

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: P944050

Luminaire Tested: **GALN-SB8D-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944050
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-SB8D-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72376 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

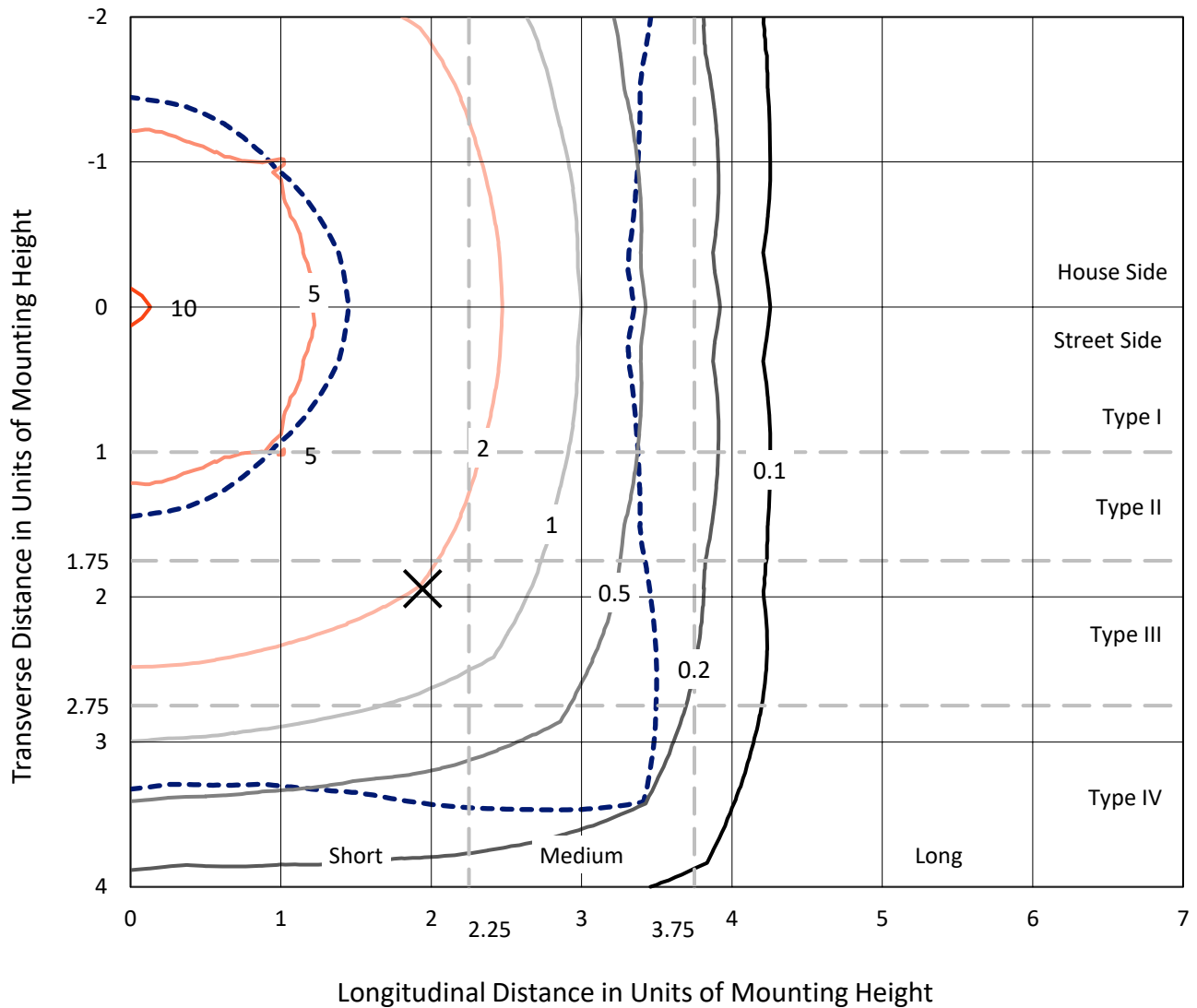
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944050
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Iso-Footcandle Lines of Horizontal Illumination

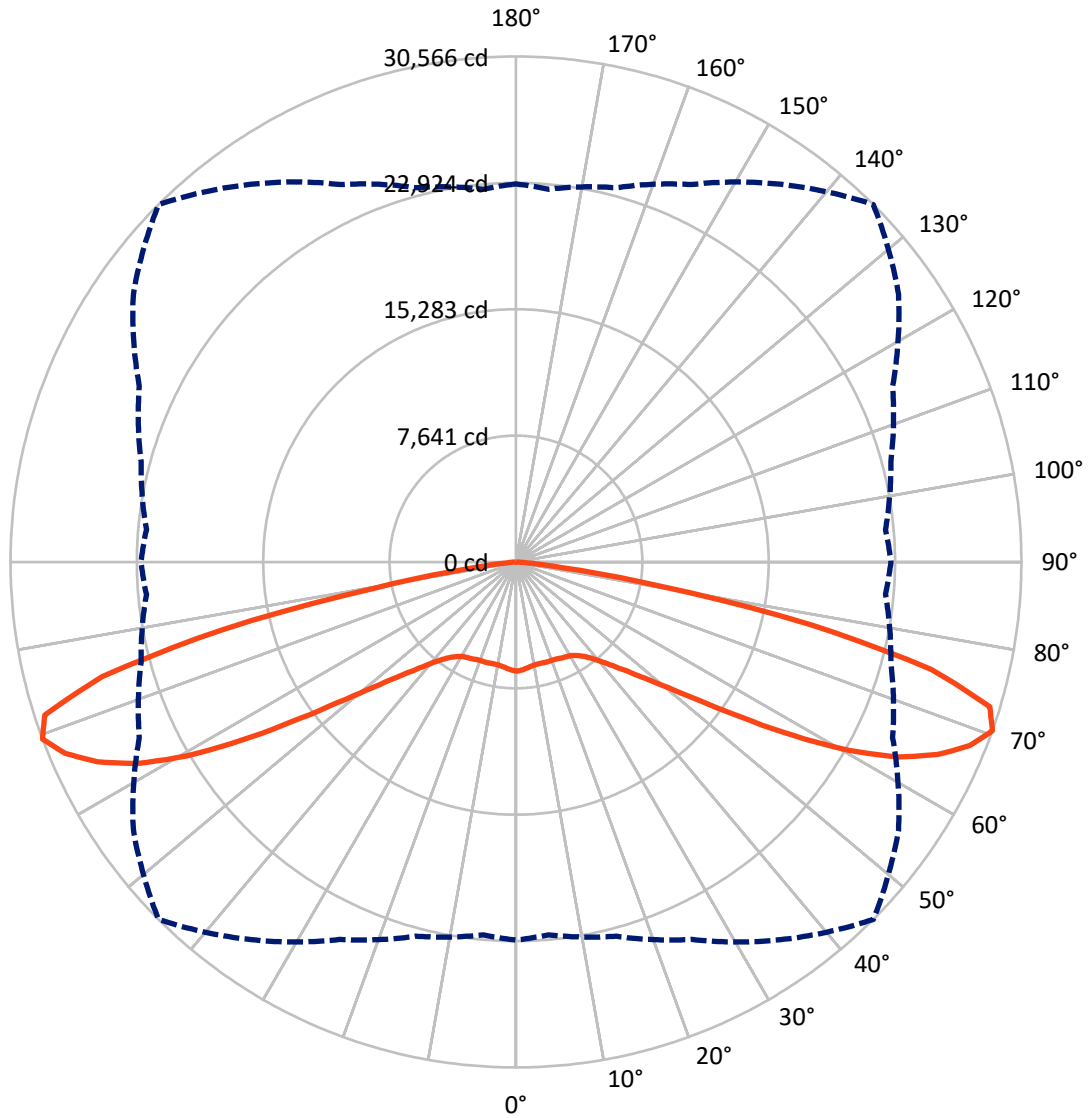
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type V - Short - N/A

REPORT NUMBER: P944050
CATALOG NUMBER: GALN-SB8D-827-U-5WQ

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	36188.0	0.0	36188.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36188.0	0.0	36188.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	72376.0	0.0	72376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.2	0.8
10°-20°	1803.3	2.5
20°-30°	3001.0	4.1
30°-40°	4538.4	6.3
40°-50°	7541.7	10.4
50°-60°	14230.9	19.7
60°-70°	24029.5	33.2
70°-80°	15789.9	21.8
80°-90°	827.2	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°	72376.0	100.0
0°-180°	72376.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944050

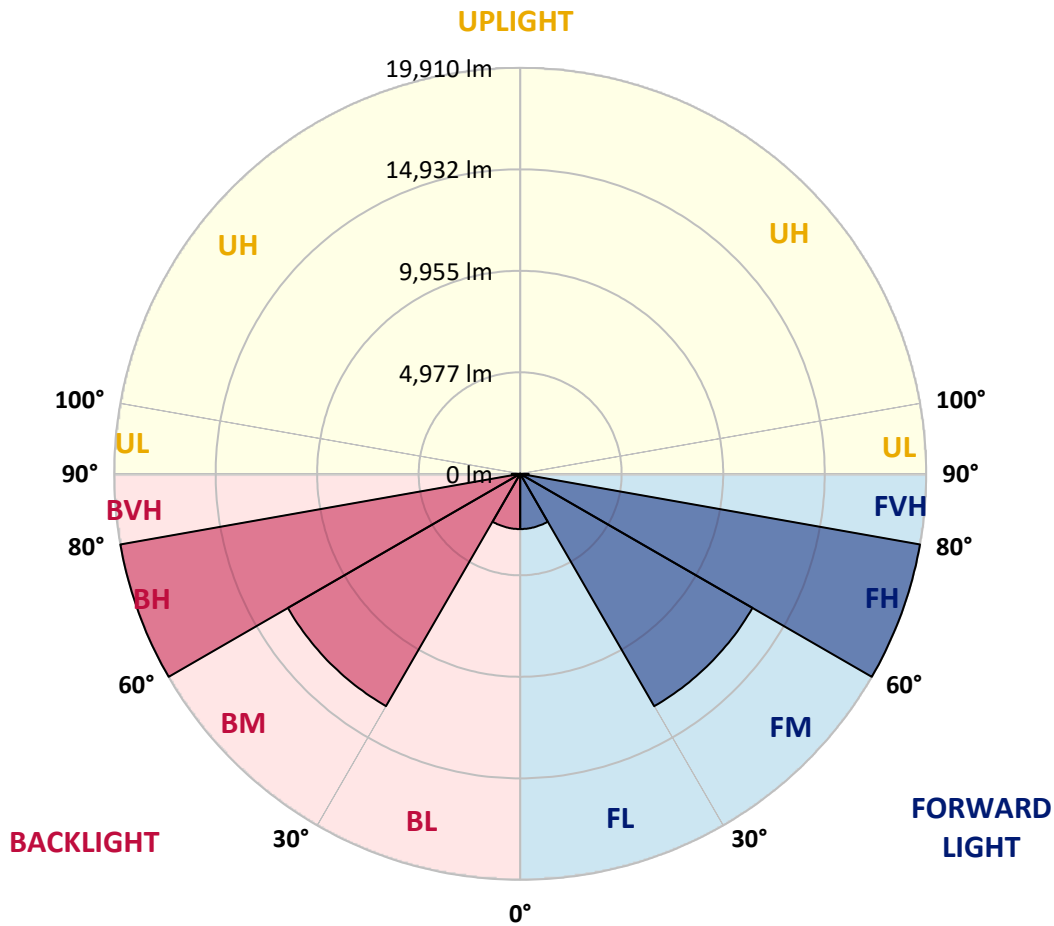
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2709.2	3.7			
FM (30°-60°)	13155.5	18.2			
FH (60°-80°)	19909.7	27.5			G5
FVH (80°-90°)	413.6	0.6			G3/500
BL (0°-30°)	2709.2	3.7	B4/5000		
BM (30°-60°)	13155.5	18.2	B5		
BH (60°-80°)	19909.7	27.5	B5		G5
BVH (80°-90°)	413.6	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°	6602.1	6602.1	6602.1	6602.1	6602.1	6602.1	6602.1	6602.1	6602.1	6602.1
2.5°	6560.8	6579.6	6572.1	6557.0	6557.0	6545.7	6557.0	6564.5	6575.8	6583.3
5°	6474.2	6489.3	6485.5	6474.2	6478.0	6466.7	6474.2	6485.5	6493.1	6496.8
7.5°	6399.0	6414.1	6406.5	6387.7	6387.7	6376.4	6380.2	6391.5	6402.8	6406.5
10°	6380.2	6395.2	6372.7	6342.6	6331.3	6316.2	6320.0	6331.3	6353.9	6365.1
12.5°	6387.7	6399.0	6376.4	6331.3	6320.0	6305.0	6305.0	6316.2	6346.3	6361.4
15°	6410.3	6421.6	6387.7	6338.8	6327.5	6316.2	6312.5	6327.5	6361.4	6387.7
17.5°	6451.7	6463.0	6410.3	6342.6	6327.5	6331.3	6327.5	6338.8	6391.5	6440.4
20°	6489.3	6496.8	6425.3	6342.6	6327.5	6331.3	6327.5	6350.1	6417.8	6485.5
22.5°	6500.6	6508.1	6440.4	6368.9	6357.6	6361.4	6357.6	6380.2	6444.1	6511.9
25°	6504.3	6515.6	6463.0	6406.5	6425.3	6432.9	6425.3	6429.1	6478.0	6538.2
27.5°	6560.8	6575.8	6526.9	6478.0	6489.3	6485.5	6496.8	6508.1	6545.7	6605.9
30°	6677.4	6688.7	6647.3	6598.4	6590.9	6564.5	6598.4	6636.0	6677.4	6730.1
32.5°	6869.2	6891.8	6839.1	6786.5	6752.6	6737.6	6763.9	6827.9	6884.3	6940.7
35°	7189.0	7204.1	7155.1	7057.3	6997.1	6997.1	7019.7	7102.5	7192.8	7264.2
37.5°	7640.4	7659.2	7572.7	7456.1	7365.8	7365.8	7395.9	7482.4	7617.9	7719.4
40°	8189.7	8216.0	8106.9	7986.5	7900.0	7885.0	7922.6	8020.4	8148.3	8276.2
42.5°	8851.8	8881.9	8738.9	8633.6	8565.9	8565.9	8584.7	8675.0	8791.6	8949.6
45°	9698.2	9750.9	9555.2	9449.9	9386.0	9401.0	9412.3	9491.3	9596.6	9777.2
47.5°	10706.4	10759.1	10552.2	10443.1	10431.8	10503.2	10458.1	10514.5	10571.0	10777.9
50°	11850.0	11940.3	11797.3	11789.8	11812.4	11944.1	11838.7	11868.8	11804.9	11936.5
52.5°	13249.4	13381.1	13354.8	13399.9	13652.0	13922.8	13682.1	13576.7	13336.0	13377.3
55°	14946.1	15145.4	15183.1	15453.9	16025.7	16578.7	16067.1	15642.0	15130.4	15036.3
57.5°	16875.9	17033.9	17214.5	17767.5	18835.9	19817.7	18835.9	17895.4	17090.3	16898.5
60°	18952.5	19148.1	19321.2	20137.5	21725.0	23105.6	21694.9	20201.4	19136.8	18877.3
62.5°	21183.3	21435.4	21555.7	22462.4	24313.2	25960.9	24339.5	22530.1	21348.8	21070.4
65°	23323.8	23530.7	23666.2	24633.0	26401.1	28052.5	26521.5	24738.3	23523.2	23158.3
67.5°	24320.7	24433.6	24764.6	25859.4	27725.3	29610.0	28041.3	25976.0	24617.9	23978.4
70°	22861.1	22631.6	23429.2	25182.2	27883.3	30565.5	28244.4	25129.5	23466.8	22428.5
72.5°	17665.9	17270.9	18655.3	21653.5	26077.5	29956.1	26258.1	21822.8	19516.8	17410.1
75°	9611.7	9164.0	11075.1	14867.1	20795.8	25964.7	21273.6	15292.2	12331.5	9540.2
77.5°	2712.3	2543.0	4085.4	7192.8	12508.3	18230.2	12989.9	7350.8	4845.3	2874.1
80°	831.4	805.0	1091.0	2166.9	5311.8	8731.4	5104.9	2193.2	1388.1	876.5
82.5°	492.8	451.4	541.7	790.0	1354.3	2742.4	1316.7	823.9	662.1	443.9
85°	282.1	263.3	319.8	383.7	455.2	583.1	380.0	391.2	353.6	237.0
87.5°	116.6	105.3	124.1	120.4	105.3	135.4	101.6	120.4	143.0	94.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6602.1
6579.6
6496.8
6406.5
6365.1
6365.1
6391.5
6440.4
6489.3
6511.9
6534.4
6590.9
6718.8
6918.1
7237.9
7681.8
8234.8
8938.3
9769.7
10717.7
11857.5
13238.2
14889.6
16763.1
18651.5
20844.7
22977.7
23985.9
22676.8
17933.0
10160.9
3193.9
925.4
481.5
248.3
86.5
0.0

OF REPORT)