

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: P951676

Luminaire Tested: **GALN-SB5D-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951676
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-SB5D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53833 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

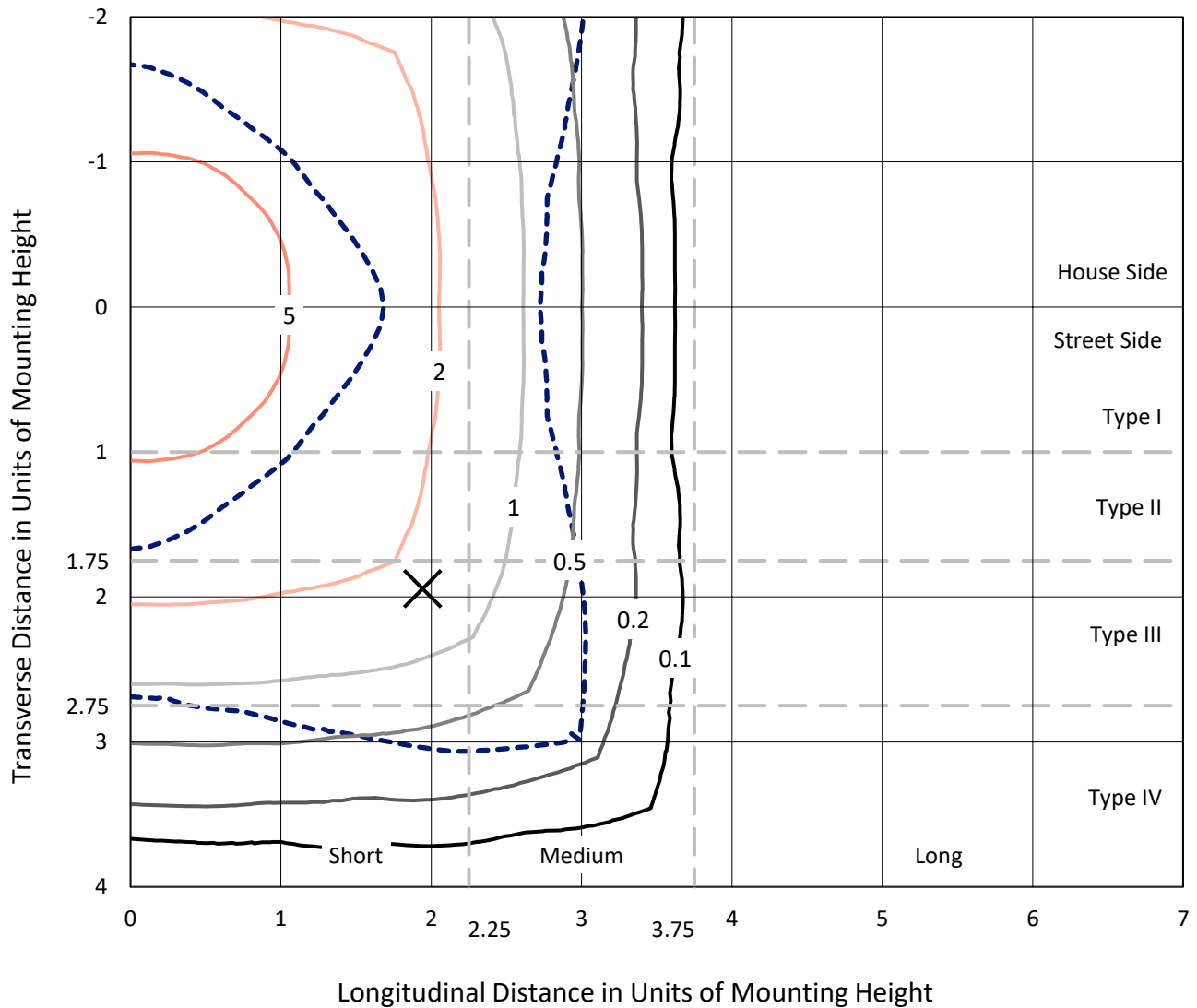
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

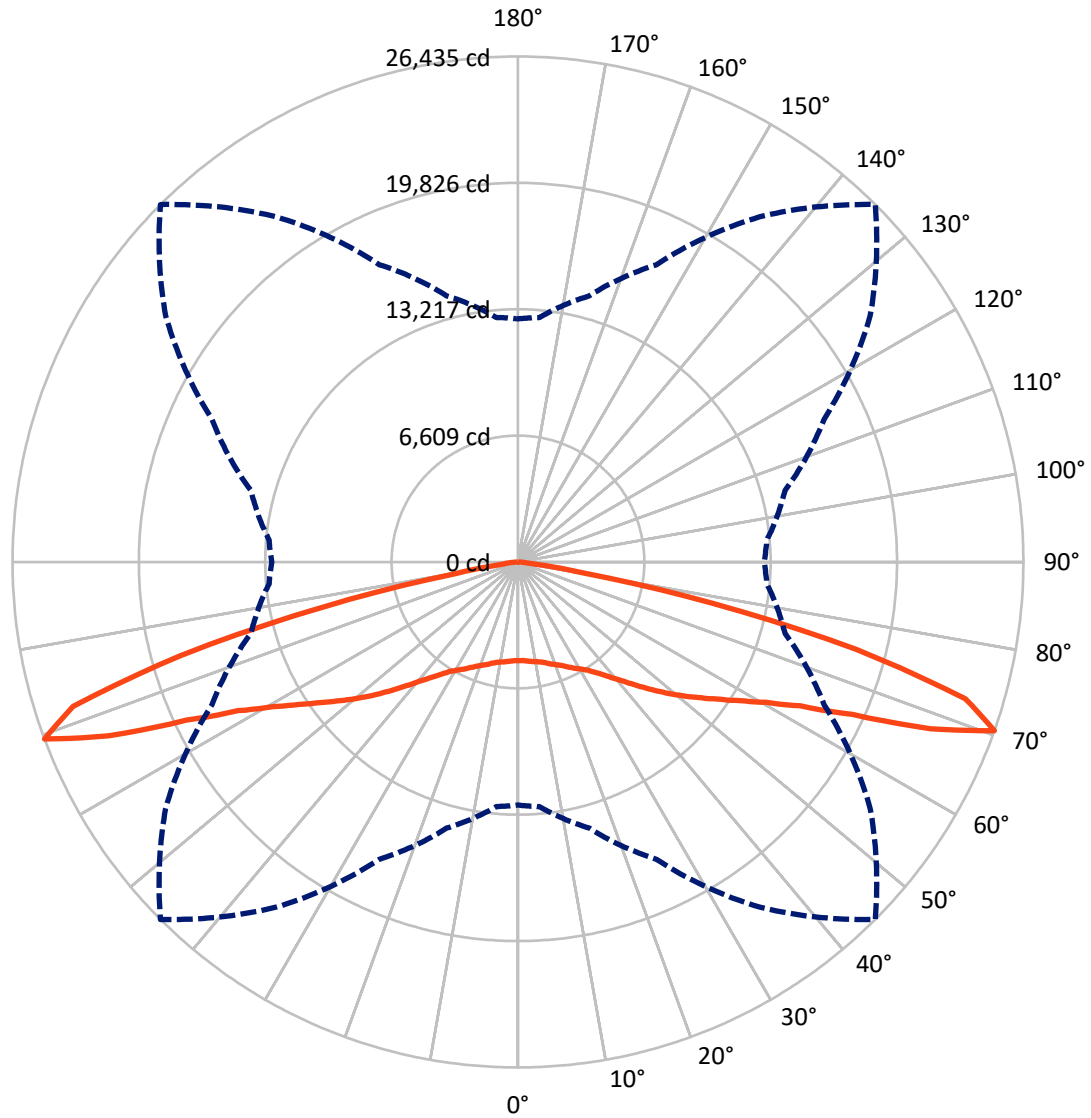
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	26916.5	0.0	26916.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26916.5	0.0	26916.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53833.0	0.0	53833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.0	0.9
10°-20°	1553.4	2.9
20°-30°	2776.2	5.2
30°-40°	4500.2	8.4
40°-50°	7330.0	13.6
50°-60°	11175.8	20.8
60°-70°	16626.1	30.9
70°-80°	9061.7	16.8
80°-90°	308.6	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°	53833.0	100.0
0°-180°	53833.0	100.0

Coefficient of Utilization



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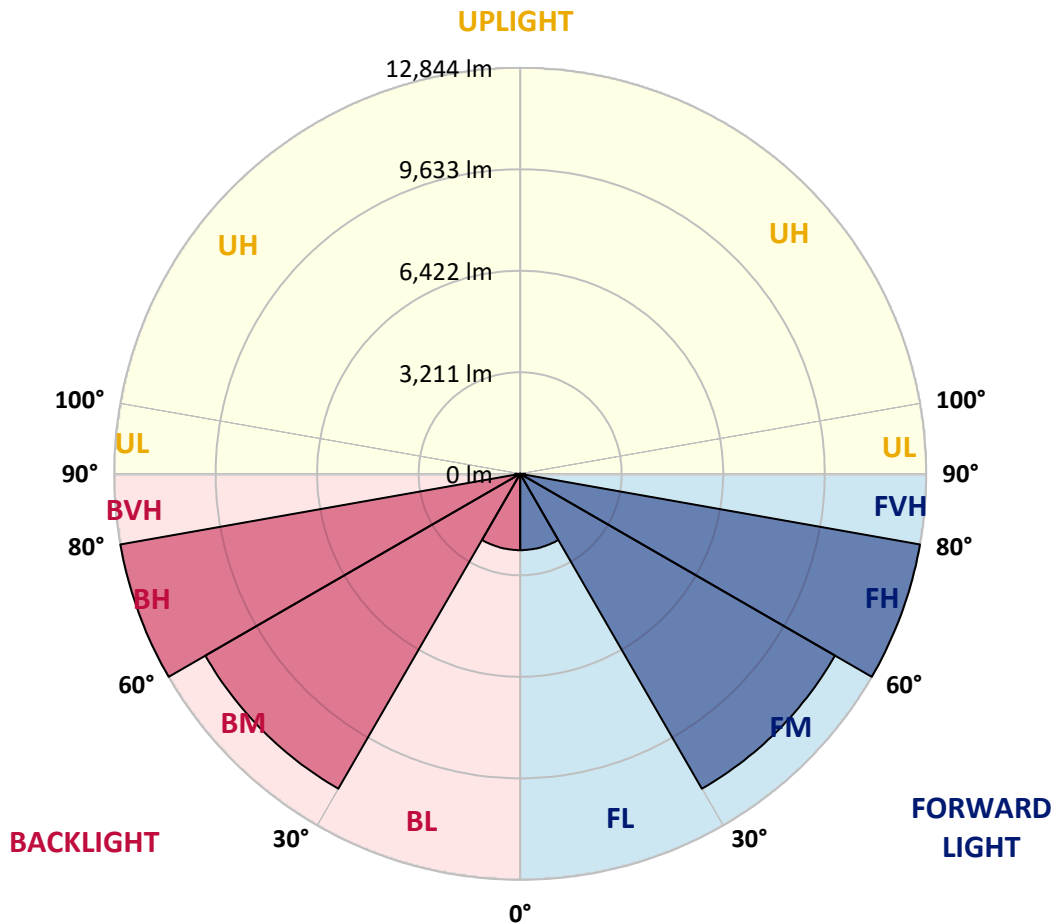
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2415.3	4.5			
FM (30°-60°)	11503.0	21.4			
FH (60°-80°)	12843.9	23.9			G5
FVH (80°-90°)	154.3	0.3			G2/225
BL (0°-30°)	2415.3	4.5	B3/2500		
BM (30°-60°)	11503.0	21.4	B5		
BH (60°-80°)	12843.9	23.9	B5		G5
BVH (80°-90°)	154.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6
2.5°	5181.0	5186.4	5175.6	5170.2	5164.8	5156.6	5159.3	5172.9	5183.7	5181.0
5°	5224.2	5229.6	5221.5	5218.8	5208.0	5205.3	5205.3	5218.8	5226.9	5221.5
7.5°	5272.9	5281.0	5267.5	5264.7	5259.3	5253.9	5251.2	5264.7	5272.9	5272.9
10°	5318.8	5326.9	5316.1	5308.0	5302.6	5302.6	5297.2	5308.0	5321.5	5318.8
12.5°	5367.5	5372.9	5362.0	5356.6	5356.6	5364.7	5356.6	5362.0	5372.9	5367.5
15°	5426.9	5429.6	5426.9	5435.0	5448.5	5475.6	5451.2	5445.8	5451.2	5437.7
17.5°	5508.0	5513.4	5524.2	5543.1	5562.0	5610.7	5567.4	5553.9	5553.9	5526.9
20°	5608.0	5616.1	5632.3	5664.7	5689.1	5735.0	5691.8	5672.8	5664.7	5629.6
22.5°	5713.4	5726.9	5751.2	5794.5	5837.7	5881.0	5837.7	5805.3	5781.0	5735.0
25°	5835.0	5851.2	5889.1	5959.3	6018.8	6080.9	6029.6	5964.7	5916.1	5851.2
27.5°	6008.0	6026.9	6072.8	6159.3	6235.0	6289.1	6240.4	6156.6	6089.1	6010.7
30°	6251.2	6270.1	6324.2	6416.1	6467.4	6502.6	6470.1	6405.3	6324.2	6235.0
32.5°	6564.7	6589.0	6648.5	6735.0	6745.8	6751.2	6740.4	6708.0	6648.5	6540.4
35°	6962.0	6989.0	7056.6	7126.9	7116.1	7126.9	7110.7	7099.8	7056.6	6932.3
37.5°	7448.5	7480.9	7551.2	7605.2	7578.2	7564.7	7567.4	7570.1	7545.8	7407.9
40°	8013.3	8056.6	8107.9	8164.7	8118.7	8078.2	8105.2	8126.8	8105.2	7964.7
42.5°	8594.4	8656.6	8710.6	8791.7	8753.9	8702.5	8740.3	8764.7	8718.7	8567.4
45°	9240.3	9299.8	9370.1	9491.7	9464.7	9410.6	9464.7	9470.1	9391.7	9213.3
47.5°	9907.9	9970.1	10075.5	10237.6	10226.8	10167.3	10237.6	10199.8	10099.8	9886.3
50°	10540.3	10626.8	10789.0	11016.0	11037.6	10964.6	11059.2	10986.2	10818.7	10551.1
52.5°	11134.9	11226.8	11483.5	11791.6	11870.0	11775.4	11902.4	11775.4	11524.1	11180.8
55°	11759.2	11861.9	12167.3	12570.0	12726.7	12656.5	12775.4	12583.5	12226.8	11810.6
57.5°	12494.3	12556.5	12921.3	13399.7	13664.6	13680.8	13734.8	13410.5	12978.1	12505.1
60°	13291.6	13378.1	13775.4	14348.3	14767.2	14902.4	14845.6	14364.6	13861.9	13318.6
62.5°	14313.2	14407.8	14883.5	15569.9	16232.1	16567.2	16345.6	15648.3	15026.7	14375.4
65°	15159.1	15264.5	16124.0	17348.3	18553.6	19226.6	18669.9	17386.1	16267.2	15348.3
67.5°	14545.6	14675.4	16024.0	18272.6	21269.8	23277.9	21372.5	18548.2	16356.4	15110.5
70°	12713.2	12834.9	14407.8	17156.4	22034.7	26434.6	22494.1	17661.8	14459.1	13064.6
72.5°	8440.4	8832.2	10424.1	13721.3	19675.2	24461.6	19869.8	13442.9	9670.1	8421.4
75°	2799.9	3113.4	4199.9	7113.4	13178.1	18294.2	12545.7	6294.5	3327.0	2394.5
77.5°	705.4	813.5	1121.6	2035.1	5256.6	10416.0	4732.3	1662.1	905.4	632.4
80°	343.2	378.4	540.5	678.4	1316.2	3310.7	1235.1	637.8	427.0	329.7
82.5°	189.2	191.9	305.4	383.8	489.2	856.7	508.1	373.0	245.9	200.0
85°	116.2	113.5	162.2	205.4	205.4	305.4	243.2	205.4	140.5	124.3
87.5°	45.9	45.9	59.5	64.9	56.8	78.4	62.2	67.6	54.1	51.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5156.6
5183.7
5224.2
5272.9
5318.8
5364.7
5437.7
5526.9
5629.6
5732.3
5848.5
6008.0
6235.0
6543.1
6932.3
7407.9
7964.7
8578.2
9232.2
9872.8
10545.7
11148.4
11753.8
12440.3
13232.1
14261.9
15197.0
14924.0
<i>12878.1</i>
8148.5
2264.8
564.9
302.7
200.0
129.7
54.1
0.0

OF REPORT)