

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: P951802

Luminaire Tested: **GALN-SB5D-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951802
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-835-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 49932 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

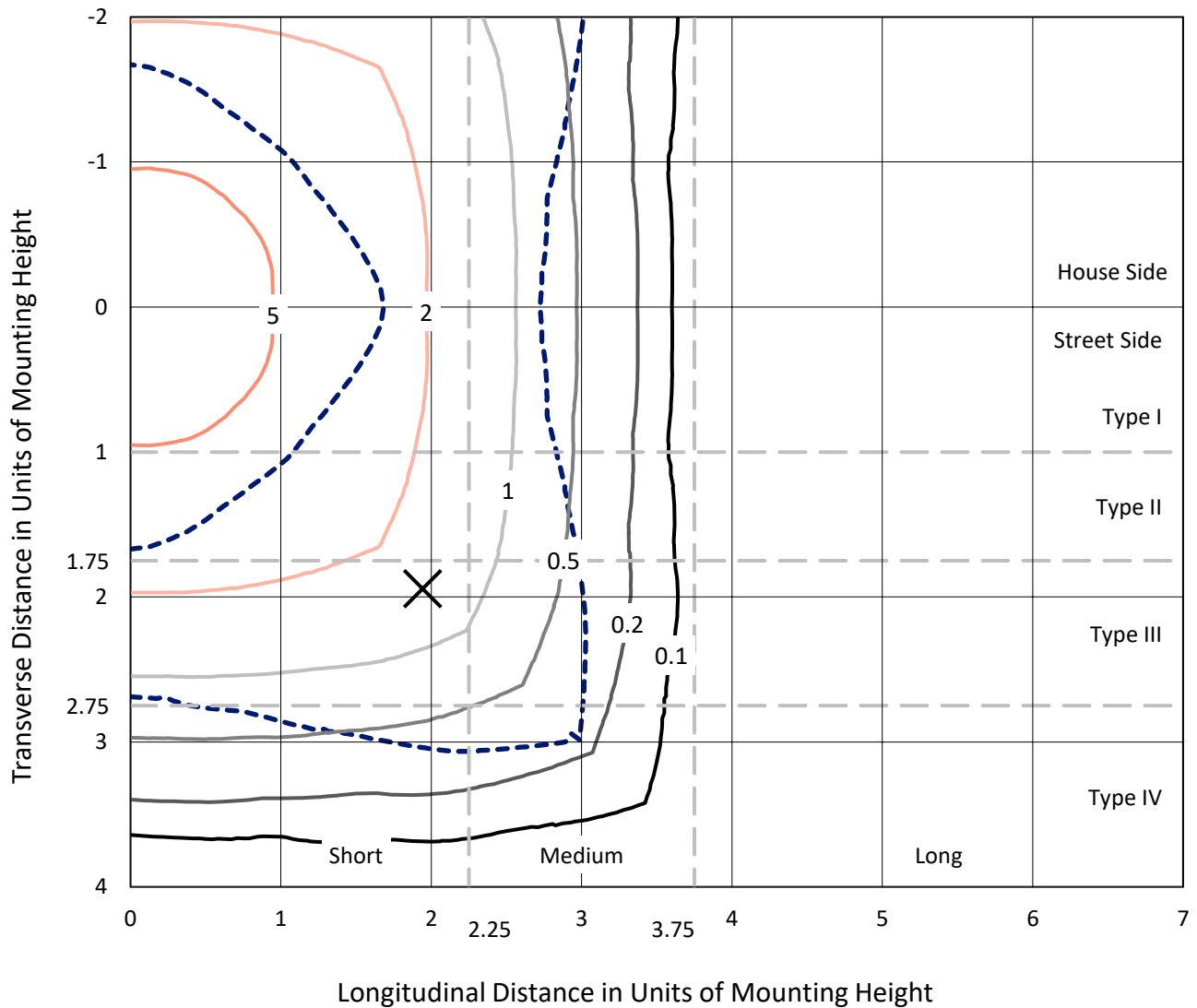
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

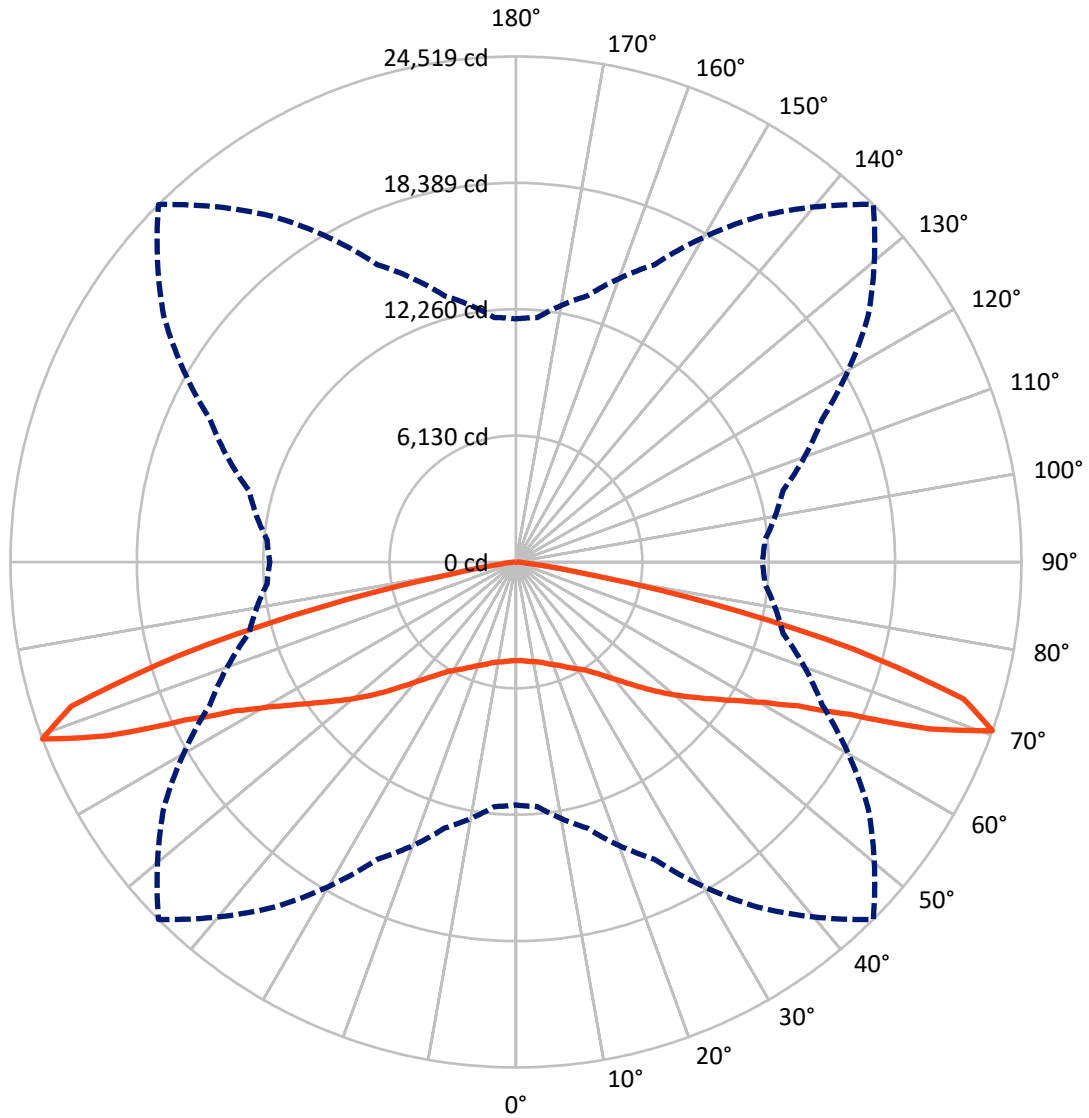
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	24966.0	0.0	24966.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24966.0	0.0	24966.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49932.0	0.0	49932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.7	0.9
10°-20°	1440.9	2.9
20°-30°	2575.0	5.2
30°-40°	4174.1	8.4
40°-50°	6798.9	13.6
50°-60°	10366.0	20.8
60°-70°	15421.3	30.9
70°-80°	8405.1	16.8
80°-90°	286.2	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°	49932.0	100.0
0°-180°	49932.0	100.0

Coefficient of Utilization



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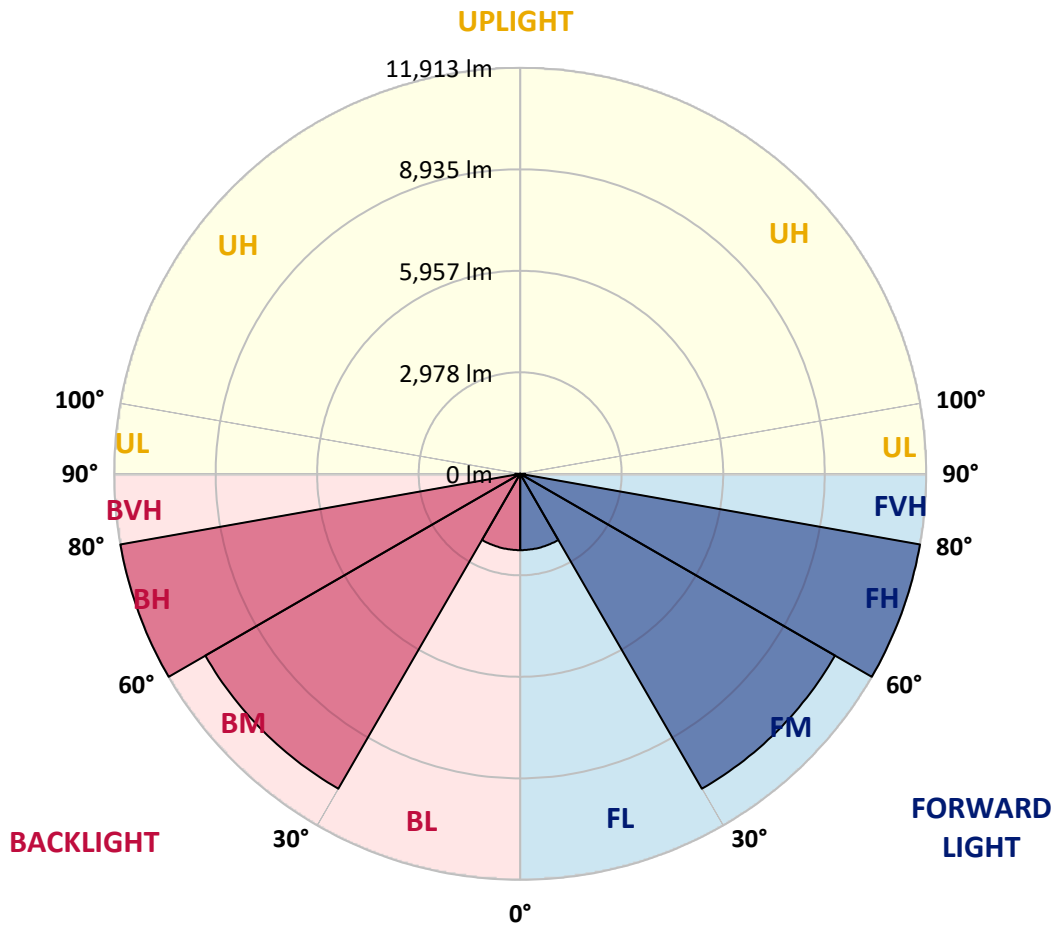
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2240.3	4.5			
FM (30°-60°)	10669.4	21.4			
FH (60°-80°)	11913.2	23.9			G4/12000
FVH (80°-90°)	143.1	0.3			G2/225
BL (0°-30°)	2240.3	4.5	B3/2500		
BM (30°-60°)	10669.4	21.4	B5		
BH (60°-80°)	11913.2	23.9	B5		G4/12000
BVH (80°-90°)	143.1	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0
2.5°	4805.5	4810.5	4800.5	4795.5	4790.5	4783.0	4785.5	4798.0	4808.0	4805.5
5°	4845.6	4850.7	4843.1	4840.6	4830.6	4828.1	4828.1	4840.6	4848.1	4843.1
7.5°	4890.8	4898.3	4885.7	4883.2	4878.2	4873.2	4870.7	4883.2	4890.8	4890.8
10°	4933.4	4940.9	4930.9	4923.3	4918.3	4918.3	4913.3	4923.3	4935.9	4933.4
12.5°	4978.5	4983.5	4973.5	4968.5	4968.5	4976.0	4968.5	4973.5	4983.5	4978.5
15°	5033.6	5036.2	5033.6	5041.2	5053.7	5078.8	5056.2	5051.2	5056.2	5043.7
17.5°	5108.9	5113.9	5123.9	5141.4	5159.0	5204.1	5164.0	5151.5	5151.5	5126.4
20°	5201.6	5209.1	5224.2	5254.2	5276.8	5319.4	5279.3	5261.8	5254.2	5221.7
22.5°	5299.4	5311.9	5334.5	5374.6	5414.7	5454.8	5414.7	5384.6	5362.0	5319.4
25°	5412.2	5427.2	5462.3	5527.5	5582.6	5640.3	5592.7	5532.5	5487.4	5427.2
27.5°	5572.6	5590.2	5632.8	5713.0	5783.2	5833.3	5788.2	5710.5	5647.8	5575.1
30°	5798.2	5815.8	5865.9	5951.1	5998.8	6031.4	6001.3	5941.1	5865.9	5783.2
32.5°	6089.0	6111.6	6166.7	6246.9	6257.0	6262.0	6252.0	6221.9	6166.7	6066.4
35°	6457.5	6482.6	6545.2	6610.4	6600.4	6610.4	6595.4	6585.4	6545.2	6429.9
37.5°	6908.7	6938.8	7004.0	7054.1	7029.1	7016.5	7019.0	7021.5	6999.0	6871.1
40°	7432.7	7472.8	7520.4	7573.0	7530.4	7492.8	7517.9	7537.9	7517.9	7387.5
42.5°	7971.6	8029.3	8079.4	8154.6	8119.5	8071.9	8107.0	8129.5	8086.9	7946.5
45°	8570.7	8625.9	8691.1	8803.9	8778.8	8728.7	8778.8	8783.8	8711.1	8545.7
47.5°	9189.9	9247.6	9345.3	9495.7	9485.7	9430.6	9495.7	9460.7	9367.9	9169.9
50°	9776.5	9856.7	10007.1	10217.7	10237.8	10170.1	10257.8	10190.1	10034.7	9786.5
52.5°	10328.0	10413.2	10651.4	10937.2	11009.9	10922.1	11039.9	10922.1	10689.0	10370.6
55°	10907.1	11002.3	11285.6	11659.1	11804.5	11739.3	11849.6	11671.6	11340.7	10954.7
57.5°	11588.9	11646.6	11985.0	12428.7	12674.4	12689.4	12739.5	12438.7	12037.6	11599.0
60°	12328.4	12408.6	12777.1	13308.6	13697.1	13822.5	13769.8	13323.6	12857.4	12353.5
62.5°	13276.0	13363.7	13804.9	14441.7	15055.8	15366.7	15161.1	14514.4	13937.8	13333.7
65°	14060.6	14158.4	14955.6	16091.1	17209.2	17833.4	17317.0	16126.2	15088.4	14236.1
67.5°	13491.6	13611.9	14862.8	16948.5	19728.5	21591.0	19823.8	17204.1	15171.1	14015.5
70°	11792.0	11904.8	13363.7	15913.1	20437.9	24519.0	20864.1	16381.9	13411.4	12117.9
72.5°	7828.7	8192.2	9668.7	12727.0	18249.5	22689.0	18430.0	12468.8	8969.3	7811.2
75°	2597.0	2887.8	3895.6	6597.9	12223.1	16968.5	11636.6	5838.3	3085.9	2221.0
77.5°	654.3	754.5	1040.3	1887.6	4875.7	9661.2	4389.4	1541.7	839.8	586.6
80°	318.4	351.0	501.4	629.2	1220.8	3070.8	1145.6	591.6	396.1	305.8
82.5°	175.5	178.0	283.3	356.0	453.7	794.7	471.3	345.9	228.1	185.5
85°	107.8	105.3	150.4	190.5	190.5	283.3	225.6	190.5	130.4	115.3
87.5°	42.6	42.6	55.1	60.2	52.6	72.7	57.7	62.7	50.1	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4783.0
4808.0
4845.6
4890.8
4933.4
4976.0
5043.7
5126.4
5221.7
5316.9
5424.7
5572.6
5783.2
6069.0
6429.9
6871.1
7387.5
7956.6
8563.2
9157.3
9781.5
10340.5
10902.1
11538.8
12273.3
13228.4
14095.7
13842.5
11944.9
7558.0
2100.7
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280.8
185.5
120.3
50.1
0.0

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