

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: P942350

Luminaire Tested: **GALN-SB6B-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942350  
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-SB6B-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

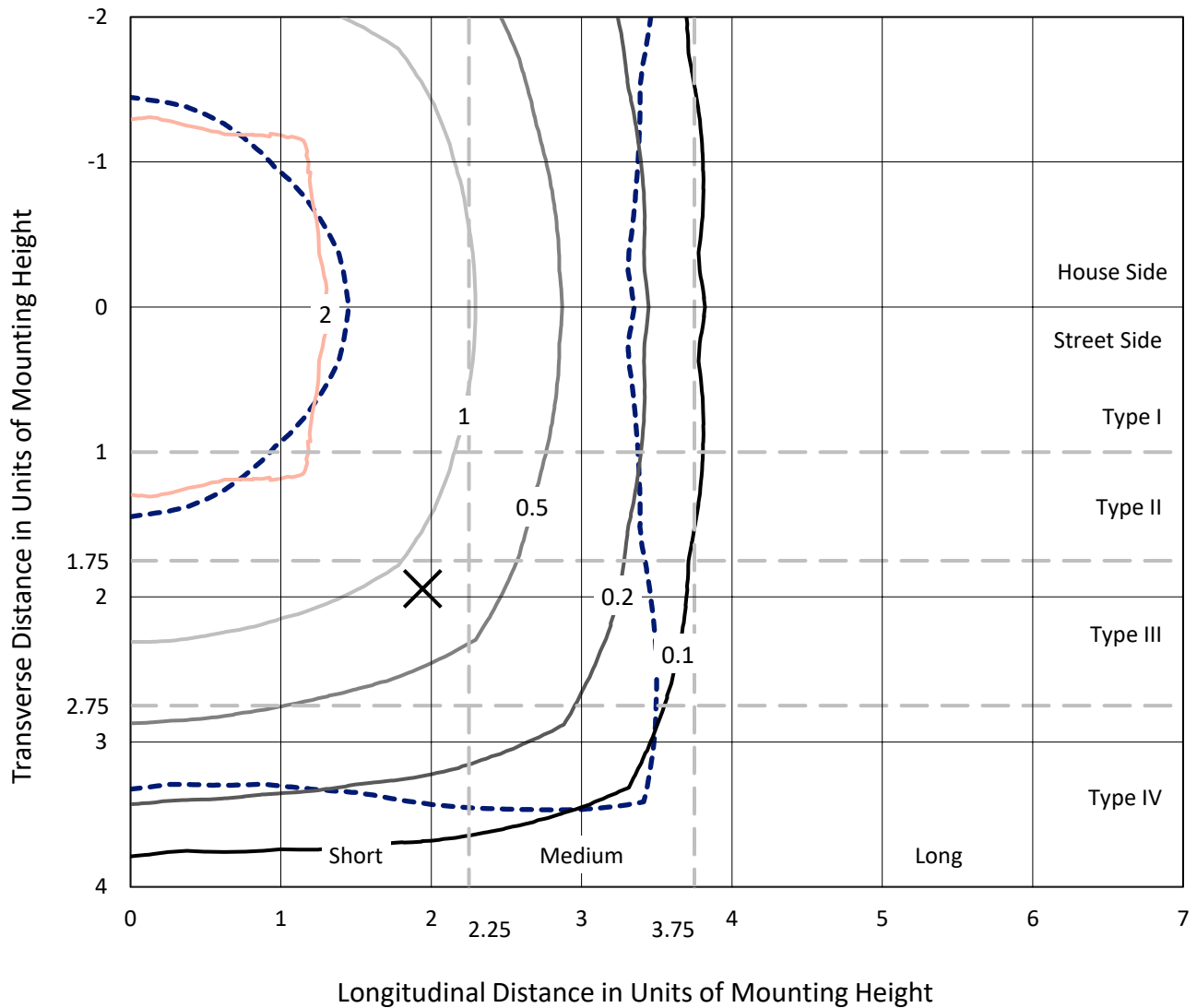
Lumens per Lamp: N/A  
Luminaire Lumens: 30035 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

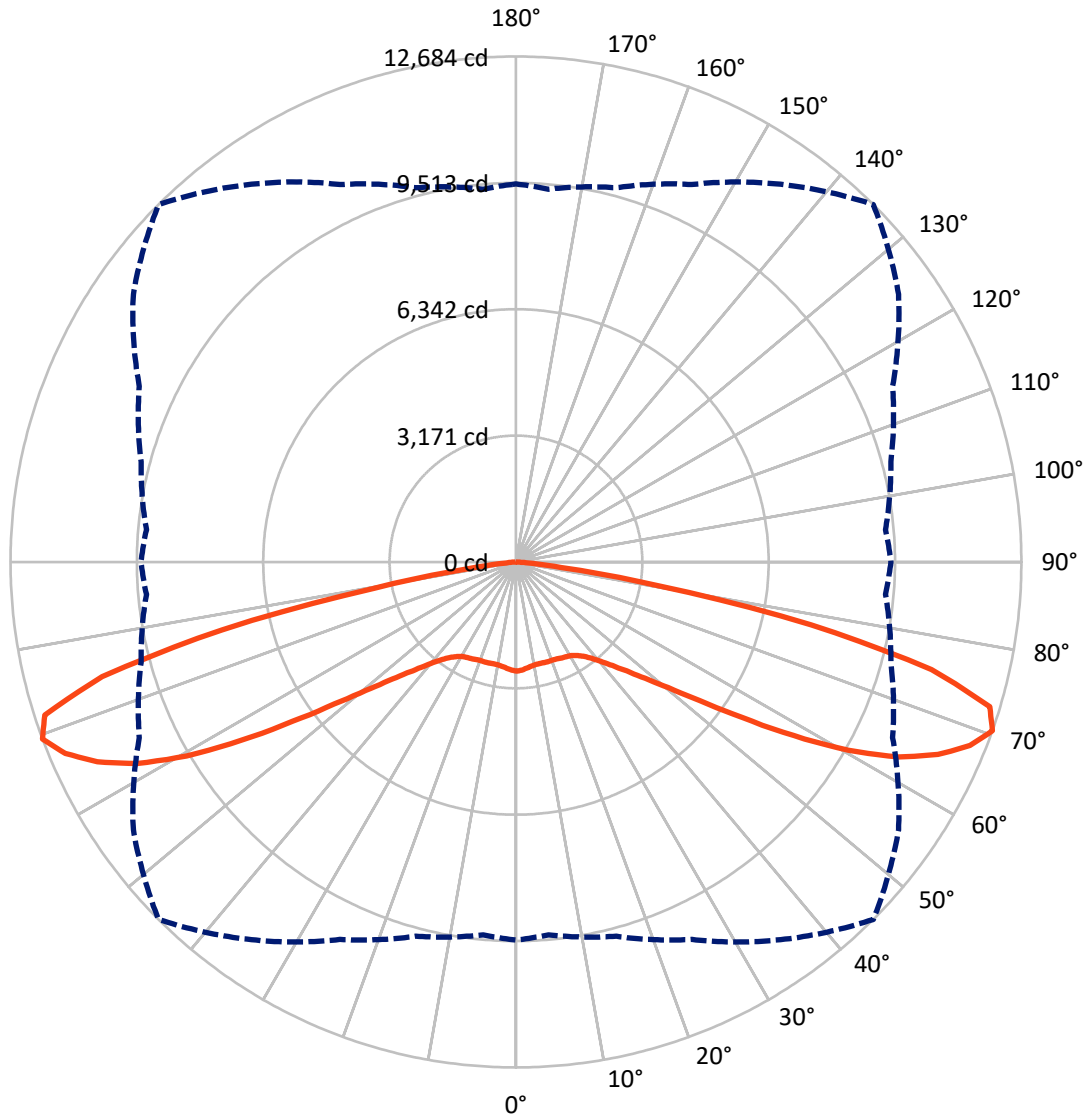
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	15017.5	0.0	15017.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15017.5	0.0	15017.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30035.0	0.0	30035.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.9	0.8
10°-20°	748.3	2.5
20°-30°	1245.4	4.1
30°-40°	1883.4	6.3
40°-50°	3129.7	10.4
50°-60°	5905.6	19.7
60°-70°	9971.9	33.2
70°-80°	6552.6	21.8
80°-90°	343.3	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°	30035.0	100.0
0°-180°	30035.0	100.0

**Coefficient of Utilization**



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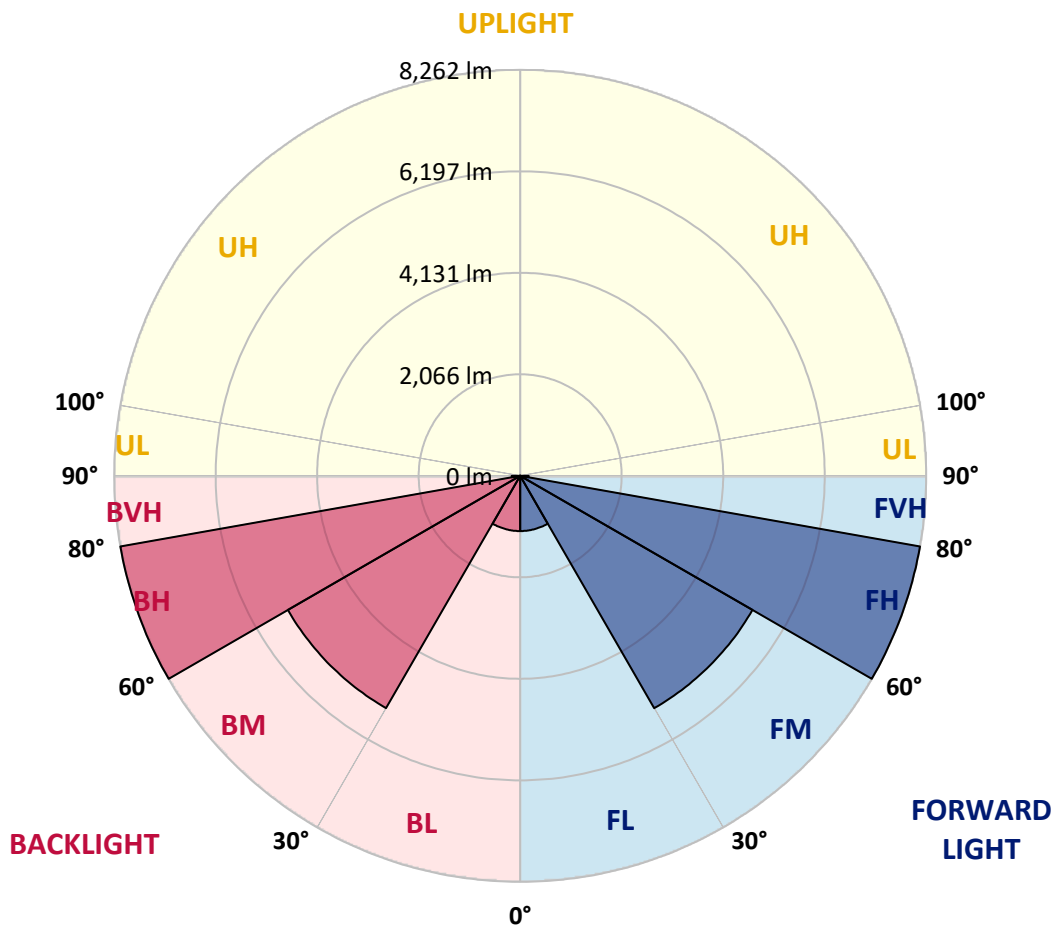
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.3	3.7			
FM (30°-60°)	5459.3	18.2			
FH (60°-80°)	8262.2	27.5			G4/12000
FVH (80°-90°)	171.6	0.6			G2/225
BL (0°-30°)	1124.3	3.7	B3/2500		
BM (30°-60°)	5459.3	18.2	B4/8500		
BH (60°-80°)	8262.2	27.5	B5		G4/12000
BVH (80°-90°)	171.6	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°	2739.8	2739.8	2739.8	2739.8	2739.8	2739.8	2739.8	2739.8	2739.8	2739.8
2.5°	2722.6	2730.4	2727.3	2721.1	2721.1	2716.4	2721.1	2724.2	2728.9	2732.0
5°	2686.7	2693.0	2691.4	2686.7	2688.3	2683.6	2686.7	2691.4	2694.5	2696.1
7.5°	2655.5	2661.7	2658.6	2650.8	2650.8	2646.1	2647.7	2652.4	2657.1	2658.6
10°	2647.7	2653.9	2644.6	2632.1	2627.4	2621.2	2622.7	2627.4	2636.8	2641.4
12.5°	2650.8	2655.5	2646.1	2627.4	2622.7	2616.5	2616.5	2621.2	2633.6	2639.9
15°	2660.2	2664.9	2650.8	2630.5	2625.8	2621.2	2619.6	2625.8	2639.9	2650.8
17.5°	2677.4	2682.0	2660.2	2632.1	2625.8	2627.4	2625.8	2630.5	2652.4	2672.7
20°	2693.0	2696.1	2666.4	2632.1	2625.8	2627.4	2625.8	2635.2	2663.3	2691.4
22.5°	2697.6	2700.8	2672.7	2643.0	2638.3	2639.9	2638.3	2647.7	2674.2	2702.3
25°	2699.2	2703.9	2682.0	2658.6	2666.4	2669.5	2666.4	2668.0	2688.3	2713.3
27.5°	2722.6	2728.9	2708.6	2688.3	2693.0	2691.4	2696.1	2700.8	2716.4	2741.4
30°	2771.0	2775.7	2758.5	2738.2	2735.1	2724.2	2738.2	2753.8	2771.0	2792.9
32.5°	2850.6	2860.0	2838.1	2816.3	2802.2	2796.0	2806.9	2833.5	2856.9	2880.3
35°	2983.3	2989.6	2969.3	2928.7	2903.7	2903.7	2913.1	2947.4	2984.9	3014.6
37.5°	3170.7	3178.5	3142.6	3094.2	3056.7	3056.7	3069.2	3105.1	3161.3	3203.5
40°	3398.6	3409.5	3364.3	3314.3	3278.4	3272.1	3287.8	3328.3	3381.4	3434.5
42.5°	3673.4	3685.8	3626.5	3582.8	3554.7	3554.7	3562.5	3600.0	3648.4	3713.9
45°	4024.6	4046.5	3965.3	3921.6	3895.0	3901.3	3906.0	3938.8	3982.5	4057.4
47.5°	4443.0	4464.9	4379.0	4333.7	4329.0	4358.7	4340.0	4363.4	4386.8	4472.7
50°	4917.6	4955.1	4895.7	4892.6	4902.0	4956.6	4912.9	4925.4	4898.9	4953.5
52.5°	5498.3	5553.0	5542.0	5560.8	5665.4	5777.8	5677.9	5634.1	5534.2	5551.4
55°	6202.4	6285.1	6300.8	6413.2	6650.4	6879.9	6667.6	6491.2	6278.9	6239.9
57.5°	7003.3	7068.8	7143.8	7373.3	7816.6	8224.1	7816.6	7426.3	7092.2	7012.6
60°	7865.0	7946.2	8018.0	8356.8	9015.6	9588.5	9003.1	8383.3	7941.5	7833.8
62.5°	8790.8	8895.4	8945.3	9321.6	10089.6	10773.4	10100.6	9349.7	8859.5	8743.9
65°	9679.1	9764.9	9821.1	10222.3	10956.1	11641.4	11006.0	10266.0	9761.8	9610.4
67.5°	10092.8	10139.6	10277.0	10731.3	11505.6	12287.7	11636.7	10779.7	10216.1	9950.7
70°	9487.0	9391.8	9722.8	10450.3	11571.2	12684.2	11721.0	10428.4	9738.4	9307.5
72.5°	7331.1	7167.2	7741.7	8985.9	10821.8	12431.3	10896.7	9056.2	8099.2	7224.9
75°	3988.7	3802.9	4596.0	6169.6	8630.0	10775.0	8828.2	6346.0	5117.4	3959.0
77.5°	1125.6	1055.3	1695.4	2984.9	5190.8	7565.3	5390.6	3050.5	2010.7	1192.7
80°	345.0	334.1	452.7	899.2	2204.3	3623.4	2118.5	910.1	576.1	363.7
82.5°	204.5	187.3	224.8	327.8	562.0	1138.1	546.4	341.9	274.8	184.2
85°	117.1	109.3	132.7	159.2	188.9	242.0	157.7	162.4	146.7	98.4
87.5°	48.4	43.7	51.5	50.0	43.7	56.2	42.2	50.0	59.3	39.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2739.8
2730.4
2696.1
2658.6
2641.4
2641.4
2652.4
2672.7
2693.0
2702.3
2711.7
2735.1
2788.2
2870.9
3003.6
3187.8
3417.3
3709.3
4054.3
4447.7
4920.7
5493.6
6179.0
6956.4
7740.1
8650.3
9535.4
9953.8
9410.5
7441.9
4216.6
1325.4
384.0
199.8
103.0
35.9
0.0

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