

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: P944010

Luminaire Tested: **GALN-SB8D-735-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944010  
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-SB8D-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

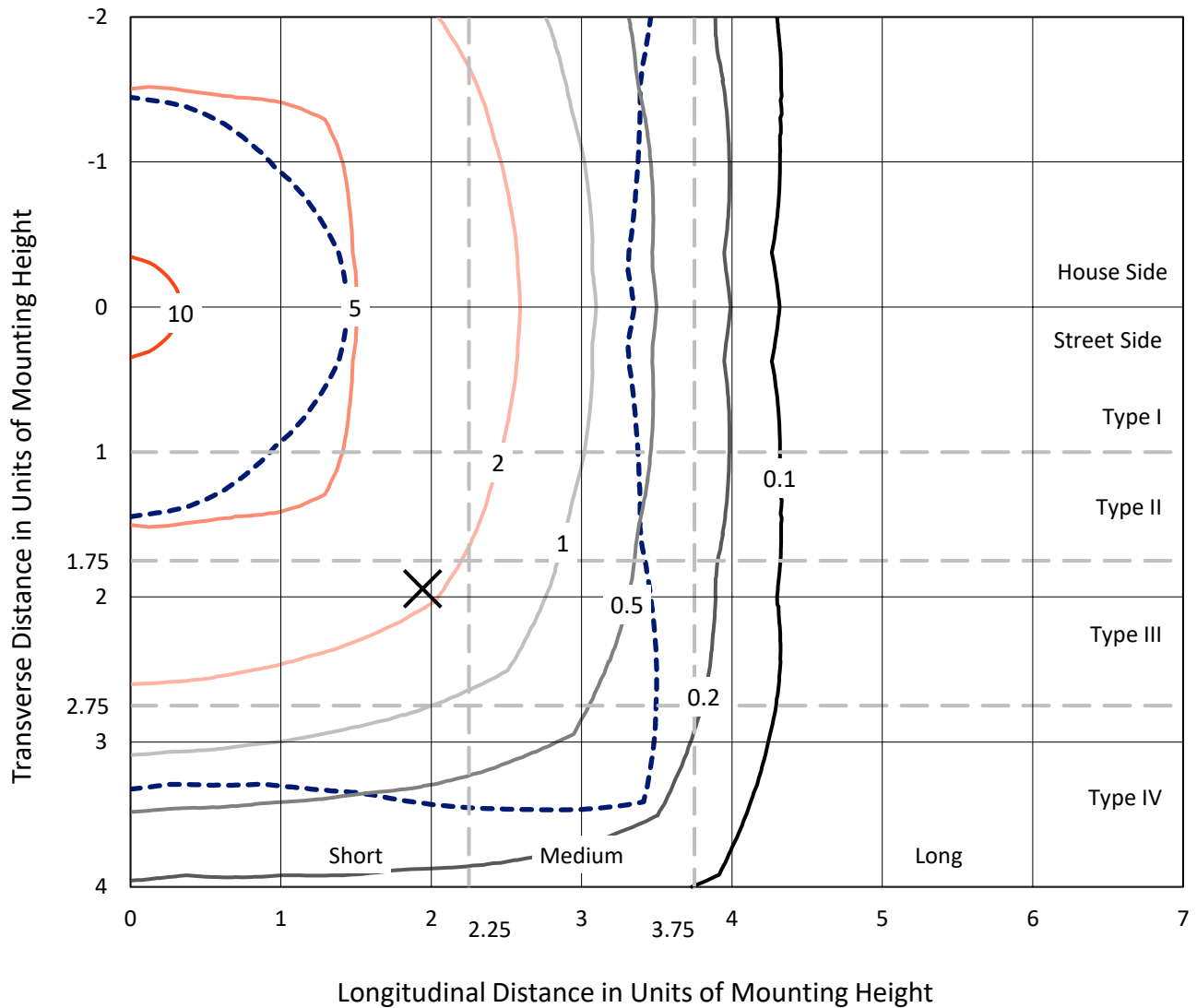
Lumens per Lamp: N/A  
Luminaire Lumens: 83232 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

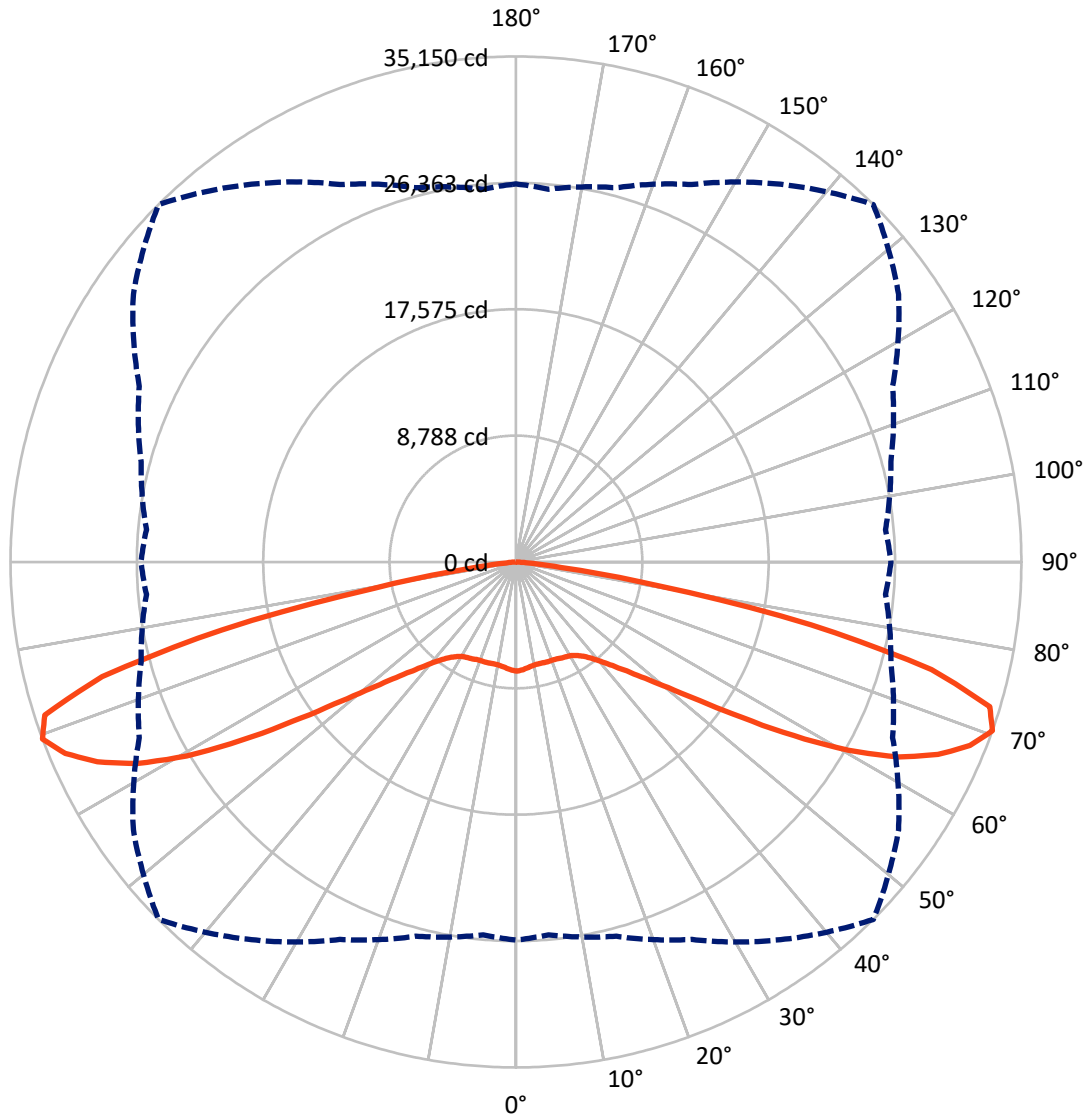
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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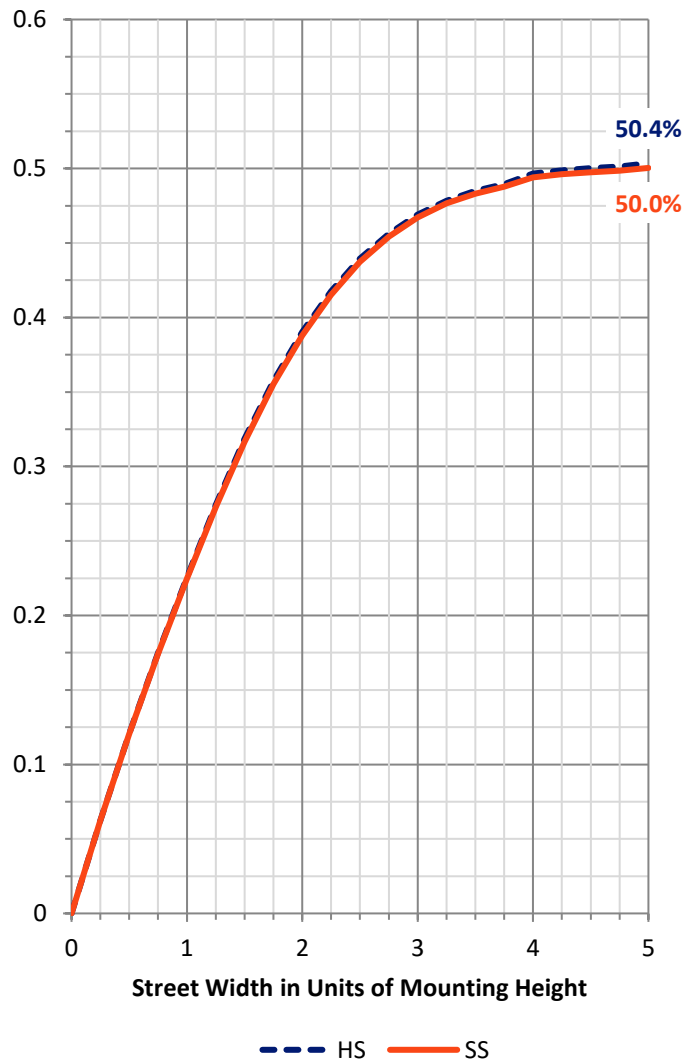
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	41616.0	0.0	41616.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	41616.0	0.0	41616.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	83232.0	0.0	83232.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	706.3	0.8
10°-20°	2073.8	2.5
20°-30°	3451.1	4.1
30°-40°	5219.1	6.3
40°-50°	8672.9	10.4
50°-60°	16365.5	19.7
60°-70°	27633.8	33.2
70°-80°	18158.2	21.8
80°-90°	951.3	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°	83232.0	100.0
0°-180°	83232.0	100.0

**Coefficient of Utilization**



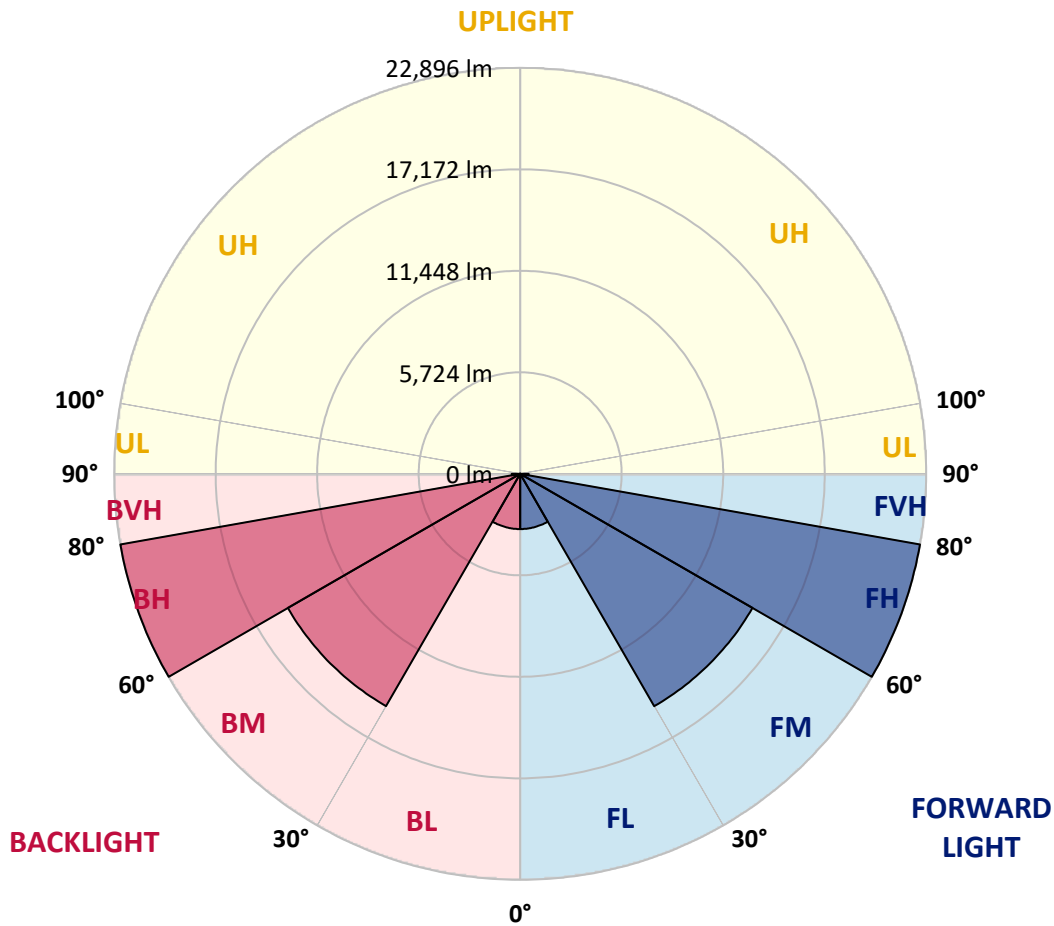
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3115.6	3.7			
FM (30°-60°)	15128.8	18.2			
FH (60°-80°)	22896.0	27.5			G5
FVH (80°-90°)	475.7	0.6			G3/500
BL (0°-30°)	3115.6	3.7	B4/5000		
BM (30°-60°)	15128.8	18.2	B5		
BH (60°-80°)	22896.0	27.5	B5		G5
BVH (80°-90°)	475.7	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°	7592.4	7592.4	7592.4	7592.4	7592.4	7592.4	7592.4	7592.4	7592.4	7592.4
2.5°	7544.8	7566.5	7557.8	7540.5	7540.5	7527.5	7540.5	7549.2	7562.2	7570.8
5°	7445.3	7462.6	7458.3	7445.3	7449.7	7436.7	7445.3	7458.3	7467.0	7471.3
7.5°	7358.8	7376.1	7367.5	7345.8	7345.8	7332.9	7337.2	7350.2	7363.1	7367.5
10°	7337.2	7354.5	7328.5	7293.9	7280.9	7263.6	7268.0	7280.9	7306.9	7319.9
12.5°	7345.8	7358.8	7332.9	7280.9	7268.0	7250.7	7250.7	7263.6	7298.3	7315.6
15°	7371.8	7384.8	7345.8	7289.6	7276.6	7263.6	7259.3	7276.6	7315.6	7345.8
17.5°	7419.4	7432.4	7371.8	7293.9	7276.6	7280.9	7276.6	7289.6	7350.2	7406.4
20°	7462.6	7471.3	7389.1	7293.9	7276.6	7280.9	7276.6	7302.6	7380.5	7458.3
22.5°	7475.6	7484.3	7406.4	7324.2	7311.2	7315.6	7311.2	7337.2	7410.7	7488.6
25°	7480.0	7492.9	7432.4	7367.5	7389.1	7397.8	7389.1	7393.4	7449.7	7518.9
27.5°	7544.8	7562.2	7505.9	7449.7	7462.6	7458.3	7471.3	7484.3	7527.5	7596.8
30°	7679.0	7691.9	7644.3	7588.1	7579.5	7549.2	7588.1	7631.4	7679.0	7739.5
32.5°	7899.6	7925.5	7865.0	7804.4	7765.5	7748.2	7778.5	7852.0	7916.9	7981.8
35°	8267.3	8284.6	8228.4	8115.9	8046.7	8046.7	8072.6	8167.8	8271.6	8353.8
37.5°	8786.5	8808.1	8708.6	8574.5	8470.6	8470.6	8505.3	8604.8	8760.5	8877.3
40°	9418.1	9448.4	9322.9	9184.5	9085.0	9067.7	9110.9	9223.4	9370.5	9517.6
42.5°	10179.5	10214.1	10049.7	9928.6	9850.7	9850.7	9872.3	9976.2	10110.3	10292.0
45°	11152.9	11213.4	10988.5	10867.3	10793.8	10811.1	10824.1	10914.9	11036.1	11243.7
47.5°	12312.3	12372.9	12134.9	12009.5	11996.5	12078.7	12026.8	12091.7	12156.5	12394.5
50°	13627.4	13731.3	13566.9	13558.2	13584.2	13735.6	13614.5	13649.1	13575.5	13726.9
52.5°	15236.8	15388.2	15357.9	15409.8	15699.7	16011.2	15734.3	15613.2	15336.3	15383.9
55°	17187.9	17417.2	17460.4	17771.9	18429.5	19065.4	18477.1	17988.2	17399.9	17291.7
57.5°	19407.2	19588.9	19796.6	20432.5	21661.1	22790.3	21661.1	20579.6	19653.8	19433.2
60°	21795.3	22020.2	22219.2	23158.0	24983.7	26571.4	24949.0	23231.6	22007.2	21708.7
62.5°	24360.7	24650.5	24789.0	25831.6	27960.1	29854.9	27990.3	25909.5	24551.0	24230.9
65°	26822.3	27060.2	27216.0	28327.8	30361.1	32260.3	30499.5	28448.9	27051.6	26631.9
67.5°	27968.7	28098.5	28479.2	29738.1	31883.9	34051.3	32247.3	29872.2	28310.5	27575.0
70°	26290.2	26026.3	26943.4	28959.4	32065.6	35150.2	32480.9	28898.8	26986.7	25792.6
72.5°	20315.7	19861.5	21453.5	24901.5	29989.0	34449.3	30196.7	25096.1	22444.2	20021.5
75°	11053.4	10538.6	12736.3	17097.0	23915.1	29859.2	24464.5	17585.9	14181.2	10971.2
77.5°	3119.2	2924.5	4698.2	8271.6	14384.5	20964.6	14938.3	8453.3	5572.1	3305.2
80°	956.1	925.8	1254.6	2491.9	6108.6	10041.0	5870.6	2522.2	1596.4	1008.0
82.5°	566.7	519.1	623.0	908.5	1557.4	3153.8	1514.2	947.4	761.4	510.5
85°	324.5	302.8	367.7	441.3	523.5	670.6	436.9	449.9	406.7	272.5
87.5°	134.1	121.1	142.8	138.4	121.1	155.7	116.8	138.4	164.4	108.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
7592.4  
7566.5  
7471.3  
7367.5  
7319.9  
7319.9  
7350.2  
7406.4  
7462.6  
7488.6  
7514.6  
7579.5  
7726.5  
7955.8  
8323.6  
8834.0  
9470.0  
10279.0  
11235.1  
12325.3  
13636.1  
15223.8  
17123.0  
19277.4  
21449.2  
23971.3  
26424.3  
27583.7  
*26078.2*  
20622.9  
11685.0  
3672.9  
1064.2  
553.8  
285.5  
99.5  
0.0

OF REPORT)