

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: P954973

Luminaire Tested: **GALN-SB8A-827-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954973  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
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-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

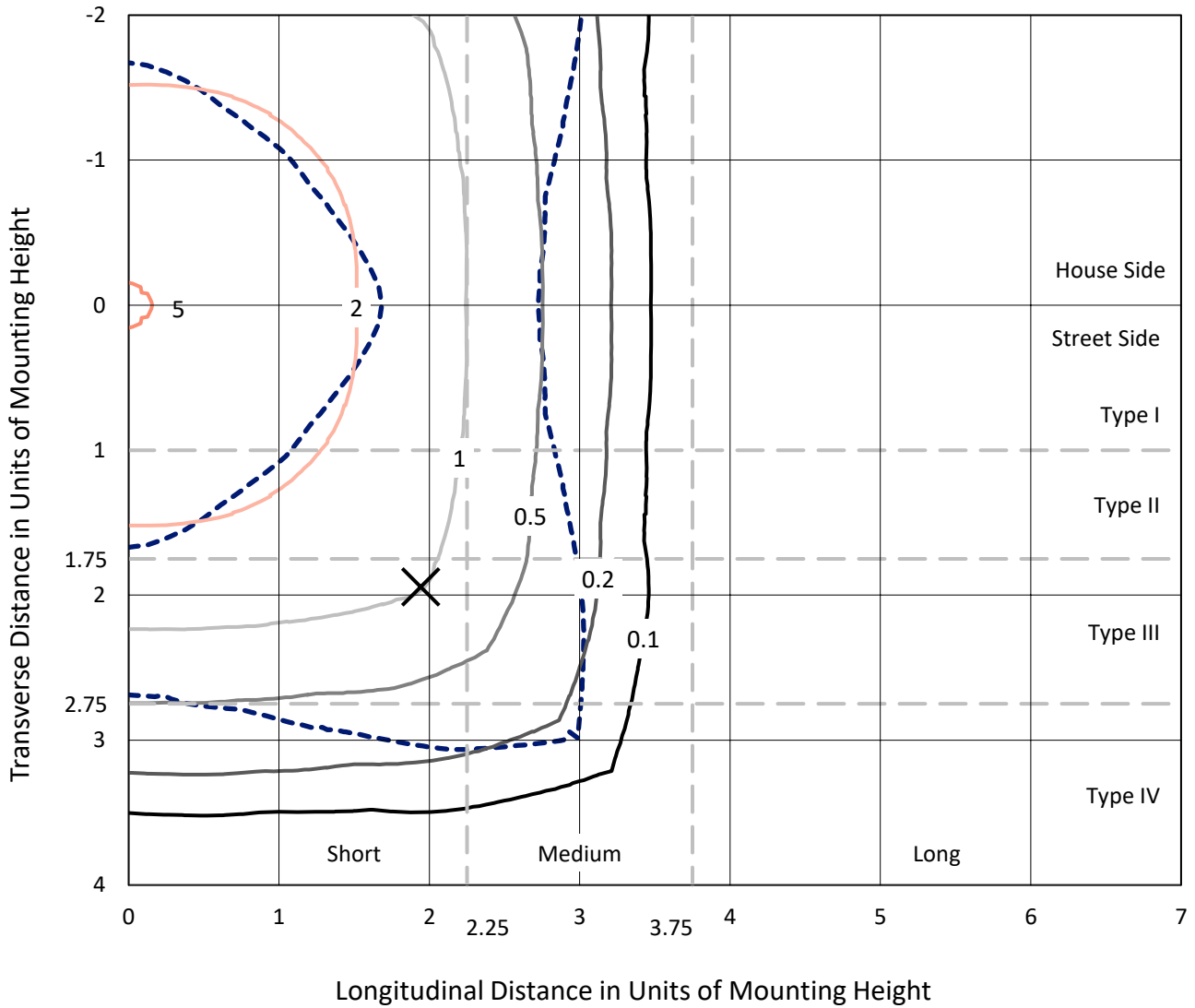
Lumens per Lamp: N/A  
Luminaire Lumens: 33032 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

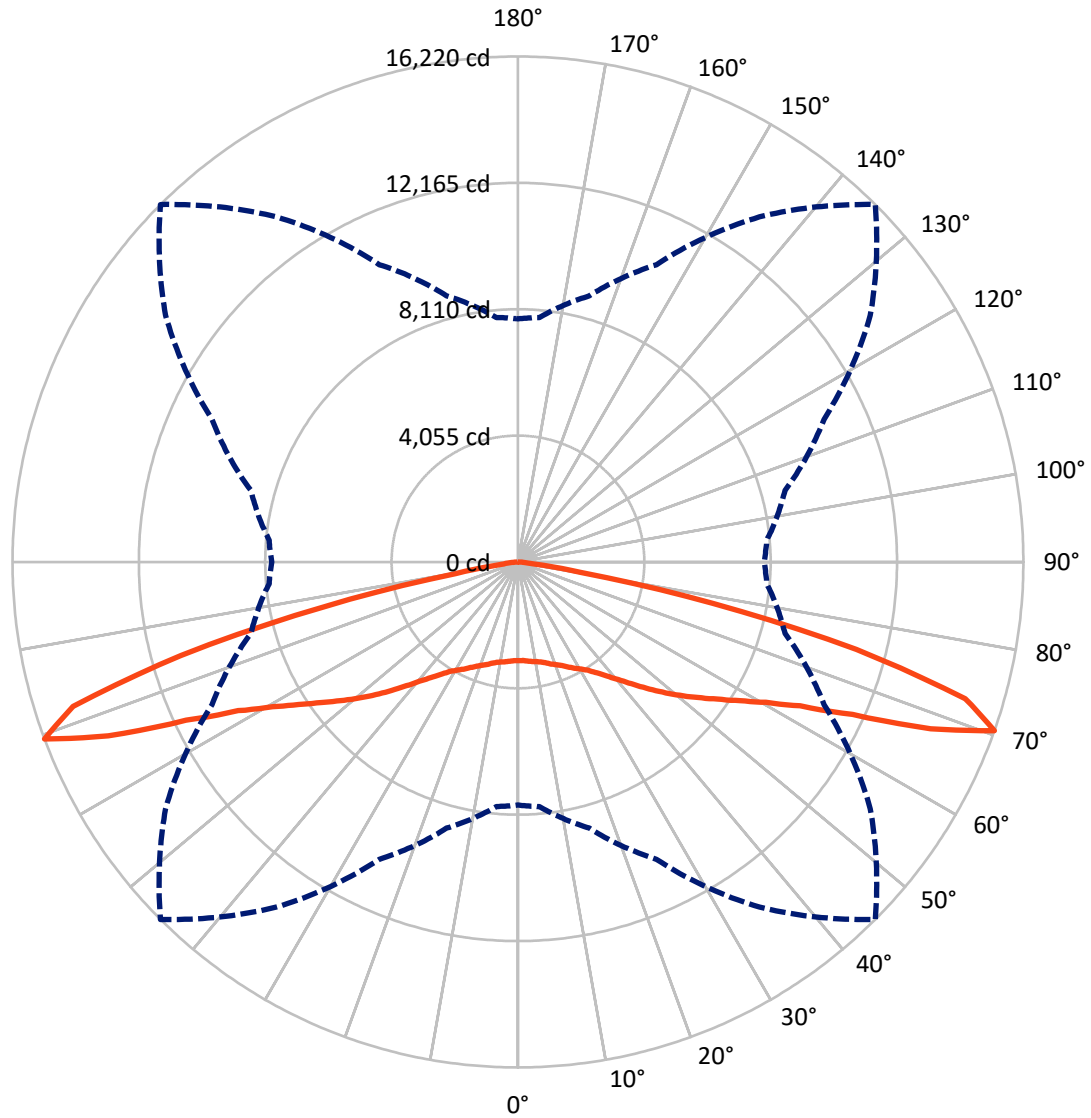
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type V - Short - N/A

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### 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
<b>House Side</b>	Lumens	16516.0	0.0	16516.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16516.0	0.0	16516.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33032.0	0.0	33032.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.4	0.9
10°-20°	953.2	2.9
20°-30°	1703.5	5.2
30°-40°	2761.3	8.4
40°-50°	4497.7	13.6
50°-60°	6857.5	20.8
60°-70°	10201.8	30.9
70°-80°	5560.3	16.8
80°-90°	189.3	0.6
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°	33032.0	100.0
0°-180°	33032.0	100.0



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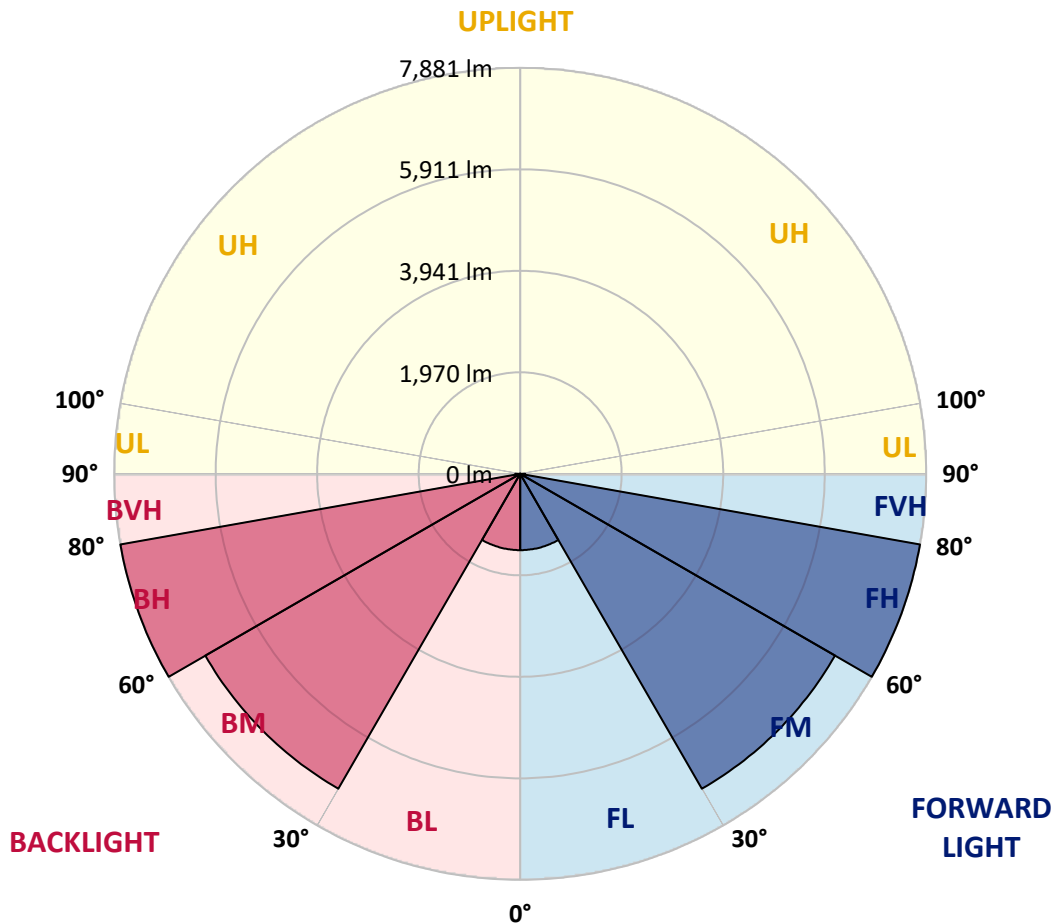
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.0	4.5			
FM (30°-60°)	7058.3	21.4			
FH (60°-80°)	7881.0	23.9			G4/12000
FVH (80°-90°)	94.7	0.3			G1/100
BL (0°-30°)	1482.0	4.5	B3/2500		
BM (30°-60°)	7058.3	21.4	B4/8500		
BH (60°-80°)	7881.0	23.9	B5		G4/12000
BVH (80°-90°)	94.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3164.1	3164.1	3164.1	3164.1	3164.1	3164.1	3164.1	3164.1	3164.1	3164.1
2.5°	3179.0	3182.4	3175.7	3172.4	3169.1	3164.1	3165.8	3174.1	3180.7	3179.0
5°	3205.6	3208.9	3203.9	3202.3	3195.6	3194.0	3194.0	3202.3	3207.2	3203.9
7.5°	3235.4	3240.4	3232.1	3230.5	3227.1	3223.8	3222.2	3230.5	3235.4	3235.4
10°	3263.6	3268.6	3262.0	3257.0	3253.7	3253.7	3250.4	3257.0	3265.3	3263.6
12.5°	3293.5	3296.8	3290.2	3286.8	3286.8	3291.8	3286.8	3290.2	3296.8	3293.5
15°	3330.0	3331.6	3330.0	3334.9	3343.2	3359.8	3344.9	3341.6	3344.9	3336.6
17.5°	3379.7	3383.0	3389.7	3401.3	3412.9	3442.7	3416.2	3407.9	3407.9	3391.3
20°	3441.1	3446.0	3456.0	3475.9	3490.8	3519.0	3492.5	3480.9	3475.9	3454.3
22.5°	3505.7	3514.0	3529.0	3555.5	3582.0	3608.6	3582.0	3562.1	3547.2	3519.0
25°	3580.4	3590.3	3613.5	3656.7	3693.1	3731.3	3699.8	3660.0	3630.1	3590.3
27.5°	3686.5	3698.1	3726.3	3779.4	3825.8	3859.0	3829.1	3777.7	3736.3	3688.2
30°	3835.8	3847.4	3880.5	3936.9	3968.4	3990.0	3970.1	3930.3	3880.5	3825.8
32.5°	4028.1	4043.0	4079.5	4132.6	4139.2	4142.5	4135.9	4116.0	4079.5	4013.2
35°	4271.9	4288.5	4329.9	4373.1	4366.4	4373.1	4363.1	4356.5	4329.9	4253.7
37.5°	4570.4	4590.3	4633.4	4666.6	4650.0	4641.7	4643.4	4645.0	4630.1	4545.5
40°	4917.0	4943.5	4975.0	5009.9	4981.7	4956.8	4973.4	4986.6	4973.4	4887.1
42.5°	5273.5	5311.7	5344.8	5394.6	5371.4	5339.9	5363.1	5378.0	5349.8	5257.0
45°	5669.9	5706.4	5749.5	5824.1	5807.5	5774.4	5807.5	5810.8	5762.8	5653.3
47.5°	6079.5	6117.6	6182.3	6281.8	6275.2	6238.7	6281.8	6258.6	6197.2	6066.2
50°	6467.5	6520.6	6620.1	6759.4	6772.7	6727.9	6786.0	6741.2	6638.4	6474.2
52.5°	6832.4	6888.8	7046.3	7235.4	7283.5	7225.4	7303.4	7225.4	7071.2	6860.6
55°	7215.5	7278.5	7465.9	7713.0	7809.2	7766.0	7839.0	7721.3	7502.4	7247.0
57.5°	7666.5	7704.7	7928.6	8222.1	8384.6	8394.5	8427.7	8228.7	7963.4	7673.2
60°	8155.7	8208.8	8452.6	8804.2	9061.2	9144.1	9109.3	8814.1	8505.7	8172.3
62.5°	8782.6	8840.6	9132.5	9553.7	9960.0	10165.7	10029.7	9601.8	9220.4	8820.7
65°	9301.7	9366.3	9893.7	10644.9	11384.5	11797.5	11455.9	10668.1	9981.6	9417.7
67.5°	8925.2	9004.8	9832.3	11212.1	13051.2	14283.3	13114.2	11381.2	10036.3	9271.8
70°	7800.9	7875.5	8840.6	10527.2	13520.5	16220.3	13802.4	10837.3	8872.1	8016.4
72.5°	5179.0	5419.5	6396.2	8419.4	12072.8	15009.7	12192.2	8248.6	5933.6	5167.4
75°	1718.0	1910.4	2577.1	4364.8	8086.1	11225.3	7698.0	3862.3	2041.4	1469.3
77.5°	432.8	499.2	688.2	1248.7	3225.5	6391.3	2903.8	1019.9	555.5	388.1
80°	210.6	232.2	331.7	416.2	807.6	2031.5	757.9	391.4	262.0	202.3
82.5°	116.1	117.7	187.4	235.5	300.2	525.7	311.8	228.9	150.9	122.7
85°	71.3	69.7	99.5	126.0	126.0	187.4	149.3	126.0	86.2	76.3
87.5°	28.2	28.2	36.5	39.8	34.8	48.1	38.1	41.5	33.2	31.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3164.1
3180.7
3205.6
3235.4
3263.6
3291.8
3336.6
3391.3
3454.3
3517.4
3588.7
3686.5
3825.8
4014.9
4253.7
4545.5
4887.1
5263.6
5664.9
6057.9
6470.9
6840.7
7212.1
7633.4
8119.3
8751.1
9324.9
9157.4
7902.0
4999.9
1389.7
346.6
185.7
122.7
79.6
33.2
0.0

OF REPORT)