

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: P941503

Luminaire Tested: **GALN-SB5A-827-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941503  
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-SB5A-827-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

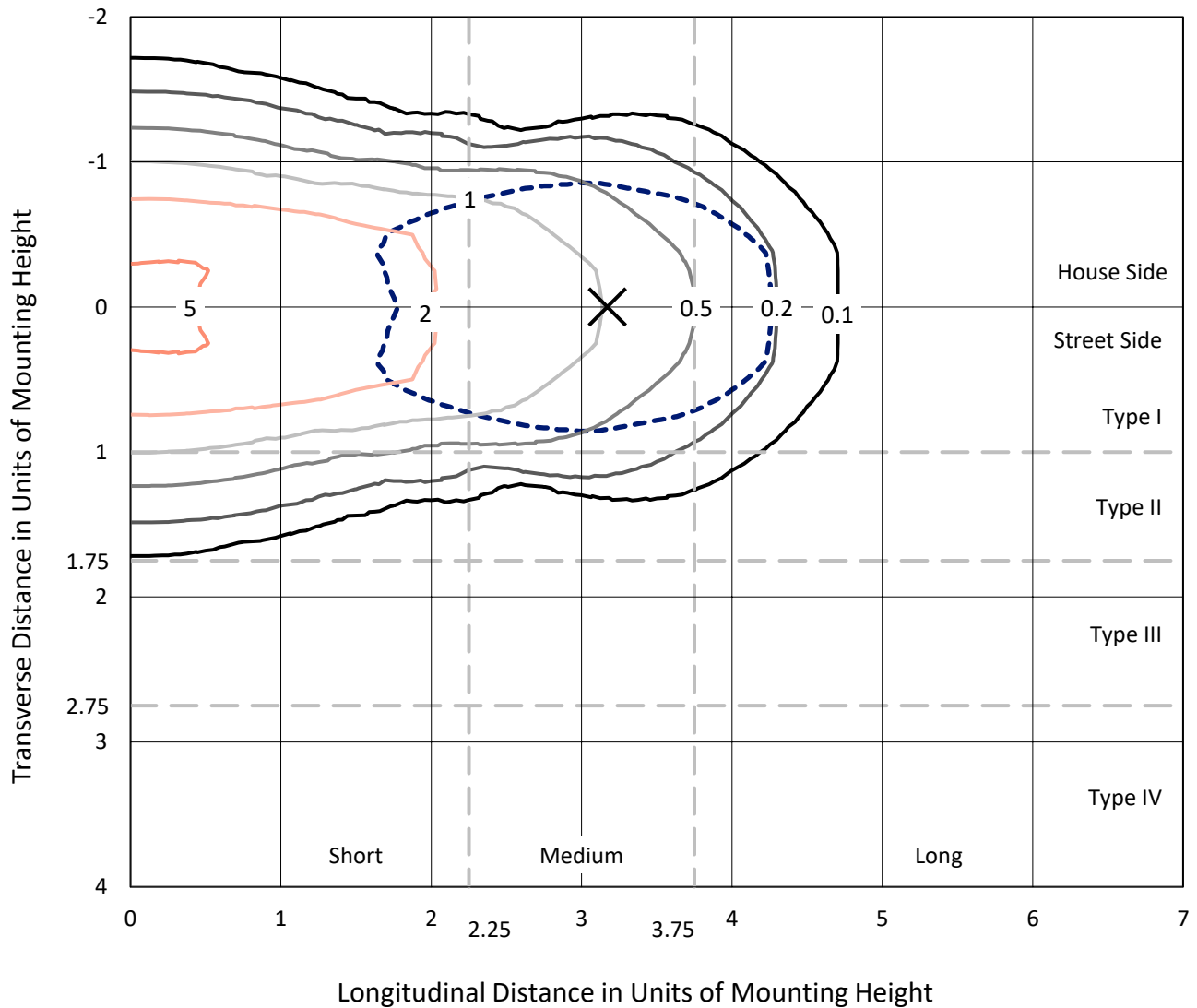
Lumens per Lamp: N/A  
Luminaire Lumens: 19492 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

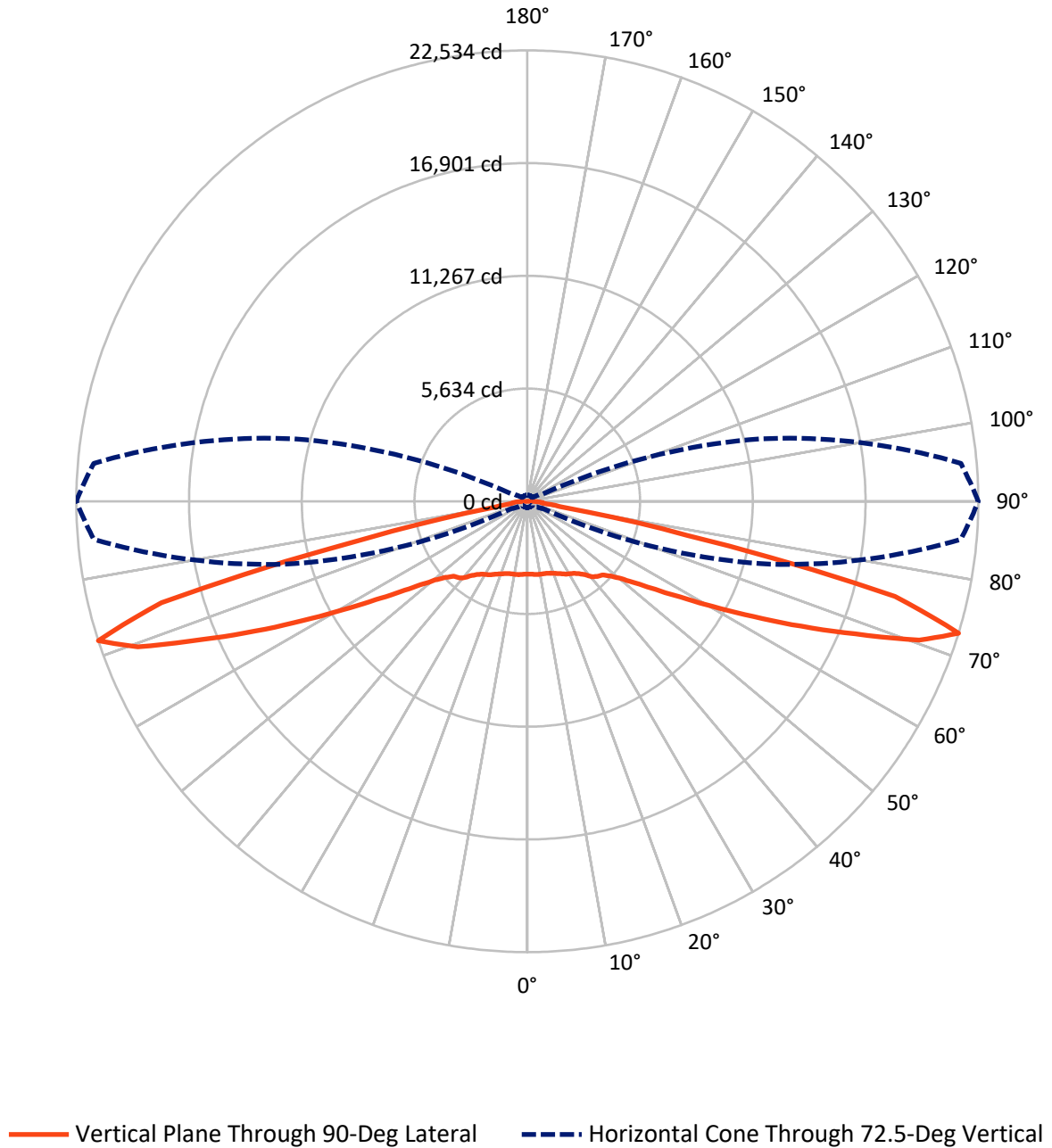
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9746.0	0.0	9746.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9746.0	0.0	9746.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19492.0	0.0	19492.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.2	1.8
10°-20°	1079.8	5.5
20°-30°	1800.5	9.2
30°-40°	2476.3	12.7
40°-50°	3024.2	15.5
50°-60°	3497.8	17.9
60°-70°	4170.6	21.4
70°-80°	2910.8	14.9
80°-90°	178.8	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°	19492.0	100.0
0°-180°	19492.0	100.0

**Coefficient of Utilization**



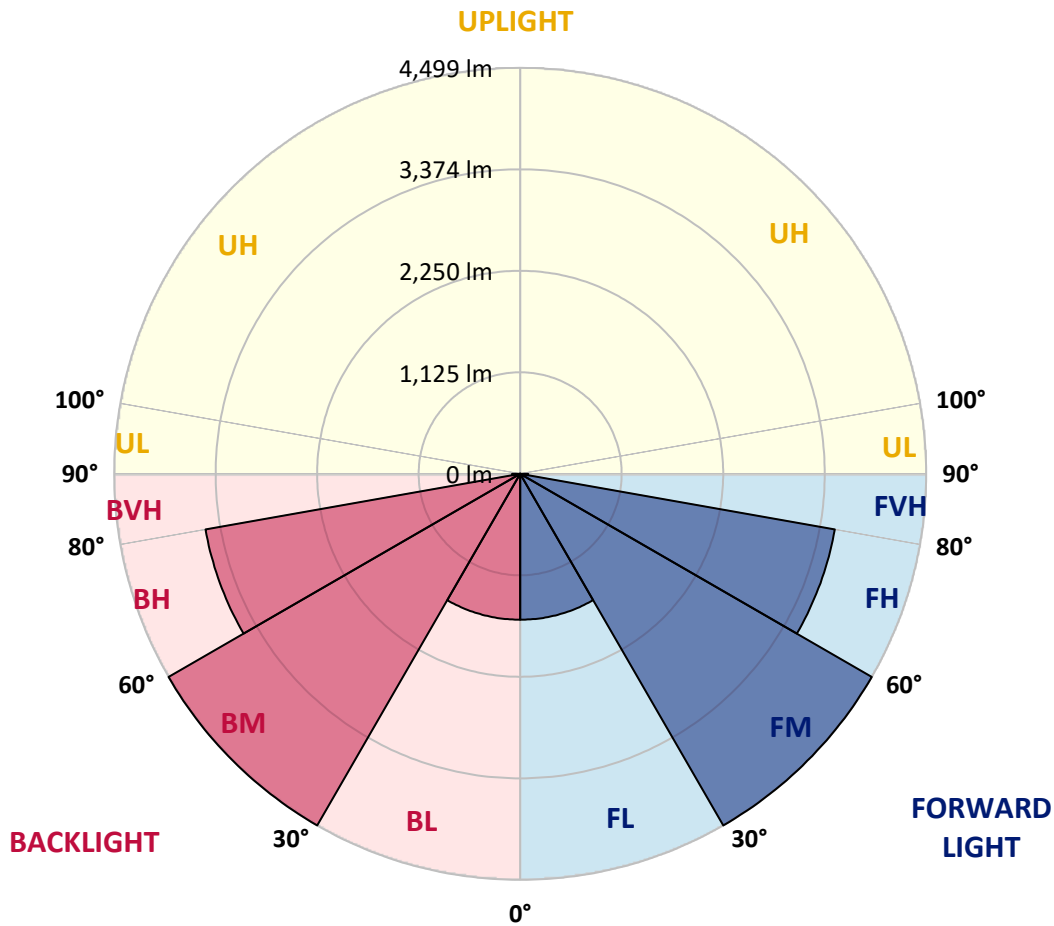
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1616.8	8.3			
FM (30°-60°)	4499.2	23.1			
FH (60°-80°)	3540.7	18.2			G2/5000
FVH (80°-90°)	89.4	0.5			G1/100
BL (0°-30°)	1616.8	8.3	B3/2500		
BM (30°-60°)	4499.2	23.1	B3/5000		
BH (60°-80°)	3540.7	18.2	B4/5000		G4/5000
BVH (80°-90°)	89.4	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°	3642.3	3642.3	3642.3	3642.3	3642.3	3642.3	3642.3	3642.3	3642.3	3642.3
2.5°	3645.4	3649.5	3649.5	3646.4	3653.7	3647.5	3647.5	3644.4	3647.5	3644.4
5°	3664.0	3669.2	3671.3	3670.3	3679.6	3674.4	3674.4	3670.3	3671.3	3668.2
7.5°	3699.3	3706.5	3710.7	3715.8	3729.3	3723.1	3718.9	3706.5	3701.3	3693.0
10°	3710.7	3718.9	3732.4	3759.3	3790.4	3791.5	3779.0	3747.9	3724.1	3705.5
12.5°	3675.4	3686.8	3714.8	3769.7	3839.1	3867.1	3847.4	3795.6	3749.0	3715.8
15°	3630.9	3643.3	3685.8	3768.7	3871.2	3936.5	3934.4	3866.0	3791.5	3739.7
17.5°	3561.5	3573.9	3635.0	3751.1	3896.1	4003.8	4032.8	3962.4	3857.8	3788.4
20°	3436.1	3447.5	3532.5	3695.1	3904.4	4075.3	4150.9	4088.8	3958.2	3864.0
22.5°	3273.5	3291.1	3390.6	3598.8	3884.7	4149.9	4285.6	4243.1	4075.3	3944.8
25°	3099.5	3118.1	3234.1	3480.7	3833.9	4203.8	4445.1	4418.2	4207.9	4045.3
27.5°	2949.3	2968.9	3095.3	3363.6	3755.2	4224.5	4602.6	4616.0	4368.5	4156.1
30°	2831.2	2849.8	2984.5	3269.4	3653.7	4203.8	4740.4	4833.6	4532.1	4252.4
32.5°	2701.7	2725.5	2867.4	3154.4	3533.5	4154.0	4860.5	5068.7	4721.7	4356.0
35°	2538.0	2559.8	2708.9	2996.9	3376.1	4074.3	4961.0	5329.8	4993.1	4513.5
37.5°	2339.1	2359.8	2508.0	2800.1	3219.6	3962.4	5037.7	5624.0	5316.3	4740.4
40°	2139.2	2158.9	2297.7	2580.5	3032.1	3819.4	5064.6	5912.0	5687.2	5052.2
42.5°	1955.8	1973.4	2100.8	2364.0	2821.8	3637.1	5029.4	6162.7	6019.7	5269.7
45°	1787.0	1802.5	1915.4	2160.9	2603.3	3415.4	4923.7	6432.0	6415.4	5425.1
47.5°	1594.3	1609.8	1726.9	1964.1	2384.7	3155.4	4744.5	6697.2	6965.5	5777.3
50°	1359.1	1372.6	1492.8	1737.2	2157.8	2878.8	4495.9	6905.4	7659.6	6310.8
52.5°	1080.5	1095.0	1212.0	1456.5	1888.5	2581.5	4168.5	7041.1	8461.4	7089.8
55°	803.9	814.2	915.8	1135.4	1554.9	2242.8	3758.3	7079.5	9370.9	8154.7
57.5°	583.2	589.4	654.7	818.4	1178.9	1819.1	3260.0	6980.0	10453.4	9520.1
60°	472.4	474.5	494.1	566.6	819.4	1340.5	2658.2	6638.2	11628.2	11280.1
62.5°	428.9	428.9	434.0	453.7	554.2	884.7	1929.9	5929.6	12887.8	13504.2
65°	398.8	398.8	400.9	410.2	437.2	563.5	1218.2	4775.6	13949.7	16109.6
67.5°	371.9	372.9	371.9	375.0	390.5	416.4	706.5	3298.4	14521.5	18809.2
70°	343.9	346.0	340.8	340.8	353.2	354.3	442.3	1808.7	14047.0	21071.6
72.5°	310.8	313.9	305.6	303.5	312.8	308.7	332.5	868.1	12060.2	21747.0
75°	281.8	285.9	267.3	262.1	262.1	259.0	270.4	445.4	7827.4	17740.1
77.5°	255.9	264.2	234.1	217.5	213.4	204.1	220.7	272.4	3423.7	8328.8
80°	211.3	222.7	192.7	173.0	165.7	155.4	174.0	190.6	1018.3	1934.1
82.5°	157.5	162.6	136.7	123.3	117.1	109.8	130.5	132.6	331.5	684.7
85°	100.5	102.6	83.9	72.5	69.4	66.3	82.9	72.5	126.4	503.5
87.5°	35.2	40.4	32.1	29.0	31.1	25.9	38.3	21.8	35.2	355.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

3642.3  
3644.4  
3668.2  
3693.0  
3702.4  
3710.7  
3731.4  
3777.0  
3846.4  
3920.9  
4012.1  
4120.9  
4201.7  
4291.8  
4442.0  
4645.1  
4950.6  
5139.2  
5249.0  
5574.3  
6056.0  
6775.9  
7762.1  
9025.9  
10657.5  
12670.3  
15055.0  
17670.7  
20772.2  
22534.3  
18974.9  
8155.8  
1852.2  
773.8  
731.4  
440.3  
0.0

OF REPORT)