

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: P944080

Luminaire Tested: **GALN-SB8D-840-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944080  
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-840-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

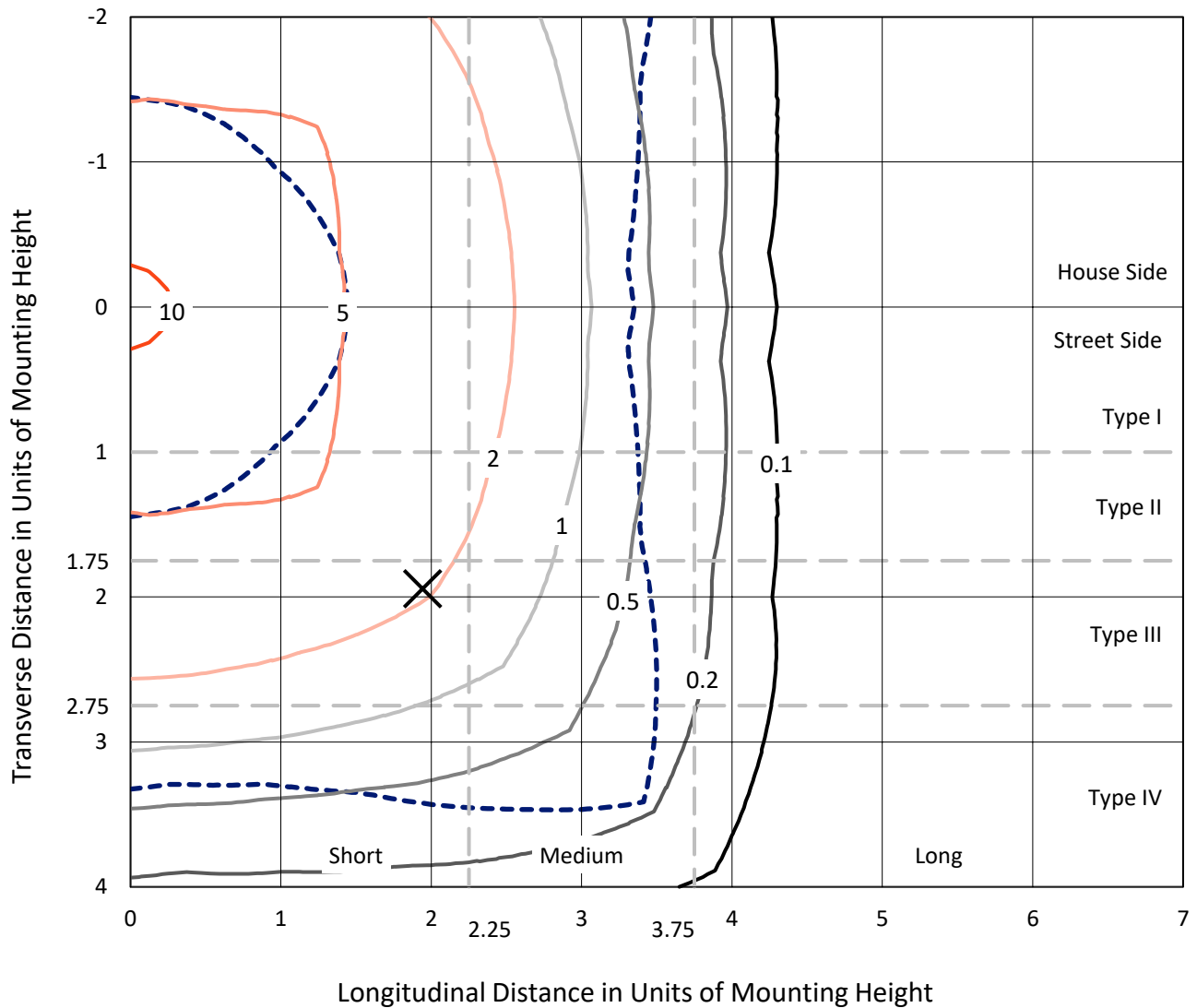
Lumens per Lamp: N/A  
Luminaire Lumens: 79613 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

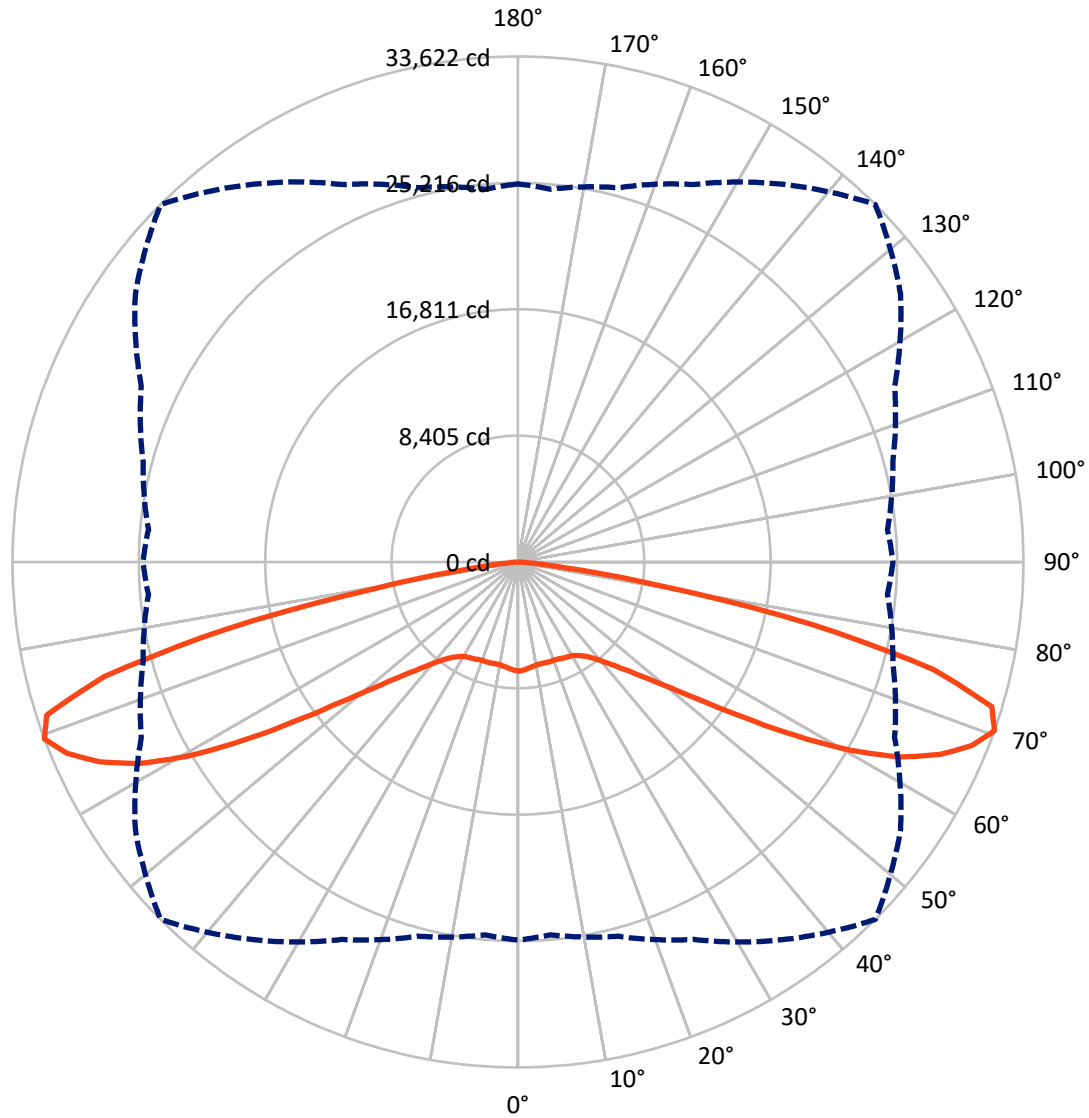
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	39806.5	0.0	39806.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	39806.5	0.0	39806.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	79613.0	0.0	79613.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	675.6	0.8
10°-20°	1983.6	2.5
20°-30°	3301.0	4.1
30°-40°	4992.2	6.3
40°-50°	8295.8	10.4
50°-60°	15653.9	19.7
60°-70°	26432.2	33.2
70°-80°	17368.7	21.8
80°-90°	910.0	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°	79613.0	100.0
0°-180°	79613.0	100.0

**Coefficient of Utilization**



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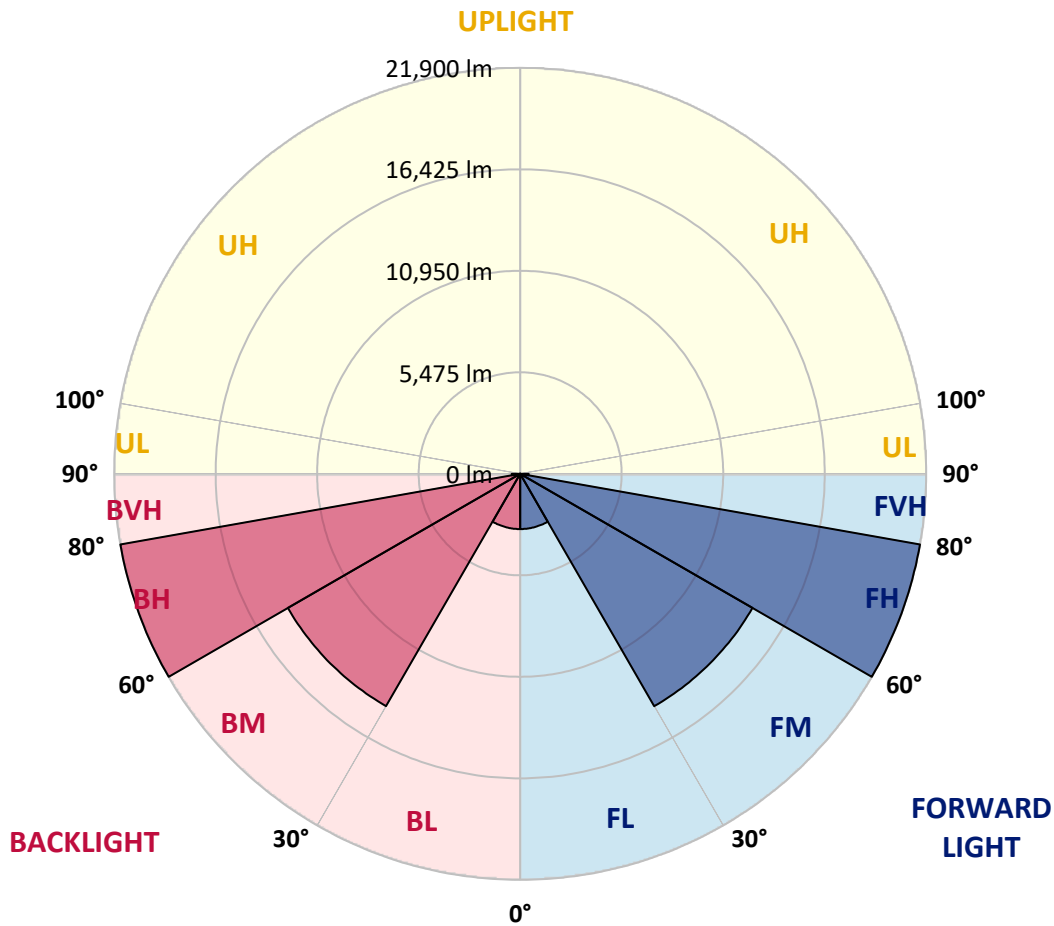
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2980.1	3.7			
FM (30°-60°)	14470.9	18.2			
FH (60°-80°)	21900.5	27.5			G5
FVH (80°-90°)	455.0	0.6			G3/500
BL (0°-30°)	2980.1	3.7	B4/5000		
BM (30°-60°)	14470.9	18.2	B5		
BH (60°-80°)	21900.5	27.5	B5		G5
BVH (80°-90°)	455.0	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°	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3
2.5°	7216.8	7237.5	7229.2	7212.7	7212.7	7200.2	7212.7	7220.9	7233.3	7241.6
5°	7121.6	7138.2	7134.0	7121.6	7125.8	7113.3	7121.6	7134.0	7142.3	7146.4
7.5°	7038.9	7055.4	7047.1	7026.4	7026.4	7014.0	7018.2	7030.6	7043.0	7047.1
10°	7018.2	7034.7	7009.9	6976.8	6964.4	6947.8	6952.0	6964.4	6989.2	7001.6
12.5°	7026.4	7038.9	7014.0	6964.4	6952.0	6935.4	6935.4	6947.8	6980.9	6997.5
15°	7051.3	7063.7	7026.4	6972.6	6960.2	6947.8	6943.7	6960.2	6997.5	7026.4
17.5°	7096.8	7109.2	7051.3	6976.8	6960.2	6964.4	6960.2	6972.6	7030.6	7084.4
20°	7138.2	7146.4	7067.8	6976.8	6960.2	6964.4	6960.2	6985.1	7059.5	7134.0
22.5°	7150.6	7158.9	7084.4	7005.7	6993.3	6997.5	6993.3	7018.2	7088.5	7163.0
25°	7154.7	7167.1	7109.2	7047.1	7067.8	7076.1	7067.8	7072.0	7125.8	7192.0
27.5°	7216.8	7233.3	7179.5	7125.8	7138.2	7134.0	7146.4	7158.9	7200.2	7266.4
30°	7345.1	7357.5	7312.0	7258.2	7249.9	7220.9	7258.2	7299.6	7345.1	7403.0
32.5°	7556.1	7580.9	7523.0	7465.1	7427.8	7411.3	7440.2	7510.6	7572.7	7634.7
35°	7907.8	7924.4	7870.6	7763.0	7696.8	7696.8	7721.6	7812.7	7912.0	7990.6
37.5°	8404.4	8425.1	8329.9	8201.6	8102.3	8102.3	8135.4	8230.6	8379.6	8491.3
40°	9008.6	9037.5	8917.5	8785.1	8689.9	8673.4	8714.8	8822.4	8963.1	9103.7
42.5°	9736.9	9770.0	9612.7	9496.9	9422.4	9422.4	9443.1	9542.4	9670.7	9844.5
45°	10667.9	10725.9	10510.7	10394.8	10324.5	10341.0	10353.4	10440.3	10556.2	10754.8
47.5°	11776.9	11834.9	11607.3	11487.3	11474.9	11553.5	11503.8	11565.9	11628.0	11855.6
50°	13034.9	13134.2	12977.0	12968.7	12993.5	13138.4	13022.5	13055.6	12985.3	13130.1
52.5°	14574.3	14719.1	14690.1	14739.8	15017.0	15315.0	15050.2	14934.3	14669.4	14715.0
55°	16440.5	16659.9	16701.2	16999.2	17628.2	18236.5	17673.7	17206.1	16643.3	16539.9
57.5°	18563.4	18737.2	18935.8	19544.1	20719.3	21799.3	20719.3	19684.8	18799.2	18588.2
60°	20847.6	21062.8	21253.1	22151.1	23897.3	25416.0	23864.2	22221.4	21050.3	20764.8
62.5°	23301.5	23578.7	23711.1	24708.4	26744.3	28556.8	26773.3	24782.9	23483.5	23177.3
65°	25656.0	25883.6	26032.6	27096.1	29041.0	30857.6	29173.4	27211.9	25875.3	25473.9
67.5°	26752.6	26876.7	27240.9	28445.1	30497.6	32570.7	30845.2	28573.4	27079.5	26376.0
70°	25147.0	24894.6	25771.9	27700.2	30671.4	33621.8	31068.6	27642.3	25813.3	24671.2
72.5°	19432.4	18997.9	20520.7	23818.7	28685.1	32951.4	28883.7	24004.9	21468.3	19151.0
75°	10572.8	10080.3	12182.5	16353.6	22875.2	28560.9	23400.8	16821.2	13564.6	10494.1
77.5°	2983.5	2797.3	4493.9	7912.0	13759.1	20053.1	14288.7	8085.8	5329.8	3161.5
80°	914.5	885.5	1200.0	2383.5	5843.0	9604.5	5615.4	2412.5	1526.9	964.2
82.5°	542.1	496.6	595.9	869.0	1489.7	3016.7	1448.3	906.2	728.3	488.3
85°	310.4	289.7	351.7	422.1	500.7	641.4	417.9	430.4	389.0	260.7
87.5°	128.3	115.9	136.6	132.4	115.9	149.0	111.7	132.4	157.2	103.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
7262.3  
7237.5  
7146.4  
7047.1  
7001.6  
7001.6  
7030.6  
7084.4  
7138.2  
7163.0  
7187.8  
7249.9  
7390.6  
7609.9  
7961.6  
8449.9  
9058.2  
9832.0  
10746.6  
11789.4  
13043.2  
14561.9  
16378.5  
18439.2  
20516.5  
22929.0  
25275.3  
26384.3  
24944.3  
19726.2  
11176.9  
3513.2  
1018.0  
529.7  
273.1  
95.2  
0.0

OF REPORT)