

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: P954616

Luminaire Tested: **GALN-SB7D-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954616
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-SB7D-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65903 lumens
Efficiency: N/A
Efficacy: 128.5 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

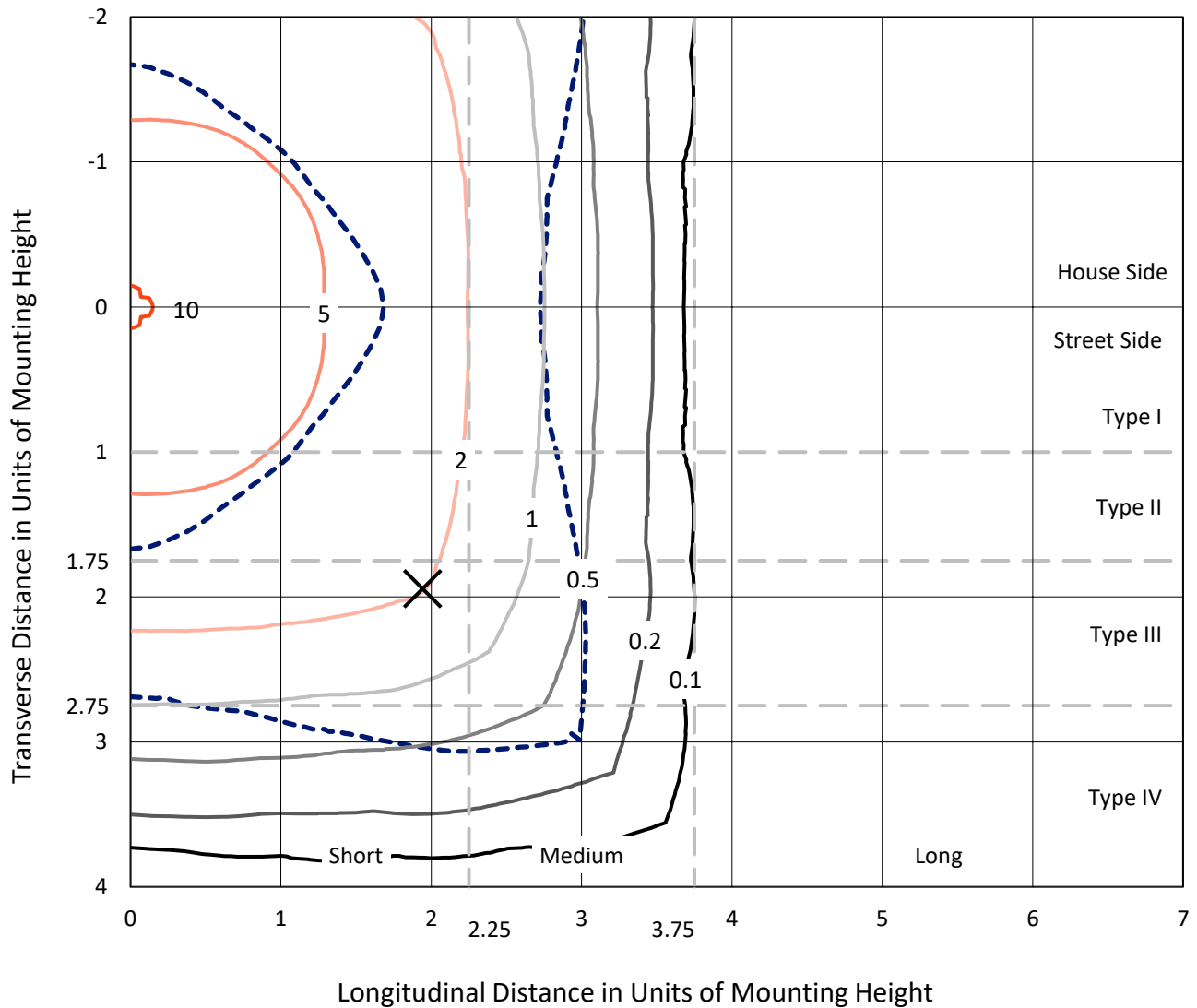
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

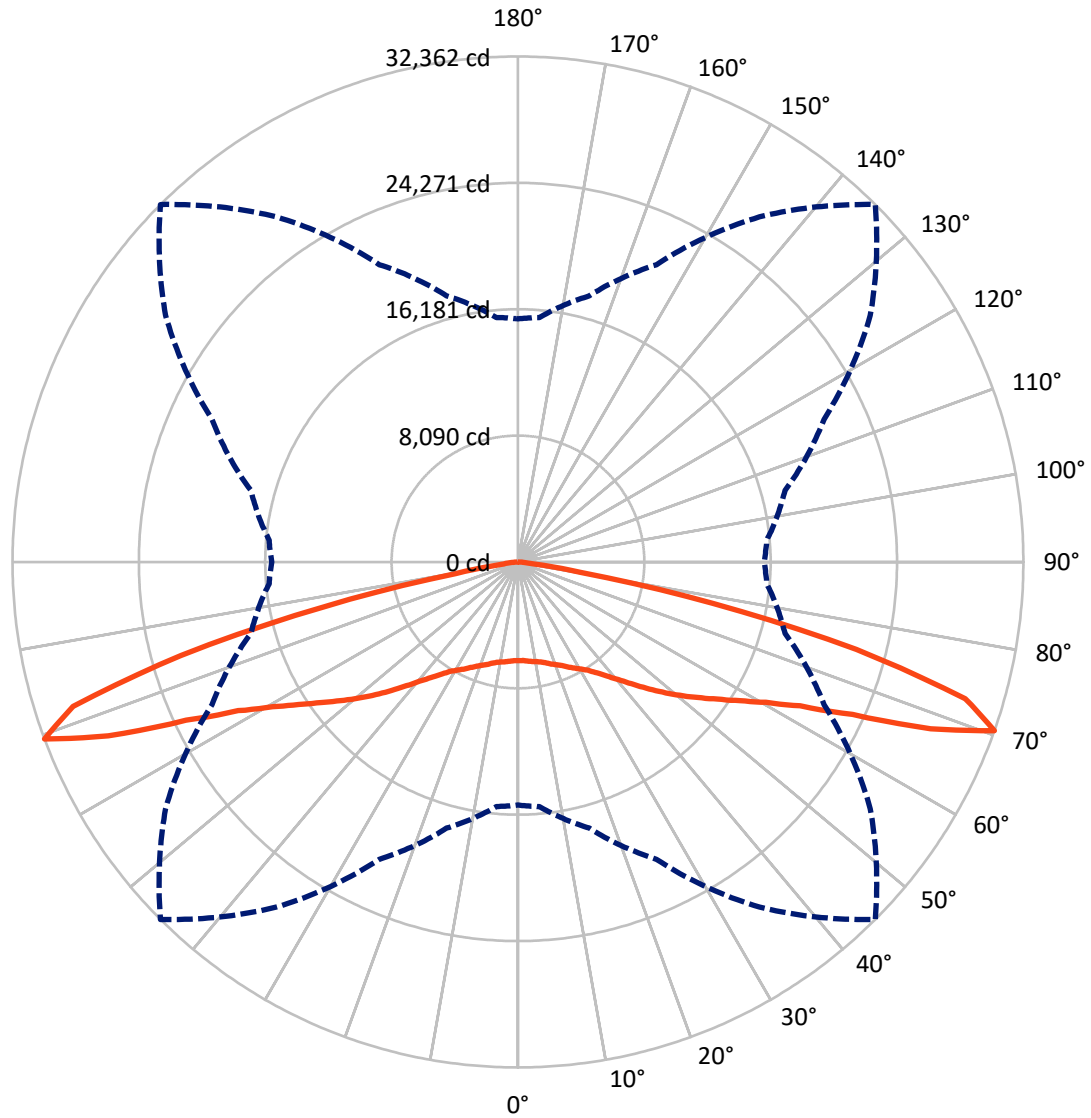
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	32951.5	0.0	32951.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32951.5	0.0	32951.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	65903.0	0.0	65903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.3	0.9
10°-20°	1901.8	2.9
20°-30°	3398.6	5.2
30°-40°	5509.2	8.4
40°-50°	8973.5	13.6
50°-60°	13681.6	20.8
60°-70°	20353.8	30.9
70°-80°	11093.5	16.8
80°-90°	377.8	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°	65903.0	100.0
0°-180°	65903.0	100.0

Coefficient of Utilization



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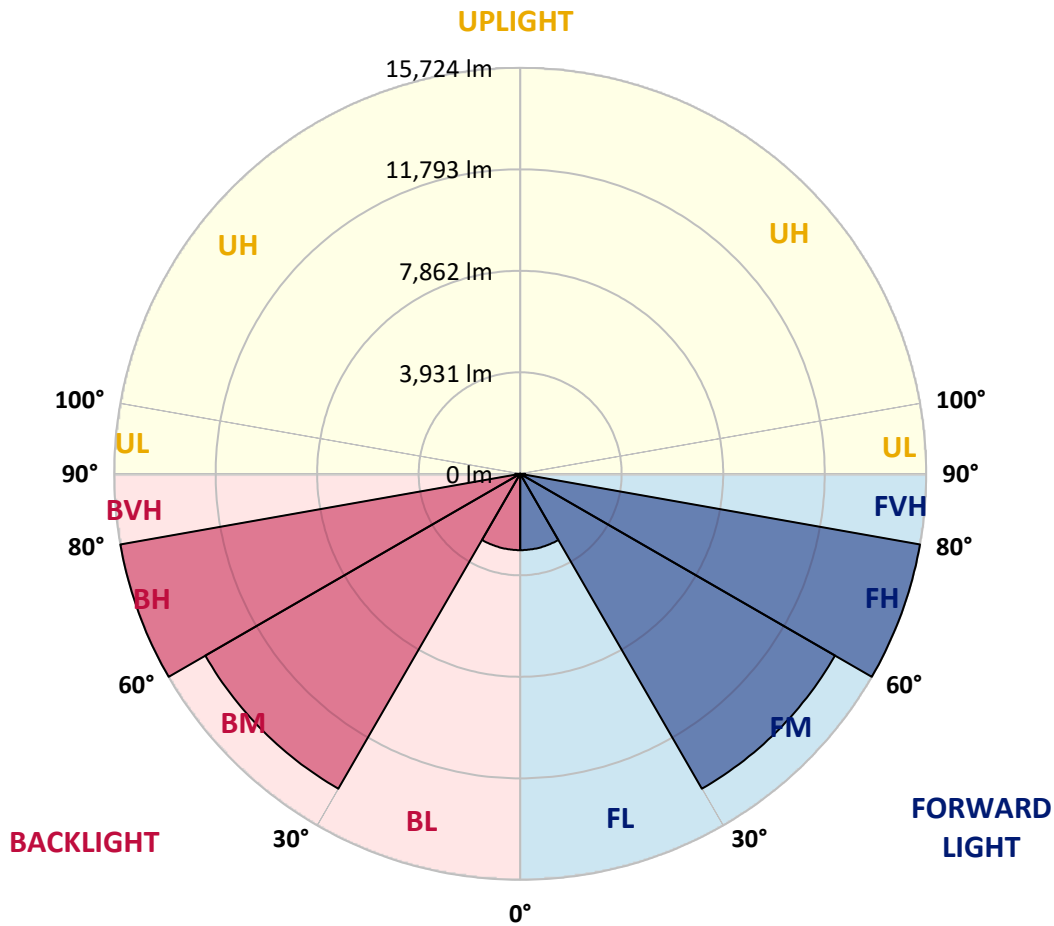
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2956.8	4.5			
FM (30°-60°)	14082.1	21.4			
FH (60°-80°)	15723.7	23.9			G5
FVH (80°-90°)	188.9	0.3			G2/225
BL (0°-30°)	2956.8	4.5	B4/5000		
BM (30°-60°)	14082.1	21.4	B5		
BH (60°-80°)	15723.7	23.9	B5		G5
BVH (80°-90°)	188.9	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°	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8
2.5°	6342.6	6349.2	6336.0	6329.4	6322.8	6312.8	6316.1	6332.7	6345.9	6342.6
5°	6395.5	6402.2	6392.2	6388.9	6375.7	6372.4	6372.4	6388.9	6398.8	6392.2
7.5°	6455.1	6465.0	6448.5	6445.2	6438.6	6431.9	6428.6	6445.2	6455.1	6455.1
10°	6511.3	6521.3	6508.0	6498.1	6491.5	6491.5	6484.9	6498.1	6514.7	6511.3
12.5°	6570.9	6577.5	6564.3	6557.7	6557.7	6567.6	6557.7	6564.3	6577.5	6570.9
15°	6643.7	6647.0	6643.7	6653.6	6670.2	6703.2	6673.5	6666.8	6673.5	6656.9
17.5°	6742.9	6749.6	6762.8	6786.0	6809.1	6868.7	6815.7	6799.2	6799.2	6766.1
20°	6865.4	6875.3	6895.1	6934.8	6964.6	7020.9	6967.9	6944.8	6934.8	6891.8
22.5°	6994.4	7010.9	7040.7	7093.7	7146.6	7199.5	7146.6	7106.9	7077.1	7020.9
25°	7143.3	7163.1	7209.5	7295.5	7368.3	7444.4	7381.5	7302.1	7242.5	7163.1
27.5°	7355.0	7378.2	7434.4	7540.3	7633.0	7699.1	7639.6	7537.0	7454.3	7358.3
30°	7652.8	7676.0	7742.1	7854.6	7917.5	7960.5	7920.8	7841.4	7742.1	7633.0
32.5°	8036.6	8066.4	8139.2	8245.1	8258.3	8264.9	8251.7	8212.0	8139.2	8006.8
35°	8523.0	8556.1	8638.8	8724.8	8711.6	8724.8	8704.9	8691.7	8638.8	8486.6
37.5°	9118.5	9158.2	9244.3	9310.4	9277.3	9260.8	9264.1	9267.4	9237.6	9068.9
40°	9810.0	9863.0	9925.8	9995.3	9939.1	9889.4	9922.5	9949.0	9922.5	9750.5
42.5°	10521.4	10597.5	10663.6	10762.9	10716.6	10653.7	10700.0	10729.8	10673.6	10488.3
45°	11312.1	11384.9	11470.9	11619.8	11586.7	11520.6	11586.7	11593.4	11497.4	11279.0
47.5°	12129.4	12205.5	12334.5	12533.0	12519.8	12447.0	12533.0	12486.7	12364.3	12102.9
50°	12903.6	13009.4	13208.0	13485.9	13512.4	13423.0	13538.8	13449.5	13244.4	12916.8
52.5°	13631.5	13744.0	14058.3	14435.5	14531.4	14415.6	14571.1	14415.6	14107.9	13687.7
55°	14395.8	14521.5	14895.4	15388.3	15580.2	15494.2	15639.8	15404.9	14968.1	14458.6
57.5°	15295.7	15371.8	15818.5	16404.1	16728.3	16748.2	16814.3	16417.3	15887.9	15308.9
60°	16271.7	16377.6	16864.0	17565.4	18078.2	18243.7	18174.2	17585.3	16969.9	16304.8
62.5°	17522.4	17638.2	18220.5	19060.9	19871.5	20281.8	20010.5	19156.8	18395.9	17598.5
65°	18558.0	18687.0	19739.2	21238.0	22713.6	23537.4	22855.9	21284.3	19914.5	18789.6
67.5°	17806.9	17965.7	19616.7	22369.5	26038.8	28497.0	26164.5	22707.0	20023.7	18498.4
70°	15563.7	15712.6	17638.2	21003.0	26975.1	32361.5	27537.5	21621.8	17701.1	15993.8
72.5°	10332.8	10812.5	12761.3	16797.8	24086.7	29946.2	24324.9	16457.0	11838.2	10309.6
75°	3427.7	3811.5	5141.6	8708.3	16132.8	22396.0	15358.6	7705.7	4072.9	2931.4
77.5°	863.5	995.9	1373.1	2491.4	6435.2	12751.4	5793.4	2034.8	1108.4	774.2
80°	420.2	463.2	661.7	830.5	1611.3	4053.0	1512.0	780.8	522.8	403.7
82.5°	231.6	234.9	373.9	469.8	598.9	1048.8	622.0	456.6	301.1	244.8
85°	142.3	139.0	198.5	251.5	251.5	373.9	297.8	251.5	172.0	152.2
87.5°	56.2	56.2	72.8	79.4	69.5	95.9	76.1	82.7	66.2	62.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6312.8
6345.9
6395.5
6455.1
6511.3
6567.6
6656.9
6766.1
6891.8
7017.6
7159.8
7355.0
7633.0
8010.1
8486.6
9068.9
9750.5
10501.5
11302.2
12086.3
12910.2
13648.0
14389.1
15229.5
16198.9
17459.5
18604.3
18270.1
15765.5
9975.5
2772.6
691.5
370.6
244.8
158.8
66.2
0.0

OF REPORT)