

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: P940993

Luminaire Tested: **GALN-SB4B-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19414 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

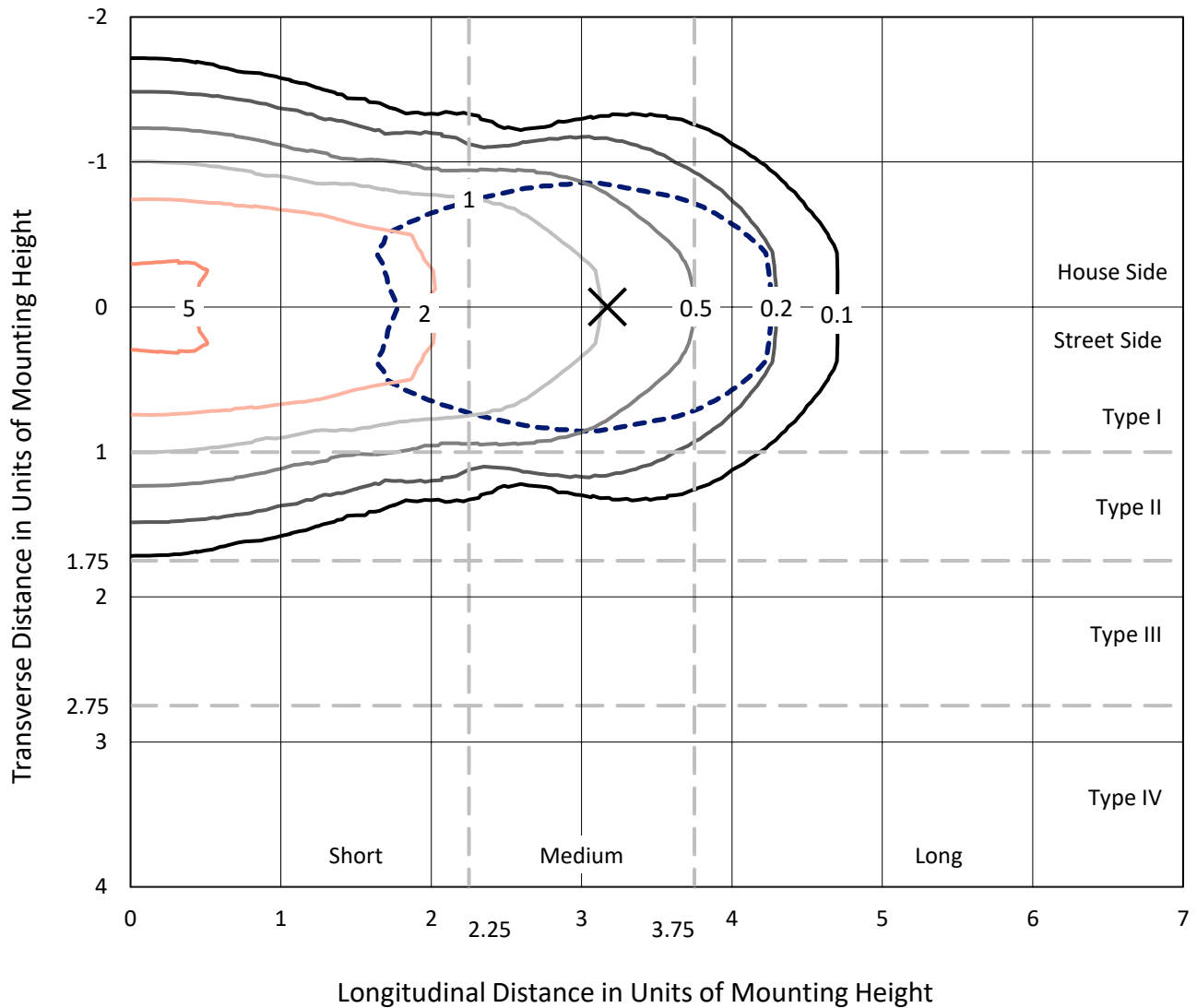
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940993
 CATALOG NUMBER: GALN-SB4B-827-U-T1

Iso-Footcandle Lines of Horizontal Illumination

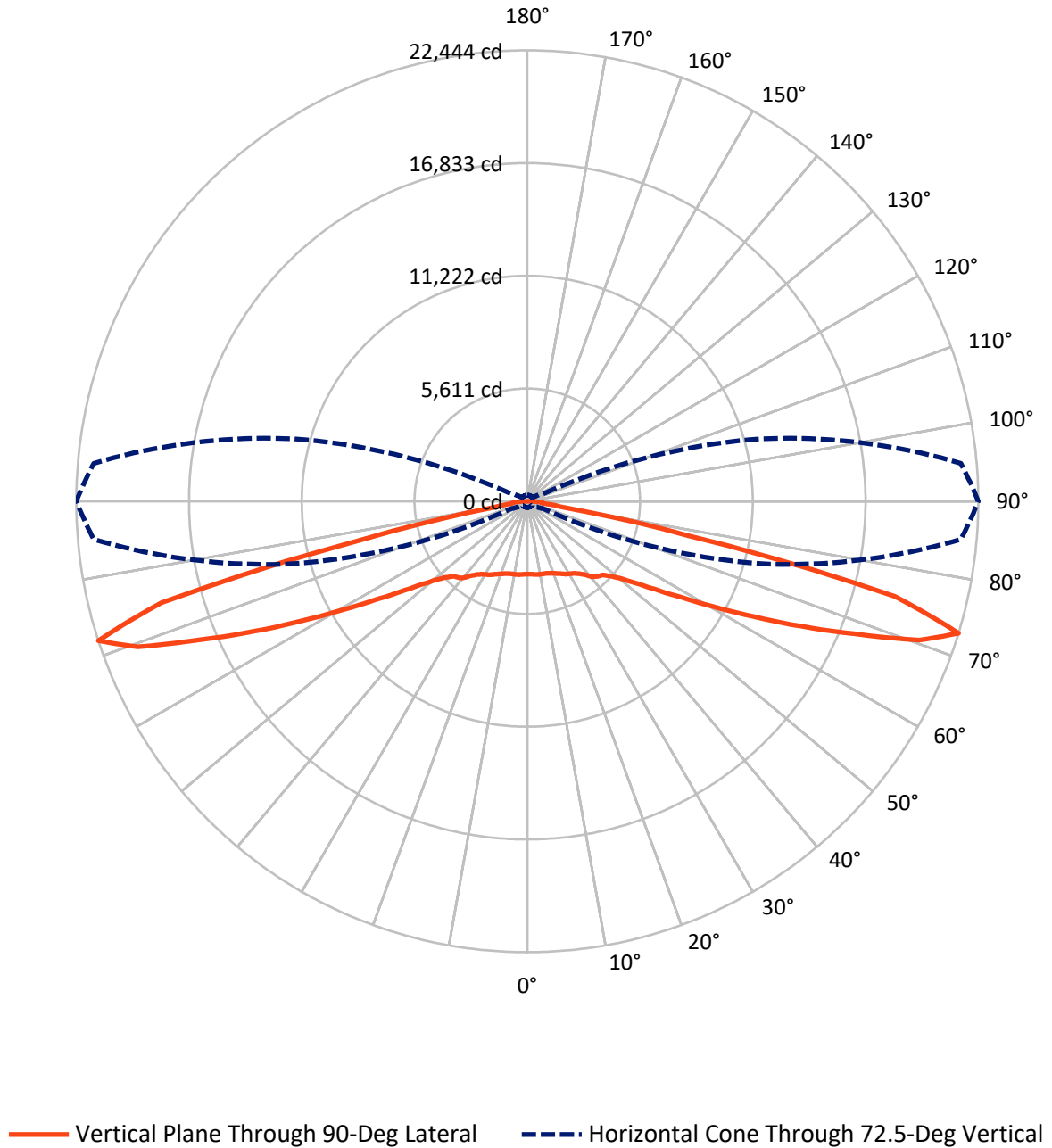
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type I - Short - N/A

REPORT NUMBER: P940993
CATALOG NUMBER: GALN-SB4B-827-U-T1

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9707.0	0.0	9707.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9707.0	0.0	9707.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19414.0	0.0	19414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.8	1.8
10°-20°	1075.5	5.5
20°-30°	1793.3	9.2
30°-40°	2466.4	12.7
40°-50°	3012.1	15.5
50°-60°	3483.8	17.9
60°-70°	4153.9	21.4
70°-80°	2899.1	14.9
80°-90°	178.1	0.9
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°	19414.0	100.0
0°-180°	19414.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940993

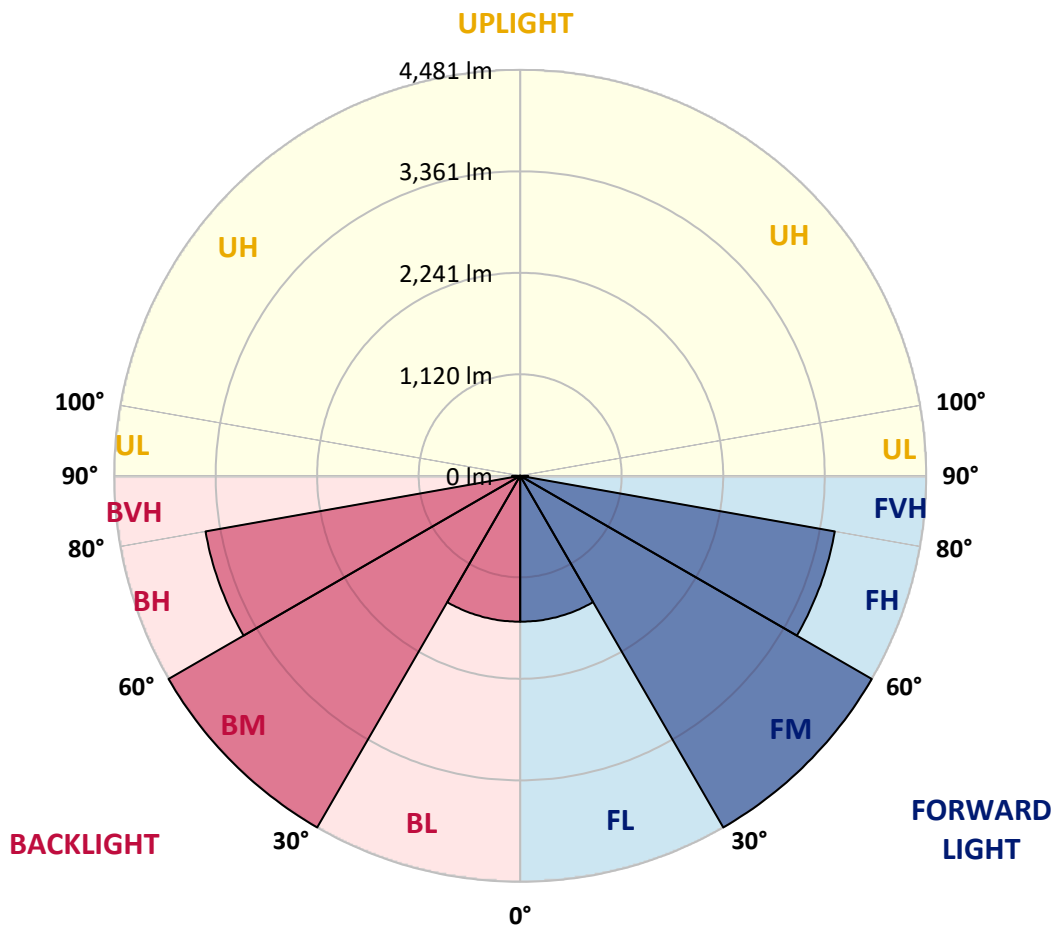
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1610.3	8.3			
FM (30°-60°)	4481.2	23.1			
FH (60°-80°)	3526.5	18.2			G2/5000
FVH (80°-90°)	89.0	0.5			G1/100
BL (0°-30°)	1610.3	8.3	B3/2500		
BM (30°-60°)	4481.2	23.1	B3/5000		
BH (60°-80°)	3526.5	18.2	B4/5000		G4/5000
BVH (80°-90°)	89.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7	3627.7
2.5°	3630.8	3634.9	3634.9	3631.8	3639.1	3632.9	3632.9	3629.8	3632.9	3629.8
5°	3649.4	3654.5	3656.6	3655.6	3664.9	3659.7	3659.7	3655.6	3656.6	3653.5
7.5°	3684.5	3691.7	3695.8	3701.0	3714.4	3708.2	3704.1	3691.7	3686.5	3678.3
10°	3695.8	3704.1	3717.5	3744.3	3775.3	3776.3	3763.9	3733.0	3709.2	3690.6
12.5°	3660.7	3672.1	3699.9	3754.6	3823.7	3851.6	3832.0	3780.4	3734.0	3701.0
15°	3616.4	3628.7	3671.0	3753.6	3855.7	3920.7	3918.7	3850.6	3776.3	3724.7
17.5°	3547.2	3559.6	3620.5	3736.0	3880.5	3987.8	4016.7	3946.5	3842.3	3773.2
20°	3422.4	3433.7	3518.3	3680.3	3888.7	4059.0	4134.3	4072.4	3942.4	3848.5
22.5°	3260.4	3277.9	3377.0	3584.4	3869.1	4133.3	4268.4	4226.1	4059.0	3929.0
25°	3087.1	3105.6	3221.2	3466.8	3818.6	4186.9	4427.3	4400.5	4191.1	4029.1
27.5°	2937.5	2957.1	3082.9	3350.2	3740.2	4207.6	4584.2	4597.6	4351.0	4139.5
30°	2819.8	2838.4	2972.5	3256.3	3639.1	4186.9	4721.4	4814.2	4514.0	4235.4
32.5°	2690.9	2714.6	2855.9	3141.7	3519.4	4137.4	4841.1	5048.5	4702.8	4338.6
35°	2527.8	2549.5	2698.1	2984.9	3362.5	4058.0	4941.2	5308.5	4973.1	4495.4
37.5°	2329.7	2350.4	2497.9	2788.9	3206.7	3946.5	5017.5	5601.5	5295.1	4721.4
40°	2130.6	2150.2	2288.5	2570.1	3020.0	3804.1	5044.3	5888.3	5664.4	5032.0
42.5°	1948.0	1965.5	2092.4	2354.5	2810.5	3622.6	5009.3	6138.0	5995.6	5248.6
45°	1779.8	1795.3	1907.7	2152.3	2592.8	3401.8	4904.0	6406.3	6389.8	5403.4
47.5°	1587.9	1603.4	1720.0	1956.2	2375.1	3142.8	4725.5	6670.4	6937.6	5754.2
50°	1353.7	1367.1	1486.8	1730.3	2149.2	2867.3	4477.9	6877.8	7628.9	6285.6
52.5°	1076.1	1090.6	1207.2	1450.7	1880.9	2571.2	4151.9	7013.0	8427.5	7061.4
55°	800.7	811.0	912.1	1130.8	1548.7	2233.8	3743.3	7051.1	9333.4	8122.1
57.5°	580.9	587.1	652.1	815.1	1174.2	1811.8	3247.0	6952.1	10411.6	9482.0
60°	470.5	472.6	492.2	564.4	816.1	1335.1	2647.5	6611.6	11581.6	11235.0
62.5°	427.2	427.2	432.3	451.9	552.0	881.1	1922.2	5905.9	12836.3	13450.2
65°	397.2	397.2	399.3	408.6	435.4	561.3	1213.4	4756.5	13893.8	16045.1
67.5°	370.4	371.4	370.4	373.5	389.0	414.8	703.7	3285.2	14463.4	18733.9
70°	342.5	344.6	339.5	339.5	351.8	352.9	440.6	1801.5	13990.8	20987.3
72.5°	309.5	312.6	304.4	302.3	311.6	307.5	331.2	864.6	12011.9	21660.0
75°	280.6	284.8	266.2	261.0	261.0	257.9	269.3	443.7	7796.1	17669.1
77.5°	254.8	263.1	233.2	216.7	212.5	203.3	219.8	271.4	3410.0	8295.4
80°	210.5	221.8	191.9	172.3	165.1	154.8	173.3	189.8	1014.2	1926.3
82.5°	156.8	162.0	136.2	122.8	116.6	109.4	130.0	132.1	330.2	682.0
85°	100.1	102.1	83.6	72.2	69.1	66.0	82.5	72.2	125.9	501.4
87.5°	35.1	40.2	32.0	28.9	31.0	25.8	38.2	21.7	35.1	353.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

3627.7
3629.8
3653.5
3678.3
3687.6
3695.8
3716.4
3761.8
3831.0
3905.3
3996.1
4104.4
4184.9
4274.6
4424.2
4626.5
4930.8
5118.6
5228.0
5552.0
6031.7
6748.8
7731.1
8989.8
10614.9
12619.6
14994.7
17600.0
20689.1
22444.1
18899.0
8123.1
1844.8
770.7
728.4
438.5
0.0

OF REPORT)