

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: P940680

Luminaire Tested: **GALN-SB3D-840-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940680  
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-840-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

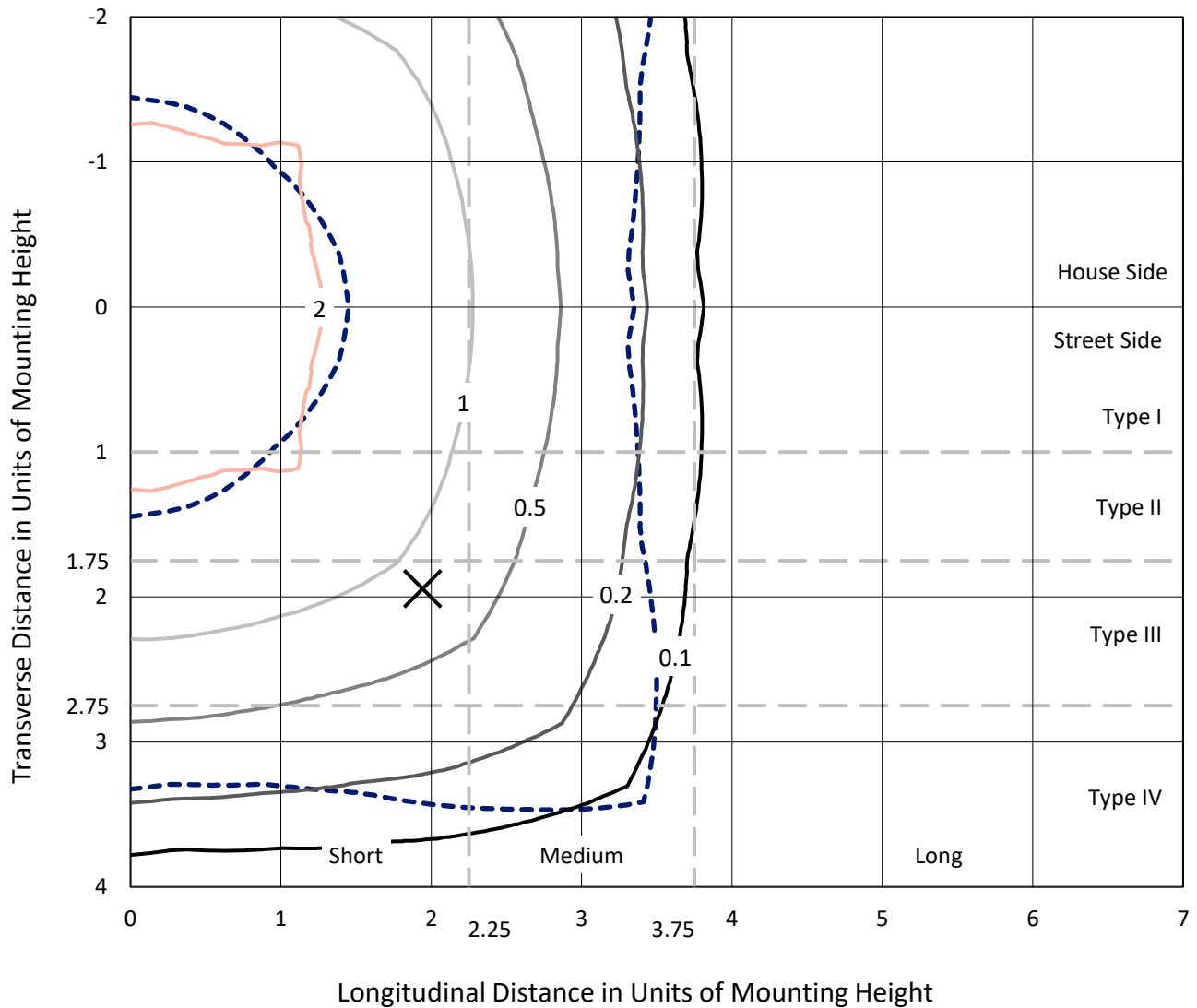
Lumens per Lamp: N/A  
Luminaire Lumens: 29540 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

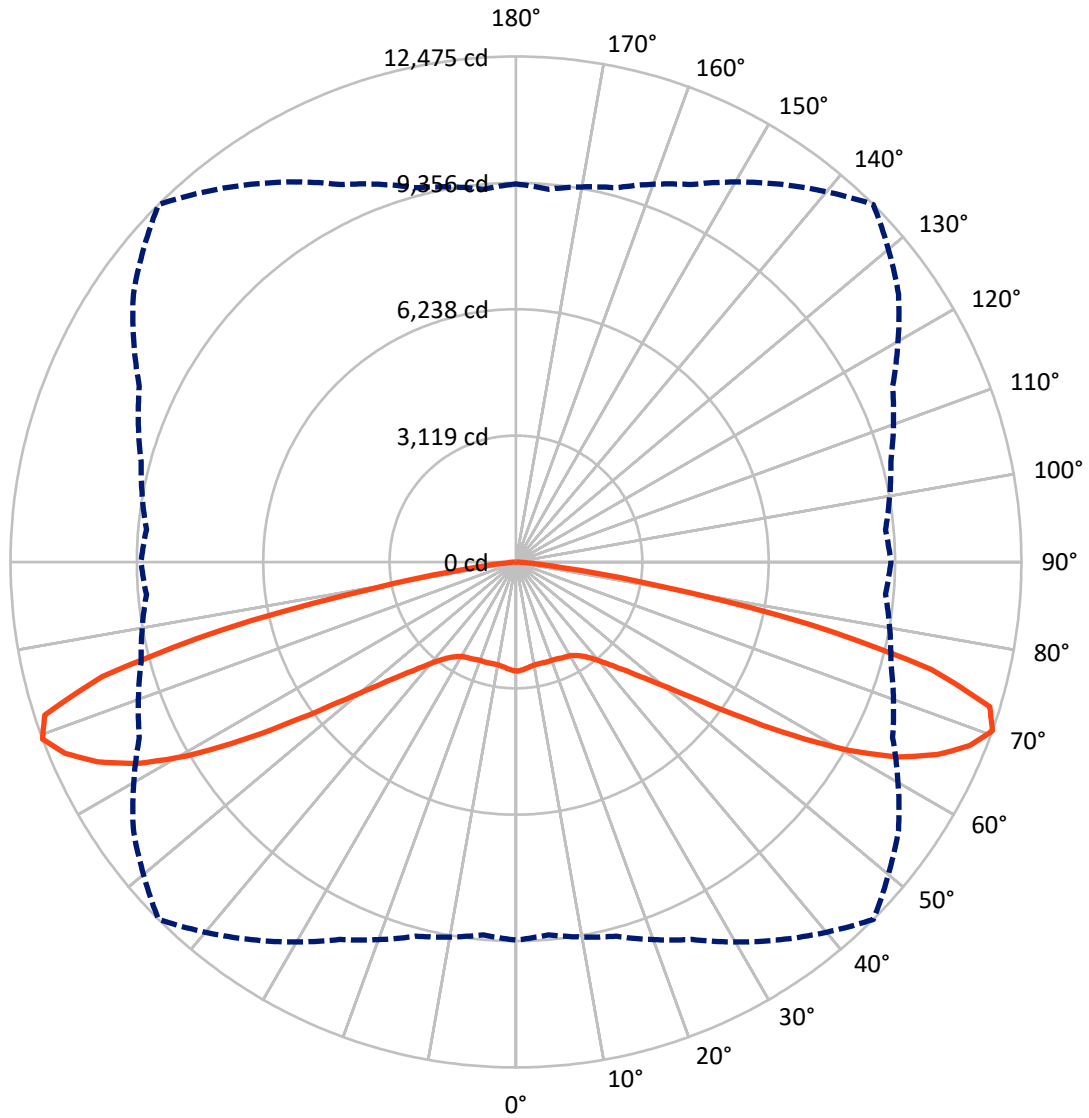
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	14770.0	0.0	14770.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14770.0	0.0	14770.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29540.0	0.0	29540.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.7	0.8
10°-20°	736.0	2.5
20°-30°	1224.8	4.1
30°-40°	1852.3	6.3
40°-50°	3078.1	10.4
50°-60°	5808.3	19.7
60°-70°	9807.5	33.2
70°-80°	6444.6	21.8
80°-90°	337.6	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°	29540.0	100.0
0°-180°	29540.0	100.0



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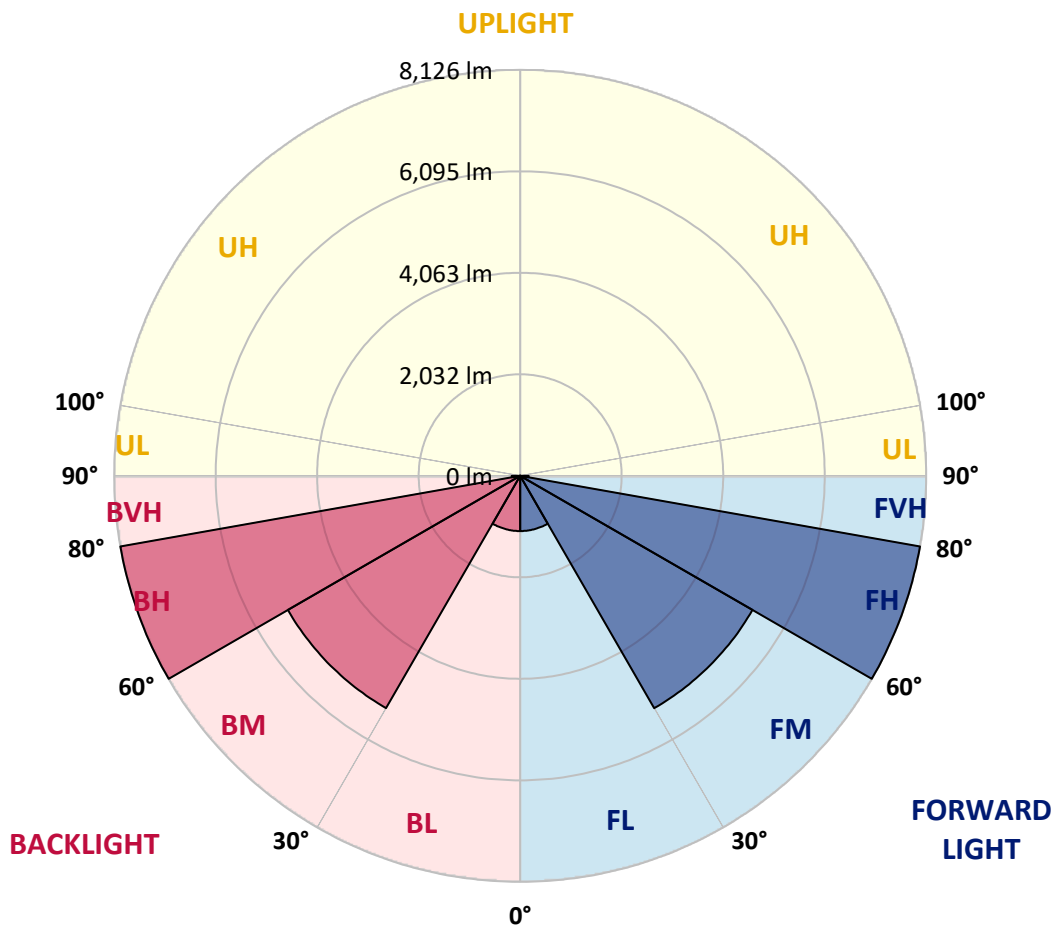
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1105.8	3.7			
FM (30°-60°)	5369.4	18.2			
FH (60°-80°)	8126.1	27.5			G4/12000
FVH (80°-90°)	168.8	0.6			G2/225
BL (0°-30°)	1105.8	3.7	B3/2500		
BM (30°-60°)	5369.4	18.2	B4/8500		
BH (60°-80°)	8126.1	27.5	B5		G4/12000
BVH (80°-90°)	168.8	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-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2694.6	2694.6	2694.6	2694.6	2694.6	2694.6	2694.6	2694.6	2694.6	2694.6
2.5°	2677.8	2685.4	2682.4	2676.2	2676.2	2671.6	2676.2	2679.3	2683.9	2687.0
5°	2642.4	2648.6	2647.0	2642.4	2644.0	2639.4	2642.4	2647.0	2650.1	2651.7
7.5°	2611.7	2617.9	2614.8	2607.1	2607.1	2602.5	2604.1	2608.7	2613.3	2614.8
10°	2604.1	2610.2	2601.0	2588.7	2584.1	2578.0	2579.5	2584.1	2593.3	2597.9
12.5°	2607.1	2611.7	2602.5	2584.1	2579.5	2573.3	2573.3	2578.0	2590.2	2596.4
15°	2616.3	2620.9	2607.1	2587.2	2582.6	2578.0	2576.4	2582.6	2596.4	2607.1
17.5°	2633.2	2637.8	2616.3	2588.7	2582.6	2584.1	2582.6	2587.2	2608.7	2628.6
20°	2648.6	2651.7	2622.5	2588.7	2582.6	2584.1	2582.6	2591.8	2619.4	2647.0
22.5°	2653.2	2656.3	2628.6	2599.4	2594.8	2596.4	2594.8	2604.1	2630.2	2657.8
25°	2654.7	2659.3	2637.8	2614.8	2622.5	2625.5	2622.5	2624.0	2644.0	2668.5
27.5°	2677.8	2683.9	2663.9	2644.0	2648.6	2647.0	2651.7	2656.3	2671.6	2696.2
30°	2725.4	2730.0	2713.1	2693.1	2690.0	2679.3	2693.1	2708.5	2725.4	2746.8
32.5°	2803.7	2812.9	2791.4	2769.9	2756.1	2749.9	2760.7	2786.8	2809.8	2832.8
35°	2934.2	2940.3	2920.3	2880.4	2855.9	2855.9	2865.1	2898.9	2935.7	2964.9
37.5°	3118.4	3126.1	3090.8	3043.2	3006.3	3006.3	3018.6	3053.9	3109.2	3150.7
40°	3342.6	3353.3	3308.8	3259.7	3224.4	3218.2	3233.6	3273.5	3325.7	3377.9
42.5°	3612.8	3625.1	3566.8	3523.8	3496.1	3496.1	3503.8	3540.7	3588.3	3652.7
45°	3958.3	3979.8	3899.9	3856.9	3830.8	3837.0	3841.6	3873.8	3916.8	3990.5
47.5°	4369.8	4391.3	4306.8	4262.3	4257.7	4286.9	4268.4	4291.5	4314.5	4398.9
50°	4836.5	4873.4	4815.0	4812.0	4821.2	4874.9	4831.9	4844.2	4818.1	4871.9
52.5°	5407.7	5461.4	5450.7	5469.1	5572.0	5682.5	5584.3	5541.3	5443.0	5459.9
55°	6100.2	6181.6	6196.9	6307.5	6540.8	6766.5	6557.7	6384.2	6175.4	6137.0
57.5°	6887.8	6952.3	7026.0	7251.7	7687.8	8088.5	7687.8	7303.9	6975.4	6897.1
60°	7735.4	7815.2	7885.9	8219.0	8867.0	9430.5	8854.7	8245.1	7810.6	7704.7
62.5°	8645.9	8748.8	8797.9	9167.9	9923.3	10595.9	9934.1	9195.6	8713.4	8599.8
65°	9519.5	9604.0	9659.3	10053.9	10775.5	11449.5	10824.6	10096.8	9600.9	9452.0
67.5°	9926.4	9972.5	10107.6	10554.4	11316.0	12085.2	11444.9	10602.0	10047.7	9786.7
70°	9330.7	9237.0	9562.5	10278.0	11380.5	12475.2	11527.9	10256.5	9577.9	9154.1
72.5°	7210.3	7049.1	7614.1	8837.8	10643.5	12226.5	10717.2	8906.9	7965.7	7105.9
75°	3923.0	3740.3	4520.2	6067.9	8487.7	10597.4	8682.7	6241.4	5033.1	3893.8
77.5°	1107.0	1037.9	1667.5	2935.7	5105.2	7440.6	5301.8	3000.2	1977.6	1173.1
80°	339.3	328.6	445.3	884.4	2168.0	3563.7	2083.5	895.1	566.6	357.8
82.5°	201.1	184.2	221.1	322.4	552.7	1119.3	537.4	336.3	270.2	181.2
85°	115.2	107.5	130.5	156.6	185.8	238.0	155.1	159.7	144.3	96.7
87.5°	47.6	43.0	50.7	49.1	43.0	55.3	41.5	49.1	58.3	38.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2694.6
2685.4
2651.7
2614.8
2597.9
2597.9
2608.7
2628.6
2648.6
2657.8
2667.0
2690.0
2742.2
2823.6
2954.1
3135.3
3361.0
3648.1
3987.5
4374.4
4839.6
5403.1
6077.1
6841.8
7612.6
8507.7
9378.3
9789.8
9255.4
7319.3
4147.1
1303.6
377.7
196.5
101.3
35.3
0.0

OF REPORT)