

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: P951403

Luminaire Tested: **GALN-SB5C-827-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

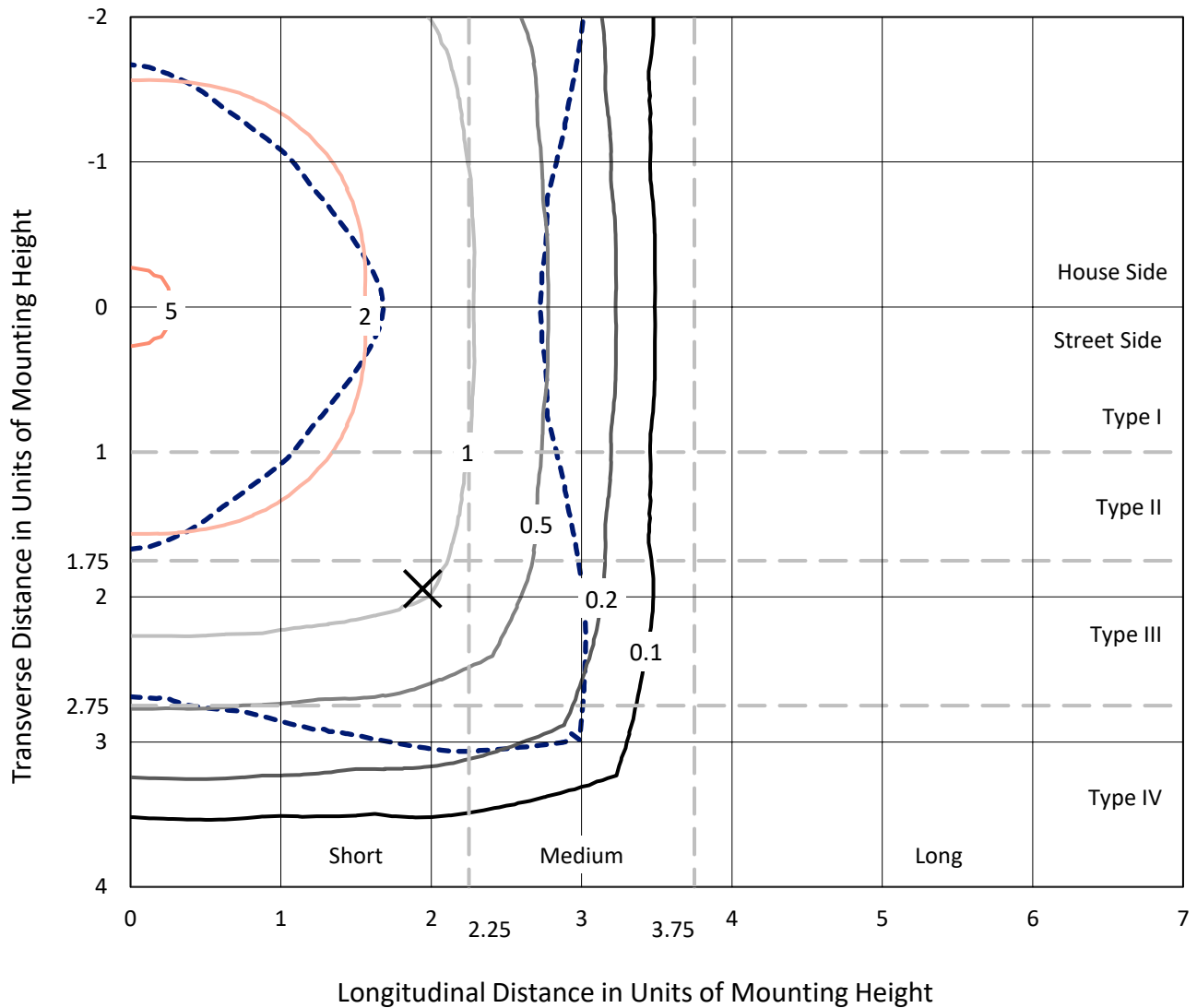
Lumens per Lamp: N/A  
Luminaire Lumens: 34451 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

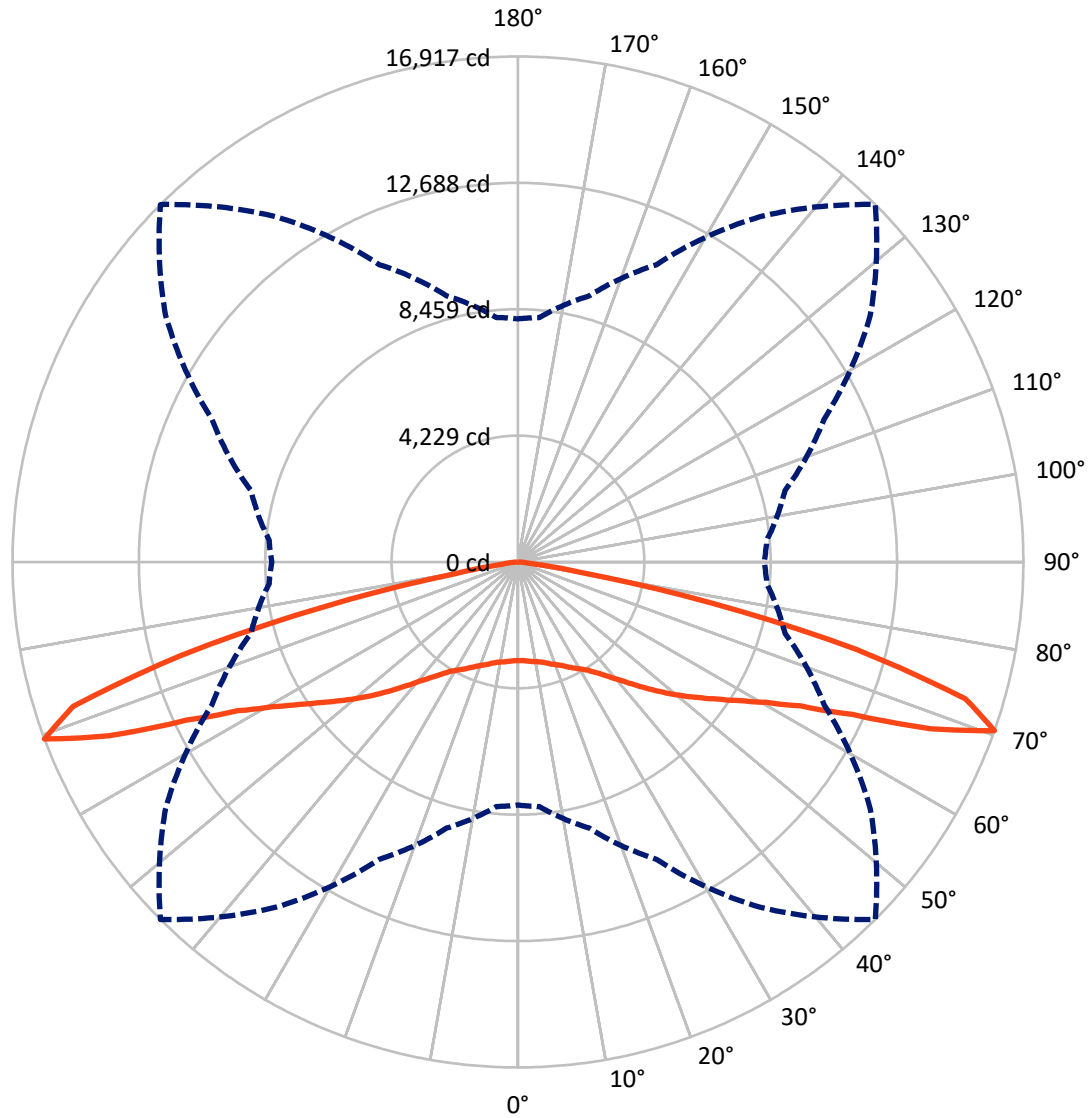
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	17225.5	0.0	17225.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17225.5	0.0	17225.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34451.0	0.0	34451.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.6	0.9
10°-20°	994.1	2.9
20°-30°	1776.7	5.2
30°-40°	2879.9	8.4
40°-50°	4690.9	13.6
50°-60°	7152.1	20.8
60°-70°	10640.0	30.9
70°-80°	5799.2	16.8
80°-90°	197.5	0.6
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°	34451.0	100.0
0°-180°	34451.0	100.0



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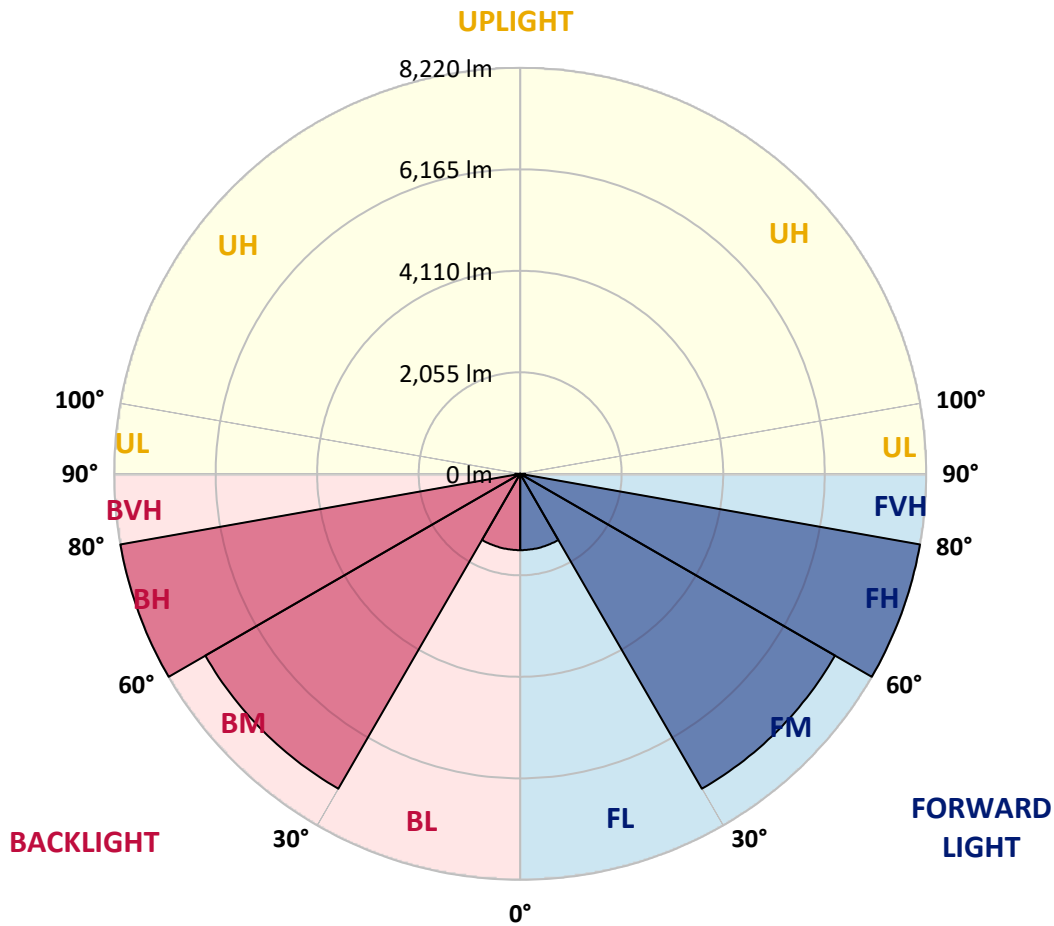
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1545.7	4.5			
FM	(30°-60°)	7361.5	21.4			
FH	(60°-80°)	8219.6	23.9			G4/12000
FVH	(80°-90°)	98.7	0.3			G1/100
BL	(0°-30°)	1545.7	4.5	B3/2500		
BM	(30°-60°)	7361.5	21.4	B4/8500		
BH	(60°-80°)	8219.6	23.9	B5		G4/12000
BVH	(80°-90°)	98.7	0.3			G1/100
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°	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0
2.5°	3315.6	3319.1	3312.2	3308.7	3305.2	3300.0	3301.8	3310.4	3317.3	3315.6
5°	3343.3	3346.7	3341.6	3339.8	3332.9	3331.2	3331.2	3339.8	3345.0	3341.6
7.5°	3374.4	3379.6	3371.0	3369.2	3365.8	3362.3	3360.6	3369.2	3374.4	3374.4
10°	3403.8	3409.0	3402.1	3396.9	3393.4	3393.4	3390.0	3396.9	3405.6	3403.8
12.5°	3435.0	3438.4	3431.5	3428.0	3428.0	3433.2	3428.0	3431.5	3438.4	3435.0
15°	3473.0	3474.7	3473.0	3478.2	3486.8	3504.1	3488.6	3485.1	3488.6	3479.9
17.5°	3524.9	3528.4	3535.3	3547.4	3559.5	3590.6	3562.9	3554.3	3554.3	3537.0
20°	3588.9	3594.1	3604.5	3625.2	3640.8	3670.2	3642.5	3630.4	3625.2	3602.7
22.5°	3656.3	3665.0	3680.6	3708.2	3735.9	3763.6	3735.9	3715.1	3699.6	3670.2
25°	3734.2	3744.6	3768.8	3813.7	3851.8	3891.6	3858.7	3817.2	3786.1	3744.6
27.5°	3844.9	3857.0	3886.4	3941.7	3990.2	4024.7	3993.6	3940.0	3896.8	3846.6
30°	4000.5	4012.6	4047.2	4106.0	4138.9	4161.4	4140.6	4099.1	4047.2	3990.2
32.5°	4201.2	4216.7	4254.8	4310.1	4317.0	4320.5	4313.6	4292.8	4254.8	4185.6
35°	4455.4	4472.7	4515.9	4560.9	4554.0	4560.9	4550.5	4543.6	4515.9	4436.4
37.5°	4766.7	4787.5	4832.5	4867.1	4849.8	4841.1	4842.8	4844.6	4829.0	4740.8
40°	5128.2	5155.9	5188.8	5225.1	5195.7	5169.7	5187.0	5200.9	5187.0	5097.1
42.5°	5500.1	5539.9	5574.5	5626.3	5602.1	5569.3	5593.5	5609.0	5579.6	5482.8
45°	5913.5	5951.5	5996.5	6074.3	6057.0	6022.4	6057.0	6060.5	6010.3	5896.2
47.5°	6340.7	6380.4	6447.9	6551.7	6544.8	6506.7	6551.7	6527.5	6463.5	6326.8
50°	6745.4	6800.7	6904.5	7049.8	7063.6	7016.9	7077.5	7030.8	6923.5	6752.3
52.5°	7125.9	7184.7	7349.0	7546.2	7596.3	7535.8	7617.1	7535.8	7375.0	7155.3
55°	7525.4	7591.2	7786.6	8044.3	8144.6	8099.6	8175.8	8053.0	7824.6	7558.3
57.5°	7995.9	8035.7	8269.1	8575.3	8744.8	8755.2	8789.8	8582.2	8305.5	8002.8
60°	8506.1	8561.4	8815.7	9182.4	9450.5	9536.9	9500.6	9192.7	8871.0	8523.4
62.5°	9159.9	9220.4	9524.8	9964.1	10387.9	10602.4	10460.5	10014.3	9616.5	9199.7
65°	9701.2	9768.7	10318.7	11102.2	11873.6	12304.3	11948.0	11126.4	10410.4	9822.3
67.5°	9308.6	9391.6	10254.7	11693.7	13611.8	14896.9	13677.6	11870.1	10467.5	9670.1
70°	8136.0	8213.8	9220.4	10979.4	14101.3	16917.1	14395.3	11302.8	9253.3	8360.8
72.5°	5401.5	5652.3	6671.0	8781.1	12591.4	15654.5	12715.9	8603.0	6188.5	5389.4
75°	1791.9	1992.5	2687.8	4552.3	8433.5	11707.6	8028.7	4028.2	2129.1	1532.4
77.5°	451.4	520.6	717.8	1302.4	3364.0	6665.8	3028.5	1063.7	579.4	404.7
80°	219.7	242.1	345.9	434.1	842.3	2118.7	790.4	408.2	273.3	211.0
82.5°	121.1	122.8	195.4	245.6	313.1	548.3	325.2	238.7	157.4	128.0
85°	74.4	72.6	103.8	131.4	131.4	195.4	155.7	131.4	89.9	79.6
87.5°	29.4	29.4	38.1	41.5	36.3	50.2	39.8	43.2	34.6	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3300.0
3317.3
3343.3
3374.4
3403.8
3433.2
3479.9
3537.0
3602.7
3668.5
3742.8
3844.9
3990.2
4187.3
4436.4
4740.8
5097.1
5489.7
5908.3
6318.2
6748.8
7134.5
7522.0
7961.3
8468.1
9127.0
9725.5
9550.8
8241.5
5214.7
1449.4
361.5
193.7
128.0
83.0
34.6
0.0

OF REPORT)