

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: P943370

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943370  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
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-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

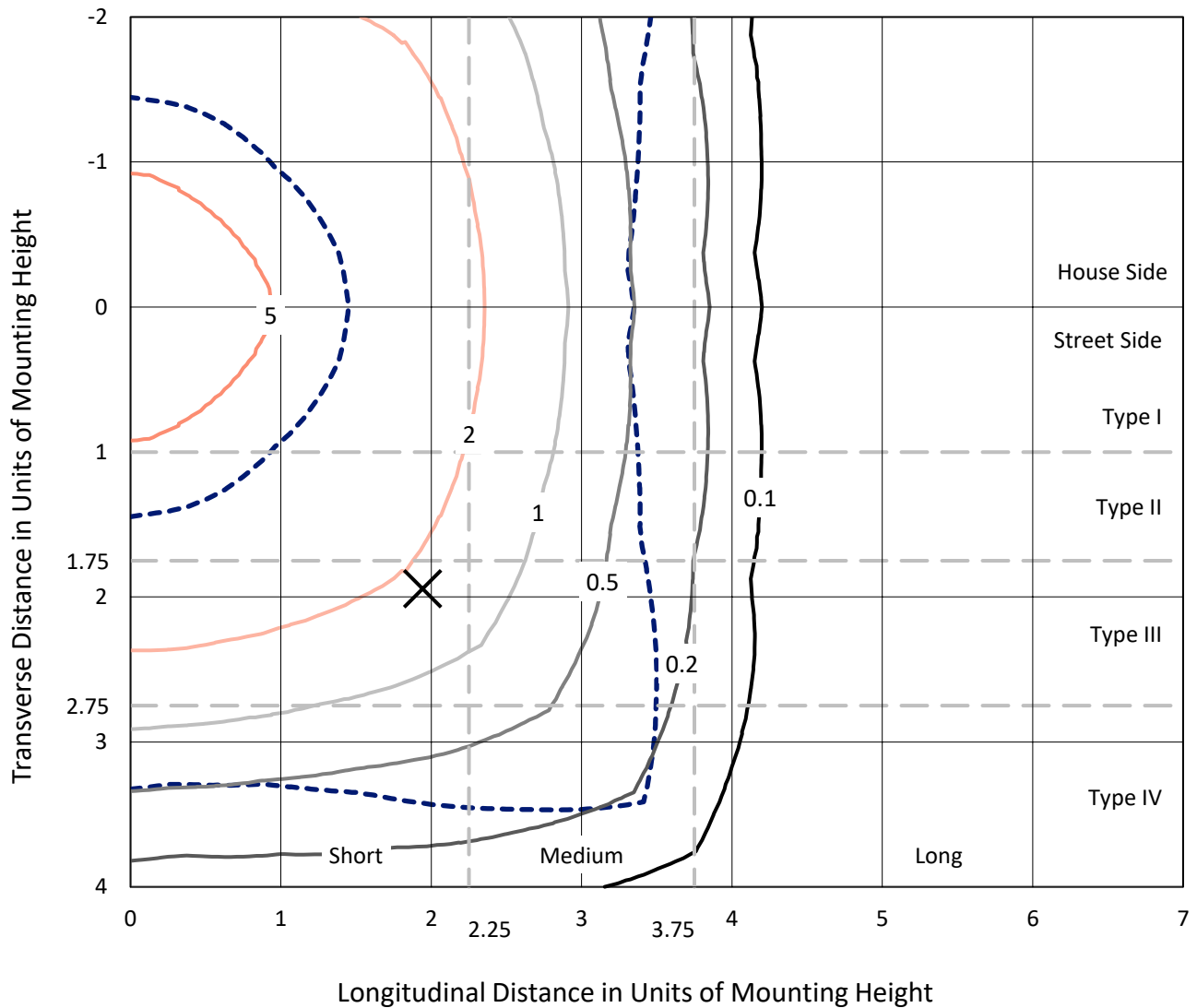
Lumens per Lamp: N/A  
Luminaire Lumens: 63653 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

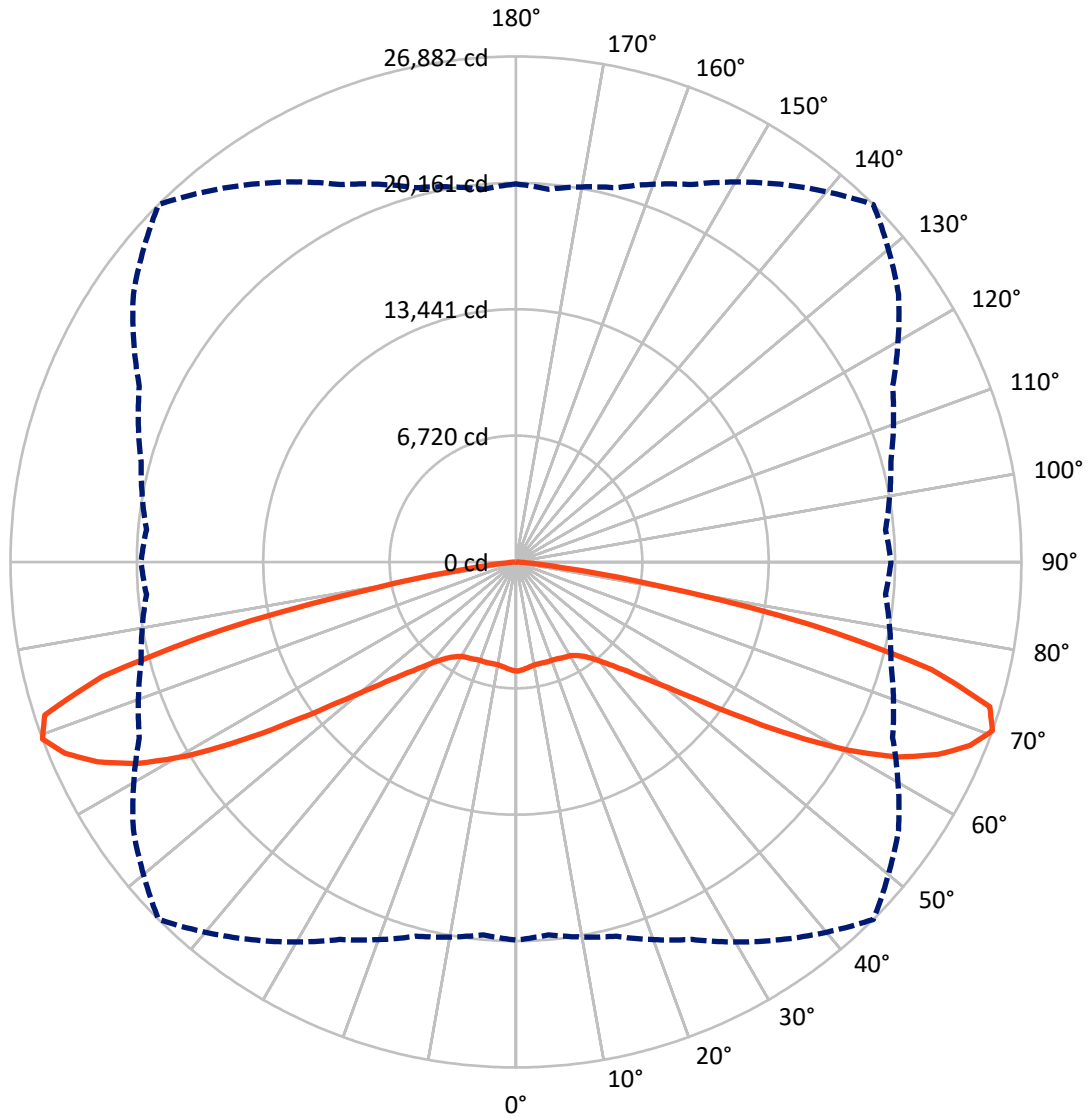
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
<b>House Side</b>	Lumens	31826.5	0.0	31826.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	31826.5	0.0	31826.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	63653.0	0.0	63653.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	540.1	0.8
10°-20°	1586.0	2.5
20°-30°	2639.3	4.1
30°-40°	3991.4	6.3
40°-50°	6632.7	10.4
50°-60°	12515.8	19.7
60°-70°	21133.4	33.2
70°-80°	13886.8	21.8
80°-90°	727.5	1.1
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°	63653.0	100.0
0°-180°	63653.0	100.0

**Coefficient of Utilization**



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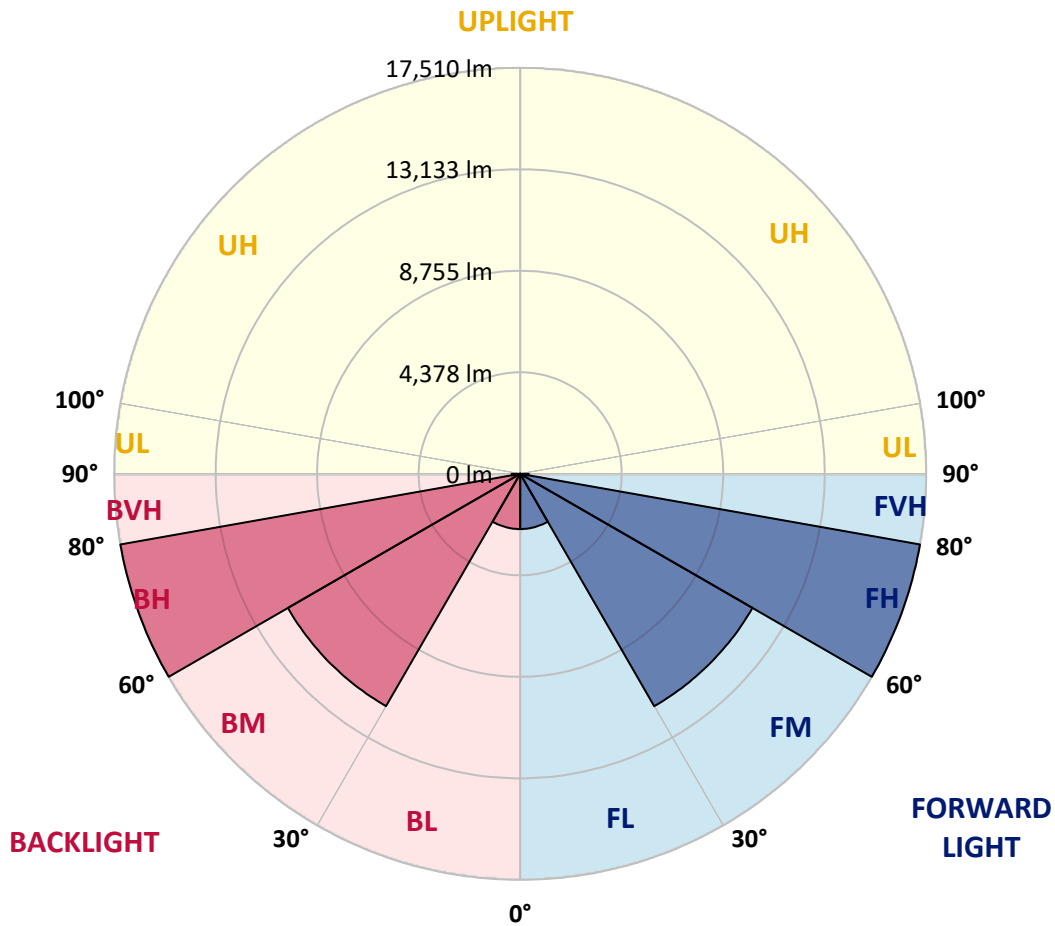
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2382.7	3.7			
FM (30°-60°)	11570.0	18.2			
FH (60°-80°)	17510.1	27.5			G5
FVH (80°-90°)	363.8	0.6			G3/500
BL (0°-30°)	2382.7	3.7	B3/2500		
BM (30°-60°)	11570.0	18.2	B5		
BH (60°-80°)	17510.1	27.5	B5		G5
BVH (80°-90°)	363.8	0.6			G3/500
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°	5806.4	5806.4	5806.4	5806.4	5806.4	5806.4	5806.4	5806.4	5806.4	5806.4
2.5°	5770.0	5786.6	5780.0	5766.7	5766.7	5756.8	5766.7	5773.4	5783.3	5789.9
5°	5693.9	5707.2	5703.9	5693.9	5697.3	5687.3	5693.9	5703.9	5710.5	5713.8
7.5°	5627.8	5641.0	5634.4	5617.9	5617.9	5607.9	5611.2	5621.2	5631.1	5634.4
10°	5611.2	5624.5	5604.6	5578.1	5568.2	5555.0	5558.3	5568.2	5588.1	5598.0
12.5°	5617.9	5627.8	5607.9	5568.2	5558.3	5545.1	5545.1	5555.0	5581.5	5594.7
15°	5637.7	5647.6	5617.9	5574.8	5564.9	5555.0	5551.7	5564.9	5594.7	5617.9
17.5°	5674.1	5684.0	5637.7	5578.1	5564.9	5568.2	5564.9	5574.8	5621.2	5664.2
20°	5707.2	5713.8	5650.9	5578.1	5564.9	5568.2	5564.9	5584.8	5644.3	5703.9
22.5°	5717.1	5723.7	5664.2	5601.3	5591.4	5594.7	5591.4	5611.2	5667.5	5727.0
25°	5720.4	5730.3	5684.0	5634.4	5650.9	5657.6	5650.9	5654.2	5697.3	5750.2
27.5°	5770.0	5783.3	5740.3	5697.3	5707.2	5703.9	5713.8	5723.7	5756.8	5809.7
30°	5872.6	5882.5	5846.1	5803.1	5796.5	5773.4	5803.1	5836.2	5872.6	5918.9
32.5°	6041.3	6061.2	6014.9	5968.6	5938.8	5925.5	5948.7	6004.9	6054.6	6104.2
35°	6322.6	6335.8	6292.8	6206.8	6153.8	6153.8	6173.7	6246.5	6325.9	6388.7
37.5°	6719.6	6736.1	6660.0	6557.5	6478.1	6478.1	6504.5	6580.6	6699.7	6789.1
40°	7202.6	7225.8	7129.8	7024.0	6947.9	6934.6	6967.7	7053.7	7166.2	7278.7
42.5°	7784.9	7811.4	7685.7	7593.0	7533.5	7533.5	7550.0	7629.4	7732.0	7870.9
45°	8529.3	8575.7	8403.6	8311.0	8254.7	8268.0	8277.9	8347.4	8440.0	8598.8
47.5°	9416.0	9462.3	9280.4	9184.4	9174.5	9237.4	9197.7	9247.3	9296.9	9478.9
50°	10421.8	10501.2	10375.5	10368.9	10388.7	10504.5	10411.9	10438.3	10382.1	10497.9
52.5°	11652.6	11768.4	11745.2	11784.9	12006.6	12244.8	12033.1	11940.4	11728.7	11765.1
55°	13144.7	13320.1	13353.1	13591.4	14094.3	14580.6	14130.6	13756.8	13306.8	13224.1
57.5°	14842.0	14980.9	15139.7	15626.1	16565.7	17429.2	16565.7	15738.6	15030.6	14861.8
60°	16668.3	16840.3	16992.5	17710.5	19106.6	20320.9	19080.2	17766.7	16830.4	16602.1
62.5°	18630.2	18851.9	18957.8	19755.1	21382.9	22832.0	21406.1	19814.7	18775.8	18531.0
65°	20512.8	20694.7	20813.8	21664.1	23219.1	24671.6	23325.0	21756.8	20688.1	20367.2
67.5°	21389.5	21488.8	21779.9	22742.7	24383.7	26041.3	24661.6	22845.3	21650.9	21088.4
70°	20105.8	19904.0	20605.4	22147.2	24522.7	26881.6	24840.3	22100.8	20638.5	19725.3
72.5°	15536.8	15189.4	16406.9	19043.8	22934.6	26345.7	23093.4	19192.7	17164.6	15311.8
75°	8453.2	8059.5	9740.3	13075.2	18289.4	22835.3	18709.6	13449.1	10845.3	8390.4
77.5°	2385.4	2236.6	3593.0	6325.9	11000.8	16033.0	11424.3	6464.8	4261.4	2527.7
80°	731.2	708.0	959.5	1905.7	4671.6	7679.1	4489.6	1928.9	1220.8	770.9
82.5°	433.4	397.0	476.4	694.8	1191.1	2411.9	1158.0	724.6	582.3	390.4
85°	248.1	231.6	281.2	337.5	400.3	512.8	334.2	344.1	311.0	208.4
87.5°	102.6	92.6	109.2	105.9	92.6	119.1	89.3	105.9	125.7	82.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5806.4
5786.6
5713.8
5634.4
5598.0
5598.0
5621.2
5664.2
5707.2
5727.0
5746.9
5796.5
5909.0
6084.4
6365.6
6756.0
7242.3
7861.0
8592.2
9425.9
10428.4
11642.6
13095.1
14742.7
16403.6
18332.5
20208.4
21095.1
19943.7
15771.7
8936.3
2808.9
813.9
423.5
218.4
76.1
0.0

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