

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: P950417

Luminaire Tested: **GALN-SB4D-850-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-850-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40878 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

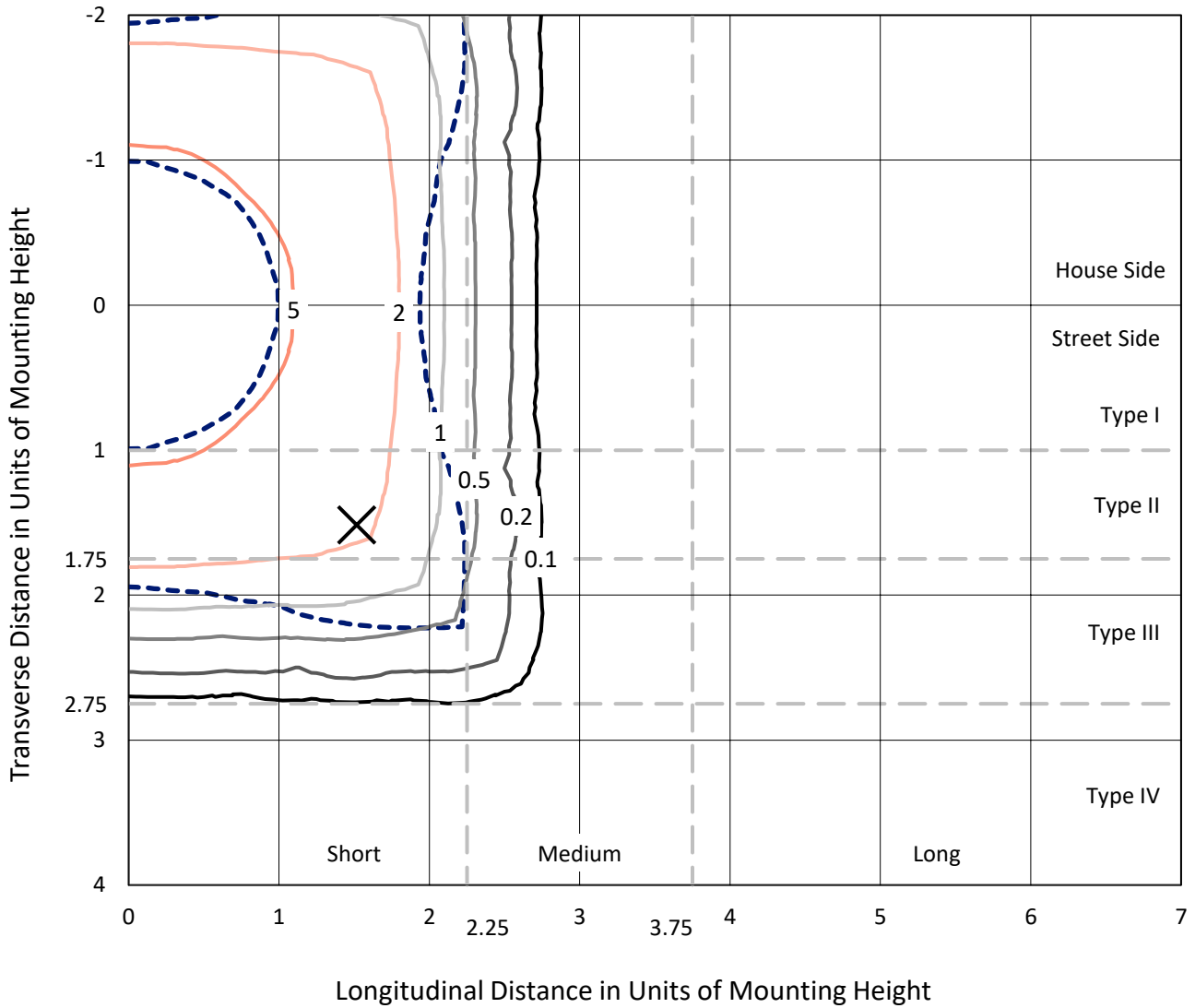
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950417
 CATALOG NUMBER: GALN-SB4D-850-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

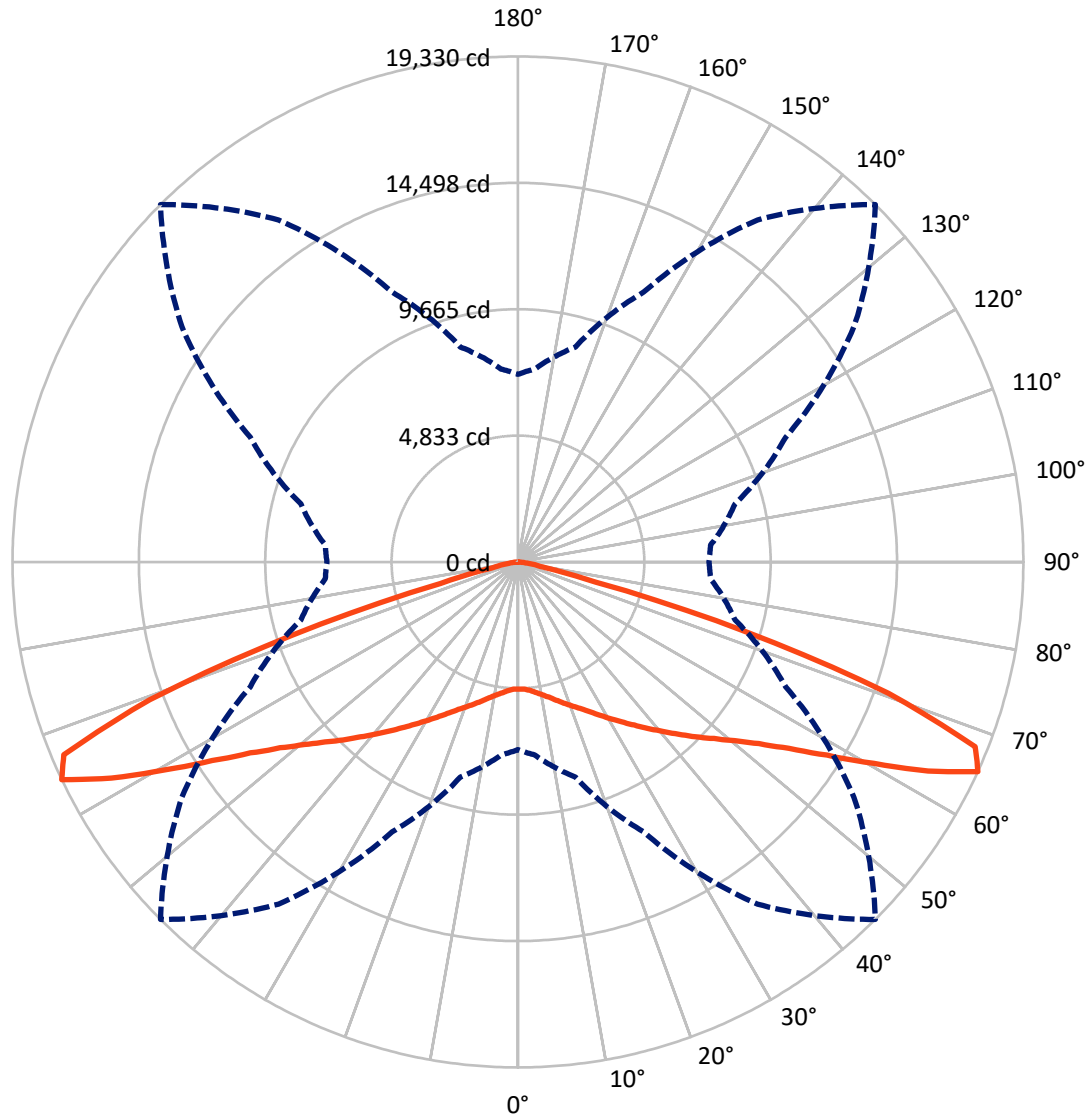
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

REPORT NUMBER: P950417
CATALOG NUMBER: GALN-SB4D-850-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P950417

CATALOG NUMBER: GALN-SB4D-850-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20439.0	0.0	20439.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20439.0	0.0	20439.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40878.0	0.0	40878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.1	1.2
10°-20°	1566.7	3.8
20°-30°	2958.0	7.2
30°-40°	4843.7	11.8
40°-50°	7510.2	18.4
50°-60°	11094.1	27.1
60°-70°	10560.5	25.8
70°-80°	1704.1	4.2
80°-90°	160.6	0.4
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°	40878.0	100.0
0°-180°	40878.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950417

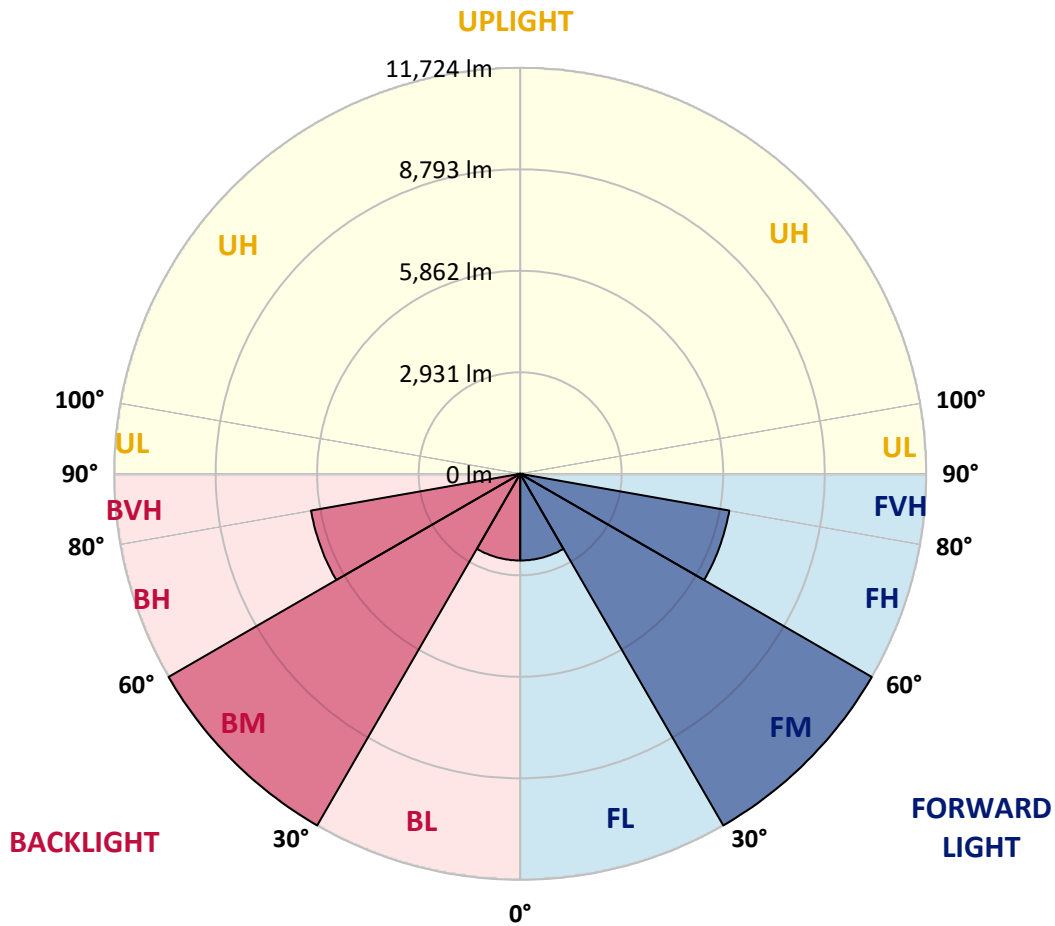
CATALOG NUMBER: GALN-SB4D-850-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2502.4	6.1			
FM (30°-60°)	11724.0	28.7			
FH (60°-80°)	6132.3	15.0			G3/7500
FVH (80°-90°)	80.3	0.2			G1/100
BL (0°-30°)	2502.4	6.1	B4/5000		
BM (30°-60°)	11724.0	28.7	B5		
BH (60°-80°)	6132.3	15.0	B5		G3/7500
BVH (80°-90°)	80.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P950417
 CATALOG NUMBER: GALN-SB4D-850-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9
2.5°	4897.7	4881.3	4893.6	4883.3	4875.1	4866.9	4871.0	4885.4	4891.6	4893.6
5°	4963.3	4949.0	4955.1	4955.1	4940.8	4936.7	4938.7	4949.0	4961.3	4961.3
7.5°	5070.0	5055.6	5070.0	5061.8	5049.5	5045.4	5043.3	5051.5	5070.0	5070.0
10°	5199.2	5182.8	5191.0	5186.9	5172.5	5166.4	5164.3	5176.6	5193.0	5191.0
12.5°	5340.7	5322.3	5332.5	5320.2	5316.1	5310.0	5310.0	5307.9	5318.2	5310.0
15°	5498.6	5486.3	5490.4	5482.2	5488.4	5484.3	5467.9	5459.7	5463.8	5451.5
17.5°	5685.3	5656.6	5670.9	5666.8	5666.8	5675.0	5648.4	5638.1	5646.3	5634.0
20°	5900.6	5871.9	5878.1	5869.9	5859.6	5867.8	5835.0	5843.2	5849.4	5841.2
22.5°	6136.5	6099.6	6097.5	6101.6	6079.1	6081.1	6058.6	6079.1	6091.4	6068.8
25°	6378.5	6339.5	6366.2	6355.9	6327.2	6333.4	6317.0	6337.5	6347.7	6319.0
27.5°	6634.9	6608.2	6632.8	6639.0	6604.1	6628.7	6604.1	6622.6	6632.8	6589.8
30°	6934.3	6907.7	6930.2	6946.6	6905.6	6944.6	6924.1	6936.4	6938.4	6887.1
32.5°	7260.4	7219.4	7276.8	7285.0	7239.9	7287.1	7260.4	7276.8	7287.1	7217.3
35°	7658.3	7607.0	7672.7	7662.4	7623.4	7662.4	7637.8	7662.4	7687.0	7602.9
37.5°	8087.0	8033.6	8103.4	8084.9	8048.0	8074.7	8060.3	8076.7	8115.7	8025.4
40°	8558.7	8493.0	8587.4	8554.6	8519.7	8515.6	8523.8	8534.1	8585.3	8484.8
42.5°	9063.2	8993.5	9135.0	9083.7	9034.5	9001.7	9028.4	9048.9	9098.1	8985.3
45°	9639.5	9559.6	9744.1	9682.6	9604.7	9537.0	9580.1	9610.8	9682.6	9547.2
47.5°	10275.3	10185.1	10382.0	10363.5	10236.4	10088.7	10187.1	10275.3	10328.7	10164.6
50°	10896.8	10827.0	11085.5	11108.0	10952.2	10745.0	10882.4	11015.7	11030.1	10814.7
52.5°	11479.3	11409.5	11784.8	11926.4	11786.9	11540.8	11686.4	11821.8	11713.1	11434.1
55°	11944.8	11887.4	12365.3	12730.3	12777.5	12574.5	12660.6	12656.5	12299.6	11871.0
57.5°	12057.6	12049.4	12652.4	13425.6	13917.9	13942.5	13772.2	13337.4	12568.3	11992.0
60°	11544.9	11596.2	12424.8	13788.6	15101.3	15646.8	14910.5	13669.7	12262.7	11462.8
62.5°	10010.8	10146.1	11144.9	13345.6	16057.0	17607.5	15823.2	13165.1	11007.5	9963.6
65°	7174.3	7410.1	8513.6	11389.0	15970.9	19330.4	15691.9	11296.7	8595.6	7391.7
67.5°	3254.9	3494.8	4432.1	7797.8	13883.0	18862.7	13850.2	7879.8	4653.6	3507.2
70°	1179.3	1220.3	1521.8	3121.6	8872.5	15029.5	9251.9	3144.1	1618.2	1300.3
72.5°	713.7	719.9	783.5	1117.8	3082.6	9124.7	3213.9	1154.7	799.9	709.6
75°	453.3	449.2	557.9	683.0	1093.2	3078.5	1146.5	683.0	555.8	506.6
77.5°	326.1	336.4	399.9	510.7	689.1	1043.9	676.8	488.1	399.9	328.2
80°	244.1	250.2	291.2	397.9	484.0	650.2	430.7	361.0	301.5	205.1
82.5°	176.4	176.4	190.7	289.2	295.3	350.7	233.8	254.3	198.9	145.6
85°	104.6	102.5	119.0	172.3	153.8	129.2	106.7	155.9	125.1	90.2
87.5°	36.9	39.0	36.9	49.2	41.0	34.9	32.8	43.1	34.9	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4864.9
4893.6
4961.3
5063.8
5186.9
5314.1
5453.5
5644.3
5859.6
6091.4
6351.8
6622.6
6917.9
7264.5
7654.2
8080.8
8517.7
9044.8
9617.0
10220.0
10841.4
11442.3
11885.3
11955.1
11368.5
9902.1
7303.5
3455.9
1283.9
721.9
510.7
334.3
211.2
145.6
88.2
28.7
0.0

OF REPORT)