

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: P953545

Luminaire Tested: **GALN-SB7A-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953545
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-SB7A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29051 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

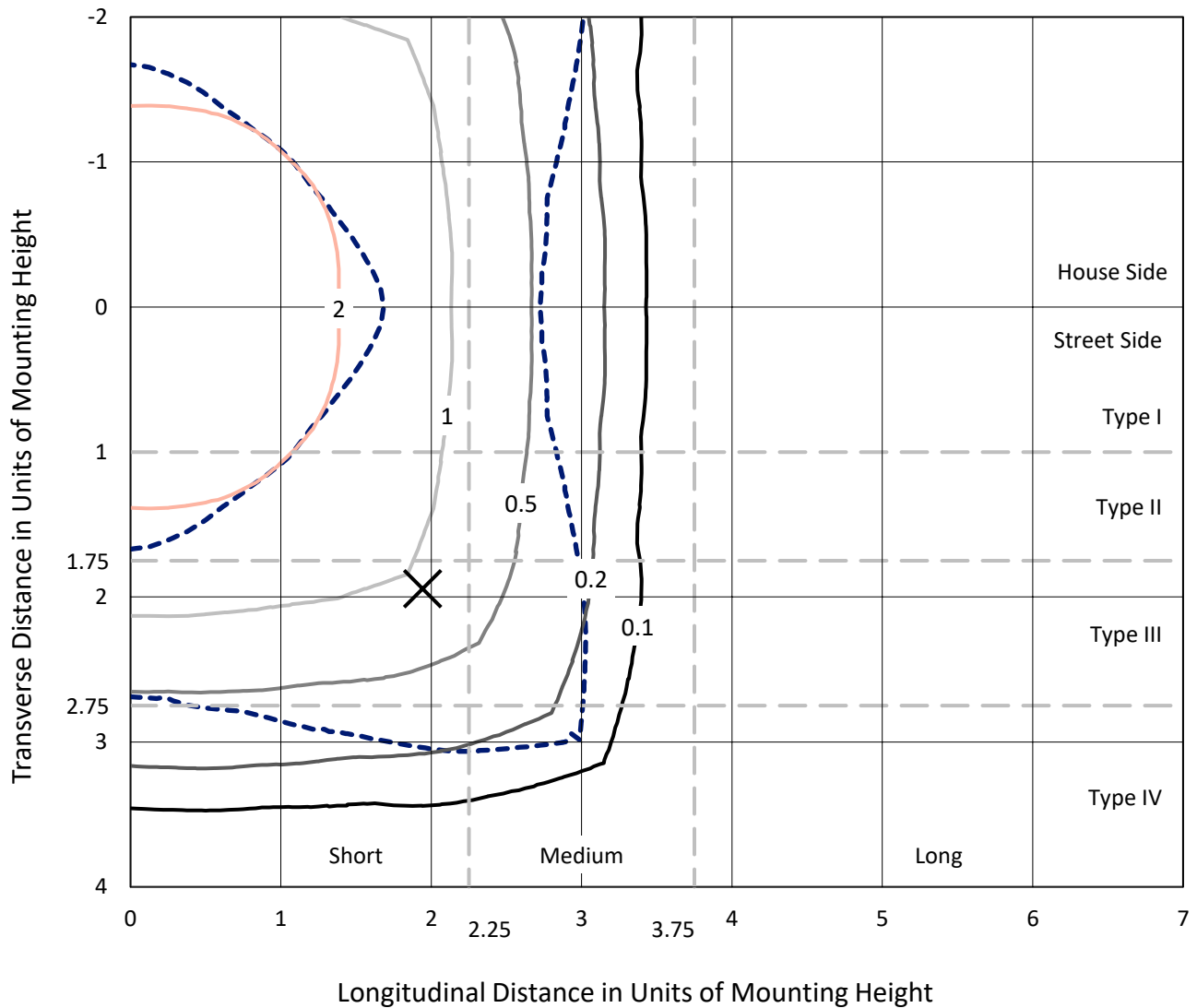
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

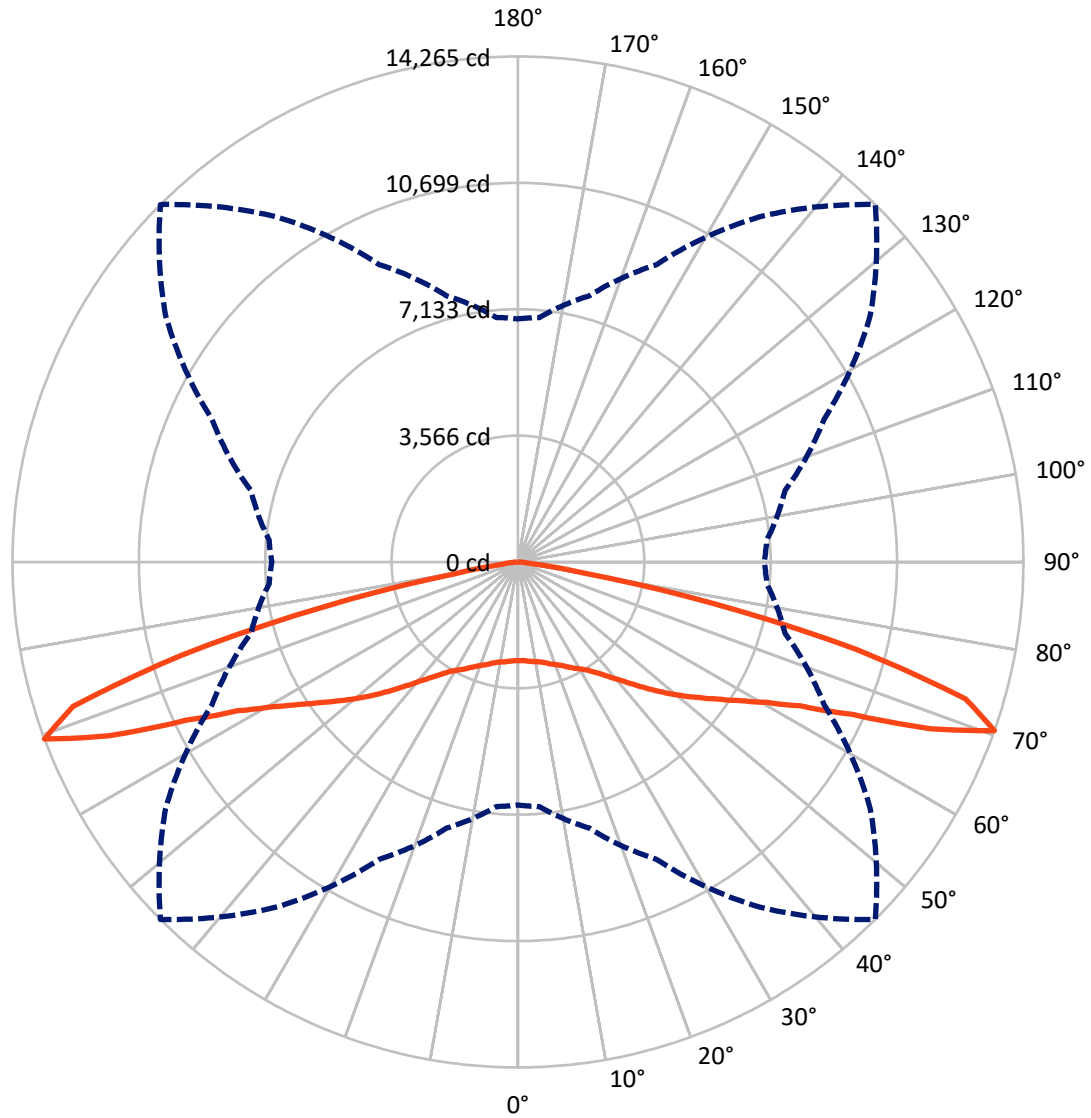
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	14525.5	0.0	14525.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14525.5	0.0	14525.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29051.0	0.0	29051.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	0.9
10°-20°	838.3	2.9
20°-30°	1498.2	5.2
30°-40°	2428.5	8.4
40°-50°	3955.7	13.6
50°-60°	6031.0	20.8
60°-70°	8972.3	30.9
70°-80°	4890.2	16.8
80°-90°	166.5	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°	29051.0	100.0
0°-180°	29051.0	100.0



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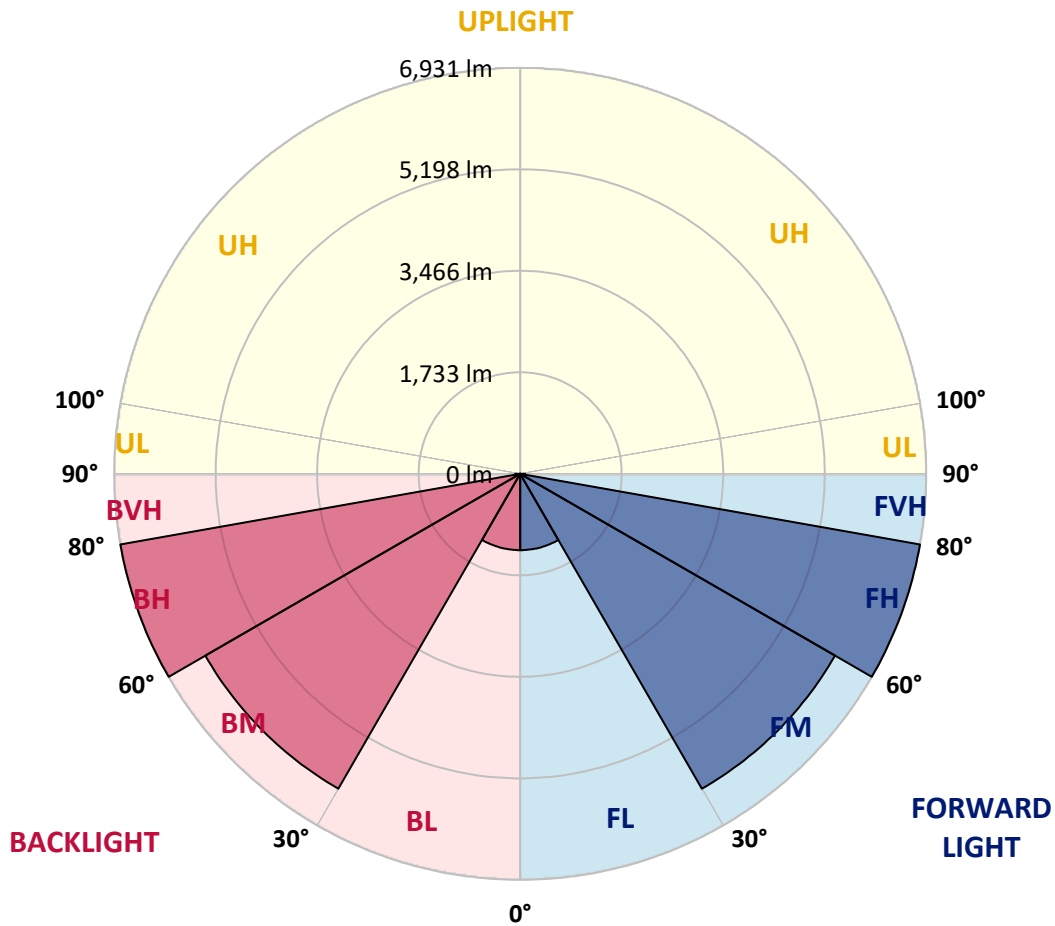
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1303.4	4.5			
FM (30°-60°)	6207.6	21.4			
FH (60°-80°)	6931.2	23.9			G3/7500
FVH (80°-90°)	83.3	0.3			G1/100
BL (0°-30°)	1303.4	4.5	B3/2500		
BM (30°-60°)	6207.6	21.4	B4/8500		
BH (60°-80°)	6931.2	23.9	B5		G3/7500
BVH (80°-90°)	83.3	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8	2782.8
2.5°	2795.9	2798.8	2793.0	2790.1	2787.2	2782.8	2784.2	2791.5	2797.4	2795.9
5°	2819.2	2822.2	2817.8	2816.3	2810.5	2809.0	2809.0	2816.3	2820.7	2817.8
7.5°	2845.5	2849.9	2842.6	2841.1	2838.2	2835.3	2833.8	2841.1	2845.5	2845.5
10°	2870.3	2874.7	2868.8	2864.5	2861.5	2861.5	2858.6	2864.5	2871.8	2870.3
12.5°	2896.5	2899.5	2893.6	2890.7	2890.7	2895.1	2890.7	2893.6	2899.5	2896.5
15°	2928.6	2930.1	2928.6	2933.0	2940.3	2954.9	2941.8	2938.8	2941.8	2934.5
17.5°	2972.4	2975.3	2981.1	2991.3	3001.6	3027.8	3004.5	2997.2	2997.2	2982.6
20°	3026.4	3030.7	3039.5	3057.0	3070.1	3094.9	3071.6	3061.4	3057.0	3038.0
22.5°	3083.2	3090.5	3103.7	3127.0	3150.3	3173.7	3150.3	3132.8	3119.7	3094.9
25°	3148.9	3157.6	3178.0	3216.0	3248.0	3281.6	3253.9	3218.9	3192.6	3157.6
27.5°	3242.2	3252.4	3277.2	3323.9	3364.7	3393.9	3367.6	3322.4	3286.0	3243.7
30°	3373.5	3383.7	3412.8	3462.4	3490.1	3509.1	3491.6	3456.6	3412.8	3364.7
32.5°	3542.7	3555.8	3587.9	3634.5	3640.4	3643.3	3637.5	3620.0	3587.9	3529.5
35°	3757.1	3771.6	3808.1	3846.0	3840.2	3846.0	3837.3	3831.4	3808.1	3741.0
37.5°	4019.6	4037.1	4075.0	4104.2	4089.6	4082.3	4083.8	4085.2	4072.1	3997.7
40°	4324.4	4347.7	4375.4	4406.1	4381.3	4359.4	4374.0	4385.7	4374.0	4298.1
42.5°	4638.0	4671.5	4700.7	4744.4	4724.0	4696.3	4716.7	4729.9	4705.1	4623.4
45°	4986.6	5018.6	5056.6	5122.2	5107.6	5078.4	5107.6	5110.5	5068.2	4972.0
47.5°	5346.8	5380.3	5437.2	5524.7	5518.9	5486.8	5524.7	5504.3	5450.4	5335.1
50°	5688.1	5734.8	5822.3	5944.8	5956.4	5917.1	5968.1	5928.7	5838.3	5693.9
52.5°	6008.9	6058.5	6197.1	6363.4	6405.7	6354.6	6423.2	6354.6	6219.0	6033.7
55°	6345.9	6401.3	6566.1	6783.4	6868.0	6830.1	6894.2	6790.7	6598.2	6373.6
57.5°	6742.6	6776.1	6973.0	7231.2	7374.1	7382.8	7412.0	7237.0	7003.6	6748.4
60°	7172.8	7219.5	7433.9	7743.1	7969.1	8042.1	8011.4	7751.8	7480.6	7187.4
62.5°	7724.1	7775.2	8031.9	8402.3	8759.6	8940.5	8820.9	8444.6	8109.2	7757.7
65°	8180.6	8237.5	8701.3	9362.0	10012.5	10375.6	10075.2	9382.4	8778.6	8282.7
67.5°	7849.6	7919.6	8647.3	9860.8	11478.3	12561.9	11533.7	10009.6	8826.7	8154.4
70°	6860.7	6926.3	7775.2	9258.4	11891.0	14265.4	12139.0	9531.2	7802.9	7050.3
72.5°	4554.8	4766.3	5625.4	7404.7	10617.8	13200.7	10722.8	7254.5	5218.5	4544.6
75°	1511.0	1680.2	2266.5	3838.7	7111.6	9872.5	6770.3	3396.8	1795.4	1292.2
77.5°	380.7	439.0	605.3	1098.2	2836.7	5621.0	2553.8	897.0	488.6	341.3
80°	185.2	204.2	291.7	366.1	710.3	1786.6	666.5	344.2	230.4	177.9
82.5°	102.1	103.6	164.8	207.1	264.0	462.3	274.2	201.3	132.7	107.9
85°	62.7	61.3	87.5	110.8	110.8	164.8	131.3	110.8	75.8	67.1
87.5°	24.8	24.8	32.1	35.0	30.6	42.3	33.5	36.5	29.2	27.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2782.8
2797.4
2819.2
2845.5
2870.3
2895.1
2934.5
2982.6
3038.0
3093.4
3156.2
3242.2
3364.7
3531.0
3741.0
3997.7
4298.1
4629.2
4982.2
5327.8
5691.0
6016.2
6342.9
6713.4
7140.7
7696.4
8201.0
8053.7
6949.7
4397.3
1222.2
304.8
163.4
107.9
70.0
29.2
0.0

OF REPORT)