

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: P943543

Luminaire Tested: **GALN-SB8A-827-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943543  
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-SB8A-827-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 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: 31203 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

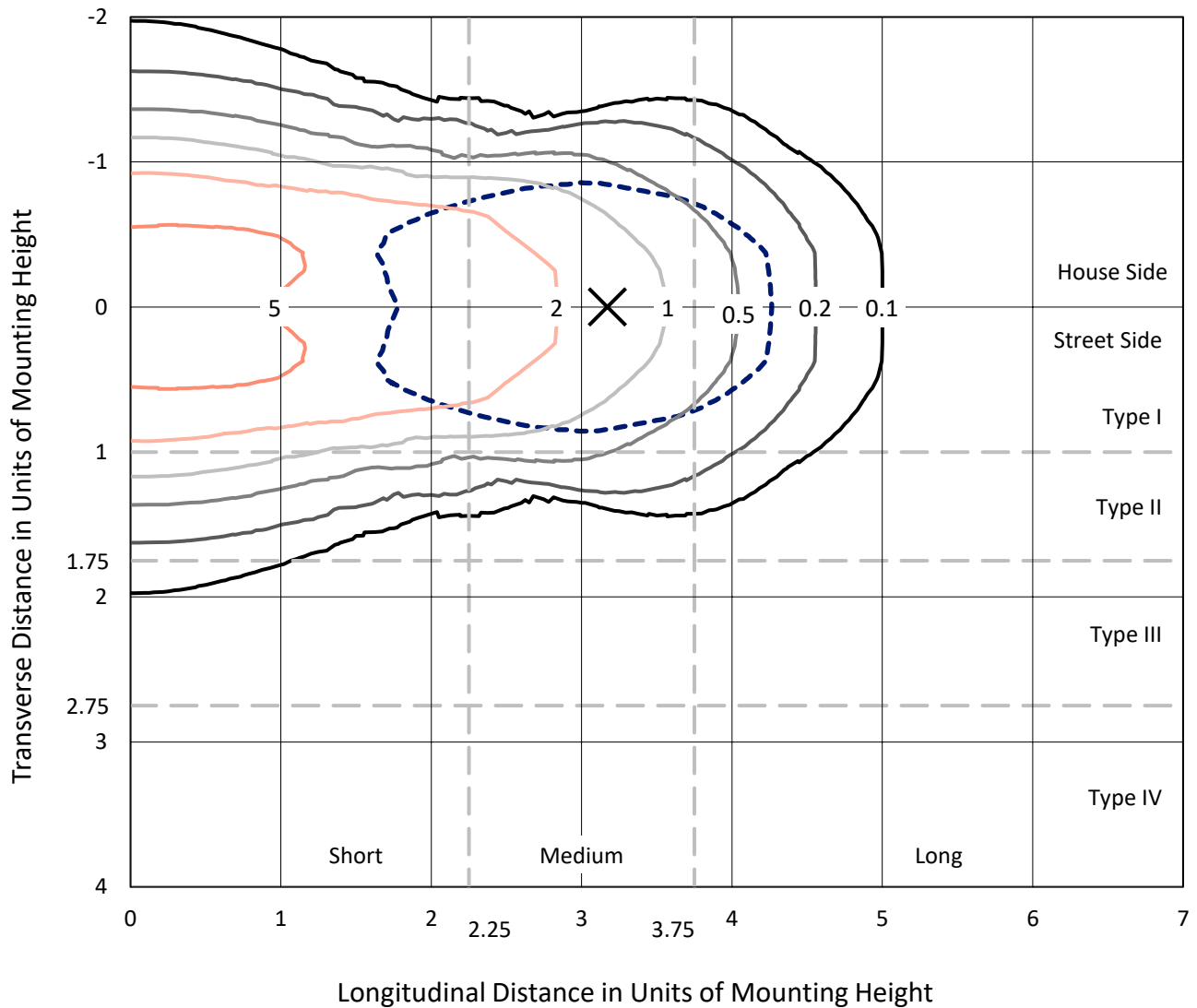
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

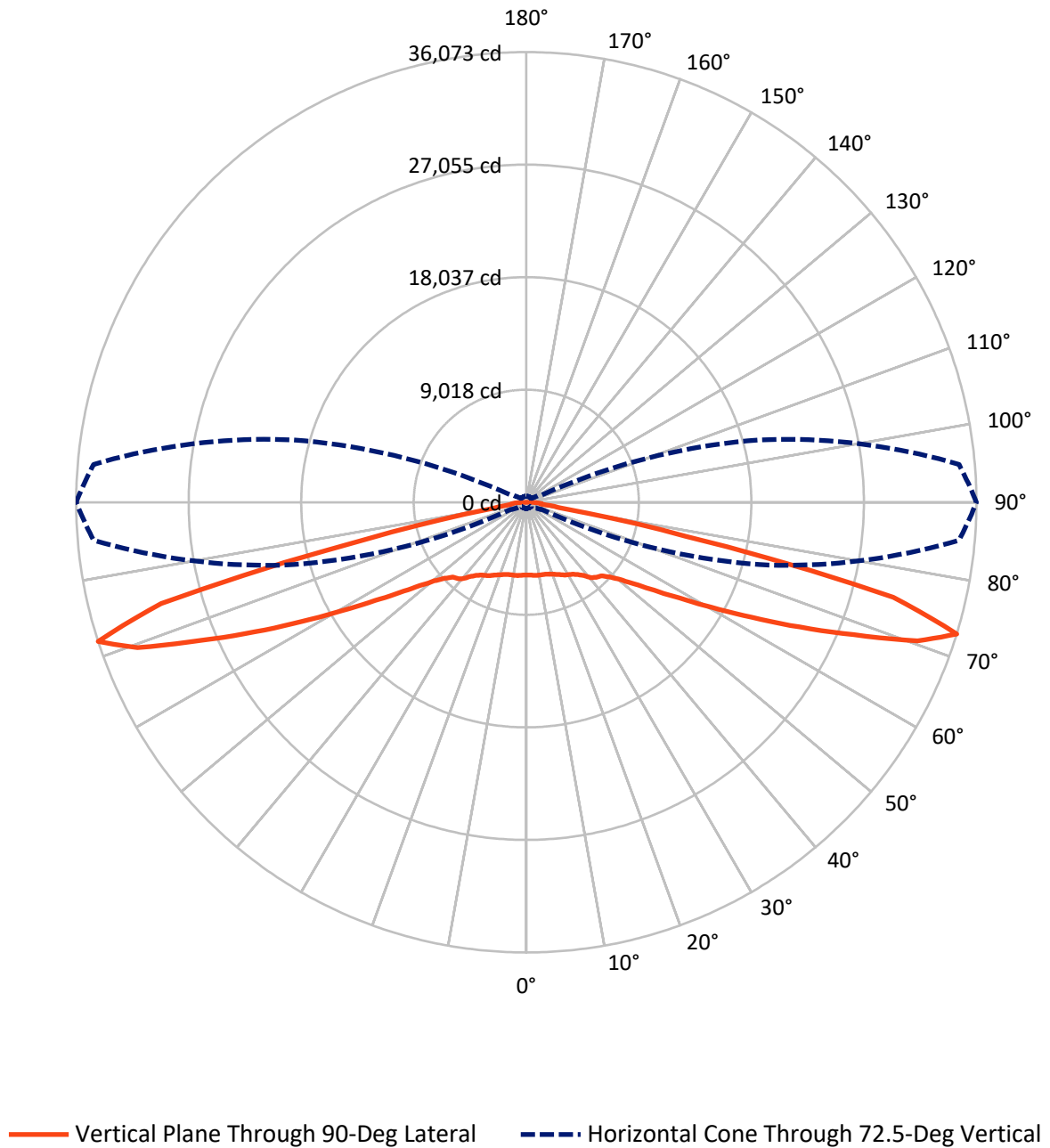
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	15601.5	0.0	15601.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15601.5	0.0	15601.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31203.0	0.0	31203.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.3	1.8
10°-20°	1728.6	5.5
20°-30°	2882.3	9.2
30°-40°	3964.1	12.7
40°-50°	4841.2	15.5
50°-60°	5599.4	17.9
60°-70°	6676.3	21.4
70°-80°	4659.6	14.9
80°-90°	286.2	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°	31203.0	100.0
0°-180°	31203.0	100.0

**Coefficient of Utilization**



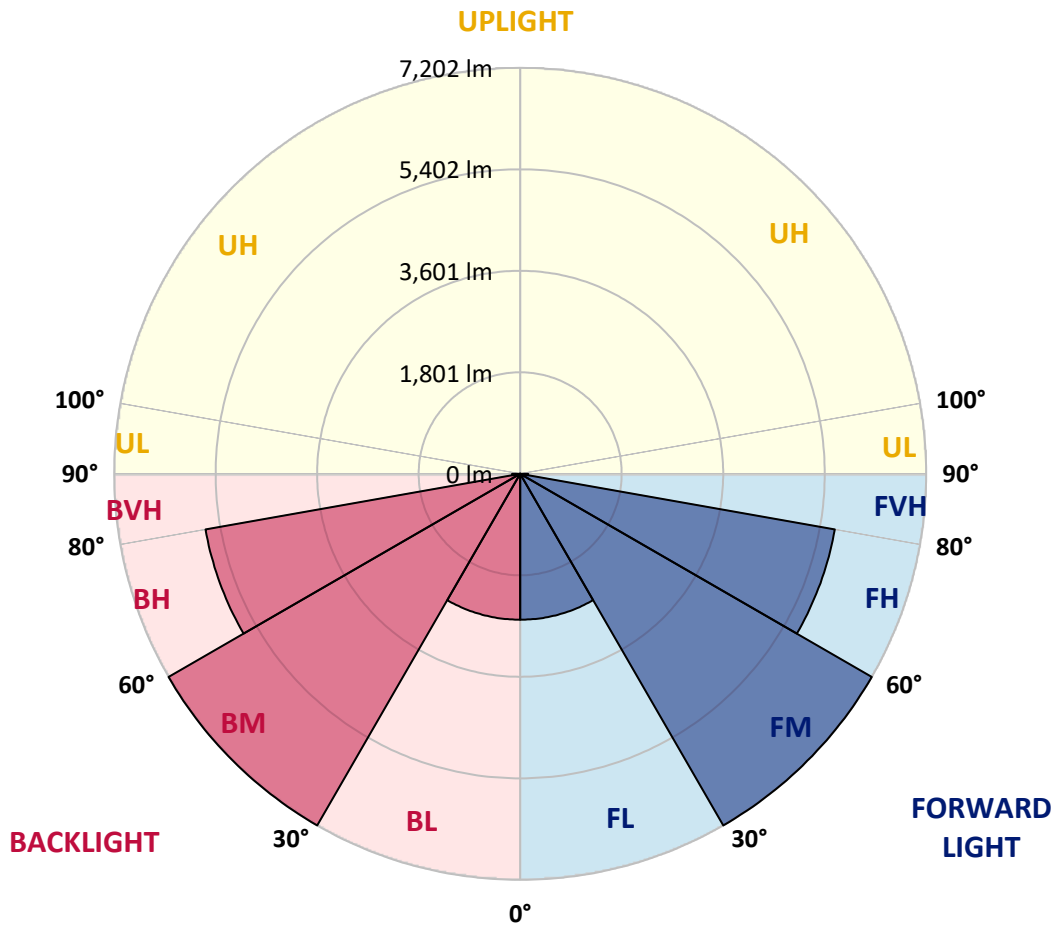
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2588.1	8.3			
FM (30°-60°)	7202.3	23.1			
FH (60°-80°)	5668.0	18.2			G3/7500
FVH (80°-90°)	143.1	0.5			G2/225
BL (0°-30°)	2588.1	8.3	B4/5000		
BM (30°-60°)	7202.3	23.1	B4/8500		
BH (60°-80°)	5668.0	18.2	B5		G5
BVH (80°-90°)	143.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6	5830.6
2.5°	5835.6	5842.2	5842.2	5837.2	5848.9	5838.9	5838.9	5833.9	5838.9	5833.9
5°	5865.4	5873.7	5877.0	5875.4	5890.3	5882.0	5882.0	5875.4	5877.0	5872.1
7.5°	5921.8	5933.4	5940.1	5948.3	5969.9	5960.0	5953.3	5933.4	5925.1	5911.9
10°	5940.1	5953.3	5974.9	6018.0	6067.7	6069.4	6049.5	5999.8	5961.6	5931.8
12.5°	5883.7	5901.9	5946.7	6034.6	6145.7	6190.5	6159.0	6076.0	6001.4	5948.3
15°	5812.4	5832.3	5900.3	6032.9	6197.1	6301.6	6298.3	6188.8	6069.4	5986.5
17.5°	5701.3	5721.2	5819.0	6004.7	6236.9	6409.4	6455.8	6343.0	6175.5	6064.4
20°	5500.6	5518.8	5654.8	5915.2	6250.2	6523.8	6644.8	6545.3	6336.4	6185.5
22.5°	5240.3	5268.4	5427.6	5761.0	6218.7	6643.2	6860.4	6792.4	6523.8	6314.8
25°	4961.7	4991.5	5177.2	5571.9	6137.4	6729.4	7115.8	7072.7	6736.0	6475.7
27.5°	4721.2	4752.7	4955.0	5384.5	6011.4	6762.6	7367.9	7389.4	6993.1	6653.1
30°	4532.2	4562.0	4777.6	5233.6	5848.9	6729.4	7588.4	7737.7	7255.1	6807.4
32.5°	4324.9	4363.0	4590.2	5049.5	5656.5	6649.8	7780.8	8114.1	7558.6	6973.2
35°	4062.9	4097.7	4336.5	4797.5	5404.4	6522.1	7941.6	8532.0	7993.0	7225.2
37.5°	3744.5	3777.6	4014.8	4482.4	5154.0	6343.0	8064.4	9003.0	8510.4	7588.4
40°	3424.4	3455.9	3678.1	4130.8	4853.9	6114.2	8107.5	9464.0	9104.1	8087.6
42.5°	3130.9	3159.1	3363.0	3784.3	4517.2	5822.3	8051.1	9865.3	9636.4	8435.8
45°	2860.6	2885.5	3066.2	3459.2	4167.3	5467.4	7881.9	10296.4	10269.9	8684.6
47.5°	2552.1	2577.0	2764.4	3144.2	3817.4	5051.2	7595.0	10721.0	11150.5	9248.4
50°	2175.7	2197.3	2389.6	2781.0	3454.3	4608.4	7197.1	11054.3	12261.5	10102.4
52.5°	1729.6	1752.8	1940.2	2331.6	3023.1	4132.5	6673.0	11271.5	13545.1	11349.5
55°	1286.8	1303.4	1465.9	1817.5	2489.1	3590.2	6016.3	11332.9	15001.1	13054.2
57.5°	933.6	943.6	1048.1	1310.1	1887.2	2912.0	5218.7	11173.7	16734.0	15239.8
60°	756.2	759.5	791.0	907.1	1311.7	2145.9	4255.2	10626.4	18614.5	18057.3
62.5°	686.5	686.5	694.8	726.3	887.2	1416.2	3089.4	9492.2	20631.0	21617.7
65°	638.4	638.4	641.8	656.7	699.8	902.1	1950.2	7644.8	22330.8	25788.3
67.5°	595.3	597.0	595.3	600.3	625.2	666.6	1131.0	5280.1	23246.2	30109.9
70°	550.6	553.9	545.6	545.6	565.5	567.1	708.1	2895.4	22486.7	33731.6
72.5°	497.5	502.5	489.2	485.9	500.8	494.2	532.3	1389.7	19306.0	34812.9
75°	451.1	457.7	427.8	419.6	419.6	414.6	432.8	713.1	12530.2	28398.5
77.5°	409.6	422.9	374.8	348.2	341.6	326.7	353.2	436.1	5480.7	13332.8
80°	338.3	356.5	308.4	276.9	265.3	248.7	278.6	305.1	1630.1	3096.1
82.5°	252.1	260.4	218.9	197.3	187.4	175.8	208.9	212.3	530.7	1096.1
85°	160.9	164.2	134.3	116.1	111.1	106.1	132.7	116.1	202.3	805.9
87.5°	56.4	64.7	51.4	46.4	49.7	41.5	61.4	34.8	56.4	568.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

5830.6  
5833.9  
5872.1  
5911.9  
5926.8  
5940.1  
5973.2  
6046.2  
6157.3  
6276.7  
6422.6  
6596.7  
6726.1  
6870.4  
7110.8  
7435.9  
7925.1  
8226.9  
8402.6  
8923.4  
9694.5  
10847.0  
12425.7  
14448.8  
17060.7  
20282.8  
24100.2  
28287.4  
33252.4  
36073.2  
30375.2  
13055.9  
2965.1  
1238.8  
1170.8  
704.8  
0.0

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