

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: P943710

Luminaire Tested: **GALN-SB8B-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943710  
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-SB8B-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

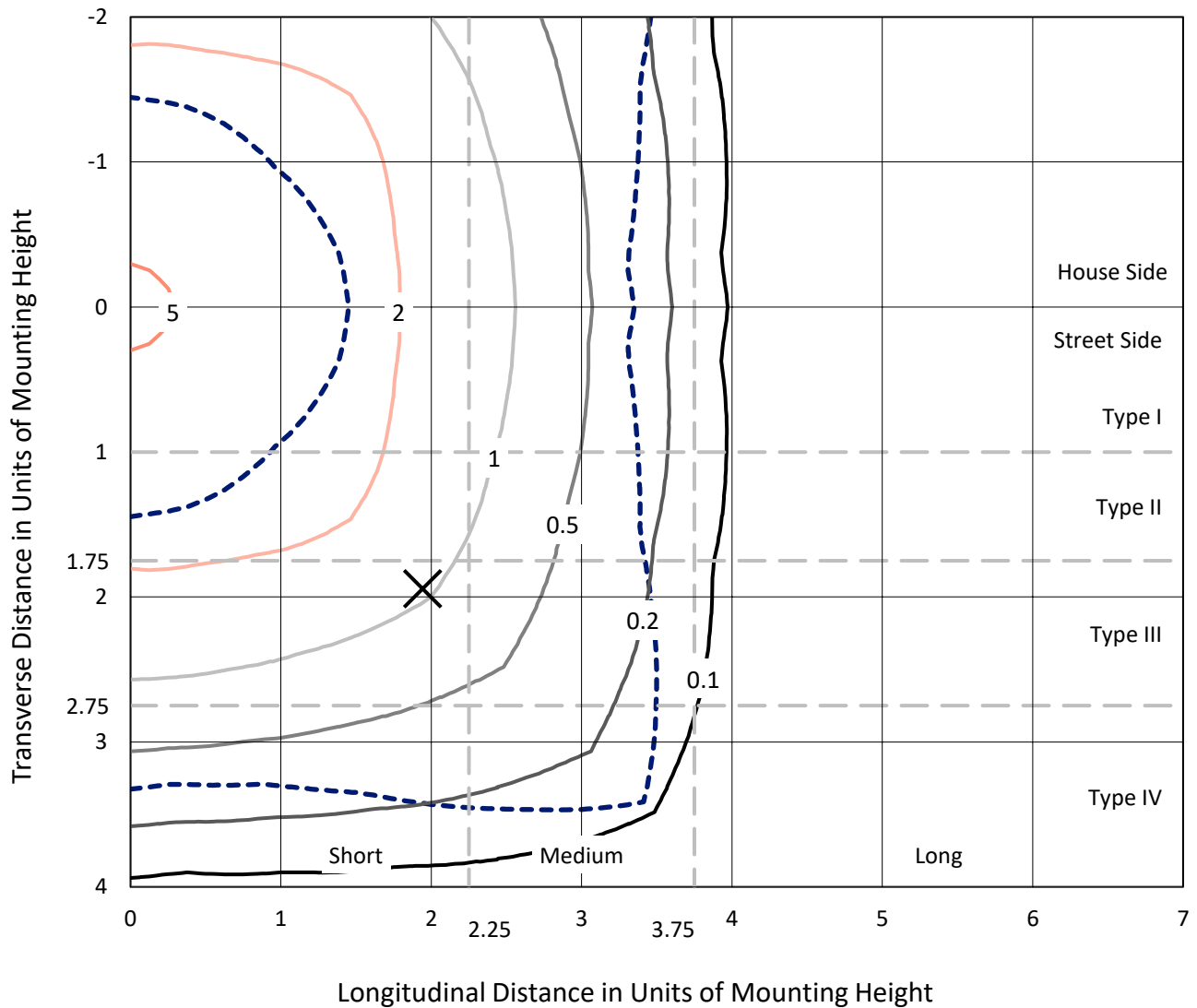
Lumens per Lamp: N/A  
Luminaire Lumens: 40050 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

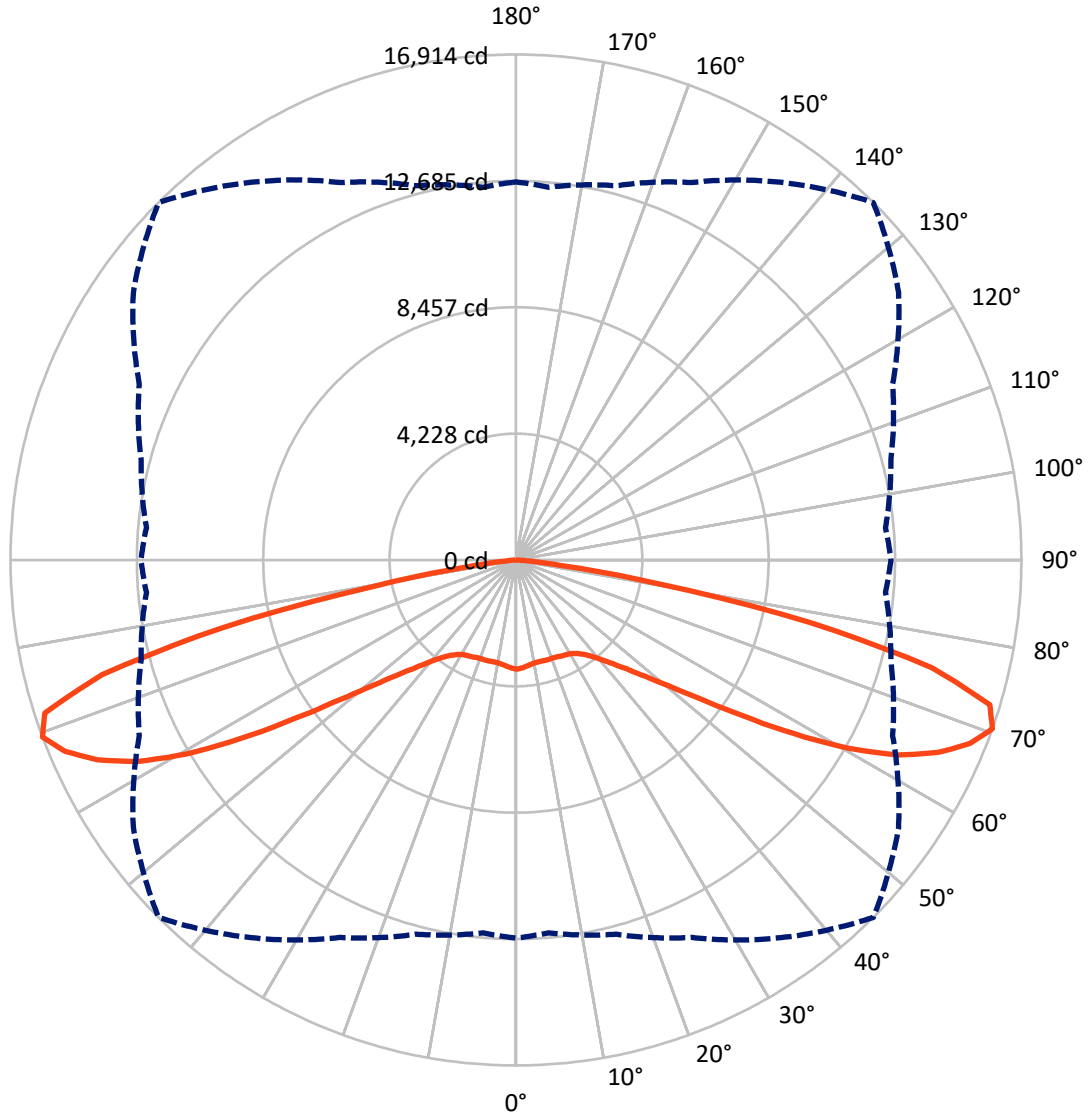
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	20025.0	0.0	20025.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20025.0	0.0	20025.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40050.0	0.0	40050.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.8	0.8
10°-20°	997.9	2.5
20°-30°	1660.6	4.1
30°-40°	2511.3	6.3
40°-50°	4173.3	10.4
50°-60°	7874.8	19.7
60°-70°	13297.0	33.2
70°-80°	8737.5	21.8
80°-90°	457.8	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°	40050.0	100.0
0°-180°	40050.0	100.0

**Coefficient of Utilization**



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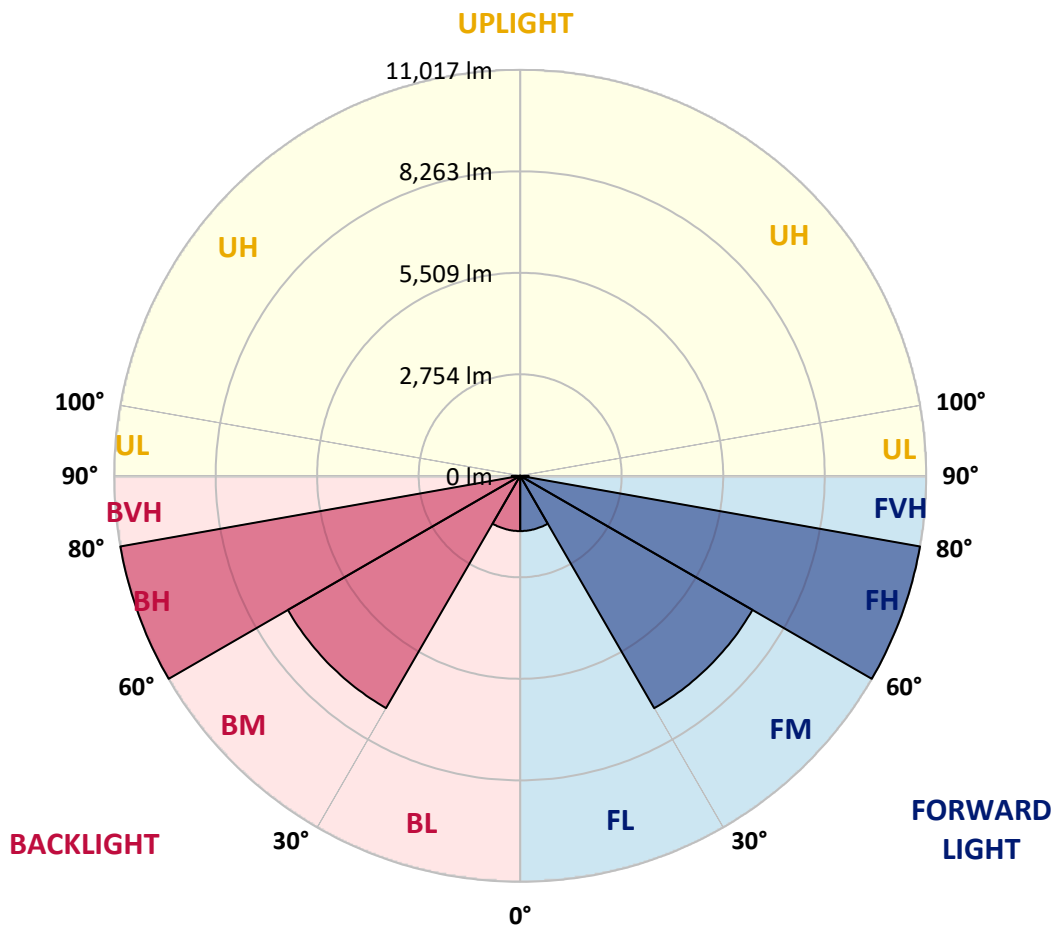
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1499.2	3.7			
FM (30°-60°)	7279.7	18.2			
FH (60°-80°)	11017.2	27.5			G4/12000
FVH (80°-90°)	228.9	0.6			G3/500
BL (0°-30°)	1499.2	3.7	B3/2500		
BM (30°-60°)	7279.7	18.2	B4/8500		
BH (60°-80°)	11017.2	27.5	B5		G4/12000
BVH (80°-90°)	228.9	0.6			G3/500
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°	3653.4	3653.4	3653.4	3653.4	3653.4	3653.4	3653.4	3653.4	3653.4	3653.4
2.5°	3630.5	3640.9	3636.7	3628.4	3628.4	3622.1	3628.4	3632.5	3638.8	3643.0
5°	3582.6	3590.9	3588.8	3582.6	3584.7	3578.4	3582.6	3588.8	3593.0	3595.1
7.5°	3541.0	3549.3	3545.1	3534.7	3534.7	3528.5	3530.5	3536.8	3543.0	3545.1
10°	3530.5	3538.9	3526.4	3509.7	3503.5	3495.2	3497.2	3503.5	3516.0	3522.2
12.5°	3534.7	3541.0	3528.5	3503.5	3497.2	3488.9	3488.9	3495.2	3511.8	3520.1
15°	3547.2	3553.4	3534.7	3507.6	3501.4	3495.2	3493.1	3501.4	3520.1	3534.7
17.5°	3570.1	3576.3	3547.2	3509.7	3501.4	3503.5	3501.4	3507.6	3536.8	3563.9
20°	3590.9	3595.1	3555.5	3509.7	3501.4	3503.5	3501.4	3513.9	3551.4	3588.8
22.5°	3597.2	3601.3	3563.9	3524.3	3518.1	3520.1	3518.1	3530.5	3565.9	3603.4
25°	3599.2	3605.5	3576.3	3545.1	3555.5	3559.7	3555.5	3557.6	3584.7	3618.0
27.5°	3630.5	3638.8	3611.7	3584.7	3590.9	3588.8	3595.1	3601.3	3622.1	3655.4
30°	3695.0	3701.2	3678.3	3651.3	3647.1	3632.5	3651.3	3672.1	3695.0	3724.1
32.5°	3801.2	3813.7	3784.5	3755.4	3736.6	3728.3	3742.9	3778.3	3809.5	3840.7
35°	3978.1	3986.4	3959.4	3905.3	3871.9	3871.9	3884.4	3930.2	3980.2	4019.7
37.5°	4227.9	4238.3	4190.4	4125.9	4075.9	4075.9	4092.6	4140.5	4215.4	4271.6
40°	4531.8	4546.4	4486.0	4419.4	4371.5	4363.2	4384.0	4438.2	4508.9	4579.7
42.5°	4898.2	4914.9	4835.8	4777.5	4740.0	4740.0	4750.4	4800.4	4864.9	4952.3
45°	5366.6	5395.7	5287.5	5229.2	5193.8	5202.1	5208.4	5252.1	5310.4	5410.3
47.5°	5924.5	5953.6	5839.1	5778.8	5772.5	5812.1	5787.1	5818.3	5849.5	5964.0
50°	6557.3	6607.3	6528.2	6524.0	6536.5	6609.4	6551.1	6567.7	6532.3	6605.2
52.5°	7331.7	7404.6	7390.0	7415.0	7554.5	7704.3	7571.1	7512.8	7379.6	7402.5
55°	8270.6	8380.9	8401.7	8551.6	8868.0	9174.0	8890.9	8655.7	8372.6	8320.5
57.5°	9338.5	9425.9	9525.8	9831.8	10423.0	10966.3	10423.0	9902.6	9457.1	9351.0
60°	10487.6	10595.8	10691.6	11143.3	12021.8	12785.7	12005.1	11178.7	10589.6	10445.9
62.5°	11722.0	11861.5	11928.1	12429.8	13454.0	14365.7	13468.5	12467.2	11813.6	11659.5
65°	12906.5	13021.0	13095.9	13630.9	14609.3	15523.2	14675.9	13689.2	13016.8	12814.9
67.5°	13458.1	13520.6	13703.8	14309.5	15342.1	16385.0	15516.9	14374.1	13622.6	13268.7
70°	12650.4	12523.4	12964.8	13934.8	15429.5	16913.7	15629.3	13905.7	12985.6	12411.0
72.5°	9775.6	9557.0	10323.1	11982.2	14430.3	16576.5	14530.2	12075.9	10799.8	9634.1
75°	5318.7	5071.0	6128.5	8226.8	11507.6	14367.8	11772.0	8462.1	6823.8	5279.2
77.5°	1500.9	1407.2	2260.7	3980.2	6921.6	10087.9	7188.1	4067.6	2681.2	1590.4
80°	460.1	445.5	603.7	1199.1	2939.3	4831.6	2824.9	1213.6	768.1	485.0
82.5°	272.7	249.8	299.8	437.2	749.4	1517.6	728.6	455.9	366.4	245.6
85°	156.1	145.7	176.9	212.3	251.9	322.7	210.3	216.5	195.7	131.1
87.5°	64.5	58.3	68.7	66.6	58.3	74.9	56.2	66.6	79.1	52.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
3653.4  
3640.9  
3595.1  
3545.1  
3522.2  
3522.2  
3536.8  
3563.9  
3590.9  
3603.4  
3615.9  
3647.1  
3717.9  
3828.2  
4005.2  
4250.8  
4556.8  
4946.1  
5406.1  
5930.7  
6561.5  
7325.5  
8239.3  
9276.0  
10321.0  
11534.6  
12715.0  
13272.9  
*12548.4*  
9923.4  
5622.6  
1767.4  
512.1  
266.5  
137.4  
47.9  
0.0

OF REPORT)