

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: P955687

Luminaire Tested: **GALN-SB8C-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955687
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-SB8C-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 55148 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

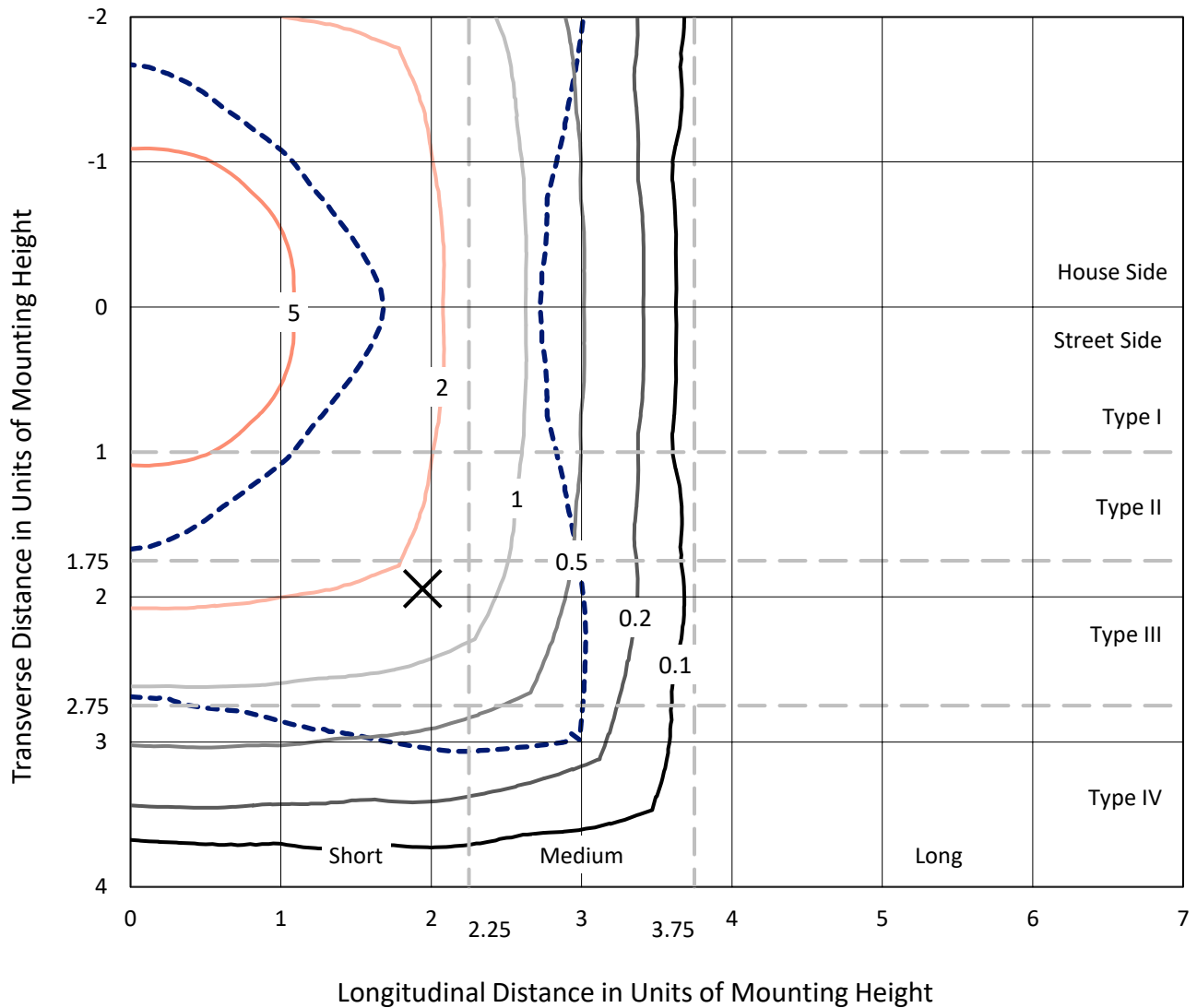
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

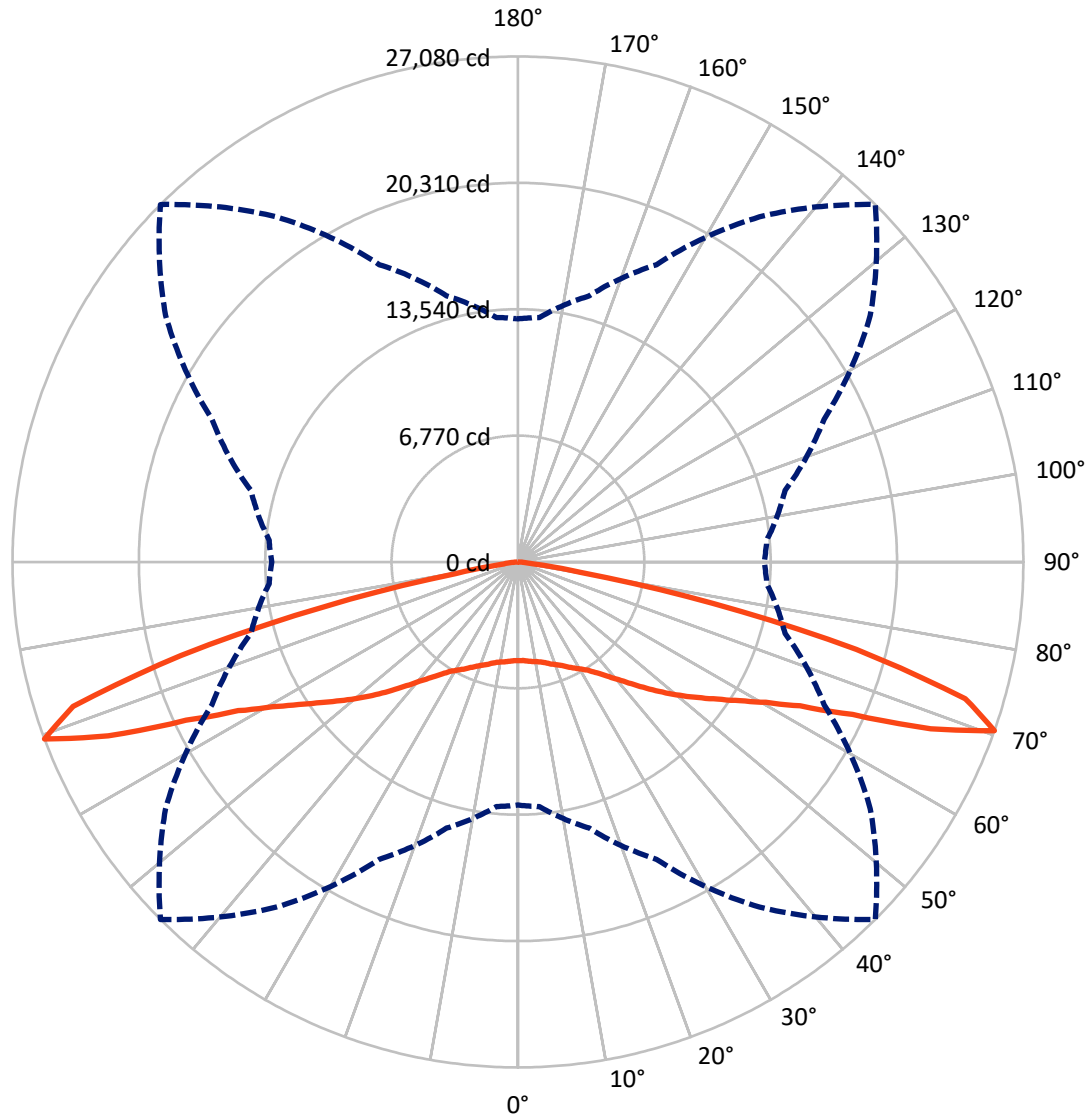
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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
House Side	Lumens	27574.0	0.0	27574.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27574.0	0.0	27574.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	55148.0	0.0	55148.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.2	0.9
10°-20°	1591.4	2.9
20°-30°	2844.0	5.2
30°-40°	4610.1	8.4
40°-50°	7509.1	13.6
50°-60°	11448.8	20.8
60°-70°	17032.2	30.9
70°-80°	9283.1	16.8
80°-90°	316.1	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°	55148.0	100.0
0°-180°	55148.0	100.0



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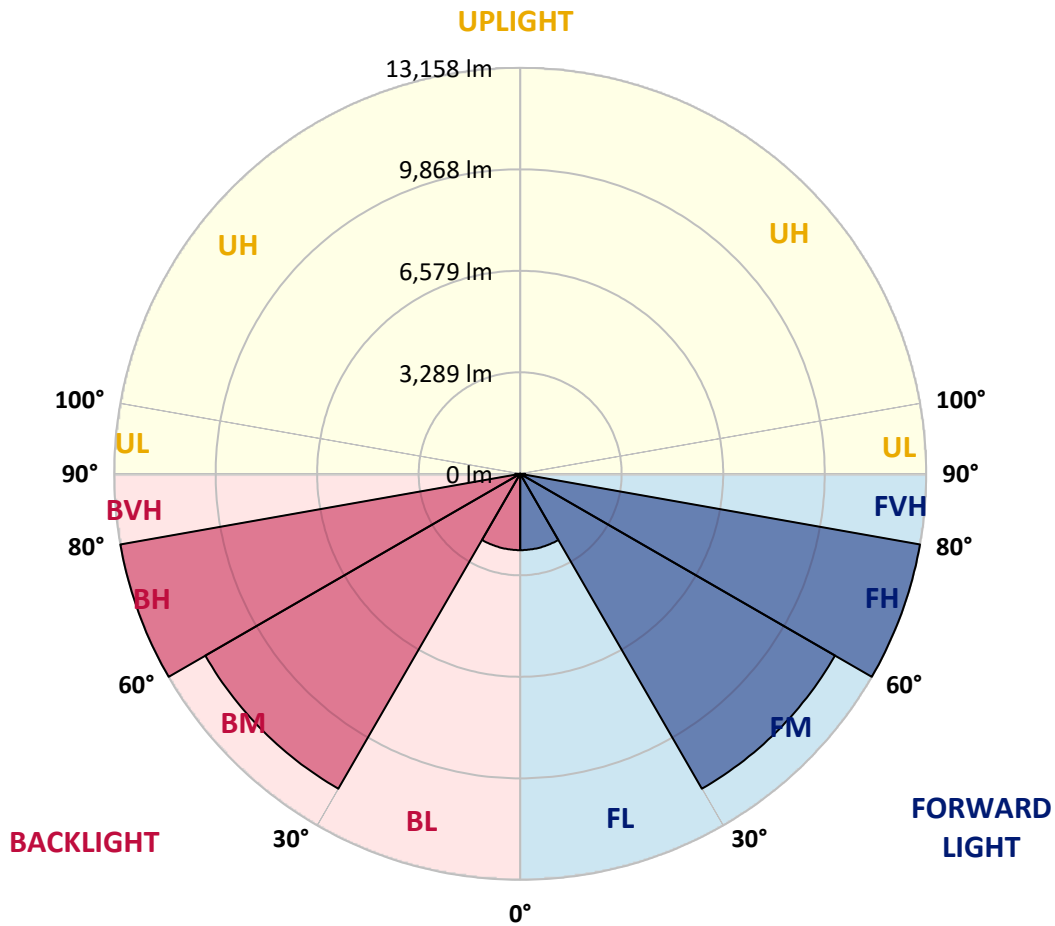
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2474.3	4.5			
FM (30°-60°)	11784.0	21.4			
FH (60°-80°)	13157.6	23.9			G5
FVH (80°-90°)	158.1	0.3			G2/225
BL (0°-30°)	2474.3	4.5	B3/2500		
BM (30°-60°)	11784.0	21.4	B5		
BH (60°-80°)	13157.6	23.9	B5		G5
BVH (80°-90°)	158.1	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-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5282.6	5282.6	5282.6	5282.6	5282.6	5282.6	5282.6	5282.6	5282.6	5282.6
2.5°	5307.5	5313.1	5302.0	5296.5	5290.9	5282.6	5285.4	5299.2	5310.3	5307.5
5°	5351.8	5357.4	5349.1	5346.3	5335.2	5332.4	5332.4	5346.3	5354.6	5349.1
7.5°	5401.7	5410.0	5396.1	5393.4	5387.8	5382.3	5379.5	5393.4	5401.7	5401.7
10°	5448.7	5457.0	5446.0	5437.7	5432.1	5432.1	5426.6	5437.7	5451.5	5448.7
12.5°	5498.6	5504.1	5493.0	5487.5	5487.5	5495.8	5487.5	5493.0	5504.1	5498.6
15°	5559.5	5562.2	5559.5	5567.8	5581.6	5609.3	5584.4	5578.9	5584.4	5570.5
17.5°	5642.5	5648.1	5659.1	5678.5	5697.9	5747.7	5703.4	5689.6	5689.6	5661.9
20°	5745.0	5753.3	5769.9	5803.1	5828.0	5875.1	5830.8	5811.4	5803.1	5767.1
22.5°	5853.0	5866.8	5891.7	5936.0	5980.3	6024.6	5980.3	5947.1	5922.2	5875.1
25°	5977.5	5994.2	6032.9	6104.9	6165.8	6229.5	6176.9	6110.4	6060.6	5994.2
27.5°	6154.7	6174.1	6221.2	6309.8	6387.3	6442.7	6392.8	6307.0	6237.8	6157.5
30°	6403.9	6423.3	6478.7	6572.8	6625.4	6661.4	6628.2	6561.7	6478.7	6387.3
32.5°	6725.1	6750.0	6810.9	6899.5	6910.6	6916.1	6905.0	6871.8	6810.9	6700.2
35°	7132.1	7159.8	7229.0	7301.0	7289.9	7301.0	7284.4	7273.3	7229.0	7101.6
37.5°	7630.4	7663.7	7735.6	7791.0	7763.3	7749.5	7752.3	7755.0	7730.1	7588.9
40°	8209.1	8253.4	8306.0	8364.1	8317.1	8275.5	8303.2	8325.4	8303.2	8159.2
42.5°	8804.3	8868.0	8923.4	9006.5	8967.7	8915.1	8953.9	8978.8	8931.7	8776.7
45°	9466.1	9527.0	9599.0	9723.5	9695.9	9640.5	9695.9	9701.4	9621.1	9438.4
47.5°	10149.9	10213.6	10321.6	10487.7	10476.6	10415.7	10487.7	10448.9	10346.5	10127.8
50°	10797.8	10886.4	11052.5	11285.1	11307.2	11232.5	11329.4	11254.6	11083.0	10808.9
52.5°	11406.9	11501.0	11764.0	12079.7	12160.0	12063.1	12193.2	12063.1	11805.6	11454.0
55°	12046.4	12151.7	12464.5	12877.0	13037.6	12965.6	13087.5	12890.9	12525.4	12099.1
57.5°	12799.5	12863.2	13237.0	13727.0	13998.4	14015.0	14070.3	13738.1	13295.1	12810.6
60°	13616.3	13704.9	14111.9	14698.8	15128.0	15266.4	15208.3	14715.4	14200.5	13644.0
62.5°	14662.8	14759.7	15247.0	15950.3	16628.6	16971.9	16744.9	16030.6	15393.8	14726.5
65°	15529.4	15637.4	16517.8	17772.0	19006.9	19696.3	19125.9	17810.8	16664.6	15723.2
67.5°	14900.9	15033.8	16415.4	18718.9	21789.4	23846.5	21894.6	19001.3	16755.9	15479.6
70°	13023.8	13148.4	14759.7	17575.5	22572.9	27080.3	23043.6	18093.2	14812.3	13383.7
72.5°	8646.5	9048.0	10678.7	14056.5	20155.9	25059.2	20355.2	13771.3	9906.3	8627.2
75°	2868.3	3189.5	4302.5	7287.1	13500.0	18741.1	12852.1	6448.2	3408.2	2453.0
77.5°	722.6	833.4	1149.0	2084.8	5385.0	10670.4	4847.9	1702.7	927.5	647.9
80°	351.6	387.6	553.7	694.9	1348.3	3391.6	1265.3	653.4	437.4	337.8
82.5°	193.8	196.6	312.9	393.2	501.1	877.7	520.5	382.1	251.9	204.9
85°	119.1	116.3	166.1	210.4	210.4	312.9	249.2	210.4	144.0	127.4
87.5°	47.1	47.1	60.9	66.4	58.1	80.3	63.7	69.2	55.4	52.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5282.6
5310.3
5351.8
5401.7
5448.7
5495.8
5570.5
5661.9
5767.1
5872.3
5991.4
6154.7
6387.3
6702.9
7101.6
7588.9
8159.2
8787.7
9457.8
10113.9
10803.3
11420.7
12040.9
12744.2
13555.4
14610.2
15568.2
15288.6
13192.7
8347.5
2320.1
578.7
310.1
204.9
132.9
55.4
0.0

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