

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: P956045

Luminaire Tested: **GALN-SB8D-827-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

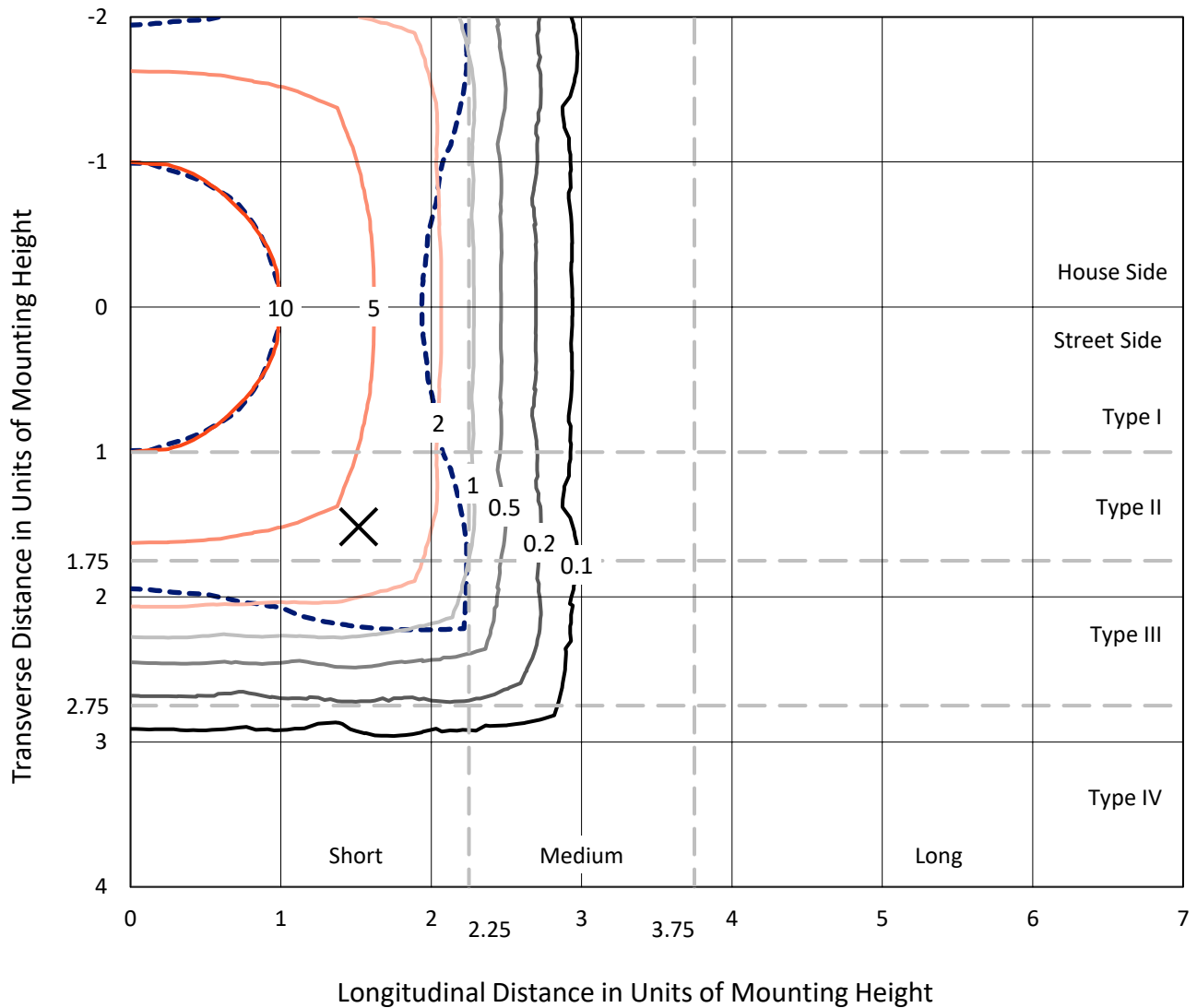
Lumens per Lamp: N/A  
Luminaire Lumens: 74979 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

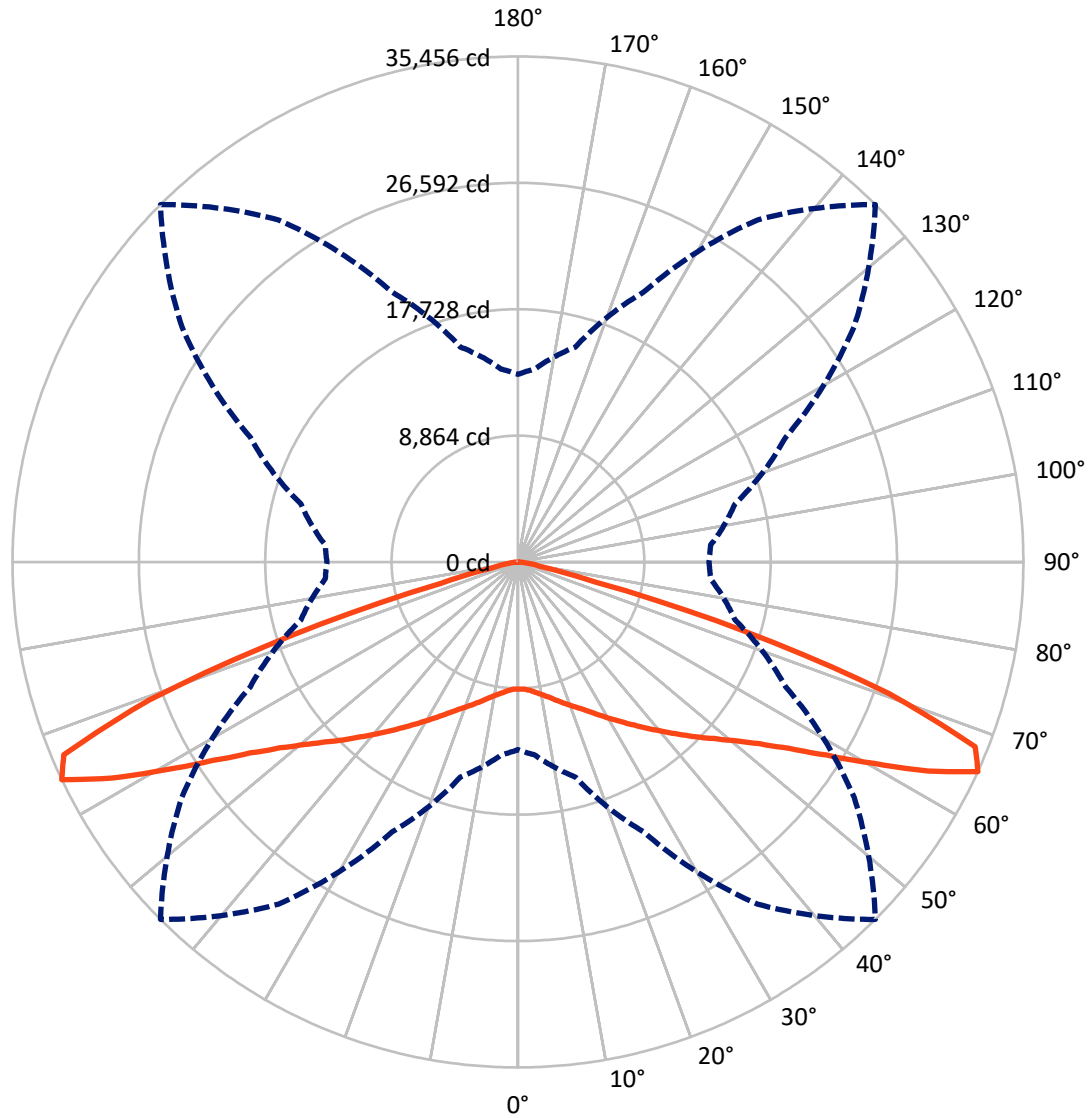
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	37489.5	0.0	37489.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	37489.5	0.0	37489.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	74979.0	0.0	74979.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	880.6	1.2
10°-20°	2873.6	3.8
20°-30°	5425.7	7.2
30°-40°	8884.3	11.8
40°-50°	13775.3	18.4
50°-60°	20348.9	27.1
60°-70°	19370.3	25.8
70°-80°	3125.6	4.2
80°-90°	294.6	0.4
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°	74979.0	100.0
0°-180°	74979.0	100.0

**Coefficient of Utilization**



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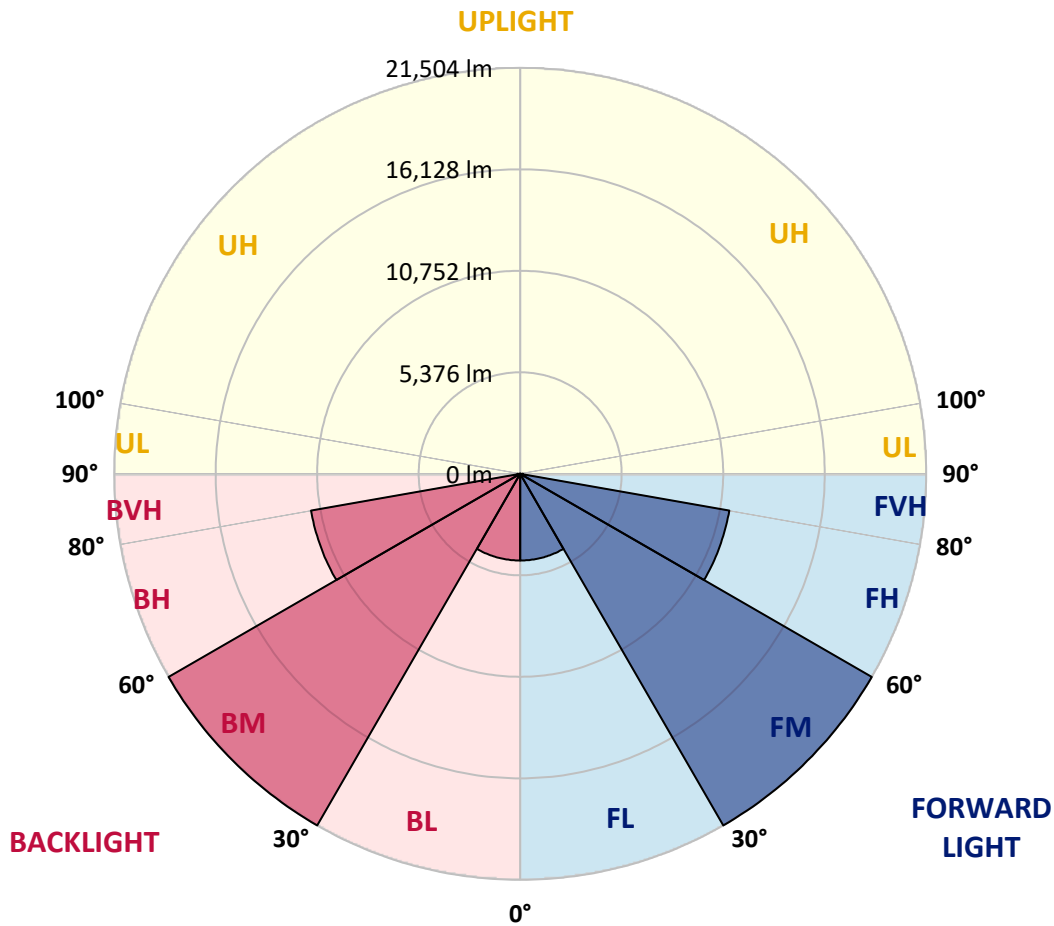
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4589.9	6.1			
FM (30°-60°)	21504.3	28.7			
FH (60°-80°)	11248.0	15.0			G4/12000
FVH (80°-90°)	147.3	0.2			G2/225
BL (0°-30°)	4589.9	6.1	B4/5000		
BM (30°-60°)	21504.3	28.7	B5		
BH (60°-80°)	11248.0	15.0	B5		G4/12000
BVH (80°-90°)	147.3	0.2			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°	8923.3	8923.3	8923.3	8923.3	8923.3	8923.3	8923.3	8923.3	8923.3	8923.3
2.5°	8983.4	8953.3	8975.9	8957.1	8942.1	8927.0	8934.5	8960.9	8972.2	8975.9
5°	9103.8	9077.5	9088.8	9088.8	9062.4	9054.9	9058.7	9077.5	9100.1	9100.1
7.5°	9299.4	9273.1	9299.4	9284.4	9261.8	9254.3	9250.5	9265.6	9299.4	9299.4
10°	9536.4	9506.3	9521.4	9513.9	9487.5	9476.3	9472.5	9495.1	9525.2	9521.4
12.5°	9796.0	9762.2	9781.0	9758.4	9750.9	9739.6	9739.6	9735.8	9754.6	9739.6
15°	10085.7	10063.1	10070.6	10055.6	10066.9	10059.3	10029.3	10014.2	10021.7	9999.2
17.5°	10428.0	10375.3	10401.7	10394.2	10394.2	10409.2	10360.3	10341.5	10356.5	10334.0
20°	10823.0	10770.3	10781.6	10766.6	10747.8	10762.8	10702.6	10717.7	10729.0	10713.9
22.5°	11255.6	11187.9	11184.2	11191.7	11150.3	11154.1	11112.7	11150.3	11172.9	11131.5
25°	11699.5	11628.1	11677.0	11658.2	11605.5	11616.8	11586.7	11624.3	11643.1	11590.4
27.5°	12169.8	12120.9	12166.0	12177.3	12113.4	12158.5	12113.4	12147.2	12166.0	12087.0
30°	12719.0	12670.1	12711.5	12741.6	12666.4	12737.8	12700.2	12722.8	12726.5	12632.5
32.5°	13317.2	13241.9	13347.3	13362.3	13279.5	13366.1	13317.2	13347.3	13366.1	13238.2
35°	14047.0	13952.9	14073.3	14054.5	13983.0	14054.5	14009.4	14054.5	14099.6	13945.4
37.5°	14833.2	14735.4	14863.3	14829.4	14761.7	14810.6	14784.3	14814.4	14885.9	14720.4
40°	15698.5	15578.1	15751.1	15690.9	15627.0	15619.5	15634.5	15653.3	15747.4	15563.0
42.5°	16623.9	16496.0	16755.5	16661.5	16571.2	16511.0	16559.9	16597.5	16687.8	16480.9
45°	17681.0	17534.3	17872.8	17760.0	17617.0	17492.9	17571.9	17628.3	17760.0	17511.7
47.5°	18847.2	18681.6	19042.8	19008.9	18775.7	18504.8	18685.4	18847.2	18945.0	18644.0
50°	19987.0	19859.1	20333.1	20374.5	20088.6	19708.6	19960.7	20205.2	20231.6	19836.6
52.5°	21055.4	20927.5	21615.9	21875.5	21619.7	21168.3	21435.4	21683.7	21484.3	20972.6
55°	21909.4	21804.0	22680.6	23350.2	23436.7	23064.3	23222.3	23214.7	22560.2	21773.9
57.5°	22116.3	22101.2	23207.2	24625.5	25528.3	25573.5	25261.2	24463.7	23053.0	21995.9
60°	21175.8	21269.8	22789.7	25291.3	27698.9	28699.6	27349.1	25073.1	22492.5	21025.3
62.5°	18361.9	18610.2	20442.2	24478.7	29452.0	32296.0	29023.1	24147.7	20190.2	18275.4
65°	13159.2	13591.8	15615.7	20889.9	29294.0	35456.0	28782.4	20720.6	15766.2	13557.9
67.5°	5970.2	6410.3	8129.5	14302.8	25464.4	34598.3	25404.2	14453.3	8535.8	6432.9
70°	2163.1	2238.3	2791.3	5725.6	16274.0	27567.3	16970.0	5767.0	2968.1	2385.1
72.5°	1309.1	1320.4	1437.0	2050.2	5654.2	16736.7	5894.9	2118.0	1467.1	1301.6
75°	831.4	823.9	1023.2	1252.7	2005.1	5646.6	2102.9	1252.7	1019.5	929.2
77.5°	598.1	617.0	733.6	936.7	1264.0	1914.8	1241.4	895.3	733.6	601.9
80°	447.7	459.0	534.2	729.8	887.8	1192.5	790.0	662.1	553.0	376.2
82.5°	323.5	323.5	349.9	530.4	541.7	643.3	428.9	466.5	364.9	267.1
85°	191.9	188.1	218.2	316.0	282.1	237.0	195.6	285.9	229.5	165.5
87.5°	67.7	71.5	67.7	90.3	75.2	64.0	60.2	79.0	64.0	56.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8923.3
8975.9
9100.1
9288.2
9513.9
9747.1
10002.9
10352.8
10747.8
11172.9
11650.6
12147.2
12688.9
13324.7
14039.4
14821.9
15623.2
16590.0
17639.6
18745.6
19885.5
20987.7
21800.3
21928.2
20852.3
18162.5
13396.2
6338.8
2355.0
1324.2
936.7
613.2
387.5
267.1
161.8
52.7
0.0

OF REPORT)