

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: P948904

Luminaire Tested: **GALN-SB3D-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948904
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-SB3D-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27804 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

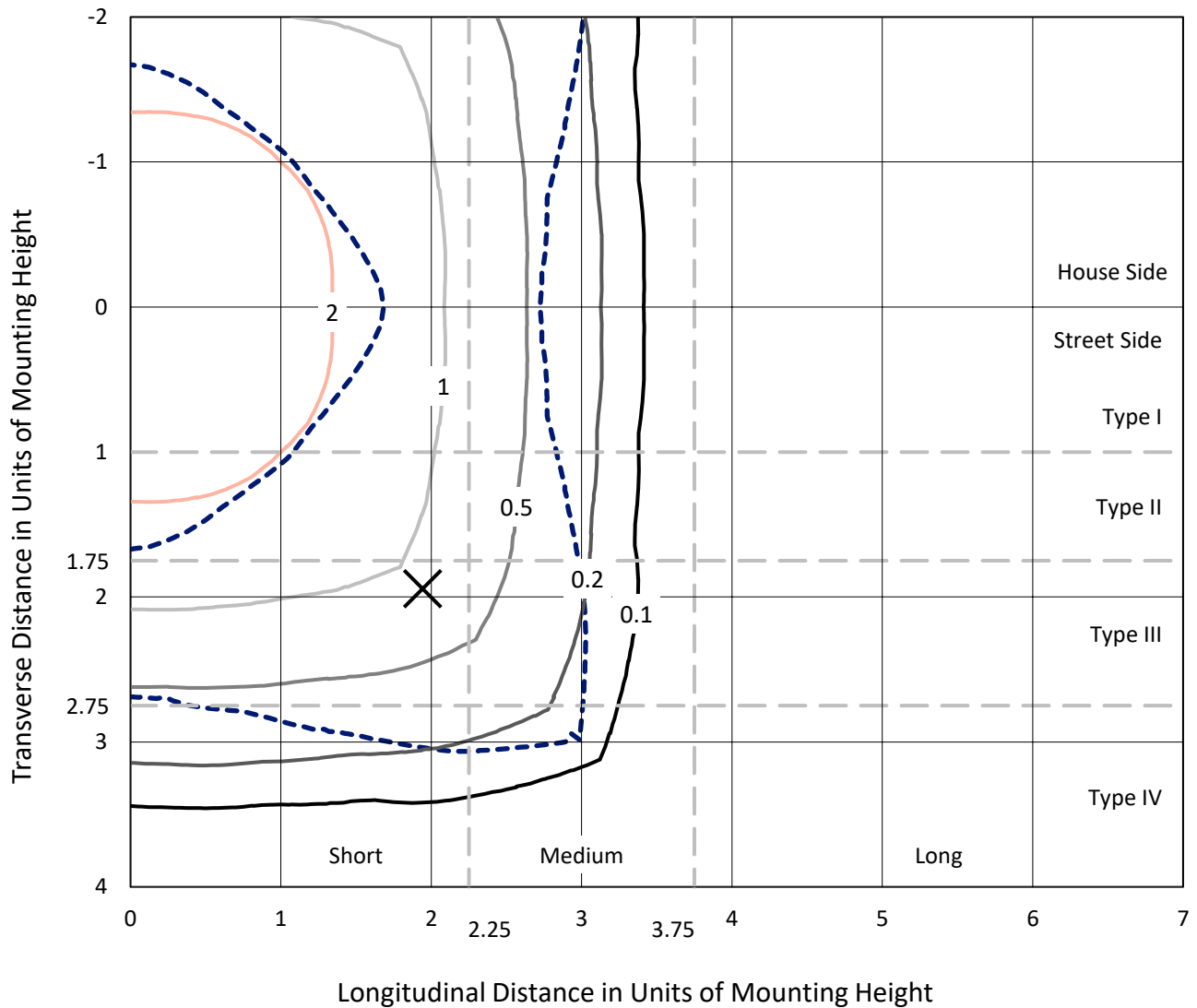
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

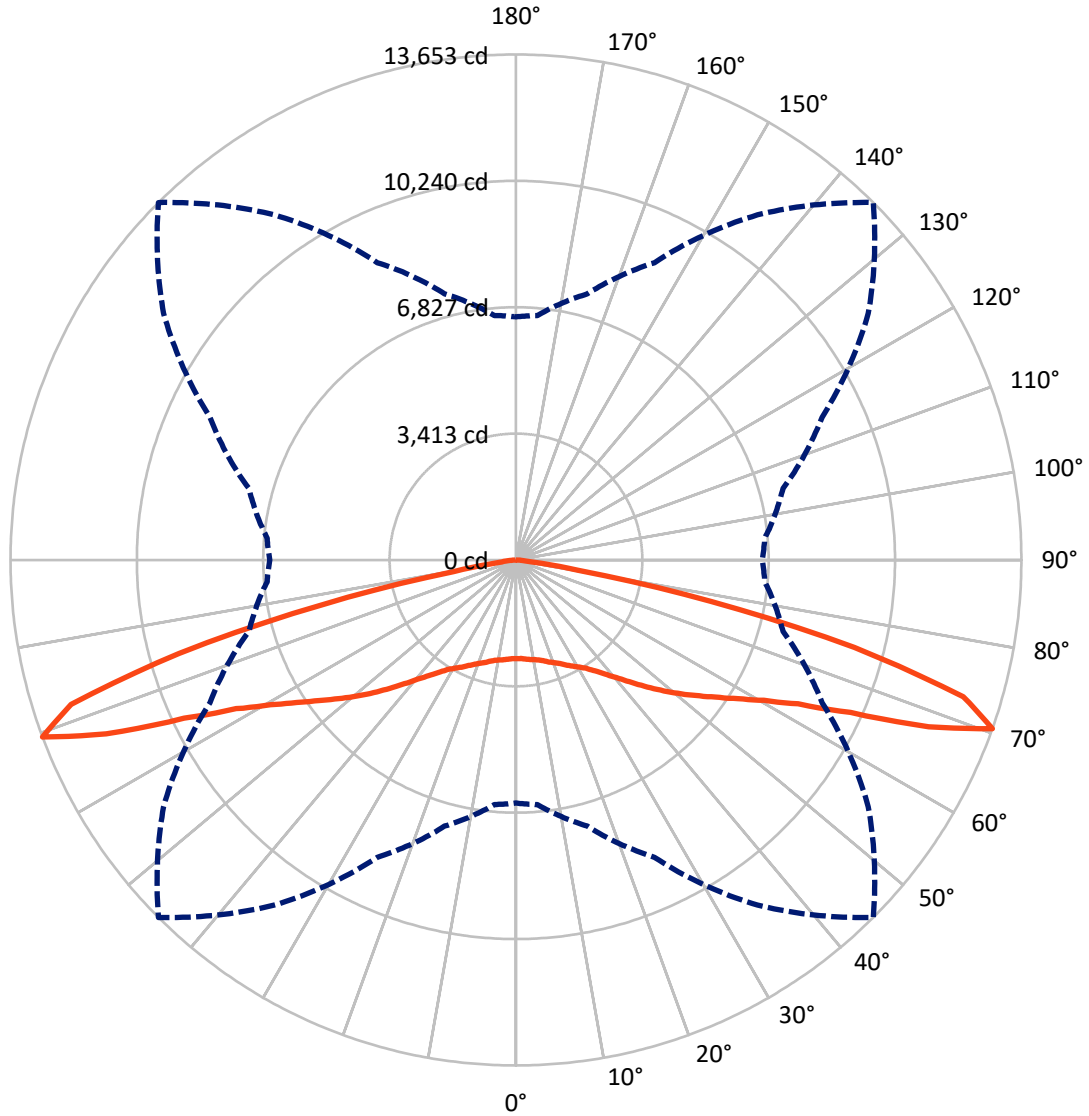
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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
House Side	Lumens	13902.0	0.0	13902.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13902.0	0.0	13902.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27804.0	0.0	27804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.7	0.9
10°-20°	802.3	2.9
20°-30°	1433.9	5.2
30°-40°	2324.3	8.4
40°-50°	3785.9	13.6
50°-60°	5772.2	20.8
60°-70°	8587.1	30.9
70°-80°	4680.3	16.8
80°-90°	159.4	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°	27804.0	100.0
0°-180°	27804.0	100.0

Coefficient of Utilization



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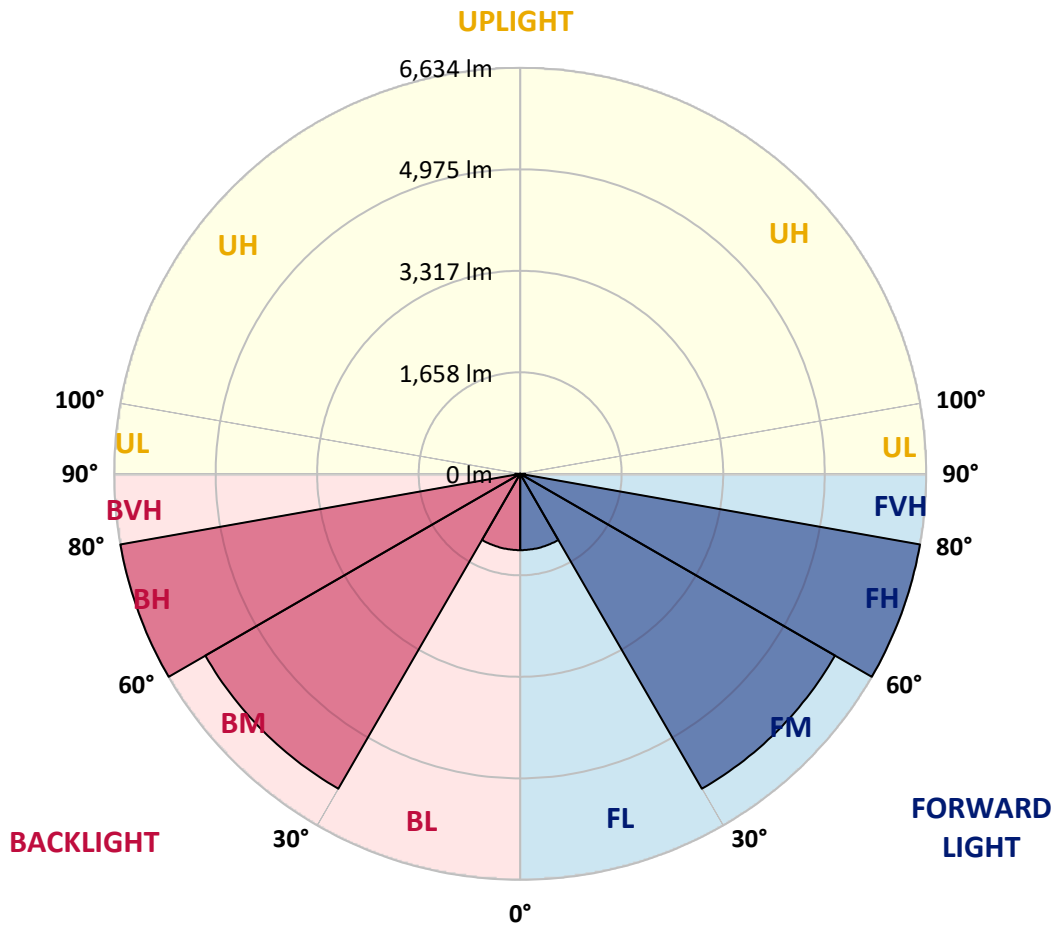
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.5	4.5			
FM (30°-60°)	5941.1	21.4			
FH (60°-80°)	6633.7	23.9			G3/7500
FVH (80°-90°)	79.7	0.3			G1/100
BL (0°-30°)	1247.5	4.5	B3/2500		
BM (30°-60°)	5941.1	21.4	B4/8500		
BH (60°-80°)	6633.7	23.9	B5		G3/7500
BVH (80°-90°)	79.7	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2663.3	2663.3	2663.3	2663.3	2663.3	2663.3	2663.3	2663.3	2663.3	2663.3
2.5°	2675.9	2678.7	2673.1	2670.3	2667.5	2663.3	2664.7	2671.7	2677.3	2675.9
5°	2698.2	2701.0	2696.8	2695.4	2689.9	2688.5	2688.5	2695.4	2699.6	2696.8
7.5°	2723.4	2727.5	2720.6	2719.2	2716.4	2713.6	2712.2	2719.2	2723.4	2723.4
10°	2747.1	2751.3	2745.7	2741.5	2738.7	2738.7	2735.9	2741.5	2748.5	2747.1
12.5°	2772.2	2775.0	2769.4	2766.6	2766.6	2770.8	2766.6	2769.4	2775.0	2772.2
15°	2802.9	2804.3	2802.9	2807.1	2814.1	2828.0	2815.5	2812.7	2815.5	2808.5
17.5°	2844.8	2847.6	2853.2	2862.9	2872.7	2897.8	2875.5	2868.5	2868.5	2854.6
20°	2896.4	2900.6	2909.0	2925.8	2938.3	2962.1	2939.7	2929.9	2925.8	2907.6
22.5°	2950.9	2957.9	2970.4	2992.8	3015.1	3037.4	3015.1	2998.3	2985.8	2962.1
25°	3013.7	3022.1	3041.6	3077.9	3108.6	3140.7	3114.2	3080.7	3055.6	3022.1
27.5°	3103.0	3112.8	3136.5	3181.2	3220.3	3248.2	3223.1	3179.8	3144.9	3104.4
30°	3228.7	3238.4	3266.4	3313.8	3340.3	3358.5	3341.7	3308.2	3266.4	3220.3
32.5°	3390.6	3403.2	3433.9	3478.5	3484.1	3486.9	3481.3	3464.6	3433.9	3378.0
35°	3595.8	3609.7	3644.6	3680.9	3675.3	3680.9	3672.6	3667.0	3644.6	3580.4
37.5°	3847.0	3863.8	3900.1	3928.0	3914.0	3907.1	3908.5	3909.9	3897.3	3826.1
40°	4138.8	4161.1	4187.6	4216.9	4193.2	4172.3	4186.2	4197.4	4186.2	4113.7
42.5°	4438.9	4471.0	4498.9	4540.8	4521.2	4494.7	4514.3	4526.8	4503.1	4424.9
45°	4772.5	4803.2	4839.5	4902.3	4888.4	4860.4	4888.4	4891.2	4850.7	4758.5
47.5°	5117.3	5149.4	5203.8	5287.6	5282.0	5251.3	5287.6	5268.0	5216.4	5106.1
50°	5443.9	5488.6	5572.3	5689.6	5700.8	5663.1	5711.9	5674.2	5587.7	5449.5
52.5°	5751.0	5798.5	5931.1	6090.2	6130.7	6081.8	6147.4	6081.8	5952.0	5774.7
55°	6073.5	6126.5	6284.2	6492.2	6573.2	6536.9	6598.3	6499.2	6315.0	6100.0
57.5°	6453.1	6485.2	6673.7	6920.8	7057.6	7065.9	7093.9	6926.3	6703.0	6458.7
60°	6864.9	6909.6	7114.8	7410.7	7627.1	7696.9	7667.6	7419.1	7159.5	6878.9
62.5°	7392.6	7441.4	7687.1	8041.7	8383.6	8556.7	8442.3	8082.1	7761.1	7424.7
65°	7829.5	7883.9	8327.8	8960.1	9582.7	9930.3	9642.7	8979.7	8401.8	7927.2
67.5°	7512.6	7579.6	8276.2	9437.5	10985.6	12022.7	11038.6	9579.9	8447.9	7804.4
70°	6566.2	6629.0	7441.4	8861.0	11380.6	13653.1	11617.9	9122.1	7467.9	6747.7
72.5°	4359.3	4561.7	5383.9	7086.9	10162.0	12634.1	10262.5	6943.1	4994.5	4349.6
75°	1446.1	1608.1	2169.2	3674.0	6806.3	9448.7	6479.7	3251.0	1718.3	1236.7
77.5°	364.3	420.2	579.3	1051.1	2715.0	5379.7	2444.2	858.5	467.6	326.6
80°	177.3	195.4	279.2	350.4	679.8	1710.0	637.9	329.4	220.5	170.3
82.5°	97.7	99.1	157.7	198.2	252.7	442.5	262.4	192.6	127.0	103.3
85°	60.0	58.6	83.8	106.1	106.1	157.7	125.6	106.1	72.6	64.2
87.5°	23.7	23.7	30.7	33.5	29.3	40.5	32.1	34.9	27.9	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2663.3
2677.3
2698.2
2723.4
2747.1
2770.8
2808.5
2854.6
2907.6
2960.7
3020.7
3103.0
3220.3
3379.4
3580.4
3826.1
4113.7
4430.5
4768.3
5099.1
5446.7
5758.0
6070.7
6425.2
6834.2
7366.0
7849.0
7708.0
6651.4
4208.6
1169.7
291.7
156.3
103.3
67.0
27.9
0.0

OF REPORT)