

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: P953902

Luminaire Tested: **GALN-SB7B-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953902
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-SB7B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36468 lumens
Efficiency: N/A
Efficacy: 142.1 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

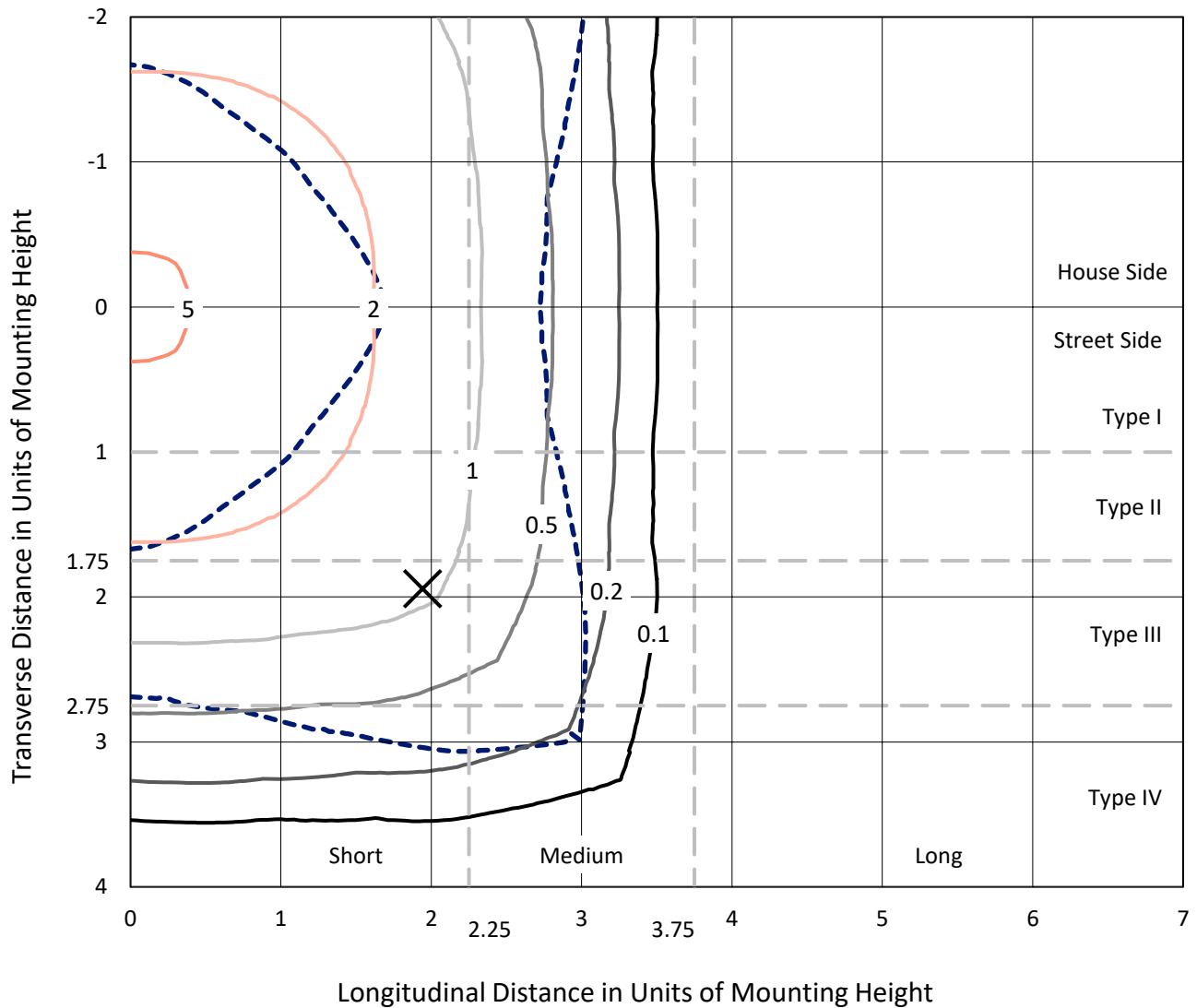
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

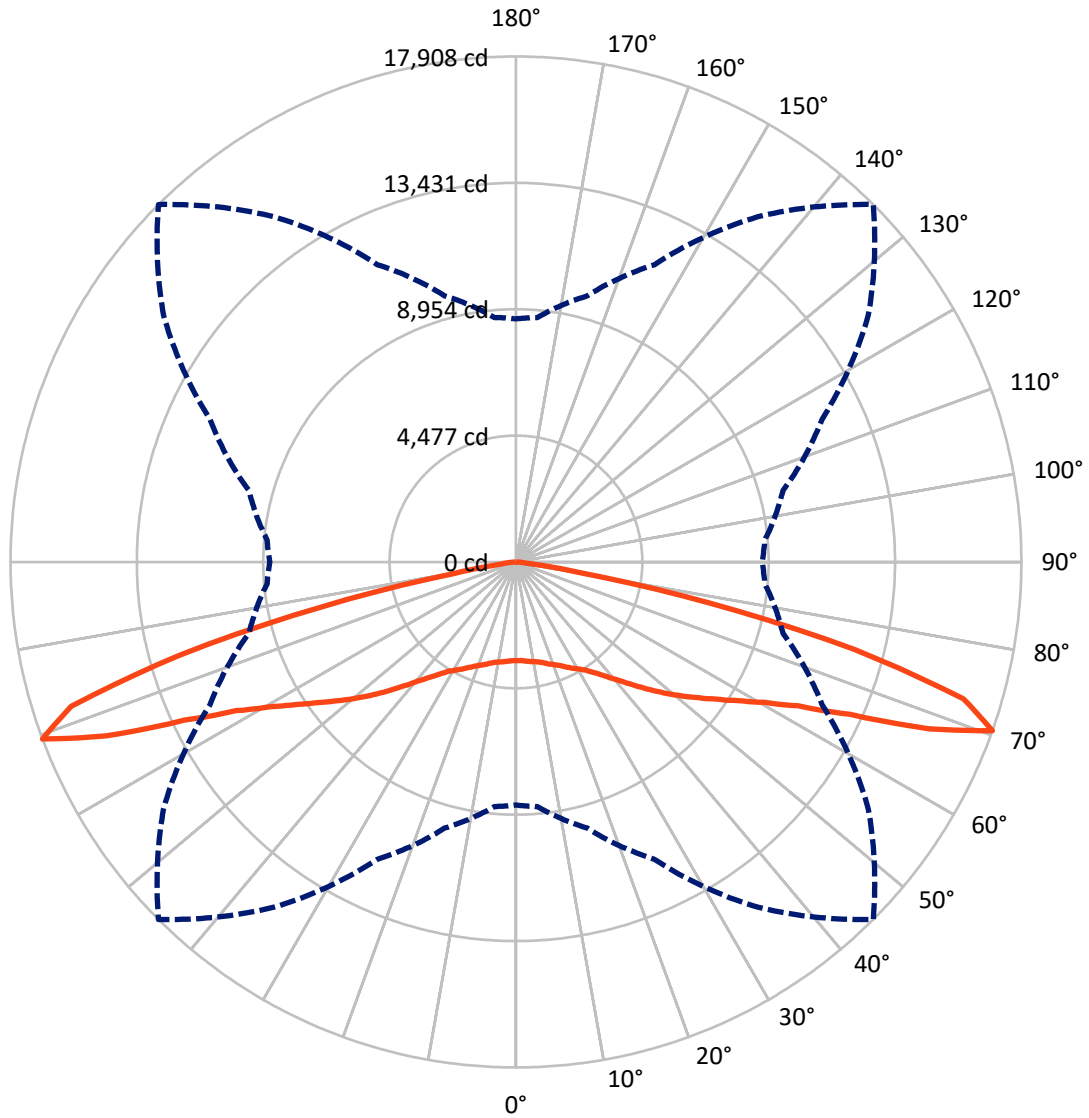
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	18234.0	0.0	18234.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18234.0	0.0	18234.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36468.0	0.0	36468.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.4	0.9
10°-20°	1052.3	2.9
20°-30°	1880.7	5.2
30°-40°	3048.5	8.4
40°-50°	4965.6	13.6
50°-60°	7570.8	20.8
60°-70°	11263.0	30.9
70°-80°	6138.7	16.8
80°-90°	209.0	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°	36468.0	100.0
0°-180°	36468.0	100.0



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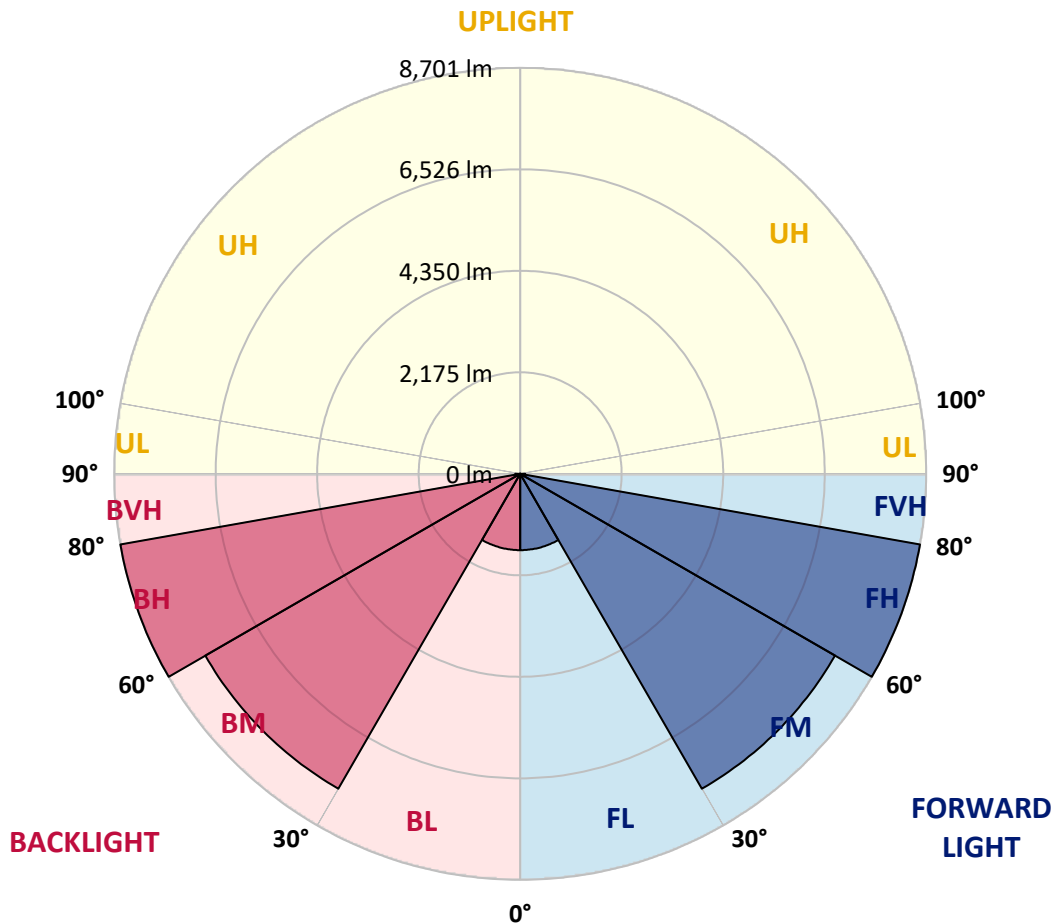
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1636.2	4.5			
FM (30°-60°)	7792.5	21.4			
FH (60°-80°)	8700.8	23.9			G4/12000
FVH (80°-90°)	104.5	0.3			G2/225
BL (0°-30°)	1636.2	4.5	B3/2500		
BM (30°-60°)	7792.5	21.4	B4/8500		
BH (60°-80°)	8700.8	23.9	B5		G4/12000
BVH (80°-90°)	104.5	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°	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3
2.5°	3509.7	3513.4	3506.1	3502.4	3498.7	3493.3	3495.1	3504.2	3511.6	3509.7
5°	3539.0	3542.7	3537.2	3535.4	3528.0	3526.2	3526.2	3535.4	3540.9	3537.2
7.5°	3572.0	3577.5	3568.3	3566.5	3562.8	3559.2	3557.3	3566.5	3572.0	3572.0
10°	3603.1	3608.6	3601.3	3595.8	3592.1	3592.1	3588.5	3595.8	3604.9	3603.1
12.5°	3636.1	3639.7	3632.4	3628.7	3628.7	3634.2	3628.7	3632.4	3639.7	3636.1
15°	3676.3	3678.2	3676.3	3681.8	3691.0	3709.3	3692.8	3689.2	3692.8	3683.7
17.5°	3731.3	3734.9	3742.3	3755.1	3767.9	3800.8	3771.5	3762.4	3762.4	3744.1
20°	3799.0	3804.5	3815.5	3837.5	3853.9	3885.1	3855.8	3842.9	3837.5	3813.7
22.5°	3870.4	3879.6	3896.0	3925.3	3954.6	3983.9	3954.6	3932.7	3916.2	3885.1
25°	3952.8	3963.8	3989.4	4037.0	4077.3	4119.4	4084.6	4040.7	4007.7	3963.8
27.5°	4070.0	4082.8	4113.9	4172.5	4223.8	4260.4	4227.4	4170.7	4124.9	4071.8
30°	4234.8	4247.6	4284.2	4346.4	4381.2	4405.0	4383.0	4339.1	4284.2	4223.8
32.5°	4447.1	4463.6	4503.9	4562.5	4569.8	4573.5	4566.1	4544.2	4503.9	4430.7
35°	4716.3	4734.6	4780.3	4827.9	4820.6	4827.9	4817.0	4809.6	4780.3	4696.1
37.5°	5045.8	5067.8	5115.4	5152.0	5133.7	5124.5	5126.4	5128.2	5111.7	5018.4
40°	5428.5	5457.8	5492.5	5531.0	5499.9	5472.4	5490.7	5505.4	5490.7	5395.5
42.5°	5822.1	5864.2	5900.8	5955.7	5930.1	5895.3	5921.0	5937.4	5906.3	5803.8
45°	6259.7	6299.9	6347.5	6429.9	6411.6	6375.0	6411.6	6415.3	6362.2	6241.4
47.5°	6711.9	6754.0	6825.4	6935.3	6927.9	6887.6	6935.3	6909.6	6841.9	6697.2
50°	7140.3	7198.9	7308.7	7462.5	7477.2	7427.7	7491.8	7442.4	7328.9	7147.6
52.5°	7543.1	7605.3	7779.3	7988.0	8041.1	7977.0	8063.1	7977.0	7806.7	7574.2
55°	7966.0	8035.6	8242.5	8515.3	8621.5	8573.9	8654.4	8524.4	8282.8	8000.8
57.5°	8464.0	8506.1	8753.3	9077.3	9256.8	9267.7	9304.4	9084.7	8791.7	8471.3
60°	9004.1	9062.7	9331.8	9720.0	10003.8	10095.3	10056.8	9731.0	9390.4	9022.4
62.5°	9696.2	9760.2	10082.5	10547.5	10996.1	11223.1	11073.0	10600.6	10179.5	9738.3
65°	10269.2	10340.6	10922.8	11752.2	12568.8	13024.6	12647.5	11777.8	11019.9	10397.4
67.5°	9853.6	9941.5	10855.1	12378.4	14408.8	15769.1	14478.3	12565.1	11080.3	10236.3
70°	8612.3	8694.7	9760.2	11622.2	14926.9	17907.5	15238.1	11964.6	9795.0	8850.3
72.5°	5717.7	5983.2	7061.6	9295.2	13328.6	16571.0	13460.4	9106.6	6550.8	5704.9
75°	1896.8	2109.1	2845.1	4818.8	8927.2	12393.0	8498.8	4264.0	2253.8	1622.1
77.5°	477.9	551.1	759.8	1378.6	3561.0	7056.1	3205.8	1126.0	613.3	428.4
80°	232.5	256.3	366.2	459.5	891.6	2242.8	836.7	432.1	289.3	223.4
82.5°	128.2	130.0	206.9	260.0	331.4	580.4	344.2	252.7	166.6	135.5
85°	78.7	76.9	109.9	139.1	139.1	206.9	164.8	139.1	95.2	84.2
87.5°	31.1	31.1	40.3	43.9	38.4	53.1	42.1	45.8	36.6	34.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3493.3
3511.6
3539.0
3572.0
3603.1
3634.2
3683.7
3744.1
3813.7
3883.2
3962.0
4070.0
4223.8
4432.5
4696.1
5018.4
5395.5
5811.1
6254.2
6688.1
7144.0
7552.2
7962.4
8427.4
8963.8
9661.4
10294.9
10109.9
8724.0
5520.0
1534.3
382.6
205.1
135.5
87.9
36.6
0.0

OF REPORT)