

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: P942050

Luminaire Tested: **GALN-SB5D-850-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942050
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-SB5D-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 49734 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

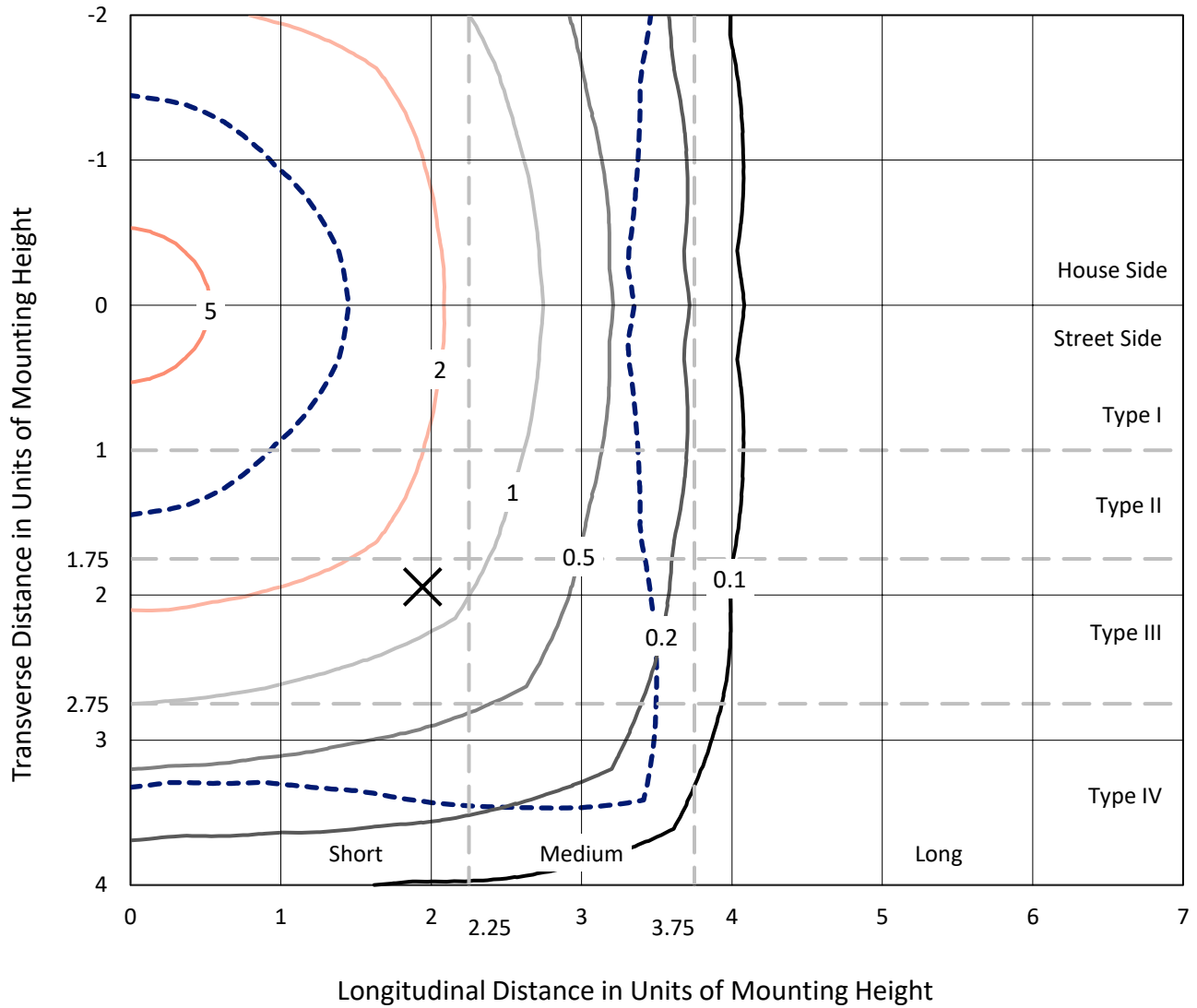
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942050
 CATALOG NUMBER: GALN-SB5D-850-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

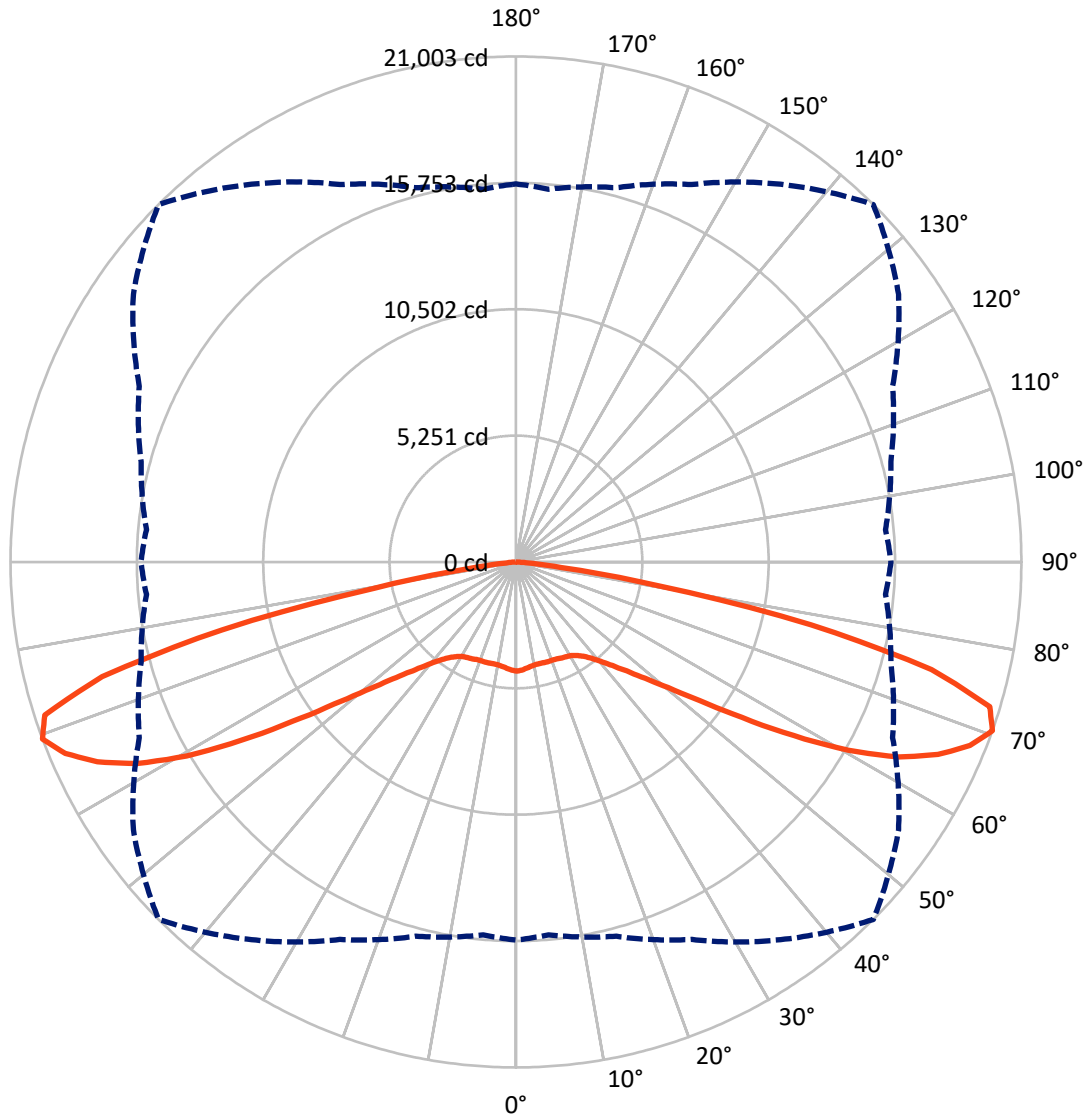
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

REPORT NUMBER: P942050
CATALOG NUMBER: GALN-SB5D-850-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P942050

CATALOG NUMBER: GALN-SB5D-850-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24867.0	0.0	24867.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24867.0	0.0	24867.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49734.0	0.0	49734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.0	0.8
10°-20°	1239.2	2.5
20°-30°	2062.1	4.1
30°-40°	3118.6	6.3
40°-50°	5182.4	10.4
50°-60°	9778.9	19.7
60°-70°	16512.1	33.2
70°-80°	10850.2	21.8
80°-90°	568.4	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°	49734.0	100.0
0°-180°	49734.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942050

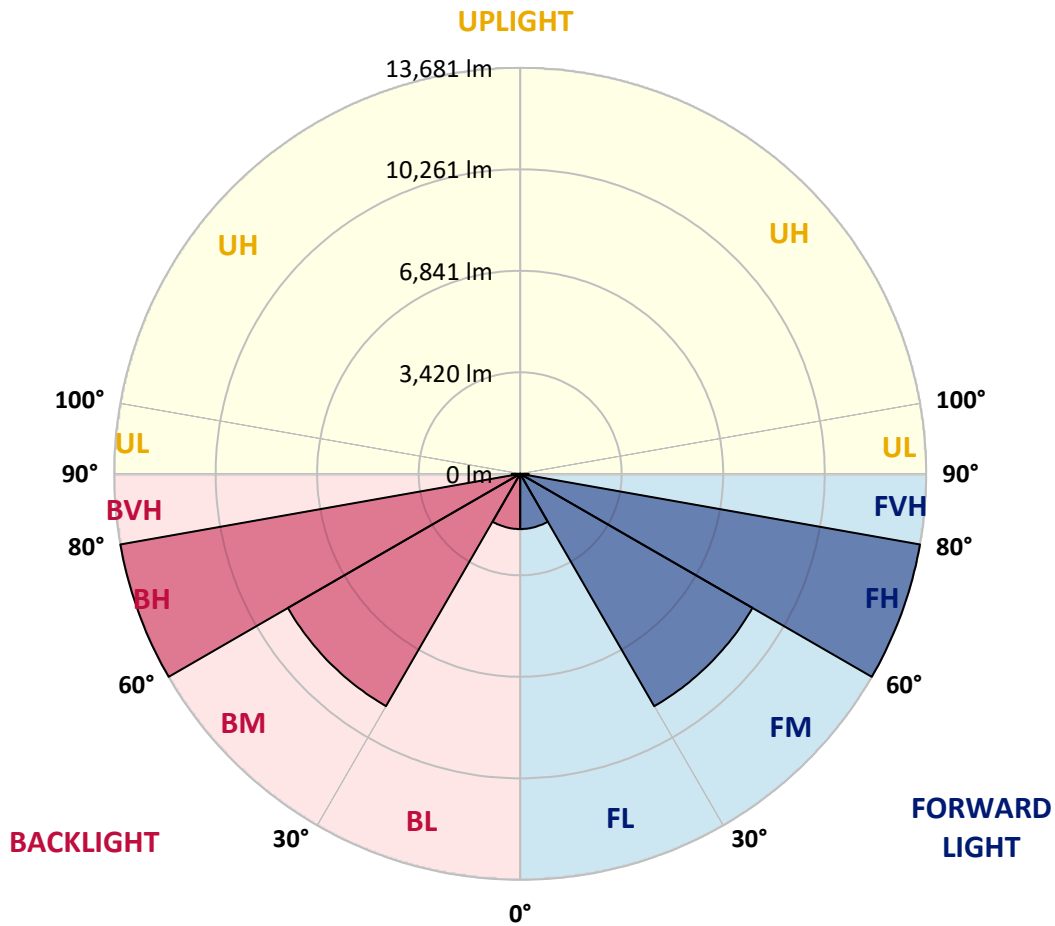
CATALOG NUMBER: GALN-SB5D-850-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1861.7	3.7			
FM (30°-60°)	9039.9	18.2			
FH (60°-80°)	13681.2	27.5			G5
FVH (80°-90°)	284.2	0.6			G3/500
BL (0°-30°)	1861.7	3.7	B3/2500		
BM (30°-60°)	9039.9	18.2	B5		
BH (60°-80°)	13681.2	27.5	B5		G5
BVH (80°-90°)	284.2	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



REPORT NUMBER: P942050

CATALOG NUMBER: GALN-SB5D-850-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4536.7	4536.7	4536.7	4536.7	4536.7	4536.7	4536.7	4536.7	4536.7	4536.7
2.5°	4508.3	4521.2	4516.1	4505.7	4505.7	4498.0	4505.7	4510.9	4518.6	4523.8
5°	4448.9	4459.2	4456.6	4448.9	4451.4	4443.7	4448.9	4456.6	4461.8	4464.4
7.5°	4397.2	4407.5	4402.3	4389.4	4389.4	4381.6	4384.2	4392.0	4399.7	4402.3
10°	4384.2	4394.6	4379.1	4358.4	4350.6	4340.3	4342.9	4350.6	4366.1	4373.9
12.5°	4389.4	4397.2	4381.6	4350.6	4342.9	4332.5	4332.5	4340.3	4361.0	4371.3
15°	4404.9	4412.7	4389.4	4355.8	4348.0	4340.3	4337.7	4348.0	4371.3	4389.4
17.5°	4433.3	4441.1	4404.9	4358.4	4348.0	4350.6	4348.0	4355.8	4392.0	4425.6
20°	4459.2	4464.4	4415.2	4358.4	4348.0	4350.6	4348.0	4363.5	4410.1	4456.6
22.5°	4466.9	4472.1	4425.6	4376.5	4368.7	4371.3	4368.7	4384.2	4428.2	4474.7
25°	4469.5	4477.3	4441.1	4402.3	4415.2	4420.4	4415.2	4417.8	4451.4	4492.8
27.5°	4508.3	4518.6	4485.0	4451.4	4459.2	4456.6	4464.4	4472.1	4498.0	4539.3
30°	4588.4	4596.2	4567.8	4534.2	4529.0	4510.9	4534.2	4560.0	4588.4	4624.6
32.5°	4720.3	4735.8	4699.6	4663.4	4640.1	4629.8	4647.9	4691.8	4730.6	4769.4
35°	4940.0	4950.3	4916.7	4849.5	4808.2	4808.2	4823.7	4880.6	4942.6	4991.7
37.5°	5250.2	5263.1	5203.7	5123.5	5061.5	5061.5	5082.2	5141.6	5234.7	5304.5
40°	5627.6	5645.7	5570.8	5488.0	5428.6	5418.2	5444.1	5511.3	5599.2	5687.1
42.5°	6082.6	6103.3	6005.0	5932.7	5886.1	5886.1	5899.1	5961.1	6041.2	6149.8
45°	6664.2	6700.4	6566.0	6493.6	6449.7	6460.0	6467.8	6522.1	6594.4	6718.5
47.5°	7357.0	7393.2	7251.0	7176.1	7168.3	7217.4	7186.4	7225.2	7264.0	7406.1
50°	8142.9	8204.9	8106.7	8101.5	8117.0	8207.5	8135.1	8155.8	8111.9	8202.3
52.5°	9104.5	9195.0	9176.9	9207.9	9381.1	9567.2	9401.8	9329.4	9164.0	9192.4
55°	10270.4	10407.4	10433.2	10619.3	11012.3	11392.3	11040.7	10748.6	10397.0	10332.4
57.5°	11596.5	11705.1	11829.1	12209.1	12943.3	13618.0	12943.3	12297.0	11743.8	11612.0
60°	13023.4	13157.8	13276.8	13837.7	14928.6	15877.3	14907.9	13881.7	13150.1	12971.7
62.5°	14556.4	14729.5	14812.3	15435.3	16707.1	17839.3	16725.2	15481.8	14670.1	14478.8
65°	16027.2	16169.4	16262.5	16926.8	18141.8	19276.6	18224.5	16999.2	16164.2	15913.5
67.5°	16712.3	16789.8	17017.3	17769.6	19051.7	20346.8	19268.9	17849.7	16916.5	16477.0
70°	15709.3	15551.6	16099.6	17304.2	19160.3	21003.4	19408.5	17268.1	16125.5	15412.0
72.5°	12139.3	11867.9	12819.2	14879.5	17919.5	20584.7	18043.6	14995.8	13411.2	11963.6
75°	6604.8	6297.2	7610.4	10216.1	14290.1	17841.9	14618.4	10508.2	8473.8	6555.7
77.5°	1863.8	1747.5	2807.4	4942.6	8595.3	12527.1	8926.1	5051.2	3329.5	1975.0
80°	571.3	553.2	749.7	1489.0	3650.1	5999.9	3507.9	1507.1	953.9	602.3
82.5°	338.6	310.2	372.2	542.9	930.6	1884.5	904.8	566.1	455.0	305.0
85°	193.9	181.0	219.7	263.7	312.8	400.7	261.1	268.8	243.0	162.9
87.5°	80.1	72.4	85.3	82.7	72.4	93.1	69.8	82.7	98.2	64.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4536.7
4521.2
4464.4
4402.3
4373.9
4373.9
4392.0
4425.6
4459.2
4474.7
4490.2
4529.0
4616.9
4753.9
4973.6
5278.6
5658.6
6142.1
6713.3
7364.8
8148.0
9096.7
10231.6
11518.9
12816.6
14323.7
15789.4
16482.2
15582.6
12322.9
6982.2
2194.7
635.9
330.9
170.6
59.5
0.0

OF REPORT)