

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: P944070

Luminaire Tested: **GALN-SB8D-835-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944070  
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-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

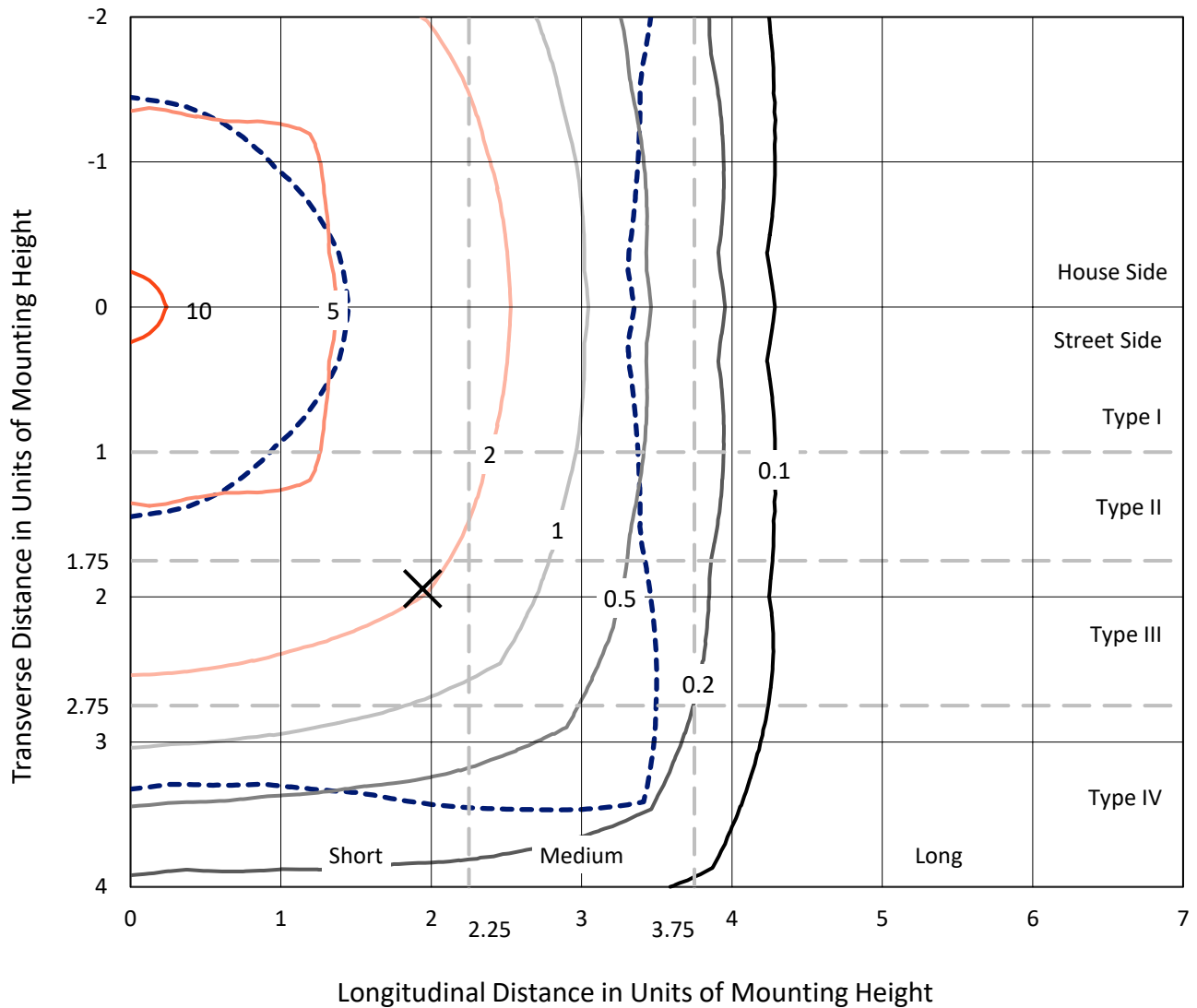
Lumens per Lamp: N/A  
Luminaire Lumens: 77201 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

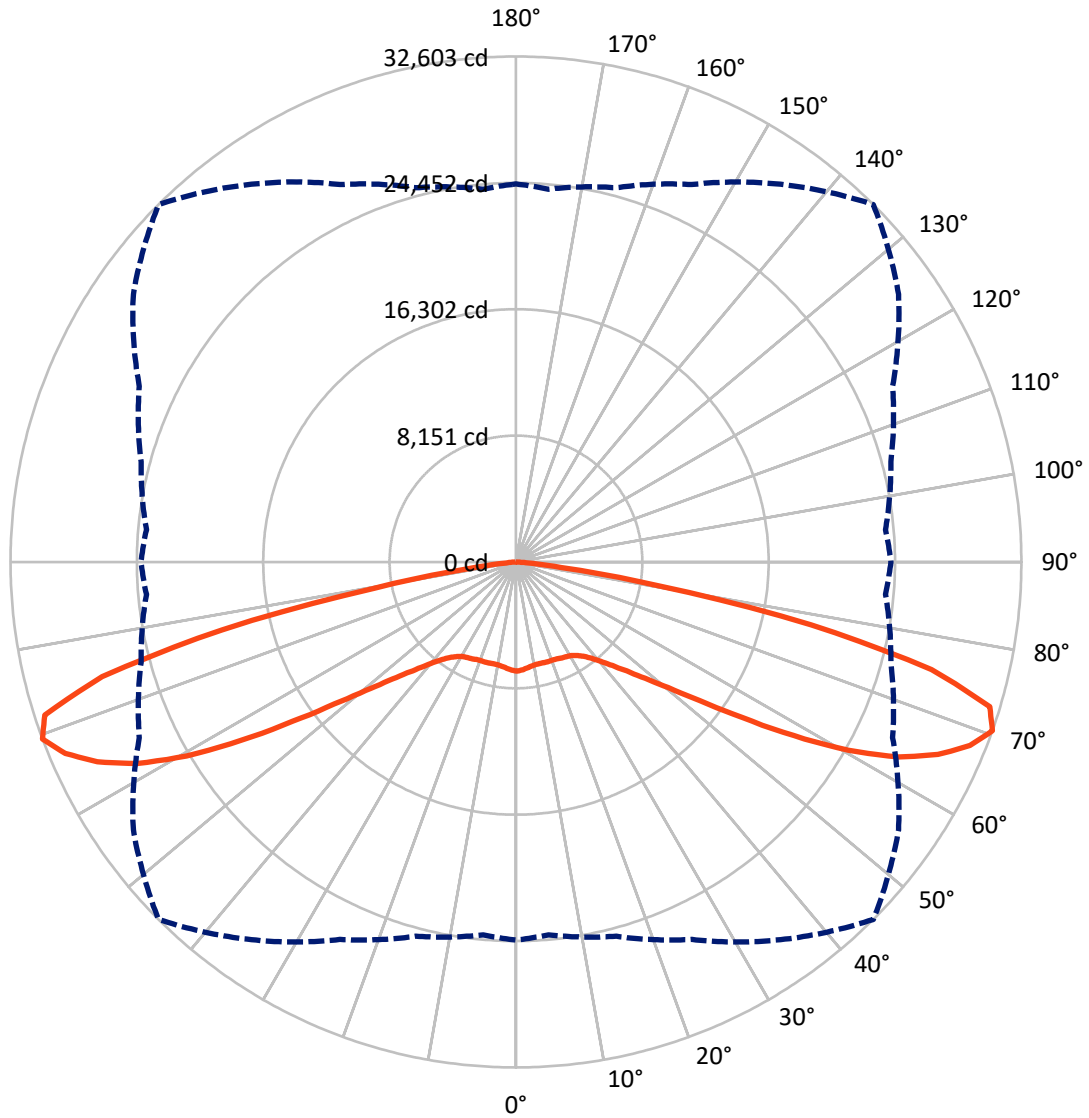
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	38600.5	0.0	38600.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	38600.5	0.0	38600.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	77201.0	0.0	77201.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	655.1	0.8
10°-20°	1923.5	2.5
20°-30°	3201.0	4.1
30°-40°	4840.9	6.3
40°-50°	8044.5	10.4
50°-60°	15179.6	19.7
60°-70°	25631.4	33.2
70°-80°	16842.5	21.8
80°-90°	882.4	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°	77201.0	100.0
0°-180°	77201.0	100.0

**Coefficient of Utilization**



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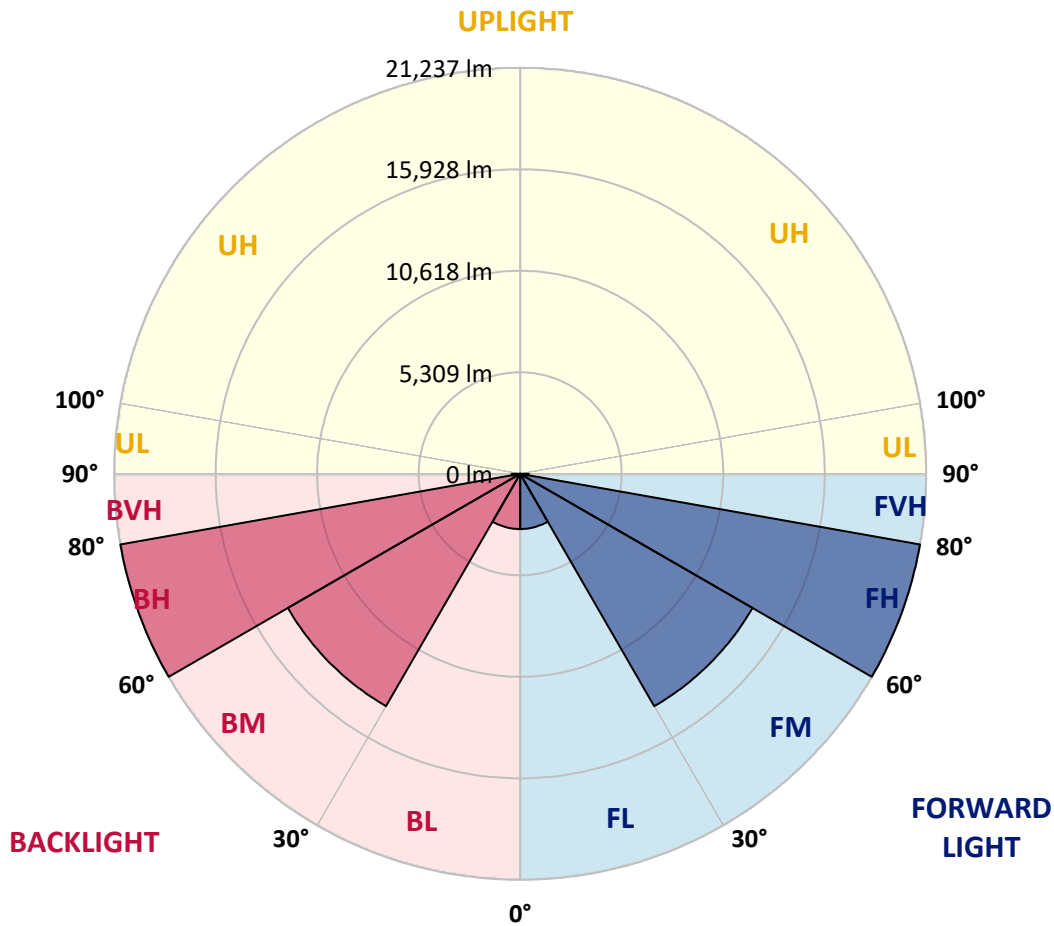
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2889.8	3.7			
FM (30°-60°)	14032.5	18.2			
FH (60°-80°)	21237.0	27.5			G5
FVH (80°-90°)	441.2	0.6			G3/500
BL (0°-30°)	2889.8	3.7	B4/5000		
BM (30°-60°)	14032.5	18.2	B5		
BH (60°-80°)	21237.0	27.5	B5		G5
BVH (80°-90°)	441.2	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°	7042.3	7042.3	7042.3	7042.3	7042.3	7042.3	7042.3	7042.3	7042.3	7042.3
2.5°	6998.1	7018.2	7010.2	6994.1	6994.1	6982.1	6994.1	7002.2	7014.2	7022.2
5°	6905.9	6921.9	6917.9	6905.9	6909.9	6897.8	6905.9	6917.9	6925.9	6929.9
7.5°	6825.6	6841.7	6833.6	6813.6	6813.6	6801.5	6805.5	6817.6	6829.6	6833.6
10°	6805.5	6821.6	6797.5	6765.4	6753.4	6737.3	6741.3	6753.4	6777.4	6789.5
12.5°	6813.6	6825.6	6801.5	6753.4	6741.3	6725.3	6725.3	6737.3	6769.4	6785.5
15°	6837.6	6849.7	6813.6	6761.4	6749.4	6737.3	6733.3	6749.4	6785.5	6813.6
17.5°	6881.8	6893.8	6837.6	6765.4	6749.4	6753.4	6749.4	6761.4	6817.6	6869.7
20°	6921.9	6929.9	6853.7	6765.4	6749.4	6753.4	6749.4	6773.4	6845.7	6917.9
22.5°	6933.9	6942.0	6869.7	6793.5	6781.5	6785.5	6781.5	6805.5	6873.8	6946.0
25°	6938.0	6950.0	6893.8	6833.6	6853.7	6861.7	6853.7	6857.7	6909.9	6974.1
27.5°	6998.1	7014.2	6962.0	6909.9	6921.9	6917.9	6929.9	6942.0	6982.1	7046.3
30°	7122.5	7134.6	7090.4	7038.3	7030.2	7002.2	7038.3	7078.4	7122.5	7178.7
32.5°	7327.2	7351.3	7295.1	7238.9	7202.8	7186.7	7214.8	7283.0	7343.2	7403.4
35°	7668.3	7684.3	7632.2	7527.8	7463.6	7463.6	7487.7	7576.0	7672.3	7748.5
37.5°	8149.8	8169.9	8077.6	7953.2	7856.9	7856.9	7889.0	7981.3	8125.7	8234.1
40°	8735.6	8763.7	8647.4	8519.0	8426.7	8410.6	8450.7	8555.1	8691.5	8827.9
42.5°	9441.9	9474.0	9321.5	9209.1	9136.9	9136.9	9157.0	9253.3	9377.7	9546.2
45°	10344.7	10400.9	10192.3	10079.9	10011.7	10027.7	10039.8	10124.0	10236.4	10429.0
47.5°	11420.1	11476.3	11255.6	11139.3	11127.2	11203.5	11155.3	11215.5	11275.7	11496.4
50°	12640.0	12736.3	12583.8	12575.8	12599.9	12740.3	12628.0	12660.1	12591.8	12732.3
52.5°	14132.7	14273.2	14245.1	14293.2	14562.1	14851.0	14594.2	14481.8	14225.0	14269.2
55°	15942.5	16155.1	16195.3	16484.2	17094.1	17684.0	17138.2	16684.8	16139.1	16038.8
57.5°	18001.0	18169.5	18362.1	18952.0	20091.6	21138.9	20091.6	19088.4	18229.7	18025.0
60°	20216.0	20424.6	20609.2	21480.0	23173.3	24646.0	23141.2	21548.2	20412.6	20135.7
62.5°	22595.5	22864.4	22992.8	23959.8	25934.1	27691.6	25962.2	24032.1	22772.1	22475.1
65°	24878.7	25099.4	25243.9	26275.1	28161.1	29922.7	28289.5	26387.5	25091.4	24702.2
67.5°	25942.1	26062.5	26415.6	27583.3	29573.6	31583.9	29910.7	27707.7	26259.1	25576.9
70°	24385.2	24140.4	24991.1	26861.0	29742.1	32603.2	30127.3	26804.8	25031.2	23923.7
72.5°	18843.6	18422.3	19899.0	23097.1	27816.0	31953.1	28008.6	23277.7	20817.9	18570.8
75°	10252.4	9774.9	11813.4	15858.2	22182.2	27695.6	22691.8	16311.6	13153.6	10176.2
77.5°	2893.2	2712.6	4357.8	7672.3	13342.2	19445.5	13855.8	7840.8	5168.4	3065.7
80°	886.8	858.7	1163.7	2311.3	5665.9	9313.5	5445.2	2339.4	1480.7	935.0
82.5°	525.7	481.5	577.8	842.7	1444.6	2925.3	1404.4	878.8	706.2	473.5
85°	301.0	280.9	341.1	409.3	485.5	622.0	405.3	417.3	377.2	252.8
87.5°	124.4	112.4	132.4	128.4	112.4	144.5	108.3	128.4	152.5	100.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7042.3
7018.2
6929.9
6833.6
6789.5
6789.5
6817.6
6869.7
6921.9
6946.0
6970.1
7030.2
7166.7
7379.4
7720.4
8193.9
8783.8
9534.2
10421.0
11432.2
12648.0
14120.7
15882.3
17880.6
19895.0
22234.4
24509.6
25585.0
24188.5
19128.5
10838.3
3406.8
987.1
513.6
264.8
92.3
0.0

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