

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: P953549

Luminaire Tested: **GALN-SB7A-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28566 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

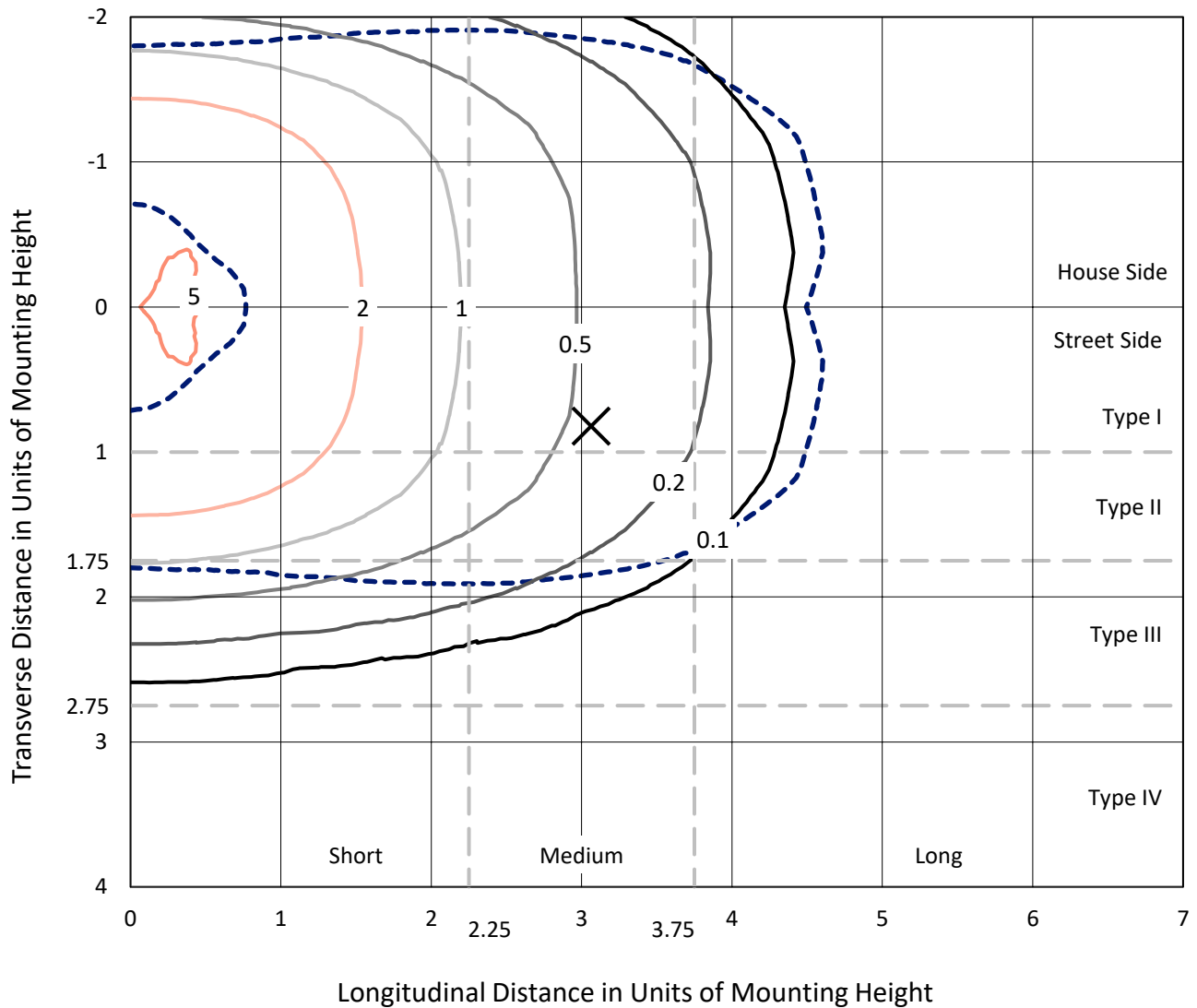
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

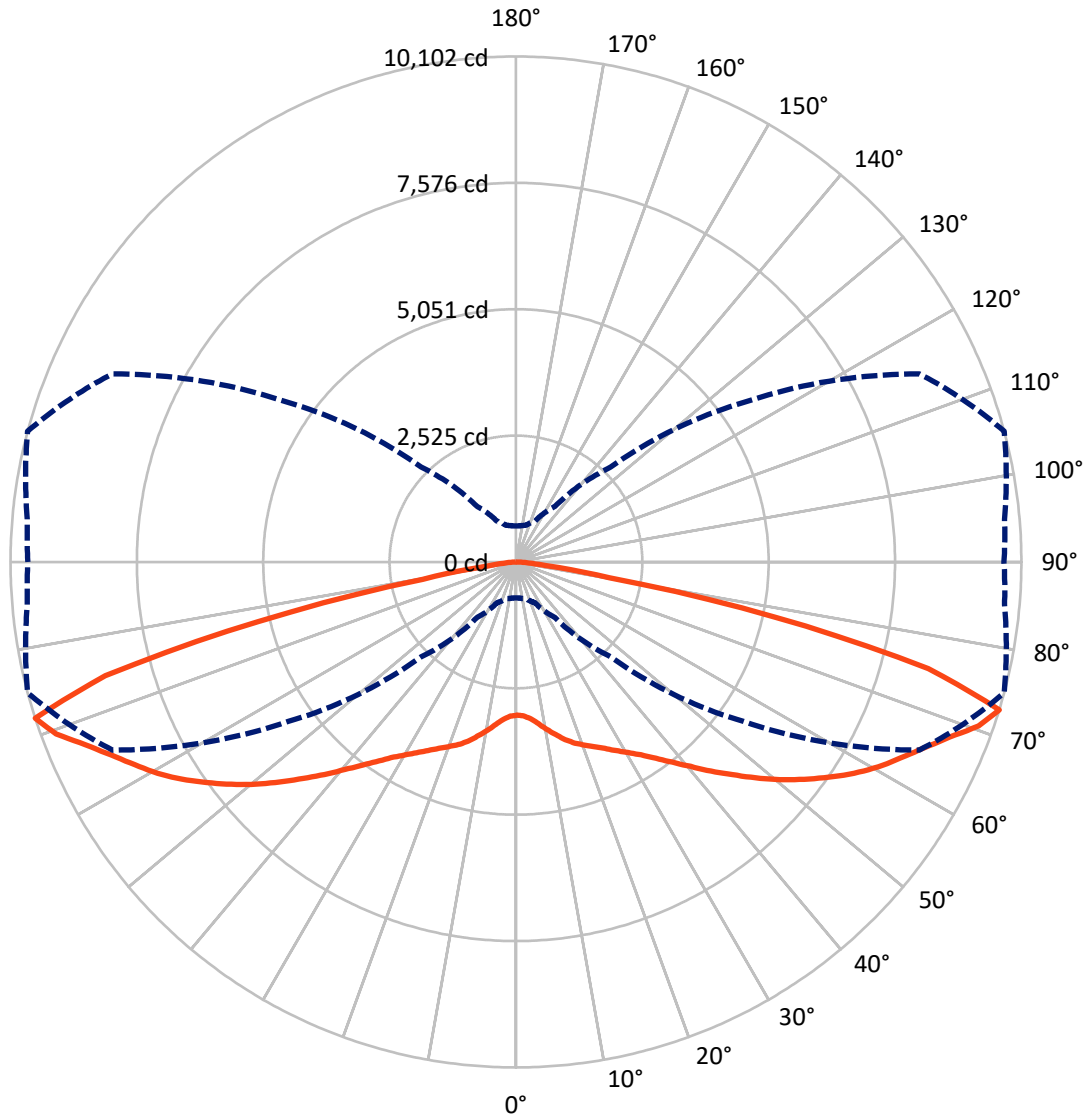
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14283.0	0.0	14283.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14283.0	0.0	14283.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28566.0	0.0	28566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.7	1.0
10°-20°	988.6	3.5
20°-30°	1910.3	6.7
30°-40°	3225.7	11.3
40°-50°	5115.6	17.9
50°-60°	6849.1	24.0
60°-70°	6518.2	22.8
70°-80°	3401.3	11.9
80°-90°	257.5	0.9
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°	28566.0	100.0
0°-180°	28566.0	100.0

Coefficient of Utilization



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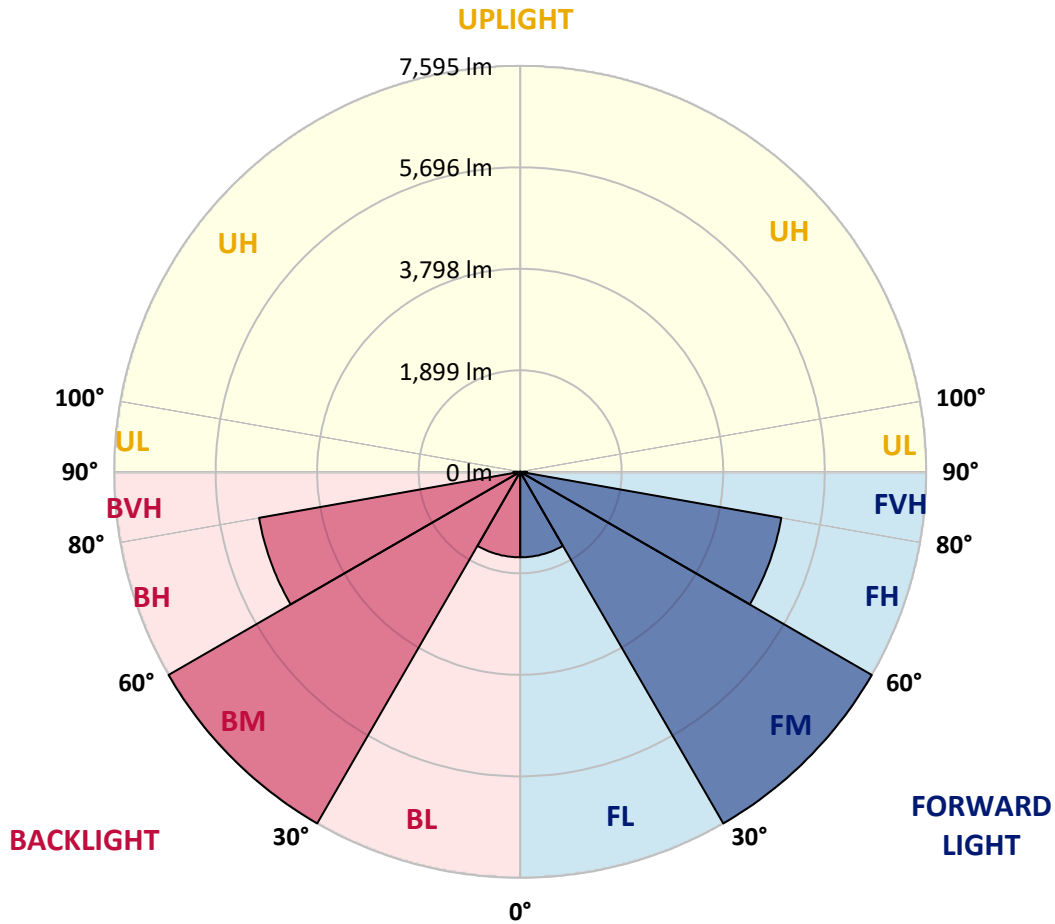
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1599.3	5.6			
FM (30°-60°)	7595.2	26.6			
FH (60°-80°)	4959.7	17.4			G2/5000
FVH (80°-90°)	128.7	0.5			G2/225
BL (0°-30°)	1599.3	5.6	B3/2500		
BM (30°-60°)	7595.2	26.6	B4/8500		
BH (60°-80°)	4959.7	17.4	B4/5000		G4/5000
BVH (80°-90°)	128.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3059.9	3059.9	3059.9	3059.9	3059.9	3059.9	3059.9	3059.9	3059.9	3059.9
2.5°	3059.9	3057.0	3059.9	3062.8	3061.4	3061.4	3068.7	3073.1	3081.8	3080.3
5°	3039.5	3038.1	3049.7	3062.8	3073.1	3090.6	3112.4	3128.5	3148.9	3153.3
7.5°	3029.3	3024.9	3045.3	3068.7	3100.8	3144.5	3186.8	3230.6	3265.6	3277.2
10°	3036.6	3038.1	3065.8	3109.5	3160.6	3221.8	3281.6	3356.0	3405.6	3417.3
12.5°	3070.1	3067.2	3113.9	3183.9	3253.9	3331.2	3401.2	3482.9	3536.9	3564.6
15°	3131.4	3125.6	3191.2	3294.7	3396.8	3487.3	3544.2	3621.5	3684.2	3719.2
17.5°	3204.3	3207.2	3293.3	3427.5	3561.7	3663.7	3717.7	3757.1	3805.2	3835.9
20°	3332.7	3338.5	3434.8	3593.7	3746.9	3863.6	3907.3	3892.7	3905.9	3929.2
22.5°	3504.8	3507.7	3615.6	3787.7	3948.2	4076.5	4105.7	4045.9	4009.4	4025.5
25°	3704.6	3723.5	3831.5	4008.0	4172.8	4295.3	4308.4	4218.0	4127.6	4131.9
27.5°	3948.2	3965.7	4075.0	4250.1	4417.8	4524.3	4522.8	4401.7	4269.0	4235.5
30°	4212.1	4231.1	4343.4	4524.3	4680.3	4773.7	4753.2	4608.9	4419.3	4356.5
32.5°	4525.7	4537.4	4651.2	4832.0	4976.4	5050.8	5008.5	4830.5	4594.3	4522.8
35°	4904.9	4922.4	5007.0	5177.7	5304.6	5365.8	5294.3	5084.3	4818.9	4738.7
37.5°	5338.1	5326.4	5422.7	5574.4	5679.4	5717.3	5619.6	5370.2	5075.6	4980.8
40°	5790.2	5784.4	5889.4	6035.3	6092.1	6115.5	5971.1	5698.4	5371.7	5269.6
42.5°	6200.1	6195.7	6337.2	6499.1	6567.6	6541.4	6359.1	6046.9	5714.4	5597.7
45°	6528.2	6522.4	6696.0	6923.5	7057.7	7013.9	6768.9	6432.0	6061.5	5940.5
47.5°	6780.6	6783.5	6970.2	7251.7	7486.5	7502.5	7187.5	6824.3	6443.6	6306.5
50°	6962.9	6971.6	7171.4	7483.6	7804.4	7945.9	7614.8	7226.9	6838.9	6684.3
52.5°	7008.1	7024.1	7264.8	7630.9	8008.6	8278.4	8049.5	7613.4	7213.7	7066.4
55°	6767.4	6799.5	7104.3	7619.2	8134.0	8497.2	8431.6	8005.7	7591.5	7439.8
57.5°	6214.7	6259.9	6615.7	7288.1	8106.3	8647.4	8727.7	8382.0	7969.2	7823.4
60°	5440.2	5494.2	5835.5	6569.1	7715.5	8702.9	8936.2	8748.1	8316.4	8174.9
62.5°	4271.9	4342.0	4750.3	5610.8	6889.9	8444.7	9114.2	9079.2	8628.5	8452.0
65°	2740.5	2814.9	3245.2	4261.7	5788.8	7654.2	9169.6	9401.5	8958.1	8711.6
67.5°	1652.5	1686.0	1899.0	2583.0	4231.1	6462.6	8699.9	9758.8	9343.1	9036.9
70°	1057.4	1076.4	1203.3	1516.8	2391.9	4715.3	7536.1	9825.9	9809.9	9370.9
72.5°	717.6	723.4	757.0	898.4	1353.5	2679.3	5558.3	8895.4	10101.6	9801.1
75°	525.1	557.1	611.1	635.9	768.6	1338.9	3185.4	6249.7	8513.3	8644.5
77.5°	390.9	392.3	466.7	495.9	548.4	713.2	1347.7	3488.7	5285.6	5549.6
80°	331.1	313.6	312.1	399.6	412.8	444.8	602.4	1204.7	1893.1	1147.8
82.5°	275.7	256.7	231.9	312.1	281.5	272.7	261.1	490.1	602.4	296.1
85°	192.5	183.8	175.0	204.2	160.4	137.1	125.4	229.0	253.8	125.4
87.5°	83.1	86.1	87.5	90.4	67.1	48.1	48.1	64.2	64.2	49.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3059.9
3078.9
3153.3
3280.2
3428.9
3576.2
3732.3
3850.4
3946.7
4037.1
4139.2
4245.7
4363.8
4540.3
4750.3
4998.3
5303.1
5626.9
5968.2
6347.4
6731.0
7104.3
7482.1
7856.9
8205.5
8472.4
8742.2
9060.2
9367.9
9754.4
8326.6
4950.1
867.8
252.3
110.8
36.5
0.0

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