

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: P942730

Luminaire Tested: **GALN-SB6D-850-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59704 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

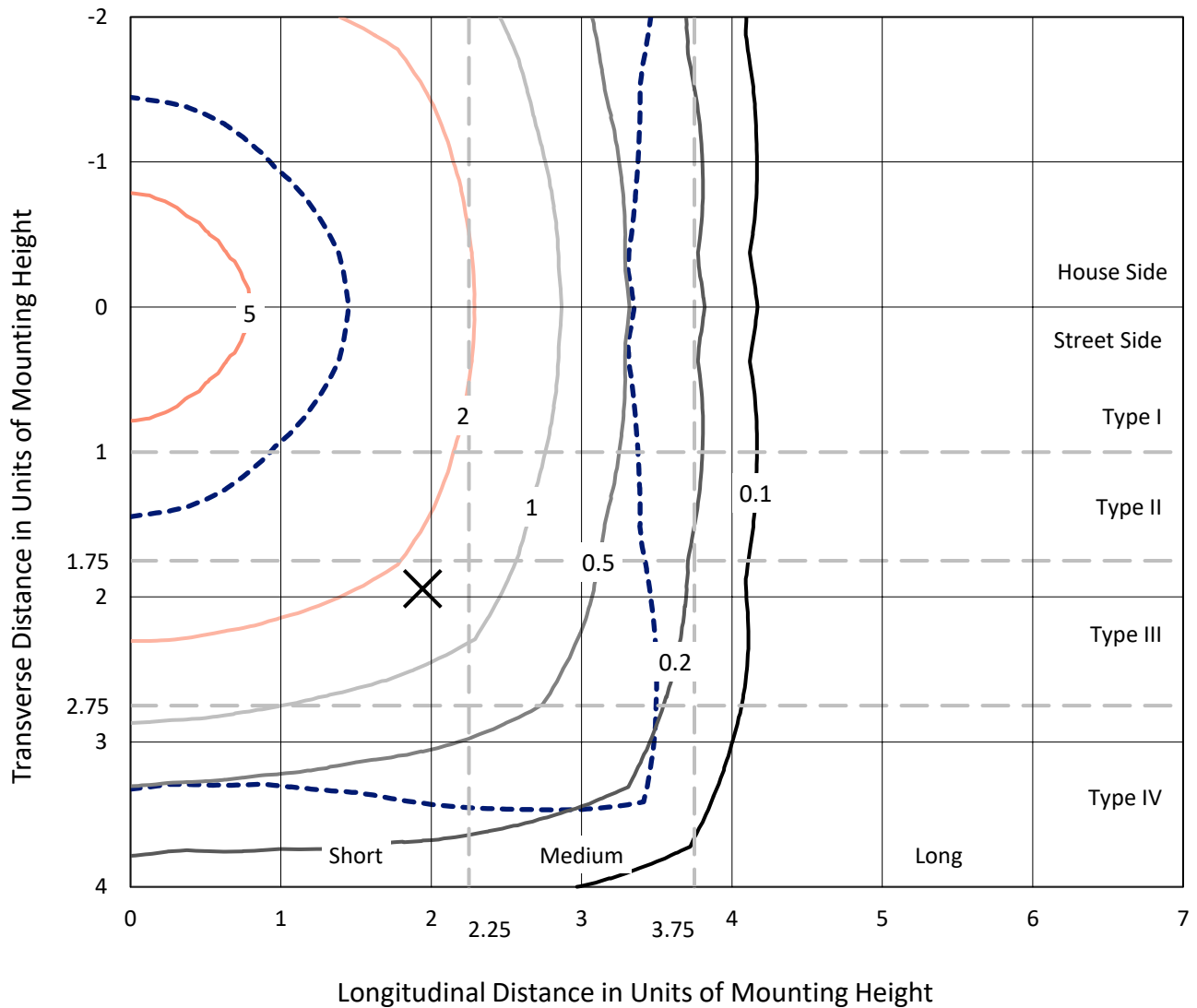
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

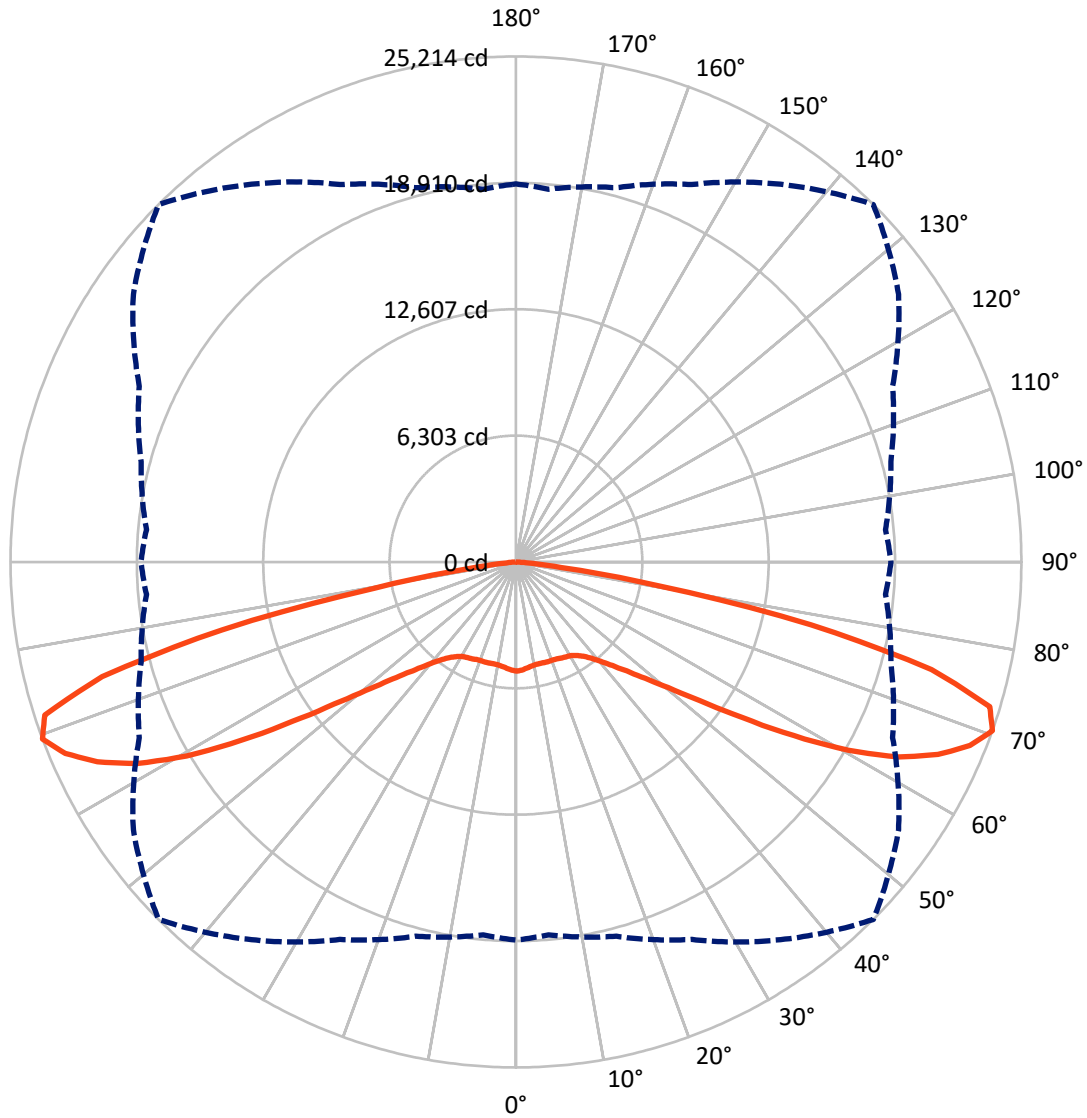
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	29852.0	0.0	29852.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29852.0	0.0	29852.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	59704.0	0.0	59704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.6	0.8
10°-20°	1487.6	2.5
20°-30°	2475.5	4.1
30°-40°	3743.8	6.3
40°-50°	6221.3	10.4
50°-60°	11739.3	19.7
60°-70°	19822.3	33.2
70°-80°	13025.3	21.8
80°-90°	682.4	1.1
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°	59704.0	100.0
0°-180°	59704.0	100.0

Coefficient of Utilization



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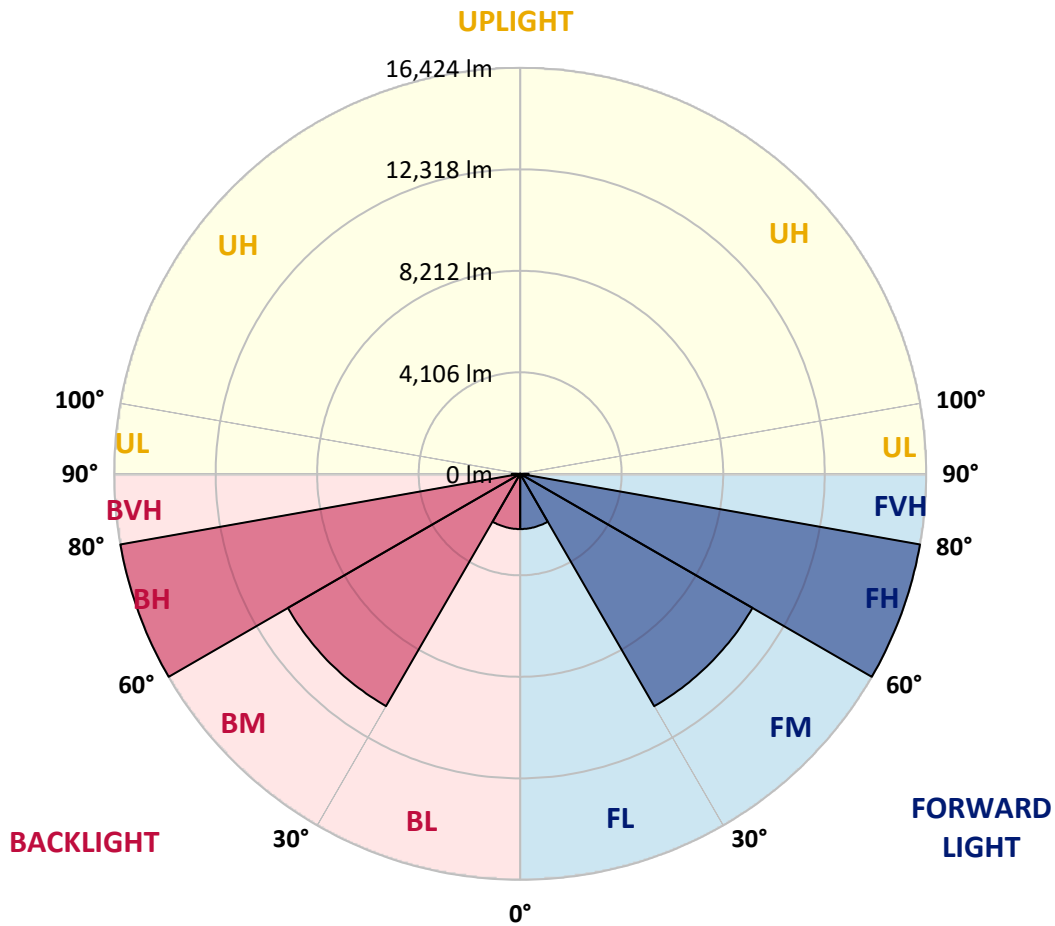
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2234.9	3.7			
FM (30°-60°)	10852.2	18.2			
FH (60°-80°)	16423.8	27.5			G5
FVH (80°-90°)	341.2	0.6			G3/500
BL (0°-30°)	2234.9	3.7	B3/2500		
BM (30°-60°)	10852.2	18.2	B5		
BH (60°-80°)	16423.8	27.5	B5		G5
BVH (80°-90°)	341.2	0.6			G3/500
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°	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2
2.5°	5412.1	5427.6	5421.4	5409.0	5409.0	5399.7	5409.0	5415.2	5424.5	5430.7
5°	5340.7	5353.1	5350.0	5340.7	5343.8	5334.5	5340.7	5350.0	5356.2	5359.3
7.5°	5278.6	5291.0	5284.8	5269.3	5269.3	5260.0	5263.1	5272.4	5281.7	5284.8
10°	5263.1	5275.5	5256.9	5232.1	5222.8	5210.4	5213.5	5222.8	5241.4	5250.7
12.5°	5269.3	5278.6	5260.0	5222.8	5213.5	5201.0	5201.0	5210.4	5235.2	5247.6
15°	5287.9	5297.3	5269.3	5229.0	5219.7	5210.4	5207.3	5219.7	5247.6	5269.3
17.5°	5322.1	5331.4	5287.9	5232.1	5219.7	5222.8	5219.7	5229.0	5272.4	5312.8
20°	5353.1	5359.3	5300.4	5232.1	5219.7	5222.8	5219.7	5238.3	5294.1	5350.0
22.5°	5362.4	5368.6	5312.8	5253.8	5244.5	5247.6	5244.5	5263.1	5315.9	5371.7
25°	5365.5	5374.8	5331.4	5284.8	5300.4	5306.6	5300.4	5303.5	5343.8	5393.5
27.5°	5412.1	5424.5	5384.1	5343.8	5353.1	5350.0	5359.3	5368.6	5399.7	5449.3
30°	5508.3	5517.6	5483.4	5443.1	5436.9	5415.2	5443.1	5474.1	5508.3	5551.7
32.5°	5666.5	5685.2	5641.7	5598.3	5570.3	5557.9	5579.6	5632.4	5679.0	5725.5
35°	5930.3	5942.7	5902.4	5821.7	5772.0	5772.0	5790.7	5858.9	5933.4	5992.4
37.5°	6302.7	6318.2	6246.8	6150.6	6076.2	6076.2	6101.0	6172.4	6284.1	6367.9
40°	6755.8	6777.5	6687.5	6588.2	6516.8	6504.4	6535.4	6616.1	6721.6	6827.2
42.5°	7302.0	7326.8	7208.9	7122.0	7066.1	7066.1	7081.6	7156.1	7252.3	7382.6
45°	8000.2	8043.6	7882.3	7795.4	7742.6	7755.0	7764.3	7829.5	7916.4	8065.4
47.5°	8831.9	8875.3	8704.6	8614.6	8605.3	8664.3	8627.0	8673.6	8720.1	8890.8
50°	9775.2	9849.7	9731.8	9725.6	9744.2	9852.8	9765.9	9790.8	9738.0	9846.6
52.5°	10929.7	11038.3	11016.5	11053.8	11261.7	11485.1	11286.5	11199.6	11001.0	11035.2
55°	12329.2	12493.7	12524.7	12748.2	13219.9	13676.0	13254.0	12903.3	12481.3	12403.7
57.5°	13921.2	14051.5	14200.5	14656.7	15538.0	16347.9	15538.0	14762.2	14098.1	13939.8
60°	15634.2	15795.6	15938.3	16611.7	17921.3	19060.2	17896.5	16664.5	15786.2	15572.1
62.5°	17474.4	17682.3	17781.6	18529.5	20056.3	21415.5	20078.0	18585.4	17611.0	17381.3
65°	19240.2	19410.8	19522.6	20320.1	21778.6	23140.9	21877.9	20407.0	19404.6	19103.6
67.5°	20062.5	20155.6	20428.7	21331.8	22871.0	24425.7	23131.6	21428.0	20307.7	19780.1
70°	18858.5	18669.2	19327.1	20773.2	23001.3	25213.9	23299.2	20729.7	19358.1	18501.6
72.5°	14572.9	14247.0	15389.0	17862.3	21511.7	24711.2	21660.7	18002.0	16099.7	14361.8
75°	7928.8	7559.5	9136.0	12264.1	17154.8	21418.6	17548.9	12614.7	10172.5	7869.8
77.5°	2237.4	2097.8	3370.1	5933.4	10318.3	15038.4	10715.5	6063.8	3997.0	2370.9
80°	685.8	664.1	899.9	1787.5	4381.8	7202.6	4211.1	1809.2	1145.1	723.1
82.5°	406.5	372.4	446.9	651.7	1117.2	2262.3	1086.1	679.6	546.2	366.2
85°	232.7	217.2	263.8	316.5	375.5	481.0	313.4	322.7	291.7	195.5
87.5°	96.2	86.9	102.4	99.3	86.9	111.7	83.8	99.3	117.9	77.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5446.2
5427.6
5359.3
5284.8
5250.7
5250.7
5272.4
5312.8
5353.1
5371.7
5390.3
5436.9
5542.4
5706.9
5970.7
6336.8
6793.0
7373.3
8059.1
8841.2
9781.4
10920.3
12282.7
13828.1
15385.9
17195.1
18954.7
19786.3
18706.4
14793.2
8381.9
2634.7
763.4
397.2
204.8
71.4
0.0

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