

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: P940650

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
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-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26855 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

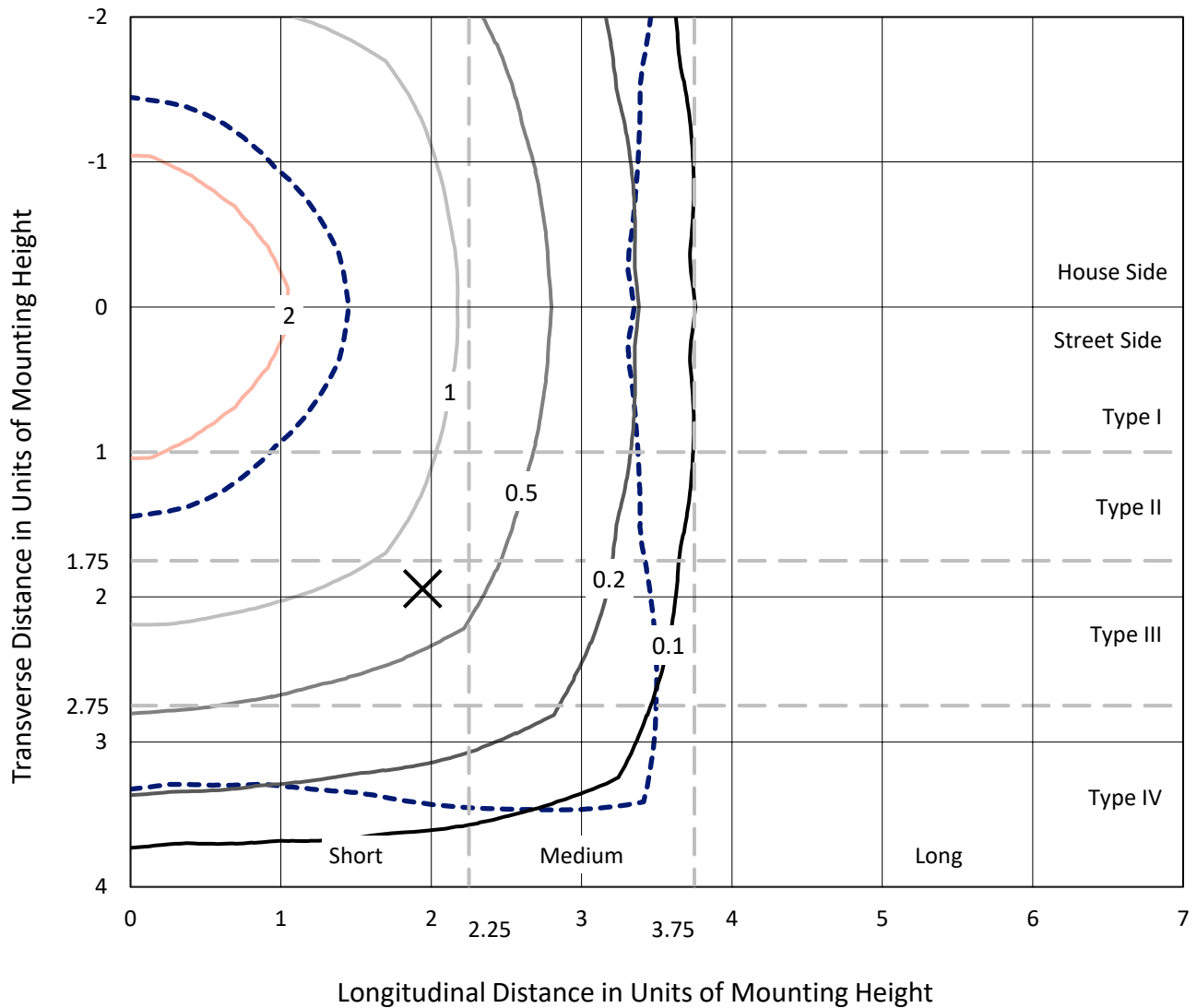
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

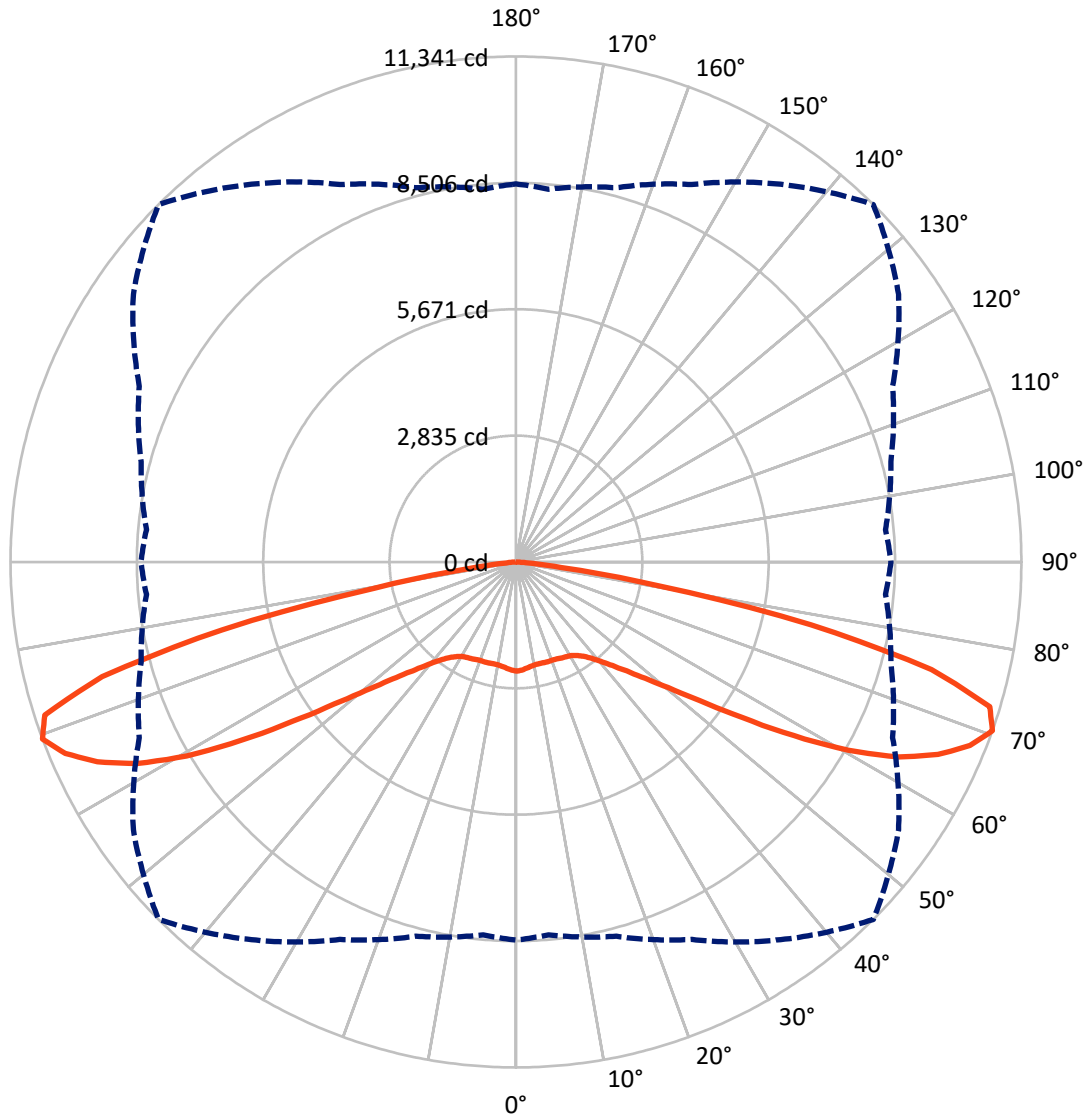
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	13427.5	0.0	13427.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13427.5	0.0	13427.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26855.0	0.0	26855.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	0.8
10°-20°	669.1	2.5
20°-30°	1113.5	4.1
30°-40°	1684.0	6.3
40°-50°	2798.3	10.4
50°-60°	5280.4	19.7
60°-70°	8916.1	33.2
70°-80°	5858.8	21.8
80°-90°	306.9	1.1
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°	26855.0	100.0
0°-180°	26855.0	100.0



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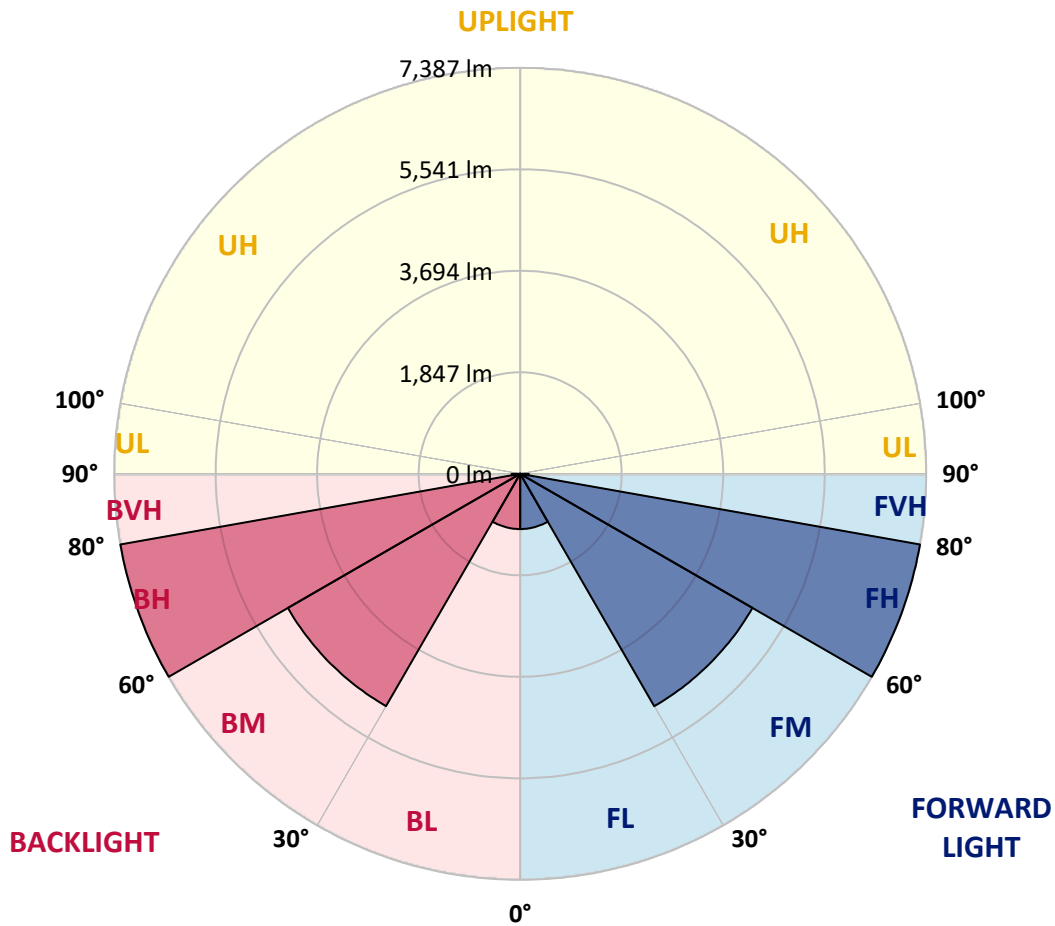
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.2	3.7			
FM (30°-60°)	4881.3	18.2			
FH (60°-80°)	7387.5	27.5			G3/7500
FVH (80°-90°)	153.5	0.6			G2/225
BL (0°-30°)	1005.2	3.7	B3/2500		
BM (30°-60°)	4881.3	18.2	B3/5000		
BH (60°-80°)	7387.5	27.5	B5		G3/7500
BVH (80°-90°)	153.5	0.6			G2/225
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°	2449.7	2449.7	2449.7	2449.7	2449.7	2449.7	2449.7	2449.7	2449.7	2449.7
2.5°	2434.4	2441.3	2438.5	2433.0	2433.0	2428.8	2433.0	2435.8	2439.9	2442.7
5°	2402.3	2407.8	2406.4	2402.3	2403.7	2399.5	2402.3	2406.4	2409.2	2410.6
7.5°	2374.3	2379.9	2377.1	2370.2	2370.2	2366.0	2367.4	2371.5	2375.7	2377.1
10°	2367.4	2372.9	2364.6	2353.4	2349.2	2343.6	2345.0	2349.2	2357.6	2361.8
12.5°	2370.2	2374.3	2366.0	2349.2	2345.0	2339.4	2339.4	2343.6	2354.8	2360.4
15°	2378.5	2382.7	2370.2	2352.0	2347.8	2343.6	2342.2	2347.8	2360.4	2370.2
17.5°	2393.9	2398.1	2378.5	2353.4	2347.8	2349.2	2347.8	2352.0	2371.5	2389.7
20°	2407.8	2410.6	2384.1	2353.4	2347.8	2349.2	2347.8	2356.2	2381.3	2406.4
22.5°	2412.0	2414.8	2389.7	2363.2	2359.0	2360.4	2359.0	2367.4	2391.1	2416.2
25°	2413.4	2417.6	2398.1	2377.1	2384.1	2386.9	2384.1	2385.5	2403.7	2426.0
27.5°	2434.4	2439.9	2421.8	2403.7	2407.8	2406.4	2410.6	2414.8	2428.8	2451.1
30°	2477.6	2481.8	2466.5	2448.3	2445.5	2435.8	2448.3	2462.3	2477.6	2497.2
32.5°	2548.8	2557.2	2537.7	2518.1	2505.6	2500.0	2509.7	2533.5	2554.4	2575.3
35°	2667.5	2673.1	2654.9	2618.6	2596.3	2596.3	2604.7	2635.4	2668.9	2695.4
37.5°	2835.0	2842.0	2809.8	2766.6	2733.1	2733.1	2744.2	2776.3	2826.6	2864.3
40°	3038.8	3048.5	3008.1	2963.4	2931.3	2925.7	2939.7	2976.0	3023.4	3070.9
42.5°	3284.4	3295.6	3242.6	3203.5	3178.4	3178.4	3185.3	3218.8	3262.1	3320.7
45°	3598.5	3618.0	3545.5	3506.4	3482.6	3488.2	3492.4	3521.7	3560.8	3627.8
47.5°	3972.6	3992.1	3915.4	3874.9	3870.7	3897.2	3880.5	3901.4	3922.3	3999.1
50°	4396.9	4430.4	4377.4	4374.6	4383.0	4431.8	4392.7	4403.9	4380.2	4429.0
52.5°	4916.2	4965.0	4955.3	4972.0	5065.5	5166.0	5076.7	5037.6	4948.3	4963.6
55°	5545.7	5619.7	5633.7	5734.2	5946.3	6151.5	5961.7	5803.9	5614.1	5579.2
57.5°	6261.8	6320.4	6387.4	6592.6	6989.0	7353.3	6989.0	6640.1	6341.3	6270.2
60°	7032.3	7104.9	7169.1	7472.0	8061.0	8573.3	8049.9	7495.7	7100.7	7004.4
62.5°	7860.0	7953.6	7998.2	8334.6	9021.4	9632.8	9031.1	8359.7	7921.4	7818.2
65°	8654.3	8731.0	8781.3	9140.0	9796.1	10408.9	9840.7	9179.1	8728.2	8592.9
67.5°	9024.2	9066.0	9188.9	9595.1	10287.4	10986.7	10404.7	9638.3	9134.4	8897.1
70°	8482.6	8397.4	8693.4	9343.8	10346.0	11341.3	10480.0	9324.3	8707.3	8322.1
72.5°	6554.9	6408.3	6922.0	8034.5	9676.0	11115.2	9743.0	8097.3	7241.7	6460.0
75°	3566.4	3400.3	4109.4	5516.4	7716.3	9634.2	7893.5	5674.1	4575.6	3539.9
77.5°	1006.4	943.6	1515.9	2668.9	4641.2	6764.3	4819.9	2727.5	1797.9	1066.4
80°	308.5	298.7	404.8	804.0	1970.9	3239.8	1894.2	813.8	515.1	325.2
82.5°	182.9	167.5	201.0	293.1	502.5	1017.6	488.5	305.7	245.7	164.7
85°	104.7	97.7	118.6	142.4	168.9	216.4	141.0	145.2	131.2	87.9
87.5°	43.3	39.1	46.1	44.7	39.1	50.3	37.7	44.7	53.0	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
2449.7
2441.3
2410.6
2377.1
2361.8
2361.8
2371.5
2389.7
2407.8
2416.2
2424.6
2445.5
2493.0
2567.0
2685.6
2850.3
3055.5
3316.5
3625.0
3976.8
4399.7
4912.0
5524.8
6219.9
6920.6
7734.4
8525.9
8899.9
8414.2
6654.0
3770.2
1185.1
343.4
178.7
92.1
32.1
0.0

OF REPORT)