

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: P943970

Luminaire Tested: **GALN-SB8C-950-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943970  
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-SB8C-950-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

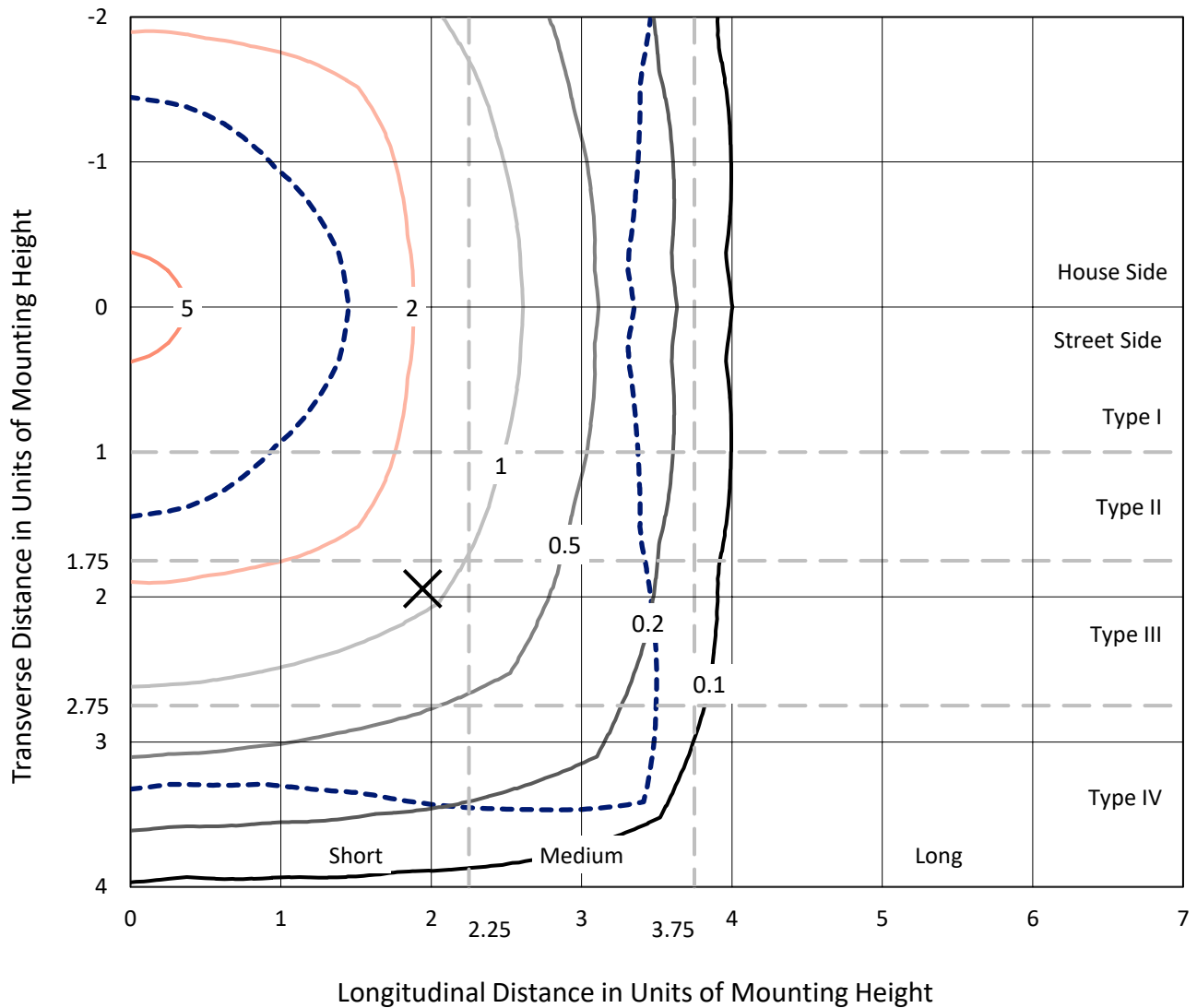
Lumens per Lamp: N/A  
Luminaire Lumens: 42612 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

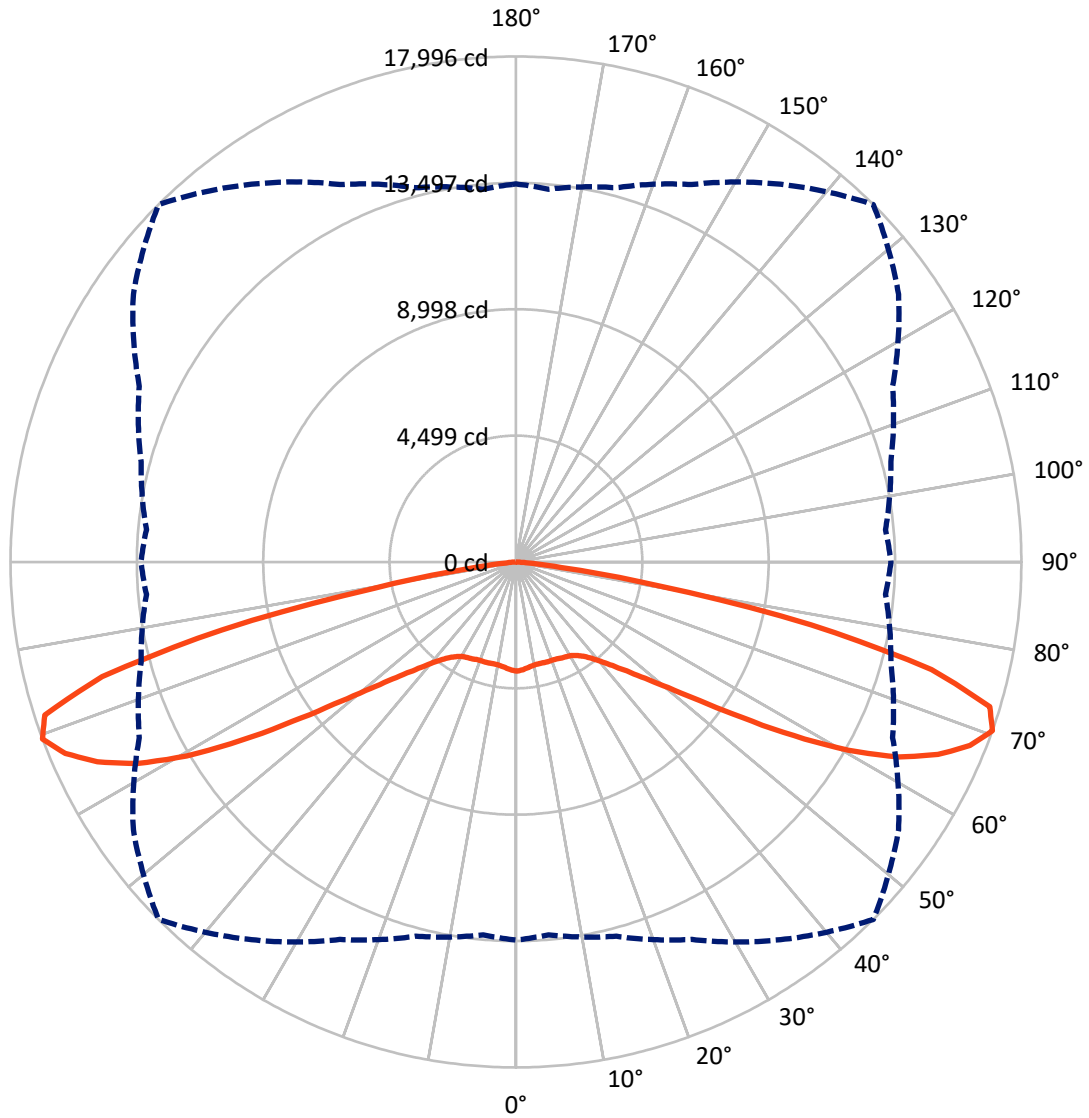
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	21306.0	0.0	21306.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21306.0	0.0	21306.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42612.0	0.0	42612.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.6	0.8
10°-20°	1061.7	2.5
20°-30°	1766.8	4.1
30°-40°	2672.0	6.3
40°-50°	4440.2	10.4
50°-60°	8378.6	19.7
60°-70°	14147.6	33.2
70°-80°	9296.4	21.8
80°-90°	487.0	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°	42612.0	100.0
0°-180°	42612.0	100.0



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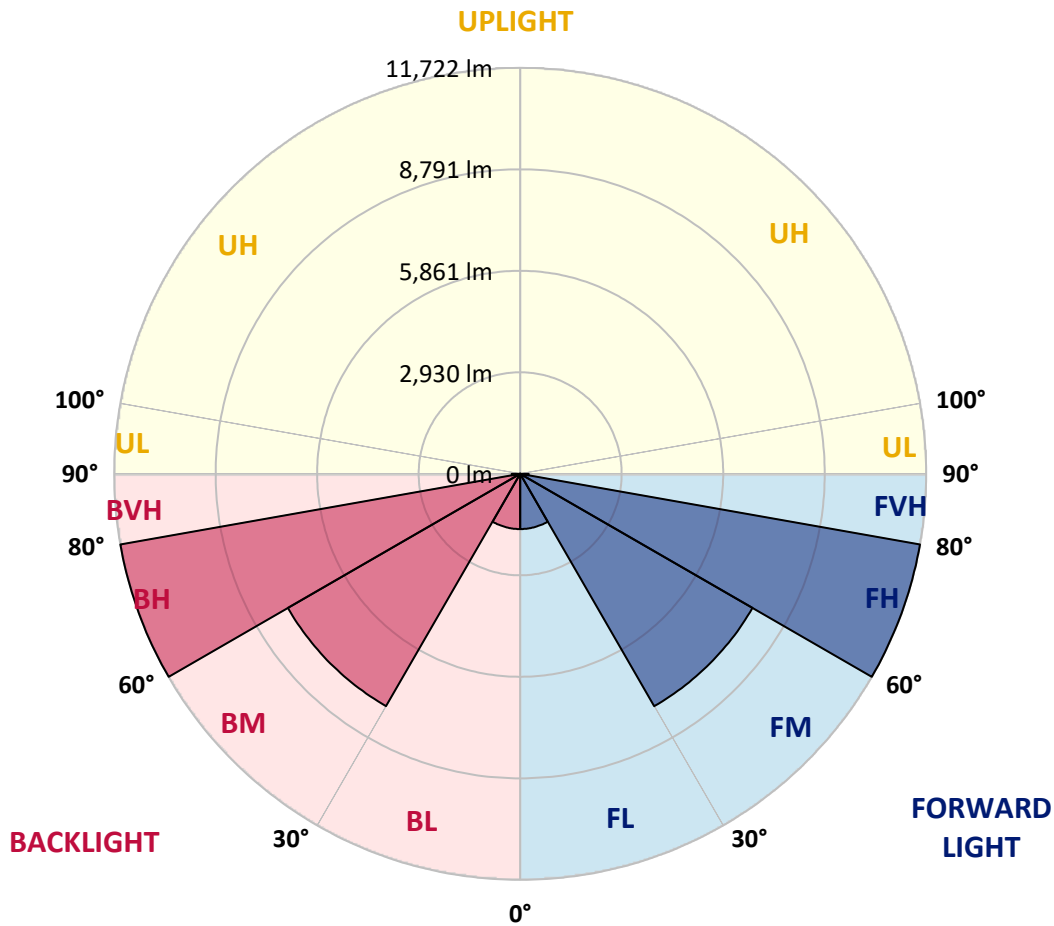
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.1	3.7			
FM (30°-60°)	7745.4	18.2			
FH (60°-80°)	11722.0	27.5			G4/12000
FVH (80°-90°)	243.5	0.6			G3/500
BL (0°-30°)	1595.1	3.7	B3/2500		
BM (30°-60°)	7745.4	18.2	B4/8500		
BH (60°-80°)	11722.0	27.5	B5		G4/12000
BVH (80°-90°)	243.5	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°	3887.1	3887.1	3887.1	3887.1	3887.1	3887.1	3887.1	3887.1	3887.1	3887.1
2.5°	3862.7	3873.8	3869.4	3860.5	3860.5	3853.8	3860.5	3864.9	3871.6	3876.0
5°	3811.8	3820.6	3818.4	3811.8	3814.0	3807.3	3811.8	3818.4	3822.8	3825.1
7.5°	3767.5	3776.3	3771.9	3760.8	3760.8	3754.2	3756.4	3763.0	3769.7	3771.9
10°	3756.4	3765.3	3752.0	3734.2	3727.6	3718.7	3721.0	3727.6	3740.9	3747.5
12.5°	3760.8	3767.5	3754.2	3727.6	3721.0	3712.1	3712.1	3718.7	3736.5	3745.3
15°	3774.1	3780.8	3760.8	3732.0	3725.4	3718.7	3716.5	3725.4	3745.3	3760.8
17.5°	3798.5	3805.1	3774.1	3734.2	3725.4	3727.6	3725.4	3732.0	3763.0	3791.8
20°	3820.6	3825.1	3783.0	3734.2	3725.4	3727.6	3725.4	3738.7	3778.5	3818.4
22.5°	3827.3	3831.7	3791.8	3749.8	3743.1	3745.3	3743.1	3756.4	3794.0	3833.9
25°	3829.5	3836.1	3805.1	3771.9	3783.0	3787.4	3783.0	3785.2	3814.0	3849.4
27.5°	3862.7	3871.6	3842.8	3814.0	3820.6	3818.4	3825.1	3831.7	3853.8	3889.3
30°	3931.4	3938.0	3913.7	3884.9	3880.4	3864.9	3884.9	3907.0	3931.4	3962.4
32.5°	4044.3	4057.6	4026.6	3995.6	3975.7	3966.8	3982.3	4020.0	4053.2	4086.4
35°	4232.6	4241.4	4212.7	4155.1	4119.6	4119.6	4132.9	4181.6	4234.8	4276.9
37.5°	4498.4	4509.4	4458.5	4389.8	4336.7	4336.7	4354.4	4405.3	4485.1	4544.9
40°	4821.7	4837.2	4773.0	4702.1	4651.2	4642.3	4664.5	4722.1	4797.4	4872.7
42.5°	5211.6	5229.3	5145.1	5083.1	5043.2	5043.2	5054.3	5107.5	5176.1	5269.1
45°	5709.9	5740.9	5625.7	5563.7	5526.1	5534.9	5541.6	5588.1	5650.1	5756.4
47.5°	6303.5	6334.5	6212.7	6148.4	6141.8	6183.9	6157.3	6190.5	6223.7	6345.6
50°	6976.8	7030.0	6945.8	6941.4	6954.6	7032.2	6970.2	6987.9	6950.2	7027.7
52.5°	7800.7	7878.2	7862.7	7889.3	8037.7	8197.2	8055.4	7993.4	7851.7	7876.0
55°	8799.6	8917.0	8939.2	9098.6	9435.3	9760.9	9459.7	9209.4	8908.2	8852.8
57.5°	9935.8	10028.9	10135.2	10460.8	11089.8	11667.9	11089.8	10536.1	10062.1	9949.1
60°	11158.4	11273.6	11375.5	11856.1	12790.8	13603.6	12773.1	11893.8	11267.0	11114.1
62.5°	12471.9	12620.2	12691.1	13224.9	14314.6	15284.7	14330.1	13264.8	12569.3	12405.4
65°	13732.1	13853.9	13933.7	14502.9	15543.9	16516.2	15614.7	14564.9	13849.5	13634.7
67.5°	14319.0	14385.5	14580.4	15224.9	16323.5	17433.1	16509.5	15293.6	14494.0	14117.5
70°	13459.7	13324.6	13794.1	14826.2	16416.5	17995.7	16629.1	14795.2	13816.3	13205.0
72.5°	10401.0	10168.4	10983.5	12748.7	15353.4	17636.9	15459.7	12848.4	11490.7	10250.4
75°	5659.0	5395.4	6520.5	8753.1	12243.7	15286.9	12525.0	9003.4	7260.3	5616.9
77.5°	1596.9	1497.2	2405.3	4234.8	7364.4	10733.2	7647.9	4327.8	2852.7	1692.2
80°	489.5	474.0	642.3	1275.8	3127.4	5140.7	3005.6	1291.3	817.3	516.1
82.5°	290.1	265.8	318.9	465.1	797.3	1614.6	775.2	485.1	389.8	261.4
85°	166.1	155.0	188.3	225.9	268.0	343.3	223.7	230.3	208.2	139.5
87.5°	68.7	62.0	73.1	70.9	62.0	79.7	59.8	70.9	84.2	55.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
3887.1  
3873.8  
3825.1  
3771.9  
3747.5  
3747.5  
3763.0  
3791.8  
3820.6  
3833.9  
3847.2  
3880.4  
3955.7  
4073.1  
4261.4  
4522.7  
4848.3  
5262.5  
5752.0  
6310.1  
6981.2  
7794.1  
8766.4  
9869.4  
10981.3  
12272.5  
13528.3  
14121.9  
**13351.2**  
10558.2  
5982.3  
1880.4  
544.9  
283.5  
146.2  
50.9  
0.0

OF REPORT)