

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: P951781

Luminaire Tested: **GALN-SB5D-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951781
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-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48372 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

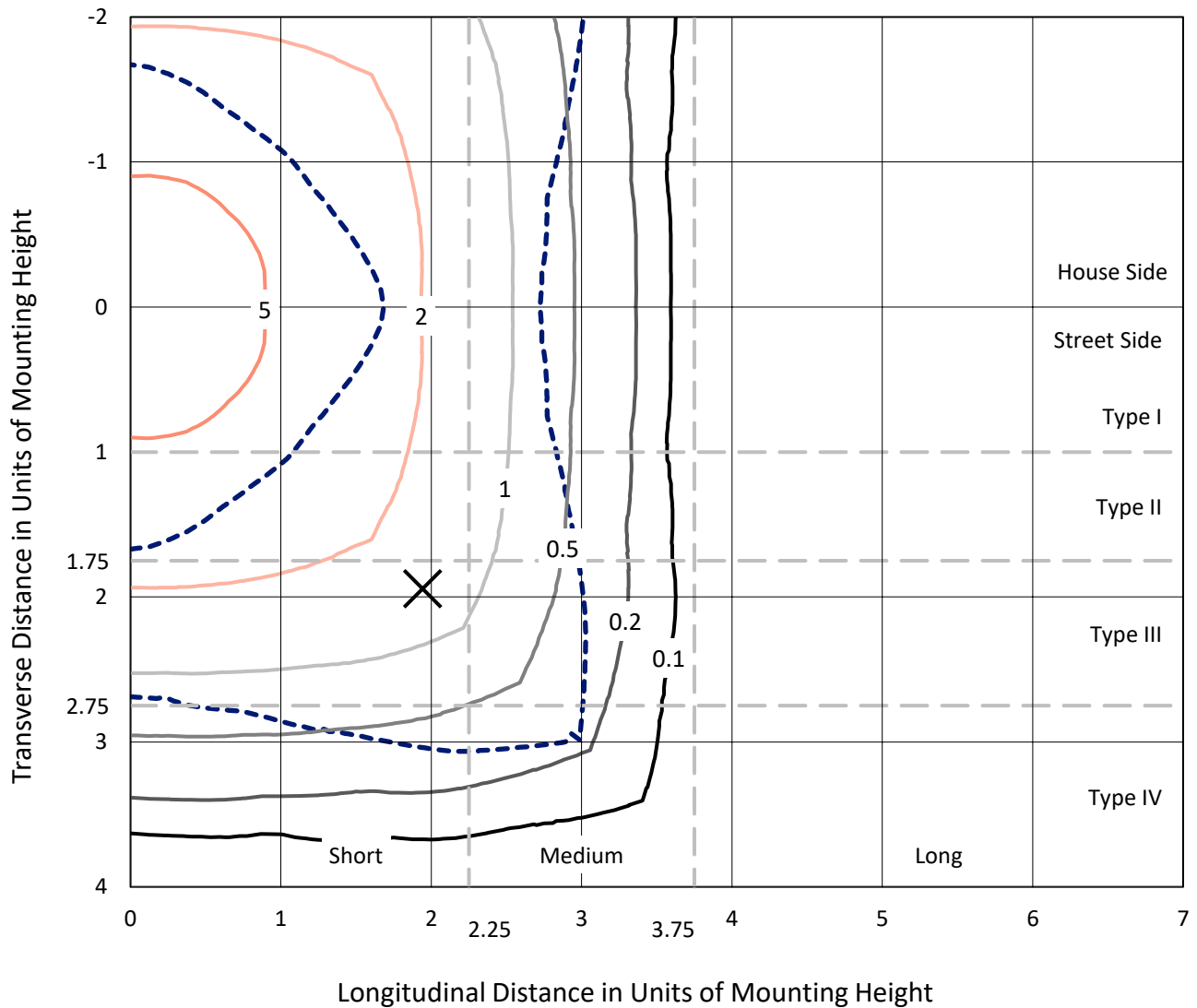
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

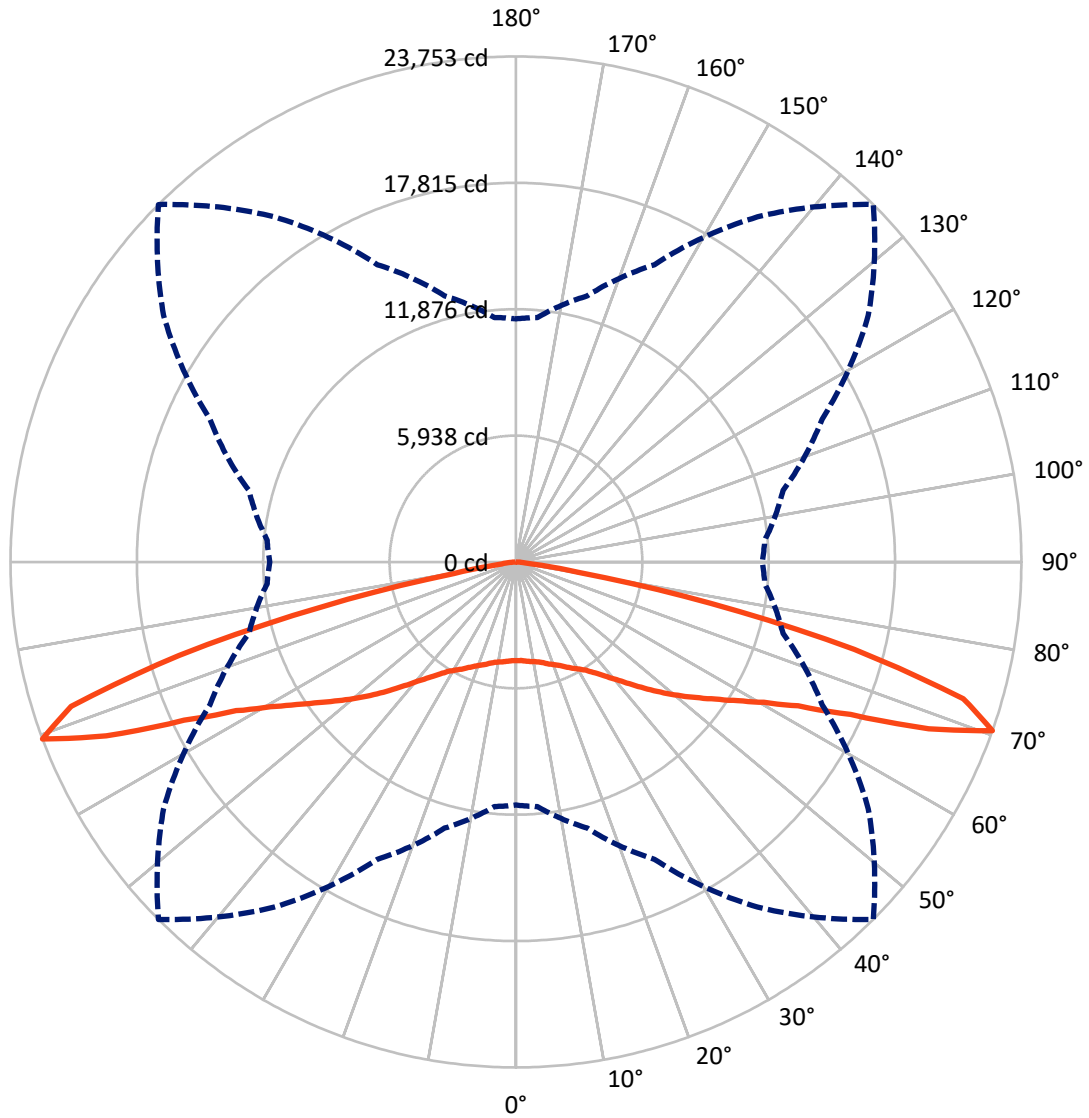
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	24186.0	0.0	24186.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24186.0	0.0	24186.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48372.0	0.0	48372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.1	0.9
10°-20°	1395.9	2.9
20°-30°	2494.6	5.2
30°-40°	4043.7	8.4
40°-50°	6586.5	13.6
50°-60°	10042.1	20.8
60°-70°	14939.4	30.9
70°-80°	8142.5	16.8
80°-90°	277.3	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°	48372.0	100.0
0°-180°	48372.0	100.0

Coefficient of Utilization



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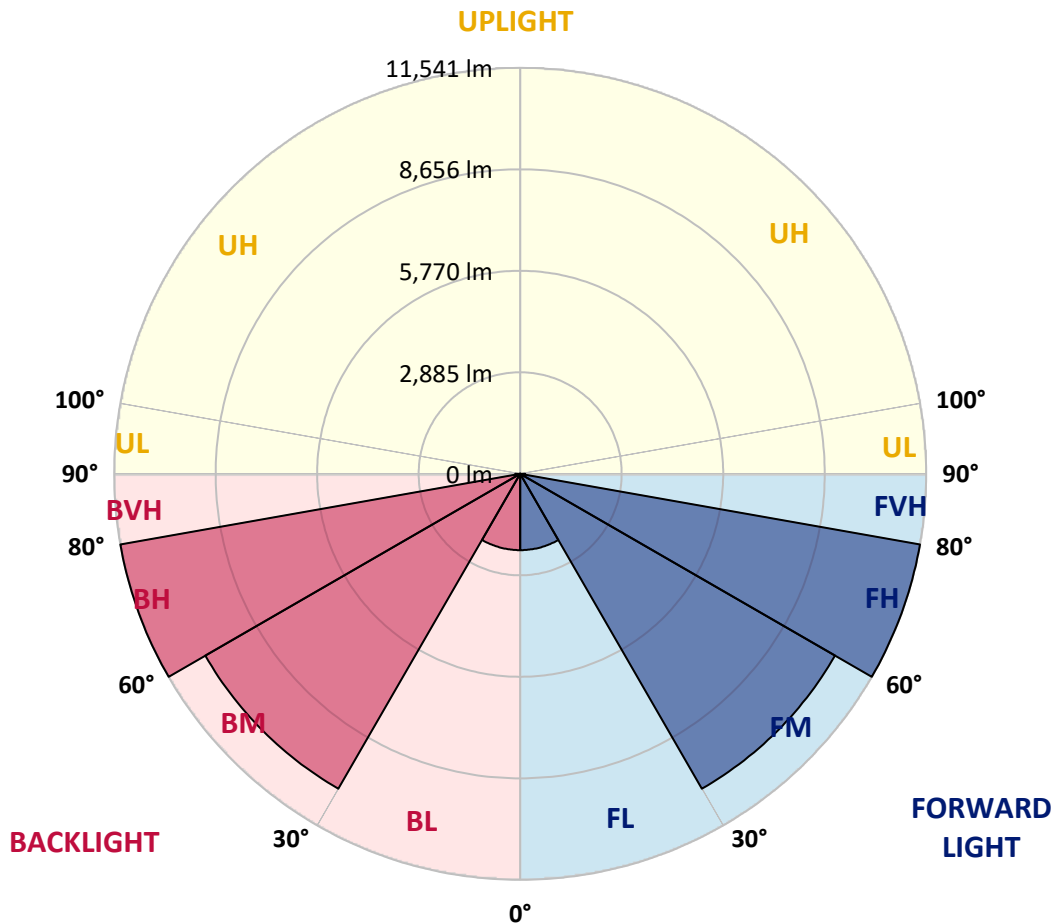
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2170.3	4.5			
FM (30°-60°)	10336.1	21.4			
FH (60°-80°)	11541.0	23.9			G4/12000
FVH (80°-90°)	138.6	0.3			G2/225
BL (0°-30°)	2170.3	4.5	B3/2500		
BM (30°-60°)	10336.1	21.4	B5		
BH (60°-80°)	11541.0	23.9	B5		G4/12000
BVH (80°-90°)	138.6	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°	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5
2.5°	4655.4	4660.3	4650.5	4645.7	4640.8	4633.5	4636.0	4648.1	4657.8	4655.4
5°	4694.2	4699.1	4691.8	4689.4	4679.7	4677.2	4677.2	4689.4	4696.7	4691.8
7.5°	4738.0	4745.2	4733.1	4730.7	4725.8	4721.0	4718.5	4730.7	4738.0	4738.0
10°	4779.2	4786.5	4776.8	4769.5	4764.7	4764.7	4759.8	4769.5	4781.7	4779.2
12.5°	4823.0	4827.8	4818.1	4813.2	4813.2	4820.5	4813.2	4818.1	4827.8	4823.0
15°	4876.4	4878.8	4876.4	4883.7	4895.8	4920.1	4898.2	4893.4	4898.2	4886.1
17.5°	4949.2	4954.1	4963.8	4980.8	4997.8	5041.5	5002.7	4990.5	4990.5	4966.2
20°	5039.1	5046.4	5060.9	5090.1	5111.9	5153.2	5114.4	5097.4	5090.1	5058.5
22.5°	5133.8	5145.9	5167.8	5206.7	5245.5	5284.4	5245.5	5216.4	5194.5	5153.2
25°	5243.1	5257.7	5291.7	5354.8	5408.2	5464.1	5417.9	5359.7	5315.9	5257.7
27.5°	5398.5	5415.5	5456.8	5534.5	5602.5	5651.1	5607.4	5532.1	5471.4	5400.9
30°	5617.1	5634.1	5682.6	5765.2	5811.3	5842.9	5813.8	5755.5	5682.6	5602.5
32.5°	5898.8	5920.6	5974.1	6051.8	6061.5	6066.3	6056.6	6027.5	5974.1	5876.9
35°	6255.8	6280.0	6340.8	6403.9	6394.2	6403.9	6389.3	6379.6	6340.8	6229.0
37.5°	6692.9	6722.0	6785.2	6833.7	6809.5	6797.3	6799.7	6802.2	6780.3	6656.5
40°	7200.4	7239.3	7285.4	7336.4	7295.1	7258.7	7283.0	7302.4	7283.0	7156.7
42.5°	7722.6	7778.4	7827.0	7899.8	7865.8	7819.7	7853.7	7875.6	7834.3	7698.3
45°	8303.0	8356.4	8419.5	8528.8	8504.5	8456.0	8504.5	8509.4	8439.0	8278.7
47.5°	8902.8	8958.7	9053.4	9199.1	9189.4	9135.9	9199.1	9165.1	9075.2	8883.4
50°	9471.1	9548.8	9694.5	9898.5	9917.9	9852.3	9937.3	9871.8	9721.2	9480.8
52.5°	10005.3	10087.9	10318.6	10595.5	10665.9	10580.9	10695.0	10580.9	10355.0	10046.6
55°	10566.3	10658.6	10933.0	11294.9	11435.7	11372.6	11479.4	11307.0	10986.4	10612.5
57.5°	11226.9	11282.7	11610.6	12040.4	12278.4	12293.0	12341.5	12050.1	11661.6	11236.6
60°	11943.3	12021.0	12378.0	12892.8	13269.2	13390.6	13339.6	12907.4	12455.7	11967.5
62.5°	12861.2	12946.2	13373.6	13990.5	14585.4	14886.6	14687.4	14060.9	13502.3	12917.1
65°	13621.3	13716.0	14488.3	15588.4	16671.5	17276.2	16775.9	15622.4	14617.0	13791.3
67.5°	13070.1	13186.6	14398.4	16418.9	19112.1	20916.5	19204.4	16666.6	14697.2	13577.6
70°	11423.6	11532.8	12946.2	15416.0	19799.4	23752.9	20212.2	15870.1	12992.4	11739.3
72.5°	7584.1	7936.3	9366.6	12329.4	17679.3	21980.2	17854.2	12079.3	8689.1	7567.1
75°	2515.9	2797.6	3773.9	6391.8	11841.3	16438.4	11273.0	5655.9	2989.5	2151.6
77.5°	633.8	731.0	1007.8	1828.6	4723.4	9359.4	4252.3	1493.5	813.5	568.3
80°	308.4	340.0	485.7	609.5	1182.7	2974.9	1109.8	573.1	383.7	296.3
82.5°	170.0	172.4	274.4	344.8	439.6	769.8	456.6	335.1	221.0	179.7
85°	104.4	102.0	145.7	184.6	184.6	274.4	218.6	184.6	126.3	111.7
87.5°	41.3	41.3	53.4	58.3	51.0	70.4	55.9	60.7	48.6	46.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4633.5
4657.8
4694.2
4738.0
4779.2
4820.5
4886.1
4966.2
5058.5
5150.8
5255.2
5398.5
5602.5
5879.3
6229.0
6656.5
7156.7
7708.0
8295.7
8871.2
9475.9
10017.5
10561.5
11178.3
11889.8
12815.1
13655.3
13410.1
11571.7
7321.9
2035.1
507.6
272.0
179.7
116.6
48.6
0.0

OF REPORT)