

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: P950690

Luminaire Tested: **GALN-SB5A-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950690
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-SB5A-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20648 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

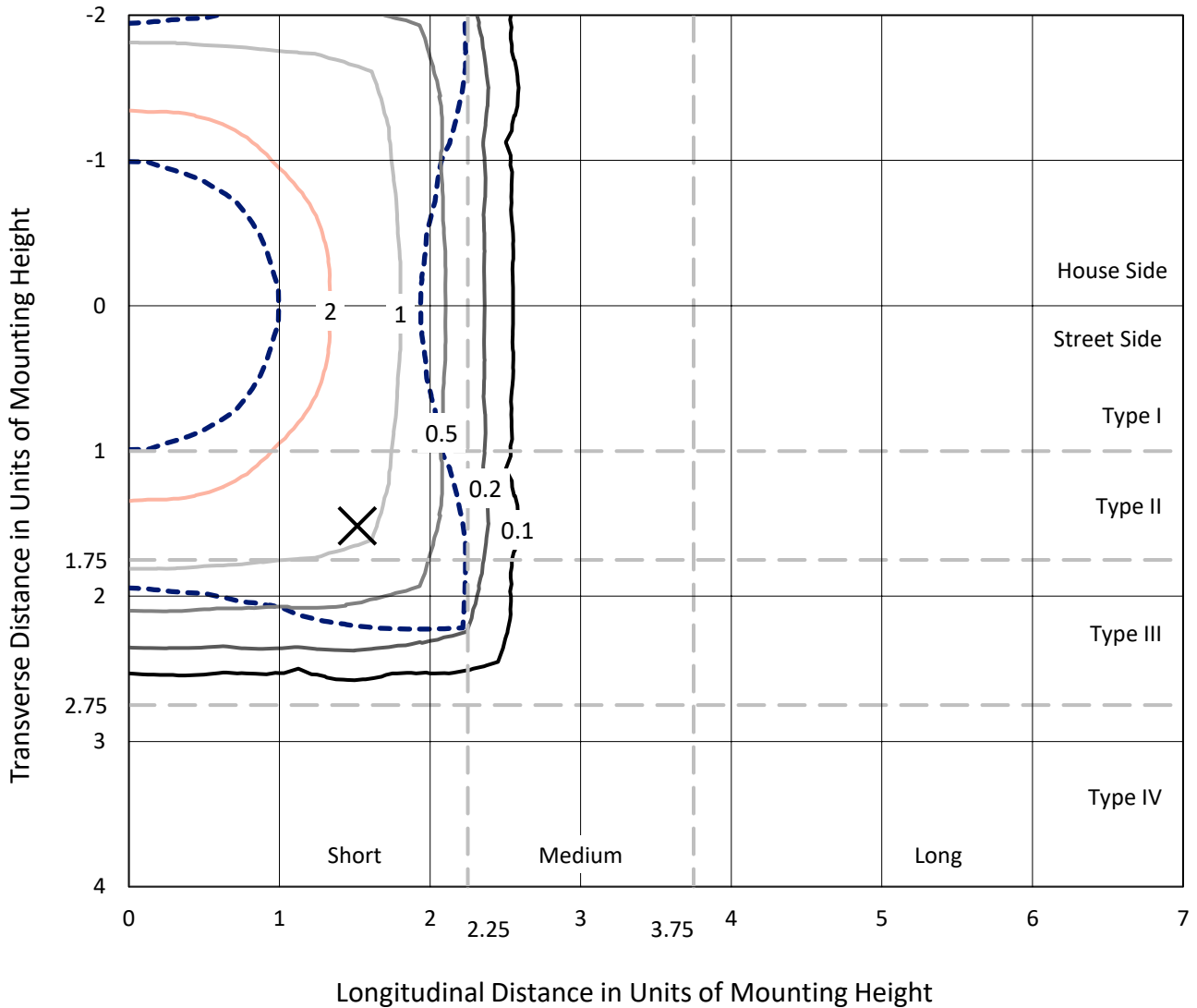
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950690
 CATALOG NUMBER: GALN-SB5A-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

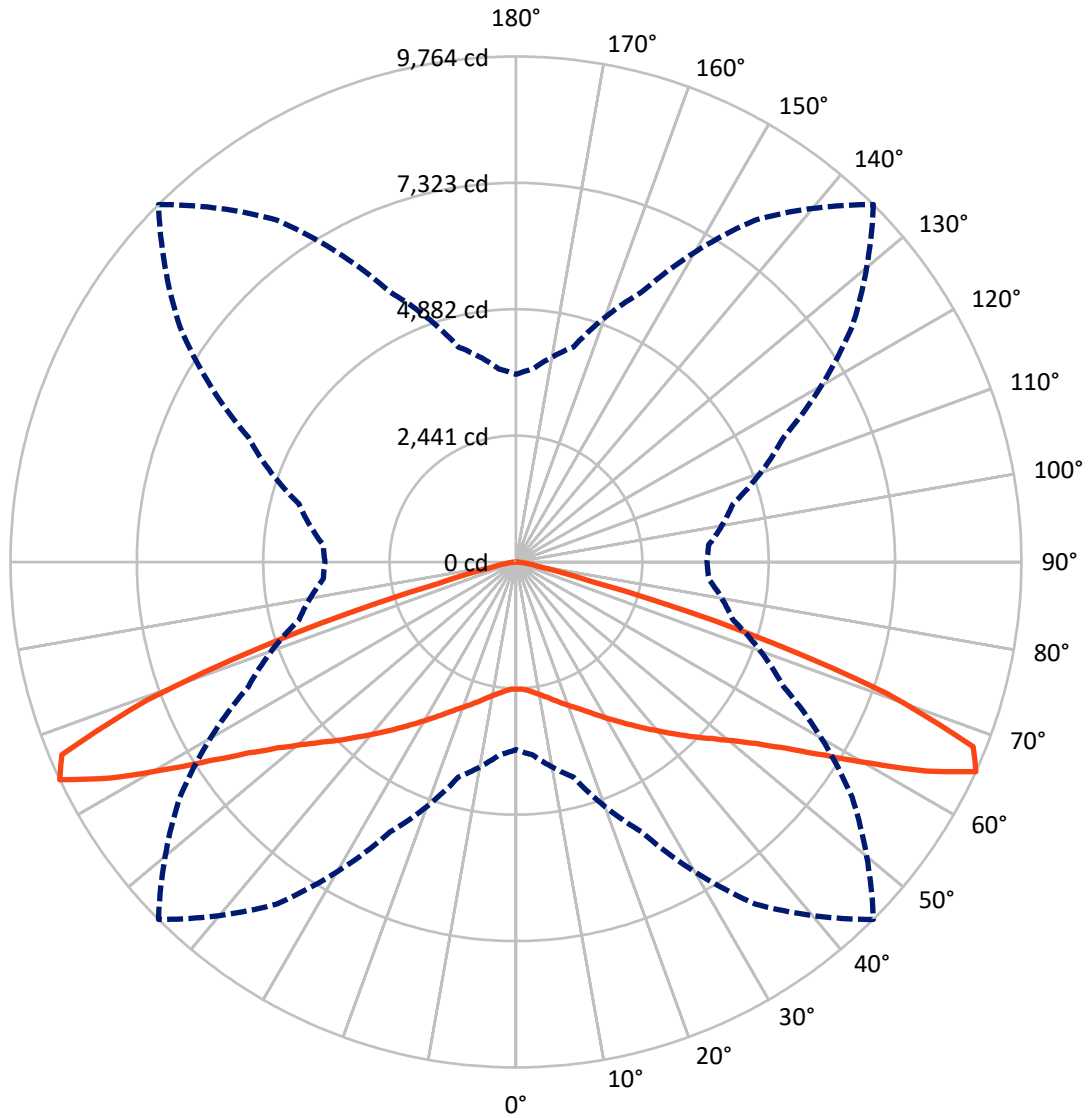
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

REPORT NUMBER: P950690
CATALOG NUMBER: GALN-SB5A-827-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P950690

CATALOG NUMBER: GALN-SB5A-827-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10324.0	0.0	10324.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10324.0	0.0	10324.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20648.0	0.0	20648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.5	1.2
10°-20°	791.3	3.8
20°-30°	1494.1	7.2
30°-40°	2446.6	11.8
40°-50°	3793.5	18.4
50°-60°	5603.8	27.1
60°-70°	5334.3	25.8
70°-80°	860.8	4.2
80°-90°	81.1	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°	20648.0	100.0
0°-180°	20648.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950690

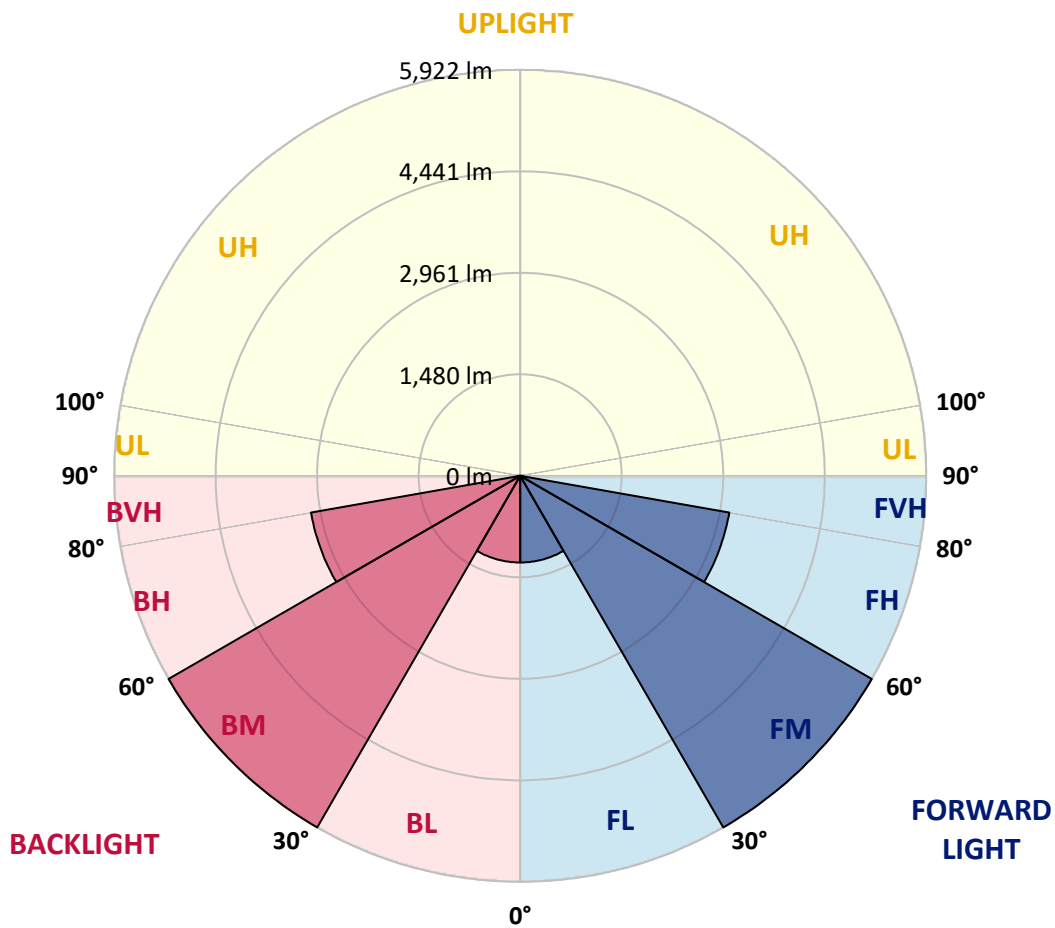
CATALOG NUMBER: GALN-SB5A-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.0	6.1			
FM (30°-60°)	5921.9	28.7			
FH (60°-80°)	3097.5	15.0			G2/5000
FVH (80°-90°)	40.6	0.2			G1/100
BL (0°-30°)	1264.0	6.1	B3/2500		
BM (30°-60°)	5921.9	28.7	B4/8500		
BH (60°-80°)	3097.5	15.0	B4/5000		G2/5000
BVH (80°-90°)	40.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P950690
 CATALOG NUMBER: GALN-SB5A-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2457.3	2457.3	2457.3	2457.3	2457.3	2457.3	2457.3	2457.3	2457.3	2457.3
2.5°	2473.9	2465.6	2471.8	2466.6	2462.5	2458.4	2460.4	2467.7	2470.8	2471.8
5°	2507.0	2499.8	2502.9	2502.9	2495.6	2493.6	2494.6	2499.8	2506.0	2506.0
7.5°	2560.9	2553.7	2560.9	2556.8	2550.6	2548.5	2547.4	2551.6	2560.9	2560.9
10°	2626.2	2617.9	2622.0	2620.0	2612.7	2609.6	2608.6	2614.8	2623.1	2622.0
12.5°	2697.7	2688.3	2693.5	2687.3	2685.2	2682.1	2682.1	2681.1	2686.3	2682.1
15°	2777.4	2771.2	2773.3	2769.1	2772.3	2770.2	2761.9	2757.7	2759.8	2753.6
17.5°	2871.7	2857.2	2864.5	2862.4	2862.4	2866.5	2853.1	2847.9	2852.0	2845.8
20°	2980.5	2966.0	2969.1	2964.9	2959.8	2963.9	2947.3	2951.5	2954.6	2950.4
22.5°	3099.6	3081.0	3079.9	3082.0	3070.6	3071.6	3060.3	3070.6	3076.8	3065.4
25°	3221.9	3202.2	3215.6	3210.5	3196.0	3199.1	3190.8	3201.1	3206.3	3191.8
27.5°	3351.4	3337.9	3350.3	3353.4	3335.8	3348.3	3335.8	3345.1	3350.3	3328.6
30°	3502.6	3489.1	3500.5	3508.8	3488.1	3507.8	3497.4	3503.6	3504.7	3478.8
32.5°	3667.3	3646.6	3675.6	3679.8	3657.0	3680.8	3667.3	3675.6	3680.8	3645.6
35°	3868.3	3842.4	3875.6	3870.4	3850.7	3870.4	3857.9	3870.4	3882.8	3840.3
37.5°	4084.8	4057.9	4093.1	4083.8	4065.1	4078.6	4071.4	4079.6	4099.3	4053.7
40°	4323.1	4289.9	4337.6	4321.0	4303.4	4301.3	4305.5	4310.7	4336.6	4285.8
42.5°	4577.9	4542.7	4614.2	4588.3	4563.4	4546.9	4560.3	4570.7	4595.6	4538.6
45°	4869.1	4828.7	4921.9	4890.8	4851.4	4817.3	4839.0	4854.6	4890.8	4822.4
47.5°	5190.2	5144.6	5244.1	5234.8	5170.5	5095.9	5145.7	5190.2	5217.1	5134.3
50°	5504.1	5468.9	5599.4	5610.8	5532.1	5427.4	5496.9	5564.2	5571.4	5462.7
52.5°	5798.3	5763.1	5952.7	6024.2	5953.7	5829.4	5903.0	5971.3	5916.4	5775.5
55°	6033.5	6004.5	6245.9	6430.3	6454.1	6351.5	6395.0	6393.0	6212.7	5996.2
57.5°	6090.5	6086.3	6390.9	6781.5	7030.1	7042.5	6956.5	6736.9	6348.4	6057.3
60°	5831.5	5857.4	6275.9	6964.8	7627.8	7903.4	7531.5	6904.7	6194.1	5790.0
62.5°	5056.6	5124.9	5629.5	6741.1	8110.6	8893.8	7992.5	6649.9	5560.0	5032.7
65°	3623.8	3743.0	4300.3	5752.7	8067.1	9764.0	7926.2	5706.1	4341.7	3733.6
67.5°	1644.1	1765.3	2238.7	3938.8	7012.5	9527.8	6995.9	3980.2	2350.6	1771.5
70°	595.7	616.4	768.7	1576.7	4481.6	7591.6	4673.3	1588.1	817.4	656.8
72.5°	360.5	363.6	395.7	564.6	1557.1	4609.0	1623.4	583.3	404.0	358.4
75°	228.9	226.9	281.8	345.0	552.2	1555.0	579.1	345.0	280.7	255.9
77.5°	164.7	169.9	202.0	258.0	348.1	527.3	341.9	246.6	202.0	165.8
80°	123.3	126.4	147.1	201.0	244.5	328.4	217.6	182.3	152.3	103.6
82.5°	89.1	89.1	96.3	146.1	149.2	177.2	118.1	128.5	100.5	73.6
85°	52.8	51.8	60.1	87.0	77.7	65.3	53.9	78.7	63.2	45.6
87.5°	18.6	19.7	18.6	24.9	20.7	17.6	16.6	21.8	17.6	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2457.3
2471.8
2506.0
2557.8
2620.0
2684.2
2754.6
2851.0
2959.8
3076.8
3208.4
3345.1
3494.3
3669.4
3866.2
4081.7
4302.4
4568.6
4857.7
5162.2
5476.1
5779.7
6003.4
6038.7
5742.4
5001.7
3689.1
1745.6
648.5
364.7
258.0
168.9
106.7
73.6
44.5
14.5
0.0

OF REPORT)