

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: P949891

Luminaire Tested: **GALN-SB4C-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949891
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-735-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31433 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

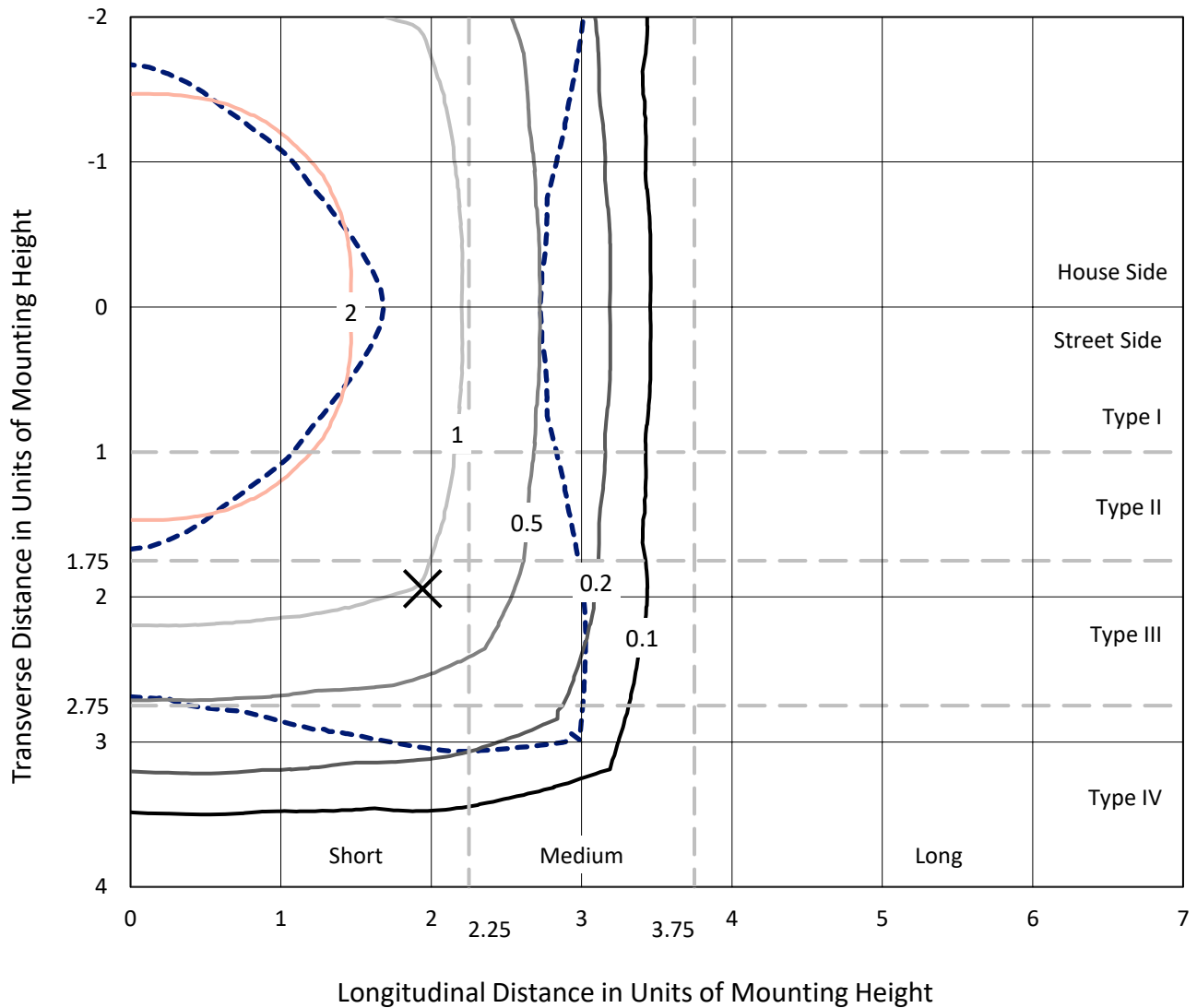
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

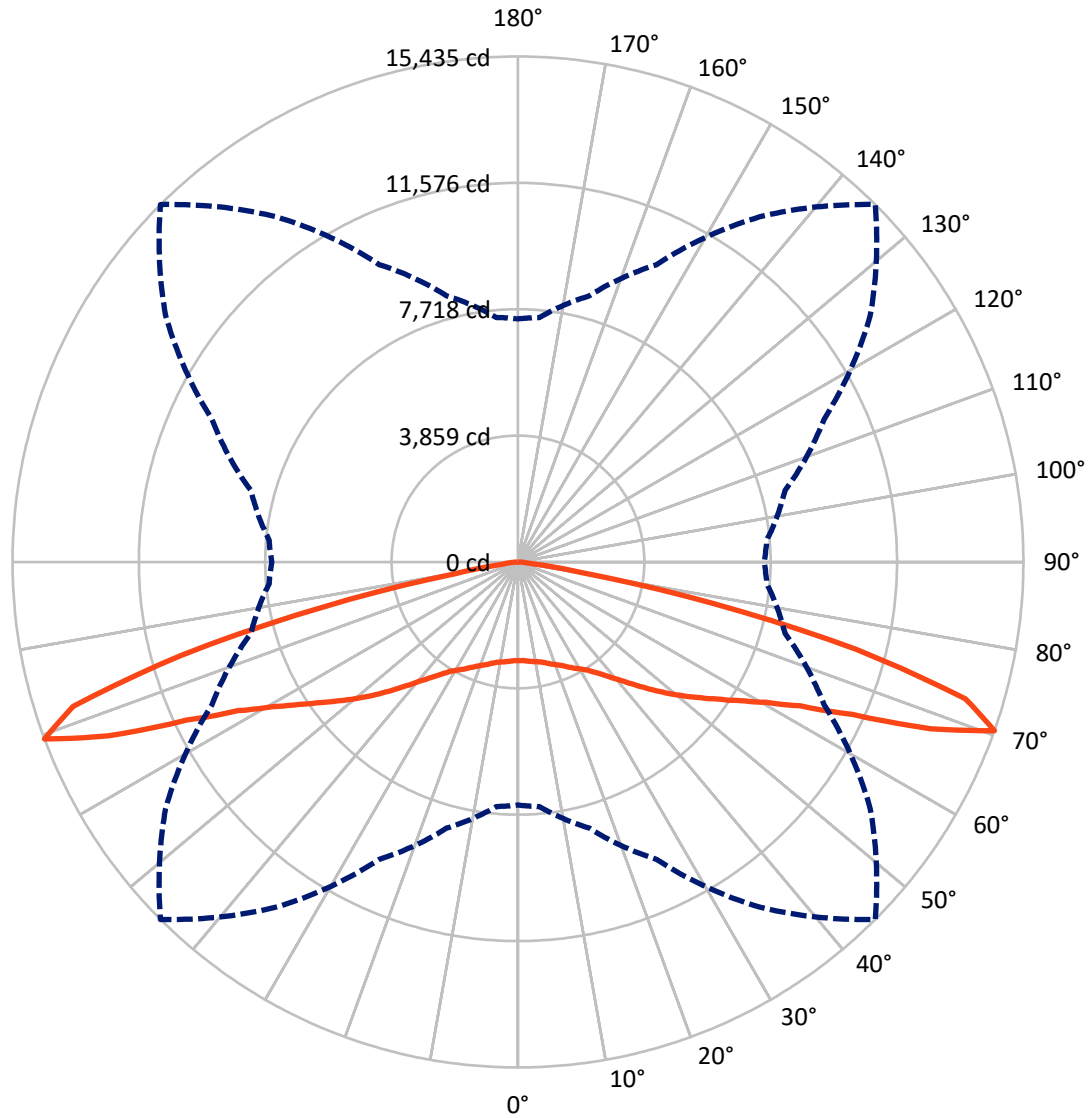
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15716.5	0.0	15716.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15716.5	0.0	15716.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31433.0	0.0	31433.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	0.9
10°-20°	907.1	2.9
20°-30°	1621.0	5.2
30°-40°	2627.6	8.4
40°-50°	4280.0	13.6
50°-60°	6525.5	20.8
60°-70°	9707.9	30.9
70°-80°	5291.1	16.8
80°-90°	180.2	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°	31433.0	100.0
0°-180°	31433.0	100.0



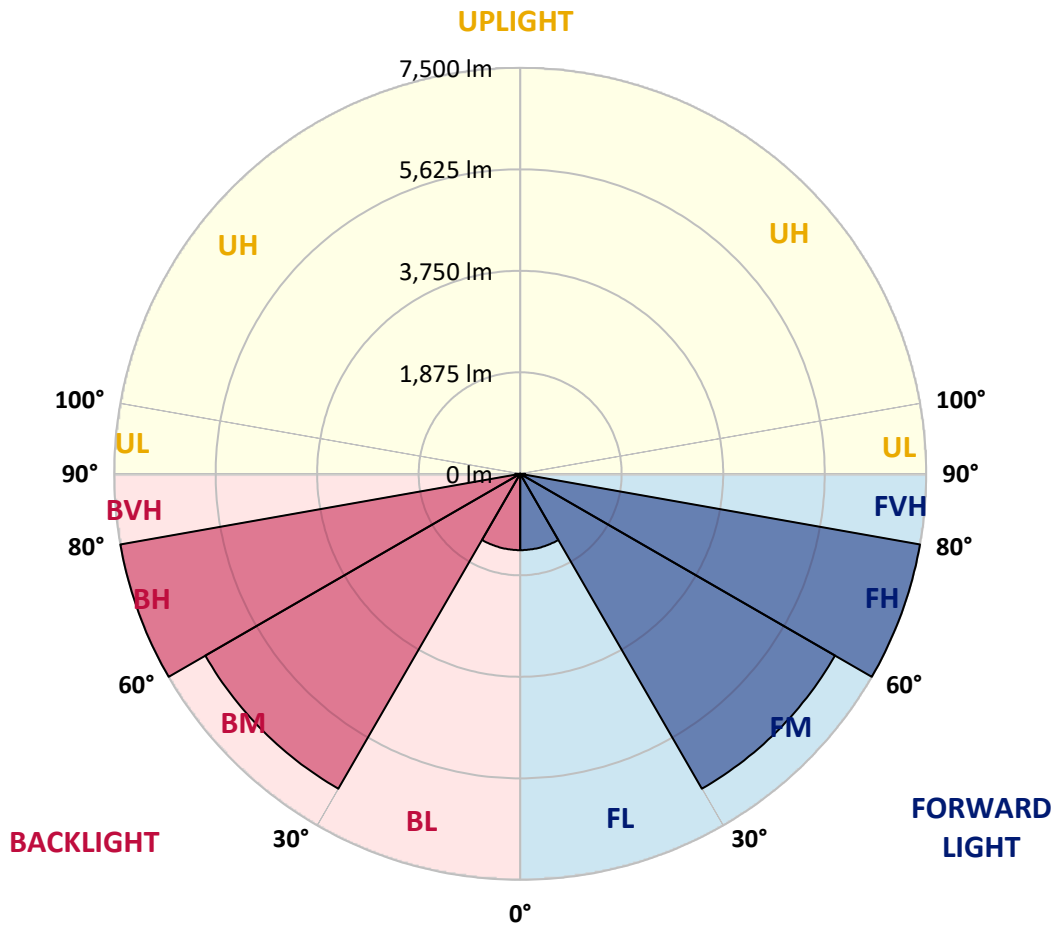
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1410.3	4.5			
FM (30°-60°)	6716.6	21.4			
FH (60°-80°)	7499.5	23.9			G3/7500
FVH (80°-90°)	90.1	0.3			G1/100
BL (0°-30°)	1410.3	4.5	B3/2500		
BM (30°-60°)	6716.6	21.4	B4/8500		
BH (60°-80°)	7499.5	23.9	B5		G3/7500
BVH (80°-90°)	90.1	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°
0°	3011.0	3011.0	3011.0	3011.0	3011.0	3011.0	3011.0	3011.0	3011.0	3011.0
2.5°	3025.2	3028.3	3022.0	3018.8	3015.7	3011.0	3012.5	3020.4	3026.7	3025.2
5°	3050.4	3053.6	3048.8	3047.3	3040.9	3039.4	3039.4	3047.3	3052.0	3048.8
7.5°	3078.8	3083.5	3075.7	3074.1	3070.9	3067.8	3066.2	3074.1	3078.8	3078.8
10°	3105.6	3110.4	3104.1	3099.3	3096.2	3096.2	3093.0	3099.3	3107.2	3105.6
12.5°	3134.0	3137.2	3130.9	3127.7	3127.7	3132.5	3127.7	3130.9	3137.2	3134.0
15°	3168.8	3170.3	3168.8	3173.5	3181.4	3197.2	3183.0	3179.8	3183.0	3175.1
17.5°	3216.1	3219.3	3225.6	3236.6	3247.7	3276.1	3250.8	3242.9	3242.9	3227.2
20°	3274.5	3279.2	3288.7	3307.6	3321.8	3348.7	3323.4	3312.4	3307.6	3287.1
22.5°	3336.0	3343.9	3358.1	3383.4	3408.6	3433.9	3408.6	3389.7	3375.5	3348.7
25°	3407.1	3416.5	3438.6	3479.6	3514.4	3550.7	3520.7	3482.8	3454.4	3416.5
27.5°	3508.0	3519.1	3545.9	3596.4	3640.6	3672.2	3643.8	3594.8	3555.4	3509.6
30°	3650.1	3661.1	3692.7	3746.3	3776.3	3796.8	3777.9	3740.0	3692.7	3640.6
32.5°	3833.1	3847.3	3882.1	3932.5	3938.9	3942.0	3935.7	3916.8	3882.1	3818.9
35°	4065.1	4080.9	4120.3	4161.4	4155.1	4161.4	4151.9	4145.6	4120.3	4047.7
37.5°	4349.2	4368.1	4409.1	4440.7	4424.9	4417.0	4418.6	4420.2	4406.0	4325.5
40°	4679.0	4704.2	4734.2	4767.3	4740.5	4716.8	4732.6	4745.3	4732.6	4650.6
42.5°	5018.3	5054.6	5086.1	5133.5	5111.4	5081.4	5103.5	5117.7	5090.9	5002.5
45°	5395.4	5430.1	5471.2	5542.2	5526.4	5494.8	5526.4	5529.6	5483.8	5379.6
47.5°	5785.2	5821.5	5883.0	5977.7	5971.4	5936.7	5977.7	5955.6	5897.2	5772.6
50°	6154.5	6205.0	6299.7	6432.2	6444.8	6402.2	6457.5	6414.9	6317.0	6160.8
52.5°	6501.6	6555.3	6705.2	6885.1	6930.9	6875.6	6949.8	6875.6	6728.9	6528.5
55°	6866.2	6926.1	7104.5	7339.6	7431.1	7390.1	7459.5	7347.5	7139.2	6896.2
57.5°	7295.4	7331.7	7544.7	7824.1	7978.7	7988.2	8019.7	7830.4	7577.9	7301.7
60°	7760.9	7811.4	8043.4	8378.0	8622.6	8701.5	8668.3	8387.4	8093.9	7776.7
62.5°	8357.5	8412.7	8690.4	9091.3	9477.9	9673.6	9544.2	9137.0	8774.1	8393.8
65°	8851.4	8912.9	9414.8	10129.6	10833.4	11226.4	10901.3	10151.7	9498.4	8961.9
67.5°	8493.2	8568.9	9356.4	10669.3	12419.4	13591.9	12479.4	10830.3	9550.5	8823.0
70°	7423.2	7494.3	8412.7	10017.6	12866.0	15435.1	13134.3	10312.7	8442.7	7628.4
72.5°	4928.3	5157.1	6086.6	8011.9	11488.3	14283.1	11602.0	7849.3	5646.3	4917.3
75°	1634.9	1817.9	2452.3	4153.5	7694.7	10682.0	7325.4	3675.3	1942.6	1398.2
77.5°	411.9	475.0	654.9	1188.3	3069.3	6081.9	2763.2	970.5	528.7	369.3
80°	200.4	220.9	315.6	396.1	768.5	1933.1	721.2	372.4	249.3	192.5
82.5°	110.5	112.0	178.3	224.1	285.6	500.2	296.7	217.8	143.6	116.8
85°	67.9	66.3	94.7	119.9	119.9	178.3	142.0	119.9	82.1	72.6
87.5°	26.8	26.8	34.7	37.9	33.1	45.8	36.3	39.5	31.6	30.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3011.0
3026.7
3050.4
3078.8
3105.6
3132.5
3175.1
3227.2
3287.1
3347.1
3414.9
3508.0
3640.6
3820.5
4047.7
4325.5
4650.6
5008.8
5390.7
5764.7
6157.6
6509.5
6863.0
7263.9
7726.2
8327.5
8873.5
8714.1
7519.5
4757.9
1322.4
329.8
176.7
116.8
75.7
31.6
0.0

OF REPORT)