

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: P951761

Luminaire Tested: **GALN-SB5D-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951761
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-SB5D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 46839 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

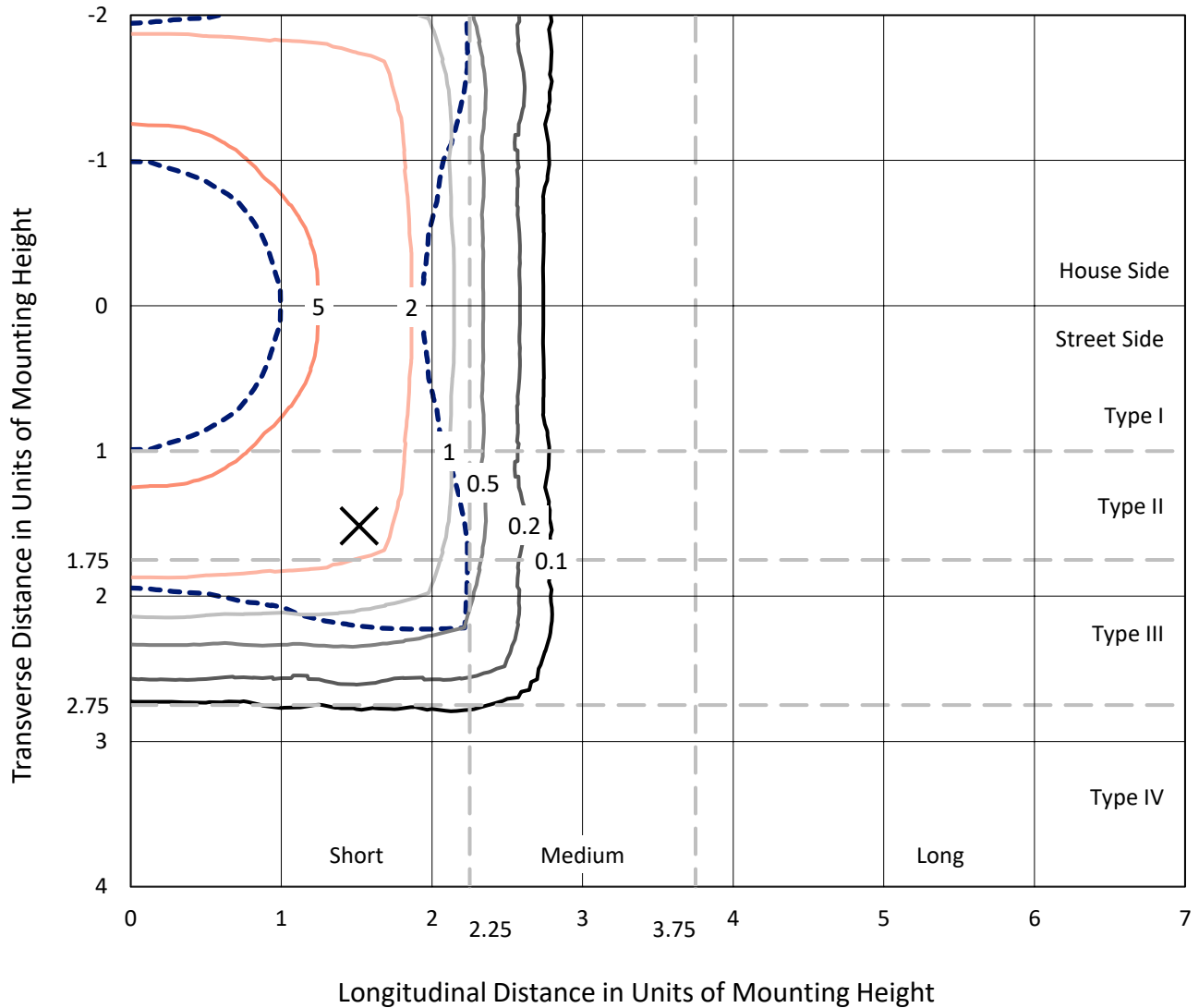
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951761
 CATALOG NUMBER: GALN-SB5D-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

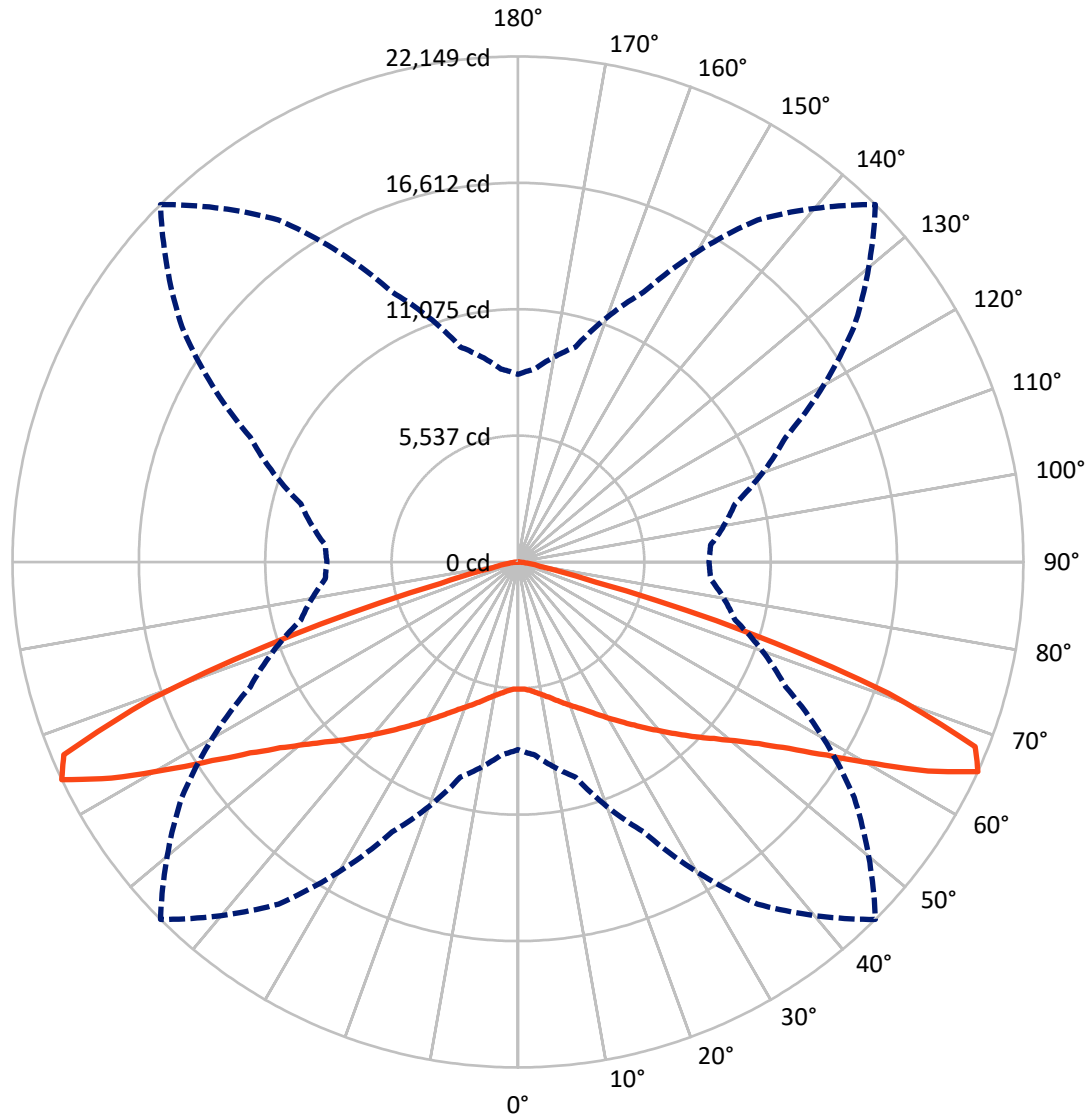
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

REPORT NUMBER: P951761
CATALOG NUMBER: GALN-SB5D-827-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P951761

CATALOG NUMBER: GALN-SB5D-827-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23419.5	0.0	23419.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23419.5	0.0	23419.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46839.0	0.0	46839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.1	1.2
10°-20°	1795.1	3.8
20°-30°	3389.4	7.2
30°-40°	5550.0	11.8
40°-50°	8605.3	18.4
50°-60°	12711.9	27.1
60°-70°	12100.5	25.8
70°-80°	1952.6	4.2
80°-90°	184.1	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°	46839.0	100.0
0°-180°	46839.0	100.0

Coefficient of Utilization



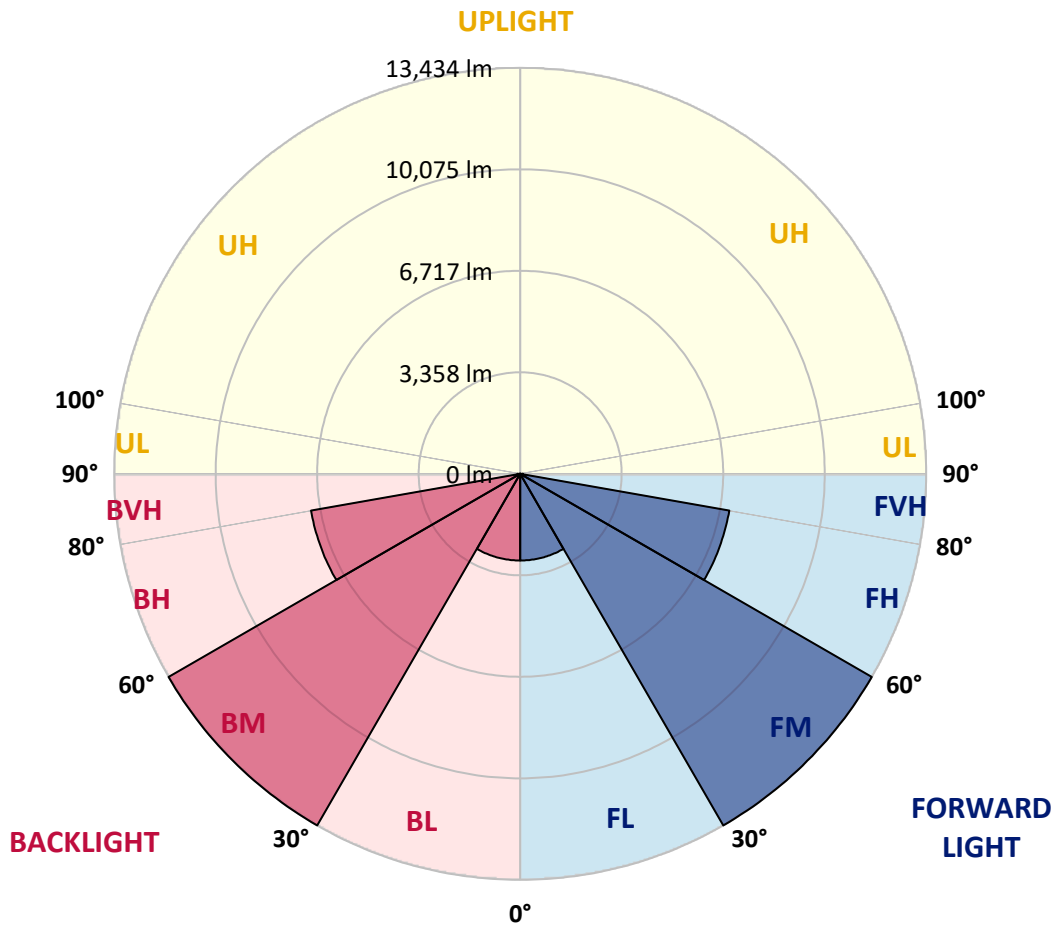
REPORT NUMBER: P951761
 CATALOG NUMBER: GALN-SB5D-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2867.3	6.1			
FM (30°-60°)	13433.6	28.7			
FH (60°-80°)	7026.6	15.0			G3/7500
FVH (80°-90°)	92.0	0.2			G1/100
BL (0°-30°)	2867.3	6.1	B4/5000		
BM (30°-60°)	13433.6	28.7	B5		
BH (60°-80°)	7026.6	15.0	B5		G3/7500
BVH (80°-90°)	92.0	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: P951761
 CATALOG NUMBER: GALN-SB5D-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3
2.5°	5611.9	5593.1	5607.2	5595.5	5586.1	5576.7	5581.4	5597.8	5604.9	5607.2
5°	5687.1	5670.7	5677.7	5677.7	5661.3	5656.6	5658.9	5670.7	5684.8	5684.8
7.5°	5809.3	5792.9	5809.3	5799.9	5785.8	5781.1	5778.8	5788.2	5809.3	5809.3
10°	5957.4	5938.6	5948.0	5943.3	5926.8	5919.8	5917.4	5931.5	5950.3	5948.0
12.5°	6119.5	6098.4	6110.1	6096.0	6091.3	6084.3	6084.3	6081.9	6093.7	6084.3
15°	6300.5	6286.4	6291.1	6281.7	6288.7	6284.0	6265.2	6255.8	6260.5	6246.4
17.5°	6514.3	6481.4	6497.9	6493.2	6493.2	6502.6	6472.0	6460.3	6469.7	6455.6
20°	6761.1	6728.2	6735.2	6725.8	6714.1	6723.5	6685.9	6695.3	6702.3	6692.9
22.5°	7031.3	6989.0	6986.7	6991.4	6965.5	6967.9	6942.0	6965.5	6979.6	6953.8
25°	7308.6	7264.0	7294.5	7282.8	7249.9	7256.9	7238.1	7261.6	7273.4	7240.5
27.5°	7602.4	7571.8	7600.0	7607.1	7567.1	7595.3	7567.1	7588.3	7600.0	7550.7
30°	7945.5	7915.0	7940.8	7959.6	7912.6	7957.3	7933.8	7947.9	7950.2	7891.5
32.5°	8319.2	8272.2	8338.0	8347.4	8295.7	8349.7	8319.2	8338.0	8349.7	8269.8
35°	8775.1	8716.3	8791.5	8779.8	8735.1	8779.8	8751.6	8779.8	8808.0	8711.6
37.5°	9266.2	9205.1	9285.0	9263.9	9221.6	9252.1	9235.7	9254.5	9299.1	9195.7
40°	9806.7	9731.5	9839.6	9802.0	9762.1	9757.4	9766.8	9778.5	9837.3	9722.1
42.5°	10384.9	10305.0	10467.1	10408.4	10352.0	10314.4	10344.9	10368.4	10424.8	10295.6
45°	11045.2	10953.6	11165.1	11094.6	11005.3	10927.7	10977.1	11012.3	11094.6	10939.5
47.5°	11773.7	11670.3	11895.9	11874.8	11729.1	11559.9	11672.7	11773.7	11834.8	11646.8
50°	12485.8	12405.9	12702.0	12727.8	12549.2	12311.9	12469.3	12622.1	12638.5	12391.8
52.5°	13153.2	13073.3	13503.4	13665.5	13505.7	13223.7	13390.6	13545.7	13421.1	13101.5
55°	13686.7	13620.9	14168.4	14586.7	14640.8	14408.1	14506.8	14502.1	14093.2	13602.1
57.5°	13815.9	13806.5	14497.4	15383.4	15947.4	15975.6	15780.6	15282.4	14401.1	13740.7
60°	13228.4	13287.2	14236.6	15799.4	17303.4	17928.5	17084.8	15663.1	14050.9	13134.4
62.5°	11470.6	11625.7	12770.2	15291.8	18398.5	20175.1	18130.6	15084.9	12612.7	11416.5
65°	8220.5	8490.7	9755.0	13049.8	18299.8	22149.2	17980.2	12944.1	9849.0	8469.6
67.5°	3729.5	4004.5	5078.4	8934.9	15907.5	21613.4	15869.9	9028.9	5332.3	4018.6
70°	1351.3	1398.3	1743.7	3576.8	10166.3	17221.1	10601.1	3602.6	1854.2	1489.9
72.5°	817.8	824.9	897.7	1280.8	3532.1	10455.4	3682.5	1323.1	916.5	813.1
75°	519.4	514.7	639.2	782.6	1252.6	3527.4	1313.7	782.6	636.9	580.5
77.5°	373.7	385.4	458.3	585.2	789.6	1196.2	775.5	559.3	458.3	376.0
80°	279.7	286.7	333.7	455.9	554.6	745.0	493.5	413.6	345.5	235.0
82.5°	202.1	202.1	218.6	331.4	338.4	401.9	267.9	291.4	228.0	166.9
85°	119.9	117.5	136.3	197.4	176.3	148.1	122.2	178.6	143.4	103.4
87.5°	42.3	44.7	42.3	56.4	47.0	40.0	37.6	49.4	40.0	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5574.3
5607.2
5684.8
5802.3
5943.3
6089.0
6248.8
6467.3
6714.1
6979.6
7278.1
7588.3
7926.7
8323.9
8770.4
9259.2
9759.7
10363.7
11019.4
11710.3
12422.3
13110.9
13618.5
13698.4
13026.3
11346.0
8368.5
3959.8
1471.1
827.2
585.2
383.1
242.1
166.9
101.1
32.9
0.0

OF REPORT)