

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: P950333

Luminaire Tested: **GALN-SB4D-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950333
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-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37162 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

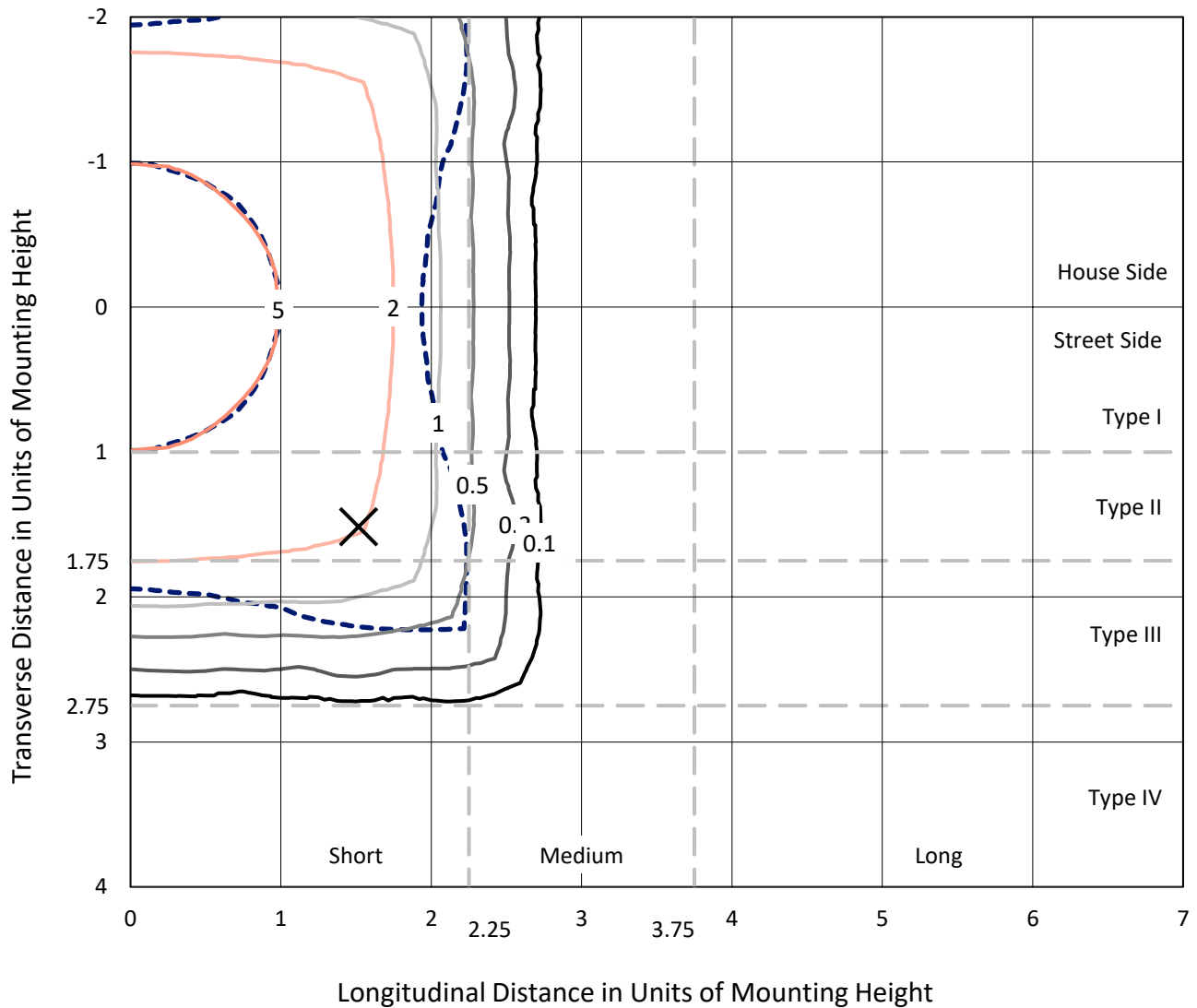
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950333
 CATALOG NUMBER: GALN-SB4D-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

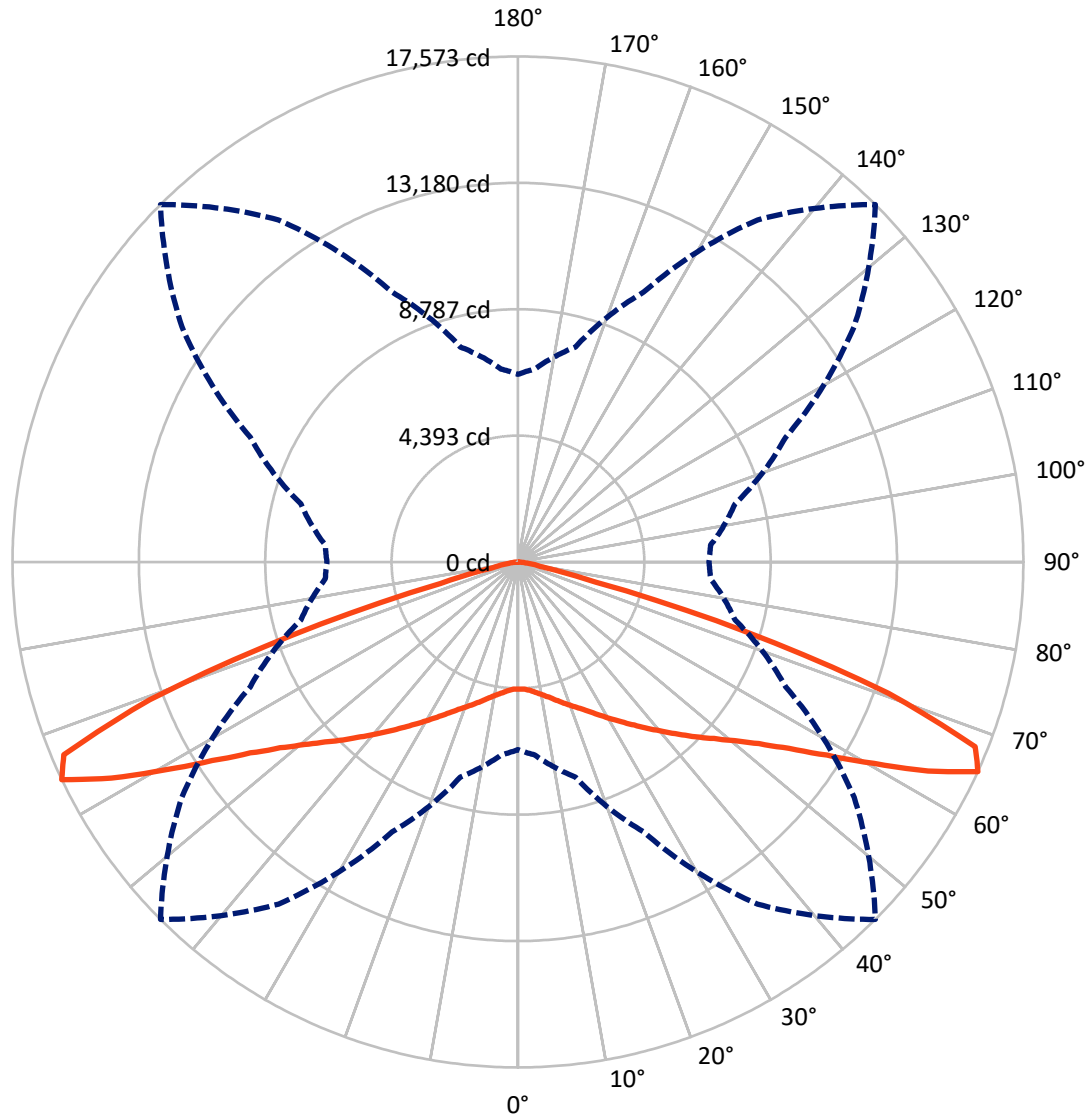
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

REPORT NUMBER: P950333
CATALOG NUMBER: GALN-SB4D-827-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P950333

CATALOG NUMBER: GALN-SB4D-827-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18581.0	0.0	18581.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18581.0	0.0	18581.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37162.0	0.0	37162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.5	1.2
10°-20°	1424.2	3.8
20°-30°	2689.1	7.2
30°-40°	4403.4	11.8
40°-50°	6827.5	18.4
50°-60°	10085.6	27.1
60°-70°	9600.5	25.8
70°-80°	1549.2	4.2
80°-90°	146.0	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°	37162.0	100.0
0°-180°	37162.0	100.0

Coefficient of Utilization



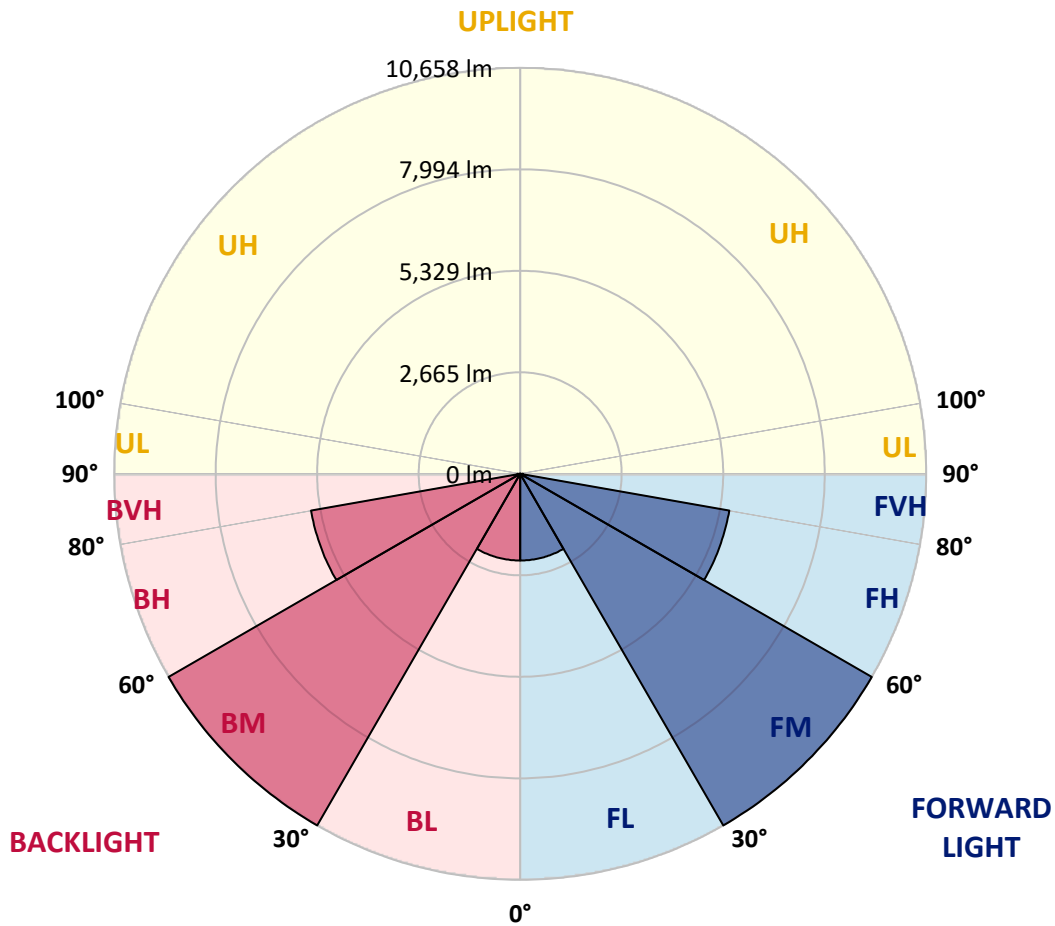
REPORT NUMBER: P950333
 CATALOG NUMBER: GALN-SB4D-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2274.9	6.1			
FM (30°-60°)	10658.2	28.7			
FH (60°-80°)	5574.9	15.0			G3/7500
FVH (80°-90°)	73.0	0.2			G1/100
BL (0°-30°)	2274.9	6.1	B3/2500		
BM (30°-60°)	10658.2	28.7	B5		
BH (60°-80°)	5574.9	15.0	B5		G3/7500
BVH (80°-90°)	73.0	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: P950333

CATALOG NUMBER: GALN-SB4D-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4422.6	4422.6	4422.6	4422.6	4422.6	4422.6	4422.6	4422.6	4422.6	4422.6
2.5°	4452.5	4437.6	4448.8	4439.4	4432.0	4424.5	4428.2	4441.3	4446.9	4448.8
5°	4512.1	4499.1	4504.7	4504.7	4491.6	4487.9	4489.8	4499.1	4510.3	4510.3
7.5°	4609.1	4596.1	4609.1	4601.6	4590.5	4586.7	4584.9	4592.3	4609.1	4609.1
10°	4726.6	4711.7	4719.1	4715.4	4702.3	4696.7	4694.9	4706.1	4721.0	4719.1
12.5°	4855.2	4838.4	4847.8	4836.6	4832.8	4827.3	4827.3	4825.4	4834.7	4827.3
15°	4998.8	4987.6	4991.3	4983.9	4989.5	4985.7	4970.8	4963.4	4967.1	4955.9
17.5°	5168.5	5142.4	5155.4	5151.7	5151.7	5159.1	5134.9	5125.6	5133.0	5121.8
20°	5364.2	5338.1	5343.7	5336.3	5326.9	5334.4	5304.6	5312.0	5317.6	5310.2
22.5°	5578.7	5545.1	5543.2	5547.0	5526.4	5528.3	5507.8	5526.4	5537.6	5517.1
25°	5798.7	5763.2	5787.5	5778.2	5752.1	5757.6	5742.7	5761.4	5770.7	5744.6
27.5°	6031.7	6007.5	6029.9	6035.5	6003.8	6026.1	6003.8	6020.5	6029.9	5990.7
30°	6304.0	6279.7	6300.2	6315.1	6277.9	6313.3	6294.6	6305.8	6307.7	6261.1
32.5°	6600.4	6563.1	6615.3	6622.8	6581.8	6624.7	6600.4	6615.3	6624.7	6561.3
35°	6962.1	6915.5	6975.2	6965.9	6930.4	6965.9	6943.5	6965.9	6988.2	6911.8
37.5°	7351.8	7303.3	7366.7	7350.0	7316.4	7340.6	7327.6	7342.5	7377.9	7295.9
40°	7780.7	7721.0	7806.8	7776.9	7745.2	7741.5	7749.0	7758.3	7804.9	7713.5
42.5°	8239.3	8175.9	8304.6	8258.0	8213.2	8183.4	8207.6	8226.3	8271.0	8168.5
45°	8763.3	8690.5	8858.4	8802.4	8731.6	8670.0	8709.2	8737.2	8802.4	8679.4
47.5°	9341.3	9259.2	9438.2	9421.4	9305.8	9171.6	9261.1	9341.3	9389.7	9240.6
50°	9906.2	9842.8	10077.7	10098.3	9956.6	9768.2	9893.2	10014.4	10027.4	9831.6
52.5°	10435.7	10372.3	10713.6	10842.2	10715.4	10491.7	10624.1	10747.1	10648.3	10394.7
55°	10859.0	10806.8	11241.2	11573.1	11616.0	11431.4	11509.7	11506.0	11181.5	10791.9
57.5°	10961.5	10954.1	11502.2	12205.2	12652.7	12675.0	12520.3	12125.0	11425.8	10901.9
60°	10495.4	10542.0	11295.3	12535.2	13728.5	14224.4	13555.1	12427.0	11148.0	10420.8
62.5°	9100.7	9223.8	10131.8	12132.5	14597.4	16006.9	14384.8	11968.4	10006.9	9057.9
65°	6522.1	6736.5	7739.6	10353.7	14519.0	17573.1	14265.5	10269.8	7814.2	6719.7
67.5°	2959.0	3177.1	4029.2	7088.9	12621.0	17148.0	12591.1	7163.5	4230.6	3188.3
70°	1072.1	1109.4	1383.5	2837.8	8065.9	13663.2	8410.9	2858.3	1471.1	1182.1
72.5°	648.9	654.4	712.2	1016.2	2802.4	8295.3	2921.7	1049.7	727.2	645.1
75°	412.1	408.3	507.2	620.9	993.8	2798.6	1042.3	620.9	505.3	460.5
77.5°	296.5	305.8	363.6	464.3	626.5	949.0	615.3	443.8	363.6	298.3
80°	221.9	227.5	264.8	361.7	440.0	591.1	391.5	328.2	274.1	186.5
82.5°	160.3	160.3	173.4	262.9	268.5	318.8	212.6	231.2	180.9	132.4
85°	95.1	93.2	108.1	156.6	139.8	117.5	97.0	141.7	113.7	82.0
87.5°	33.6	35.4	33.6	44.7	37.3	31.7	29.8	39.2	31.7	28.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4422.6
4448.8
4510.3
4603.5
4715.4
4831.0
4957.8
5131.2
5326.9
5537.6
5774.4
6020.5
6289.0
6604.1
6958.4
7346.2
7743.4
8222.5
8742.8
9290.9
9855.9
10402.2
10804.9
10868.3
10335.1
9001.9
6639.6
3141.7
1167.2
656.3
464.3
303.9
192.0
132.4
80.2
26.1
0.0

OF REPORT)