

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: P942520

Luminaire Tested: **GALN-SB6C-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942520  
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-SB6C-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

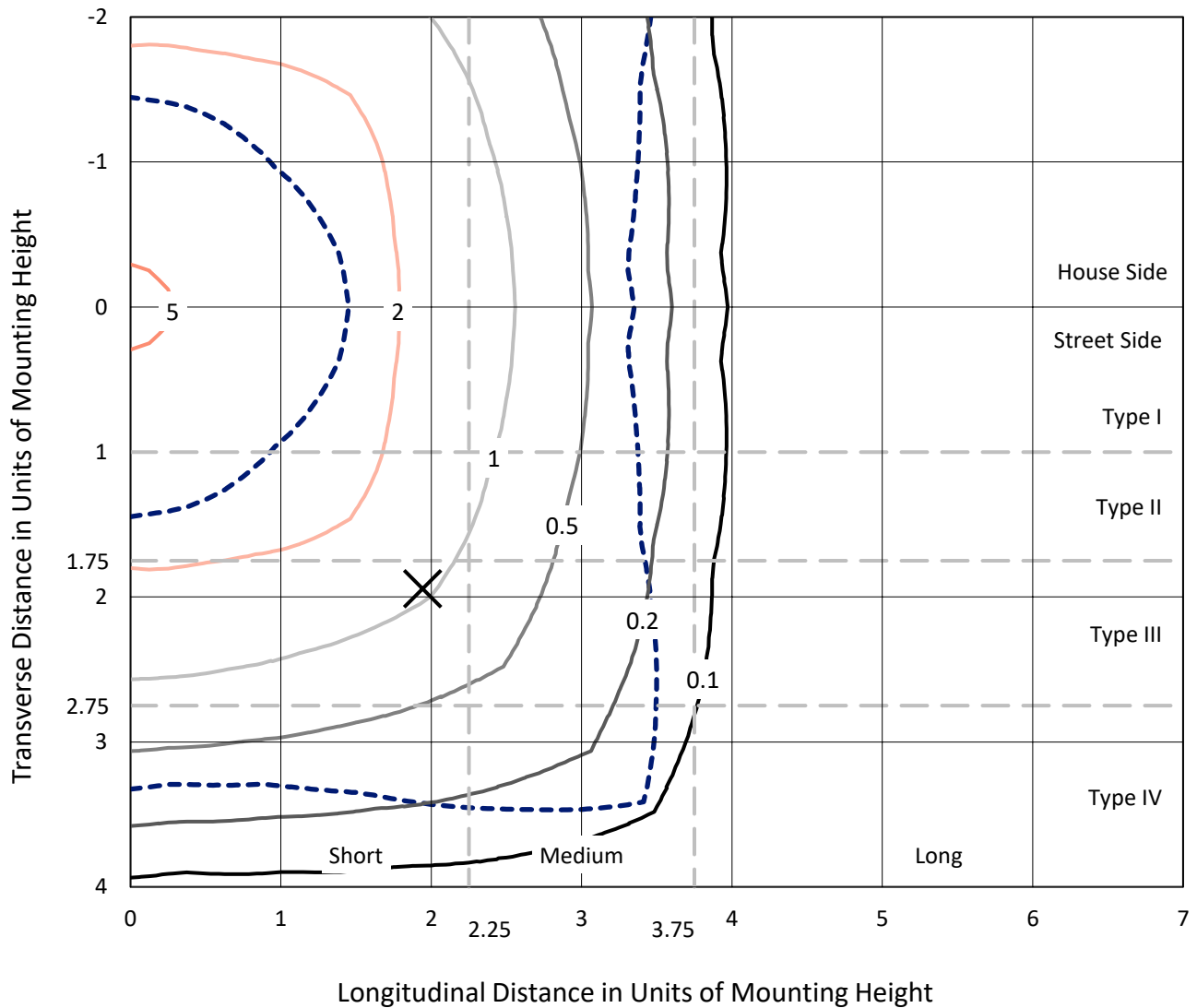
Lumens per Lamp: N/A  
Luminaire Lumens: 39945 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

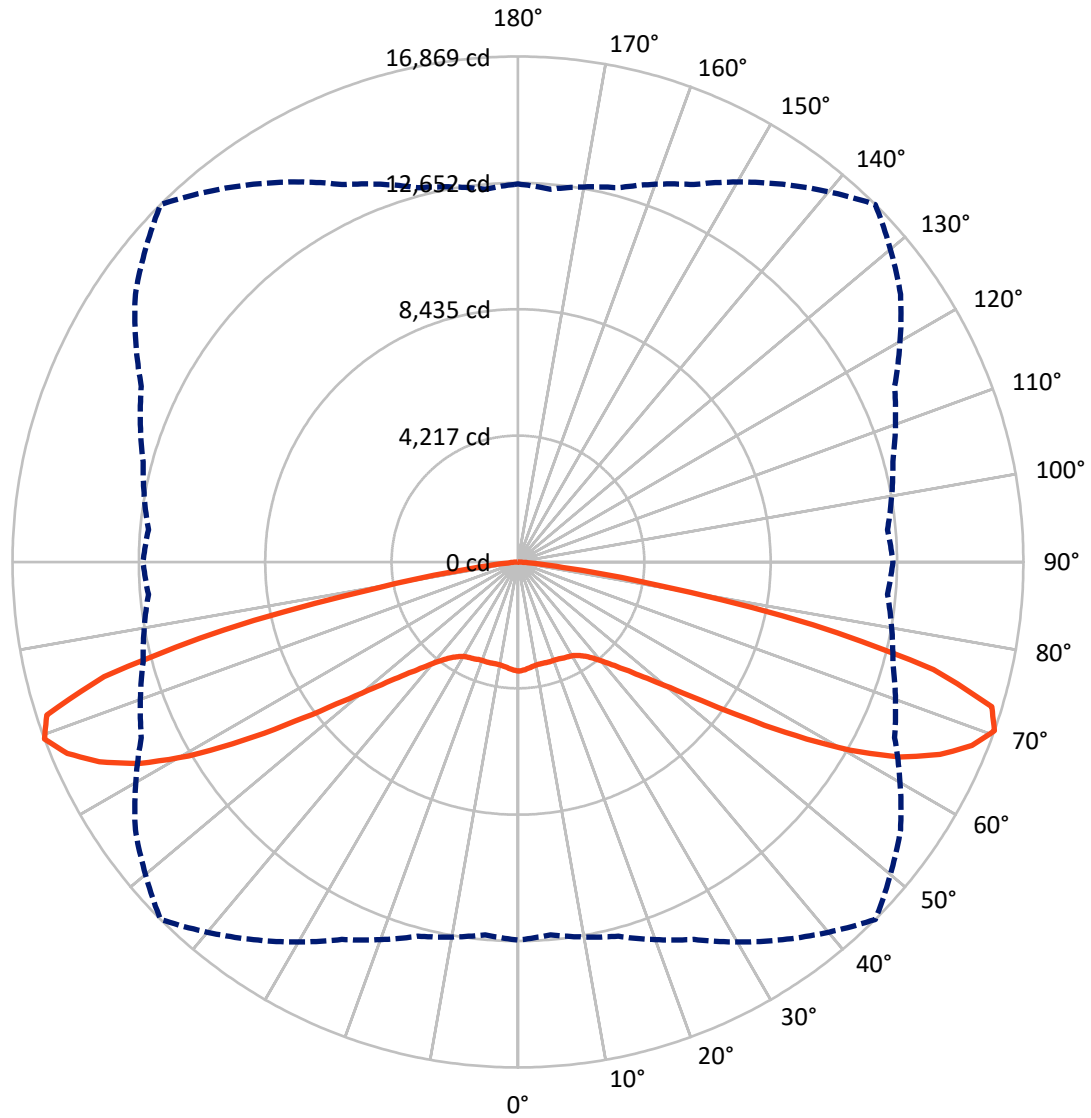
✕ Max cd  
 - - - 1/2 Max cd



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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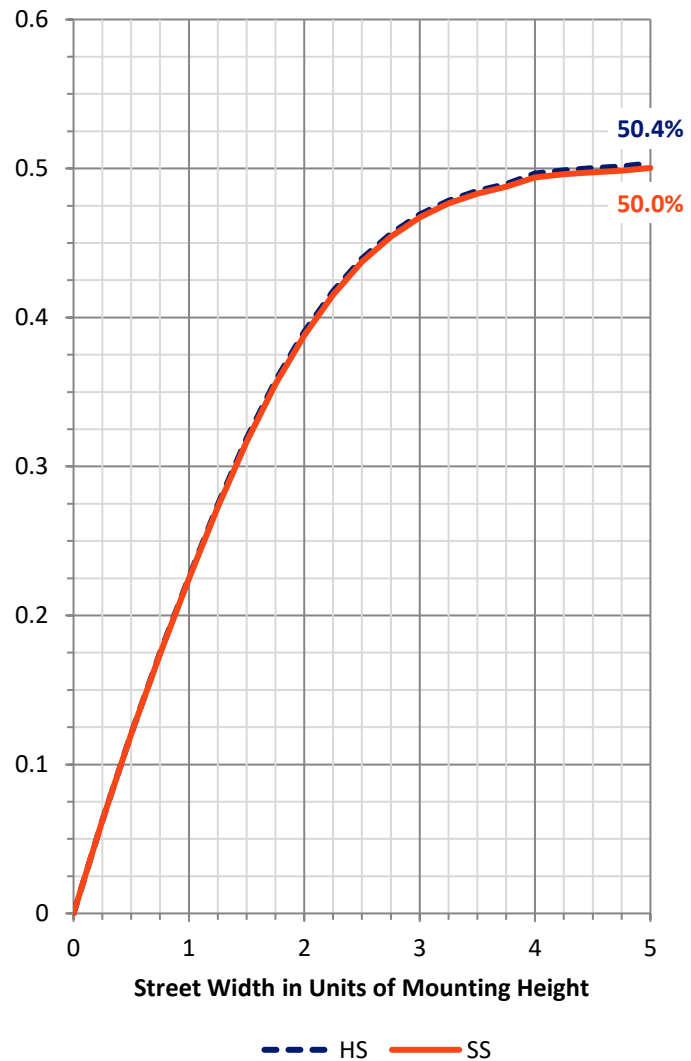
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19972.5	0.0	19972.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19972.5	0.0	19972.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39945.0	0.0	39945.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.0	0.8
10°-20°	995.3	2.5
20°-30°	1656.3	4.1
30°-40°	2504.8	6.3
40°-50°	4162.3	10.4
50°-60°	7854.2	19.7
60°-70°	13262.1	33.2
70°-80°	8714.6	21.8
80°-90°	456.5	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°	39945.0	100.0
0°-180°	39945.0	100.0

**Coefficient of Utilization**



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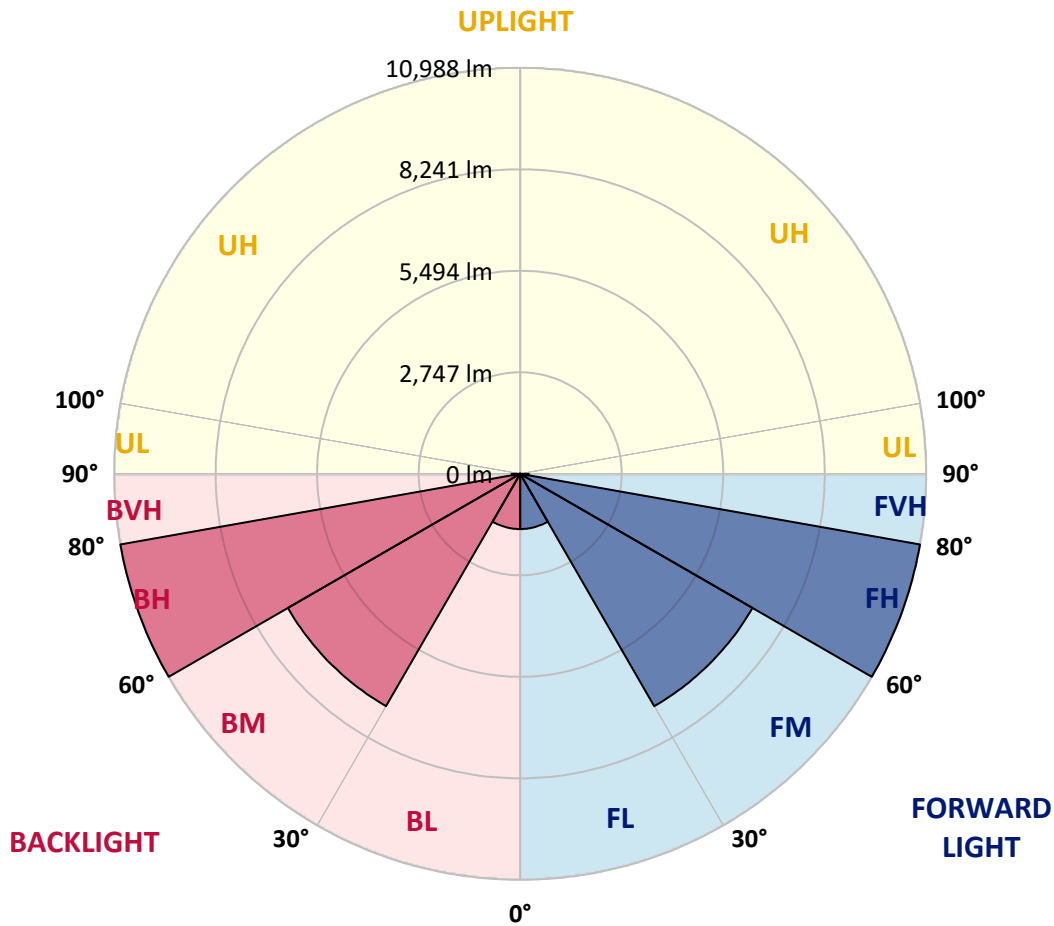
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1495.2	3.7			
FM (30°-60°)	7260.6	18.2			
FH (60°-80°)	10988.3	27.5			G4/12000
FVH (80°-90°)	228.3	0.6			G3/500
BL (0°-30°)	1495.2	3.7	B3/2500		
BM (30°-60°)	7260.6	18.2	B4/8500		
BH (60°-80°)	10988.3	27.5	B5		G4/12000
BVH (80°-90°)	228.3	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°	3643.8	3643.8	3643.8	3643.8	3643.8	3643.8	3643.8	3643.8	3643.8	3643.8
2.5°	3620.9	3631.3	3627.2	3618.9	3618.9	3612.6	3618.9	3623.0	3629.3	3633.4
5°	3573.2	3581.5	3579.4	3573.2	3575.3	3569.0	3573.2	3579.4	3583.6	3585.7
7.5°	3531.7	3540.0	3535.8	3525.4	3525.4	3519.2	3521.3	3527.5	3533.7	3535.8
10°	3521.3	3529.6	3517.1	3500.5	3494.3	3486.0	3488.1	3494.3	3506.8	3513.0
12.5°	3525.4	3531.7	3519.2	3494.3	3488.1	3479.8	3479.8	3486.0	3502.6	3510.9
15°	3537.9	3544.1	3525.4	3498.5	3492.2	3486.0	3483.9	3492.2	3510.9	3525.4
17.5°	3560.7	3567.0	3537.9	3500.5	3492.2	3494.3	3492.2	3498.5	3527.5	3554.5
20°	3581.5	3585.7	3546.2	3500.5	3492.2	3494.3	3492.2	3504.7	3542.1	3579.4
22.5°	3587.7	3591.9	3554.5	3515.1	3508.8	3510.9	3508.8	3521.3	3556.6	3594.0
25°	3589.8	3596.0	3567.0	3535.8	3546.2	3550.4	3546.2	3548.3	3575.3	3608.5
27.5°	3620.9	3629.3	3602.3	3575.3	3581.5	3579.4	3585.7	3591.9	3612.6	3645.9
30°	3685.3	3691.5	3668.7	3641.7	3637.6	3623.0	3641.7	3662.5	3685.3	3714.4
32.5°	3791.2	3803.7	3774.6	3745.5	3726.8	3718.5	3733.1	3768.4	3799.5	3830.6
35°	3967.7	3976.0	3949.0	3895.0	3861.8	3861.8	3874.3	3919.9	3969.8	4009.2
37.5°	4216.8	4227.2	4179.5	4115.1	4065.3	4065.3	4081.9	4129.6	4204.4	4260.4
40°	4520.0	4534.5	4474.3	4407.8	4360.1	4351.8	4372.5	4426.5	4497.1	4567.7
42.5°	4885.4	4902.0	4823.1	4765.0	4727.6	4727.6	4738.0	4787.8	4852.2	4939.4
45°	5352.5	5381.6	5273.6	5215.5	5180.2	5188.5	5194.7	5238.3	5296.5	5396.1
47.5°	5909.0	5938.0	5823.8	5763.6	5757.4	5796.8	5771.9	5803.1	5834.2	5948.4
50°	6540.1	6590.0	6511.1	6506.9	6519.4	6592.0	6533.9	6550.5	6515.2	6587.9
52.5°	7312.5	7385.2	7370.6	7395.5	7534.6	7684.1	7551.3	7493.1	7360.2	7383.1
55°	8248.9	8358.9	8379.7	8529.2	8844.8	9150.0	8867.6	8633.0	8350.6	8298.7
57.5°	9314.0	9401.2	9500.8	9806.0	10395.7	10937.6	10395.7	9876.6	9432.3	9326.4
60°	10460.1	10568.0	10663.5	11114.1	11990.2	12752.2	11973.6	11149.4	10561.8	10418.5
62.5°	11691.3	11830.4	11896.8	12397.2	13418.7	14328.1	13433.2	12434.6	11782.6	11629.0
65°	12872.6	12986.8	13061.6	13595.2	14571.0	15482.5	14637.4	13653.3	12982.7	12781.3
67.5°	13422.8	13485.1	13667.8	14272.0	15301.8	16342.0	15476.2	14336.4	13586.9	13233.9
70°	12617.3	12490.6	12930.8	13898.3	15389.0	16869.4	15588.4	13869.2	12951.5	12378.5
72.5°	9750.0	9532.0	10296.0	11950.8	14392.4	16533.0	14492.1	12044.2	10771.5	9608.8
75°	5304.8	5057.7	6112.4	8205.3	11477.4	14330.2	11741.1	8439.9	6805.9	5265.3
77.5°	1497.0	1403.5	2254.8	3969.8	6903.5	10061.4	7169.2	4057.0	2674.2	1586.2
80°	458.8	444.3	602.1	1195.9	2931.6	4818.9	2817.4	1210.4	766.1	483.8
82.5°	272.0	249.1	299.0	436.0	747.4	1513.6	726.7	454.7	365.4	245.0
85°	155.7	145.3	176.5	211.8	251.2	321.8	209.7	215.9	195.2	130.8
87.5°	64.4	58.1	68.5	66.4	58.1	74.7	56.1	66.4	78.9	51.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
3643.8  
3631.3  
3585.7  
3535.8  
3513.0  
3513.0  
3527.5  
3554.5  
3581.5  
3594.0  
3606.4  
3637.6  
3708.2  
3818.2  
3994.7  
4239.7  
4544.9  
4933.1  
5392.0  
5915.2  
6544.3  
7306.3  
8217.7  
9251.7  
10294.0  
11504.4  
12681.6  
13238.1  
*12515.5*  
9897.4  
5607.9  
1762.7  
510.8  
265.8  
137.0  
47.8  
0.0

OF REPORT)