

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: P949619

Luminaire Tested: **GALN-SB4B-827-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4B-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

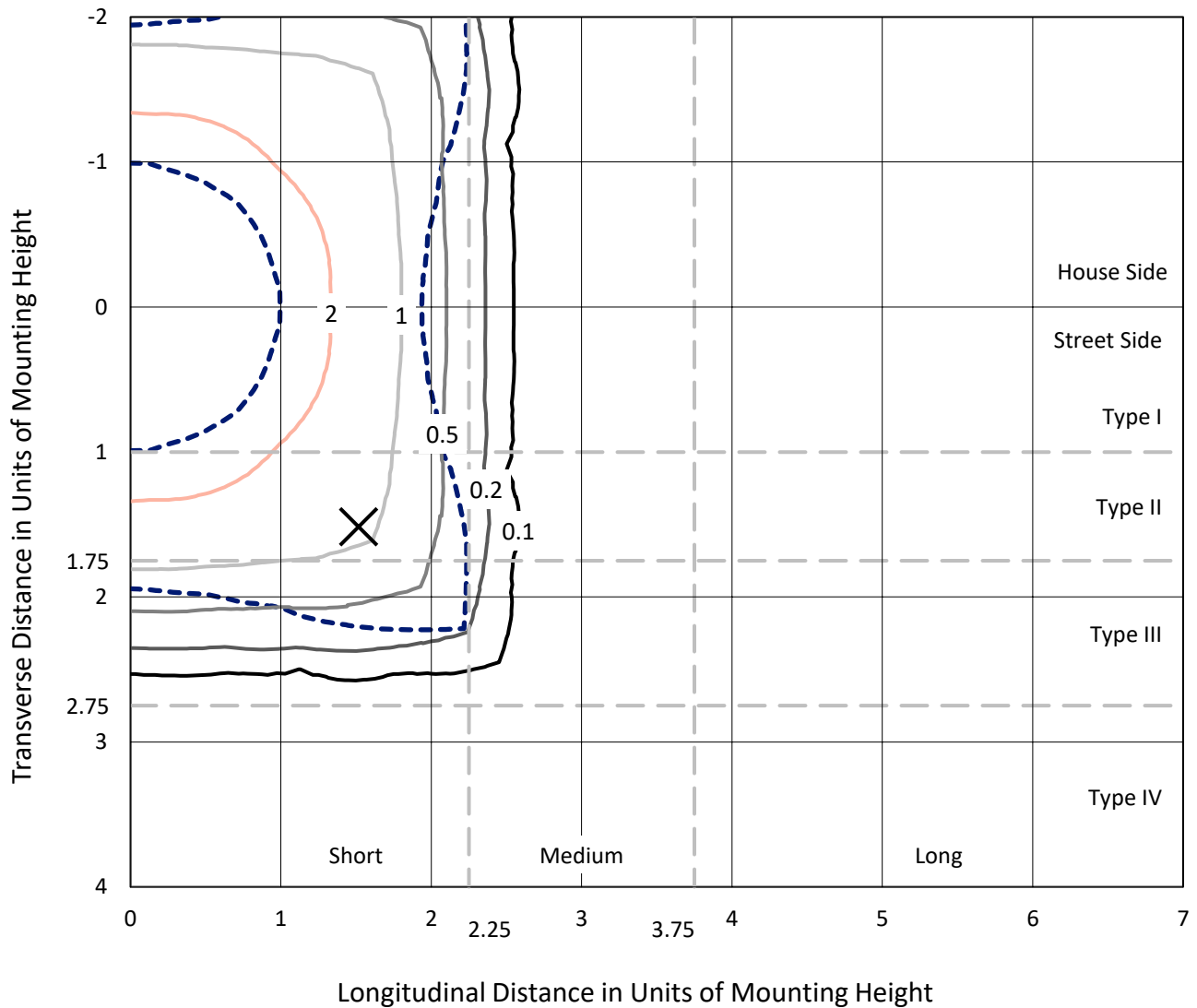
Lumens per Lamp: N/A  
Luminaire Lumens: 20564 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

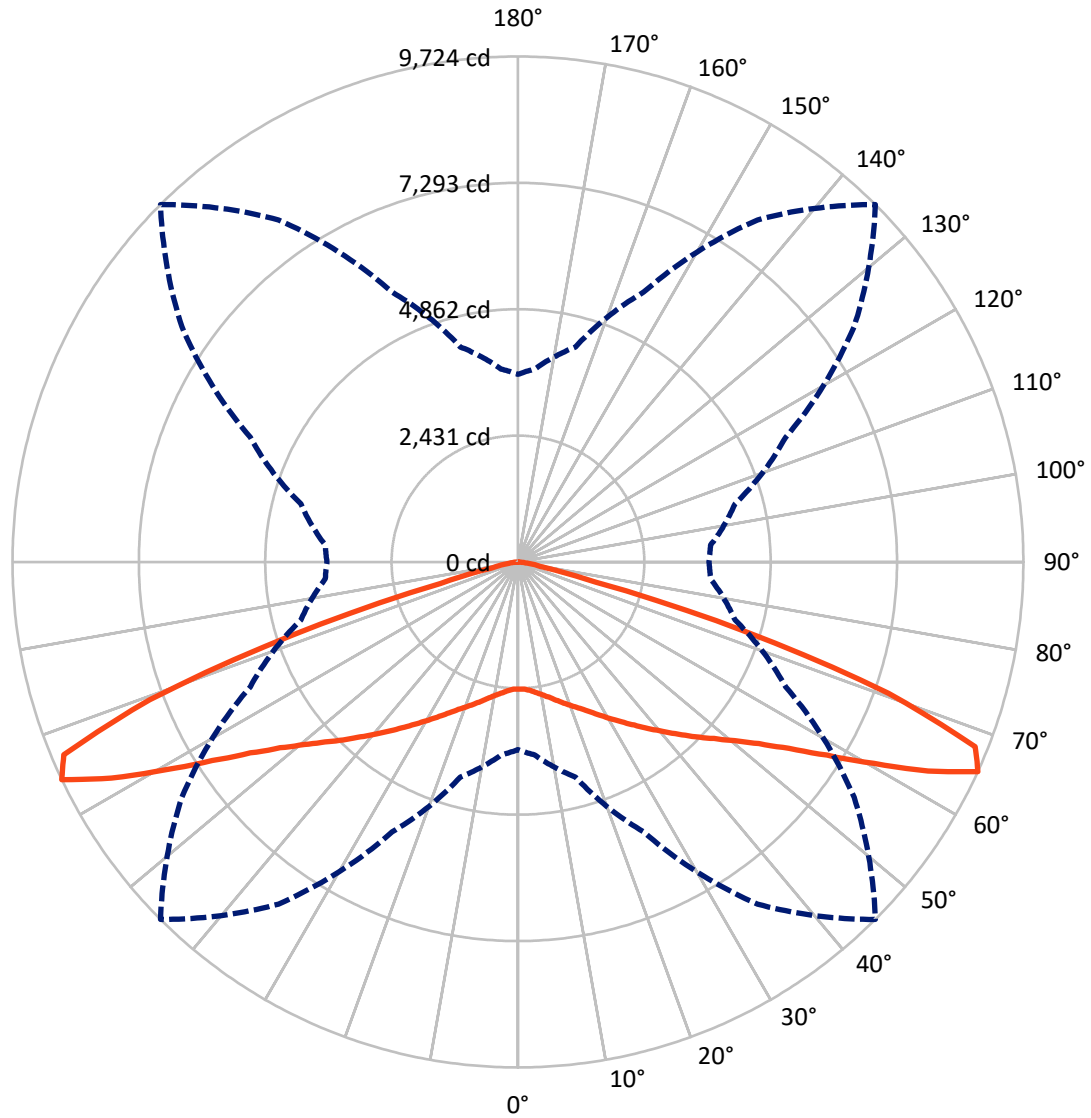
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10282.0	0.0	10282.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10282.0	0.0	10282.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20564.0	0.0	20564.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.5	1.2
10°-20°	788.1	3.8
20°-30°	1488.1	7.2
30°-40°	2436.6	11.8
40°-50°	3778.0	18.4
50°-60°	5581.0	27.1
60°-70°	5312.6	25.8
70°-80°	857.3	4.2
80°-90°	80.8	0.4
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°	20564.0	100.0
0°-180°	20564.0	100.0



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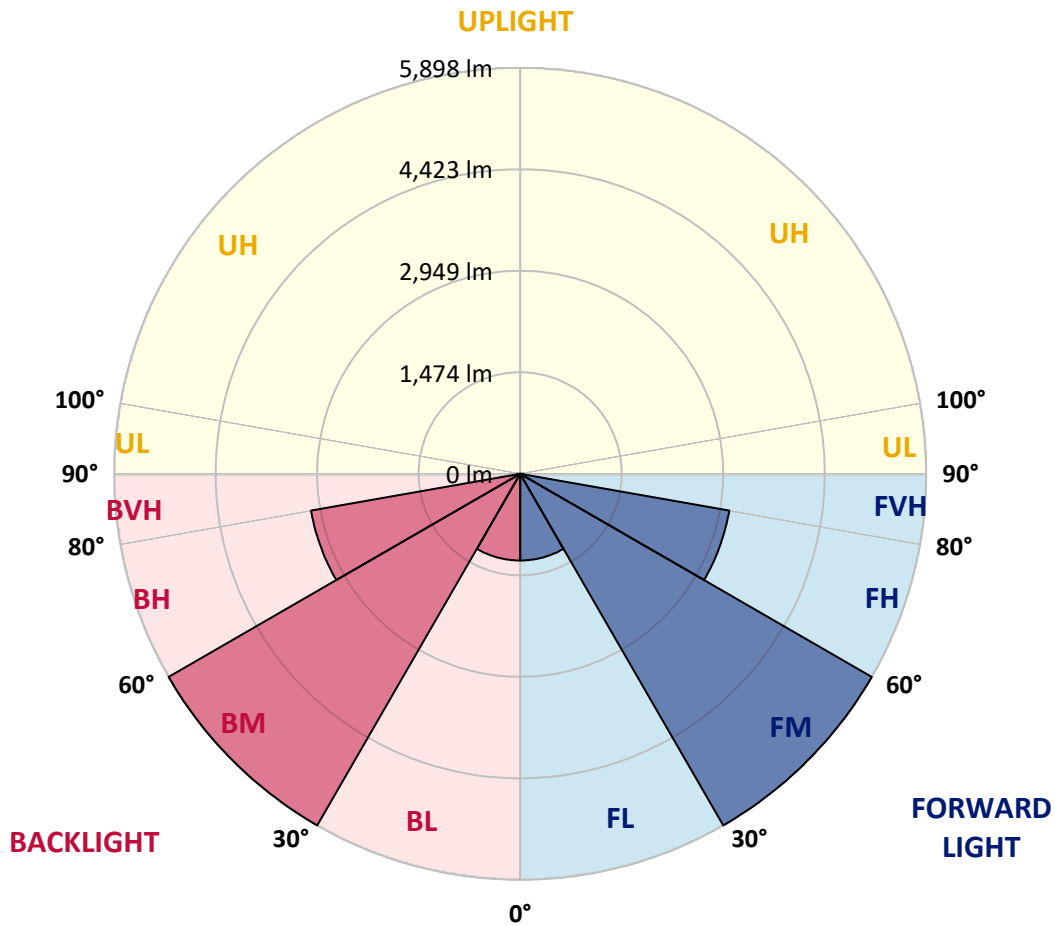
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1258.9	6.1			
FM (30°-60°)	5897.8	28.7			
FH (60°-80°)	3084.9	15.0			G2/5000
FVH (80°-90°)	40.4	0.2			G1/100
BL (0°-30°)	1258.9	6.1	B3/2500		
BM (30°-60°)	5897.8	28.7	B4/8500		
BH (60°-80°)	3084.9	15.0	B4/5000		G2/5000
BVH (80°-90°)	40.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3
2.5°	2463.8	2455.6	2461.8	2456.6	2452.5	2448.4	2450.4	2457.6	2460.7	2461.8
5°	2496.8	2489.6	2492.7	2492.7	2485.5	2483.4	2484.5	2489.6	2495.8	2495.8
7.5°	2550.5	2543.3	2550.5	2546.4	2540.2	2538.1	2537.1	2541.2	2550.5	2550.5
10°	2615.5	2607.2	2611.4	2609.3	2602.1	2599.0	2598.0	2604.1	2612.4	2611.4
12.5°	2686.7	2677.4	2682.6	2676.4	2674.3	2671.2	2671.2	2670.2	2675.3	2671.2
15°	2766.1	2759.9	2762.0	2757.9	2761.0	2758.9	2750.7	2746.5	2748.6	2742.4
17.5°	2860.0	2845.6	2852.8	2850.7	2850.7	2854.9	2841.5	2836.3	2840.4	2834.2
20°	2968.4	2953.9	2957.0	2952.9	2947.7	2951.8	2935.3	2939.5	2942.6	2938.4
22.5°	3087.0	3068.4	3067.4	3069.5	3058.1	3059.2	3047.8	3058.1	3064.3	3053.0
25°	3208.8	3189.2	3202.6	3197.4	3183.0	3186.1	3177.8	3188.1	3193.3	3178.8
27.5°	3337.7	3324.3	3336.7	3339.8	3322.2	3334.6	3322.2	3331.5	3336.7	3315.0
30°	3488.4	3474.9	3486.3	3494.6	3473.9	3493.5	3483.2	3489.4	3490.4	3464.6
32.5°	3652.4	3631.8	3660.7	3664.8	3642.1	3665.8	3652.4	3660.7	3665.8	3630.7
35°	3852.6	3826.8	3859.8	3854.6	3835.0	3854.6	3842.3	3854.6	3867.0	3824.7
37.5°	4068.2	4041.4	4076.5	4067.2	4048.6	4062.0	4054.8	4063.0	4082.7	4037.3
40°	4305.5	4272.5	4320.0	4303.4	4285.9	4283.8	4288.0	4293.1	4318.9	4268.4
42.5°	4559.3	4524.2	4595.4	4569.6	4544.9	4528.4	4541.8	4552.1	4576.9	4520.1
45°	4849.2	4809.0	4901.9	4870.9	4831.7	4797.7	4819.3	4834.8	4870.9	4802.8
47.5°	5169.1	5123.7	5222.7	5213.5	5149.5	5075.2	5124.7	5169.1	5195.9	5113.4
50°	5481.7	5446.6	5576.6	5588.0	5509.6	5405.4	5474.5	5541.6	5548.8	5440.4
52.5°	5774.7	5739.7	5928.5	5999.7	5929.5	5805.7	5878.9	5947.0	5892.3	5752.0
55°	6008.9	5980.0	6220.4	6404.1	6427.8	6325.7	6369.0	6367.0	6187.4	5971.8
57.5°	6065.7	6061.6	6364.9	6753.9	7001.5	7013.9	6928.2	6709.5	6322.6	6032.7
60°	5807.7	5833.5	6250.4	6936.5	7596.8	7871.3	7500.9	6876.6	6168.9	5766.5
62.5°	5036.0	5104.1	5606.6	6713.6	8077.6	8857.6	7960.0	6622.8	5537.4	5012.3
65°	3609.1	3727.7	4282.8	5729.3	8034.3	9724.3	7894.0	5682.9	4324.1	3718.4
67.5°	1637.4	1758.1	2229.6	3922.7	6983.9	9489.0	6967.4	3964.0	2341.1	1764.3
70°	593.3	613.9	765.6	1570.3	4463.4	7560.7	4654.2	1581.7	814.1	654.1
72.5°	359.1	362.1	394.1	562.3	1550.7	4590.3	1616.8	580.9	402.4	357.0
75°	228.0	226.0	280.6	343.6	549.9	1548.7	576.8	343.6	279.6	254.8
77.5°	164.0	169.2	201.2	256.9	346.7	525.2	340.5	245.6	201.2	165.1
80°	122.8	125.9	146.5	200.2	243.5	327.1	216.7	181.6	151.7	103.2
82.5°	88.7	88.7	96.0	145.5	148.6	176.4	117.6	127.9	100.1	73.3
85°	52.6	51.6	59.8	86.7	77.4	65.0	53.7	78.4	62.9	45.4
87.5°	18.6	19.6	18.6	24.8	20.6	17.5	16.5	21.7	17.5	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2447.3
2461.8
2495.8
2547.4
2609.3
2673.3
2743.4
2839.4
2947.7
3064.3
3195.3
3331.5
3480.1
3654.5
3850.5
4065.1
4284.9
4550.0
4837.9
5141.2
5453.9
5756.2
5979.0
6014.1
5719.0
4981.3
3674.1
1738.5
645.9
363.2
256.9
168.2
106.3
73.3
44.4
14.4
0.0

OF REPORT)