

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: P952831

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952831  
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-SB6C-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

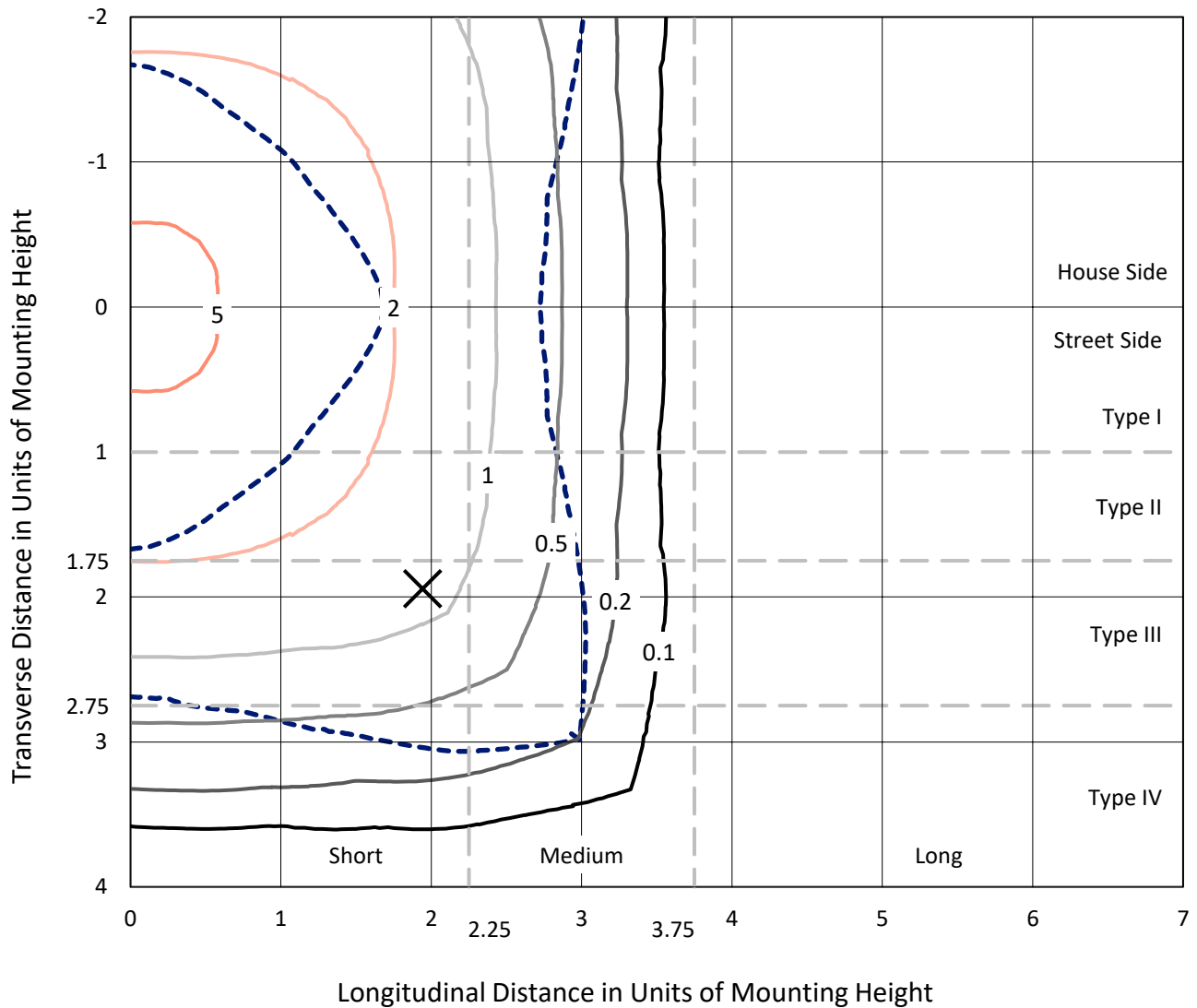
Lumens per Lamp: N/A  
Luminaire Lumens: 41357 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

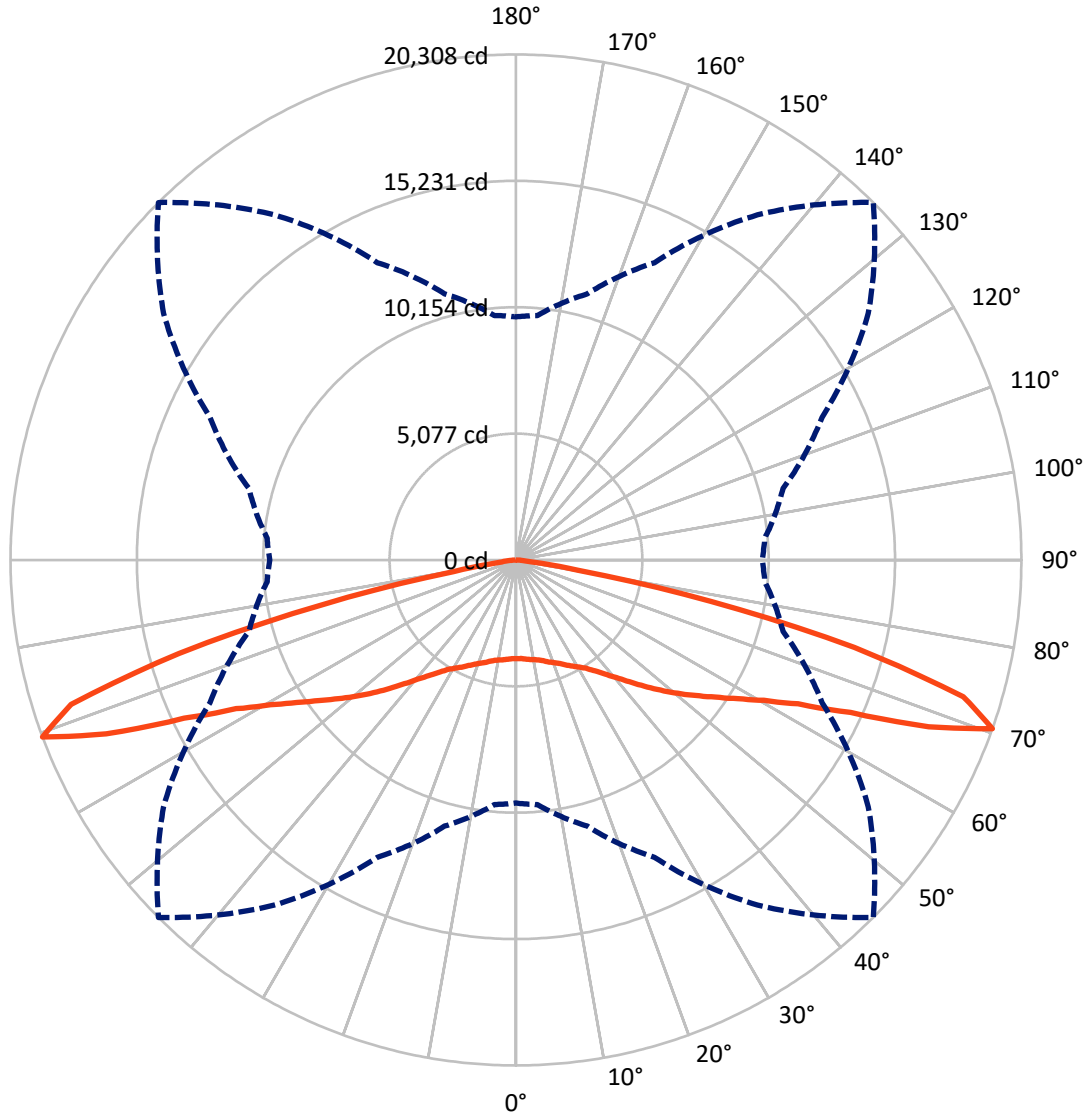
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	20678.5	0.0	20678.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20678.5	0.0	20678.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41357.0	0.0	41357.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.9	0.9
10°-20°	1193.4	2.9
20°-30°	2132.8	5.2
30°-40°	3457.2	8.4
40°-50°	5631.3	13.6
50°-60°	8585.8	20.8
60°-70°	12772.9	30.9
70°-80°	6961.7	16.8
80°-90°	237.1	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°	41357.0	100.0
0°-180°	41357.0	100.0



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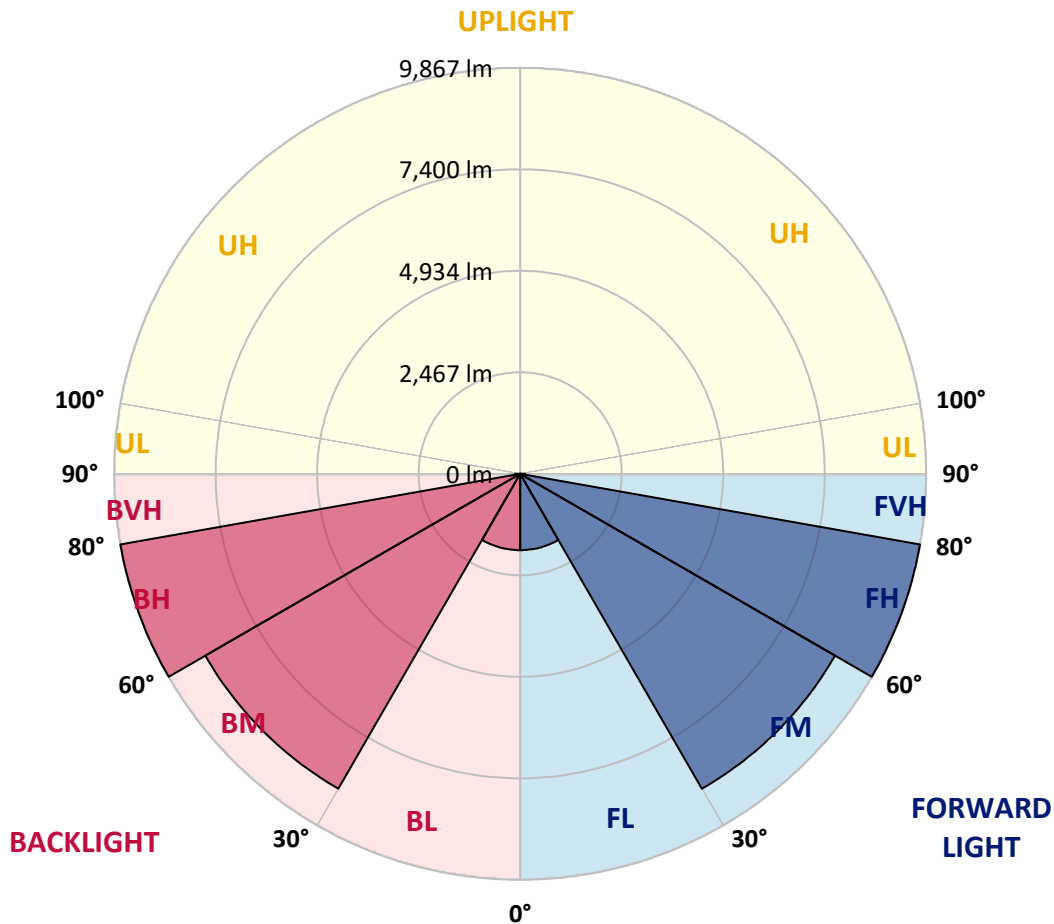
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1855.5	4.5			
FM (30°-60°)	8837.1	21.4			
FH (60°-80°)	9867.3	23.9			G4/12000
FVH (80°-90°)	118.5	0.3			G2/225
BL (0°-30°)	1855.5	4.5	B3/2500		
BM (30°-60°)	8837.1	21.4	B5		
BH (60°-80°)	9867.3	23.9	B5		G4/12000
BVH (80°-90°)	118.5	0.3			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°	3961.6	3961.6	3961.6	3961.6	3961.6	3961.6	3961.6	3961.6	3961.6	3961.6
2.5°	3980.3	3984.4	3976.1	3972.0	3967.8	3961.6	3963.6	3974.0	3982.3	3980.3
5°	4013.5	4017.6	4011.4	4009.3	4001.0	3998.9	3998.9	4009.3	4015.6	4011.4
7.5°	4050.9	4057.1	4046.7	4044.6	4040.5	4036.3	4034.2	4044.6	4050.9	4050.9
10°	4086.2	4092.4	4084.1	4077.8	4073.7	4073.7	4069.5	4077.8	4088.2	4086.2
12.5°	4123.5	4127.7	4119.4	4115.2	4115.2	4121.4	4115.2	4119.4	4127.7	4123.5
15°	4169.2	4171.3	4169.2	4175.4	4185.8	4206.6	4187.9	4183.7	4187.9	4177.5
17.5°	4231.5	4235.6	4243.9	4258.5	4273.0	4310.4	4277.2	4266.8	4266.8	4246.0
20°	4308.3	4314.5	4327.0	4351.9	4370.6	4405.9	4372.7	4358.1	4351.9	4324.9
22.5°	4389.3	4399.7	4418.4	4451.6	4484.8	4518.0	4484.8	4459.9	4441.2	4405.9
25°	4482.7	4495.2	4524.2	4578.2	4623.9	4671.7	4632.2	4582.4	4545.0	4495.2
27.5°	4615.6	4630.1	4665.4	4731.9	4790.0	4831.5	4794.2	4729.8	4677.9	4617.7
30°	4802.5	4817.0	4858.5	4929.1	4968.6	4995.6	4970.7	4920.8	4858.5	4790.0
32.5°	5043.3	5062.0	5107.7	5174.1	5182.4	5186.6	5178.3	5153.4	5107.7	5024.6
35°	5348.5	5369.3	5421.2	5475.2	5466.9	5475.2	5462.7	5454.4	5421.2	5325.7
37.5°	5722.3	5747.2	5801.2	5842.7	5821.9	5811.6	5813.6	5815.7	5797.0	5691.1
40°	6156.2	6189.4	6228.9	6272.5	6237.2	6206.0	6226.8	6243.4	6226.8	6118.8
42.5°	6602.6	6650.4	6691.9	6754.2	6725.1	6685.7	6714.7	6733.4	6698.1	6581.9
45°	7098.9	7144.5	7198.5	7292.0	7271.2	7229.7	7271.2	7275.3	7215.1	7078.1
47.5°	7611.7	7659.5	7740.4	7865.0	7856.7	7811.0	7865.0	7835.9	7759.1	7595.1
50°	8097.6	8164.0	8288.6	8463.0	8479.6	8423.5	8496.2	8440.1	8311.4	8105.9
52.5°	8554.3	8624.9	8822.2	9058.9	9119.1	9046.4	9144.0	9046.4	8853.3	8589.6
55°	9034.0	9112.9	9347.5	9656.9	9777.3	9723.3	9814.7	9667.2	9393.2	9073.4
57.5°	9598.7	9646.5	9926.8	10294.3	10497.8	10510.2	10551.7	10302.6	9970.4	9607.0
60°	10211.2	10277.7	10582.9	11023.1	11344.9	11448.7	11405.1	11035.5	10649.3	10232.0
62.5°	10996.1	11068.7	11434.2	11961.5	12470.2	12727.7	12557.4	12021.8	11544.2	11043.8
65°	11645.9	11726.9	12387.2	13327.7	14253.8	14770.8	14343.1	13356.8	12497.2	11791.3
67.5°	11174.6	11274.3	12310.4	14037.8	16340.4	17883.1	16419.3	14249.6	12565.7	11608.6
70°	9766.9	9860.3	11068.7	13180.3	16928.0	20308.3	17281.0	13568.6	11108.2	10036.8
72.5°	6484.3	6785.3	8008.3	10541.4	15115.4	18792.6	15264.9	10327.5	7429.0	6469.7
75°	2151.0	2391.9	3226.6	5464.8	10124.0	14054.4	9638.2	4835.7	2555.9	1839.6
77.5°	541.9	625.0	861.7	1563.5	4038.4	8002.0	3635.6	1276.9	695.6	485.9
80°	263.7	290.7	415.3	521.2	1011.2	2543.5	948.9	490.0	328.1	253.3
82.5°	145.3	147.4	234.6	294.8	375.8	658.2	390.3	286.5	188.9	153.6
85°	89.3	87.2	124.6	157.8	157.8	234.6	186.9	157.8	108.0	95.5
87.5°	35.3	35.3	45.7	49.8	43.6	60.2	47.8	51.9	41.5	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
3961.6
3982.3
4013.5
4050.9
4086.2
4121.4
4177.5
4246.0
4324.9
4403.8
4493.1
4615.6
4790.0
5026.7
5325.7
5691.1
6118.8
6590.2
7092.6
7584.7
8101.7
8564.7
9029.8
9557.2
10165.5
10956.6
11675.0
11465.3
9893.5
6260.0
1739.9
433.9
232.5
153.6
99.7
41.5
0.0

OF REPORT)