827.9	2829.3
7.5°	2855.7	2860.1	2852.8	2851.3	2848.4	2845.4	2844.0	2851.3	2855.7	2855.7	2855.7
10°	2880.6	2885.0	2879.1	2874.7	2871.8	2871.8	2868.9	2874.7	2882.0	2880.6	2880.6
12.5°	2906.9	2909.8	2904.0	2901.1	2901.1	2905.5	2901.1	2904.0	2909.8	2906.9	2905.5
15°	2939.1	2940.6	2939.1	2943.5	2950.8	2965.5	2952.3	2949.4	2952.3	2945.0	2945.0
17.5°	2983.0	2986.0	2991.8	3002.1	3012.3	3038.6	3015.2	3007.9	3007.9	2993.3	2993.3
20°	3037.2	3041.6	3050.4	3067.9	3081.1	3106.0	3082.6	3072.3	3067.9	3048.9	3048.9
22.5°	3094.3	3101.6	3114.8	3138.2	3161.6	3185.0	3161.6	3144.0	3130.9	3106.0	3104.5
25°	3160.1	3168.9	3189.4	3227.5	3259.7	3293.3	3265.5	3230.4	3204.0	3168.9	3167.5
27.5°	3253.8	3264.1	3288.9	3335.8	3376.8	3406.0	3379.7	3334.3	3297.7	3255.3	3253.8
30°	3385.5	3395.8	3425.1	3474.8	3502.6	3521.7	3504.1	3469.0	3425.1	3376.8	3376.8
32.5°	3555.3	3568.5	3600.7	3647.6	3653.4	3656.3	3650.5	3632.9	3600.7	3542.2	3543.6
35°	3770.5	3785.1	3821.7	3859.8	3853.9	3859.8	3851.0	3845.2	3821.7	3754.4	3754.4
37.5°	4034.0	4051.5	4089.6	4118.9	4104.2	4096.9	4098.4	4099.8	4086.7	4012.0	4012.0
40°	4339.9	4363.3	4391.1	4421.8	4397.0	4375.0	4389.6	4401.4	4389.6	4313.5	4313.5
42.5°	4654.6	4688.2	4717.5	4761.4	4740.9	4713.1	4733.6	4746.8	4721.9	4639.9	4645.8
45°	5004.4	5036.6	5074.7	5140.5	5125.9	5096.6	5125.9	5128.8	5086.4	4989.8	5000.0
47.5°	5365.9	5399.6	5456.7	5544.5	5538.7	5506.5	5544.5	5524.0	5469.9	5354.2	5346.9
50°	5708.4	5755.3	5843.1	5966.1	5977.8	5938.2	5989.5	5950.0	5859.2	5714.3	5711.4
52.5°	6030.5	6080.2	6219.3	6386.1	6428.6	6377.4	6446.2	6377.4	6241.2	6055.3	6037.8
55°	6368.6	6424.2	6589.6	6807.7	6892.6	6854.5	6918.9	6815.0	6621.8	6396.4	6365.6
57.5°	6766.7	6800.4	6998.0	7257.0	7400.5	7409.3	7438.5	7262.9	7028.7	6772.6	6737.4
60°	7198.5	7245.3	7460.5	7770.8	7997.7	8070.9	8040.1	7779.6	7507.3	7213.1	7166.3
62.5°	7751.8	7803.0	8060.6	8432.4	8791.0	8972.5	8852.5	8474.8	8138.2	7785.4	7724.0
65°	8209.9	8267.0	8732.5	9395.5	10048.3	10412.8	10111.3	9416.0	8810.0	8312.4	8230.4
67.5°	7877.7	7947.9	8678.3	9896.1	11519.4	12606.9	11575.0	10045.4	8858.3	8183.6	8082.6
70°	6885.3	6951.1	7803.0	9291.6	11933.6	14316.5	12182.4	9565.3	7830.8	7075.5	6974.5
72.5°	4571.1	4783.4	5645.5	7431.2	10655.8	13248.0	10761.2	7280.5	5237.1	4560.9	4413.1
75°	1516.4	1686.2	2274.6	3852.5	7137.0	9907.8	6794.5	3409.0	1801.8	1296.8	1226.6
77.5°	382.0	440.6	607.4	1102.2	2846.9	5641.1	2562.9	900.2	490.3	342.5	305.9
80°	185.9	204.9	292.7	367.4	712.8	1793.0	668.9	345.4	231.3	178.6	163.9
82.5°	102.5	103.9	165.4	207.8	264.9	464.0	275.2	202.0	133.2	108.3	108.3
85°	62.9	61.5	87.8	111.2	111.2	165.4	131.7	111.2	76.1	67.3	70.3
87.5°	24.9	24.9	32.2	35.1	30.7	42.4	33.7	36.6	29.3	27.8	29.3
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)