

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: P957557

Luminaire Tested: **GALN-SB9D-850-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957557  
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-SB9D-850-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

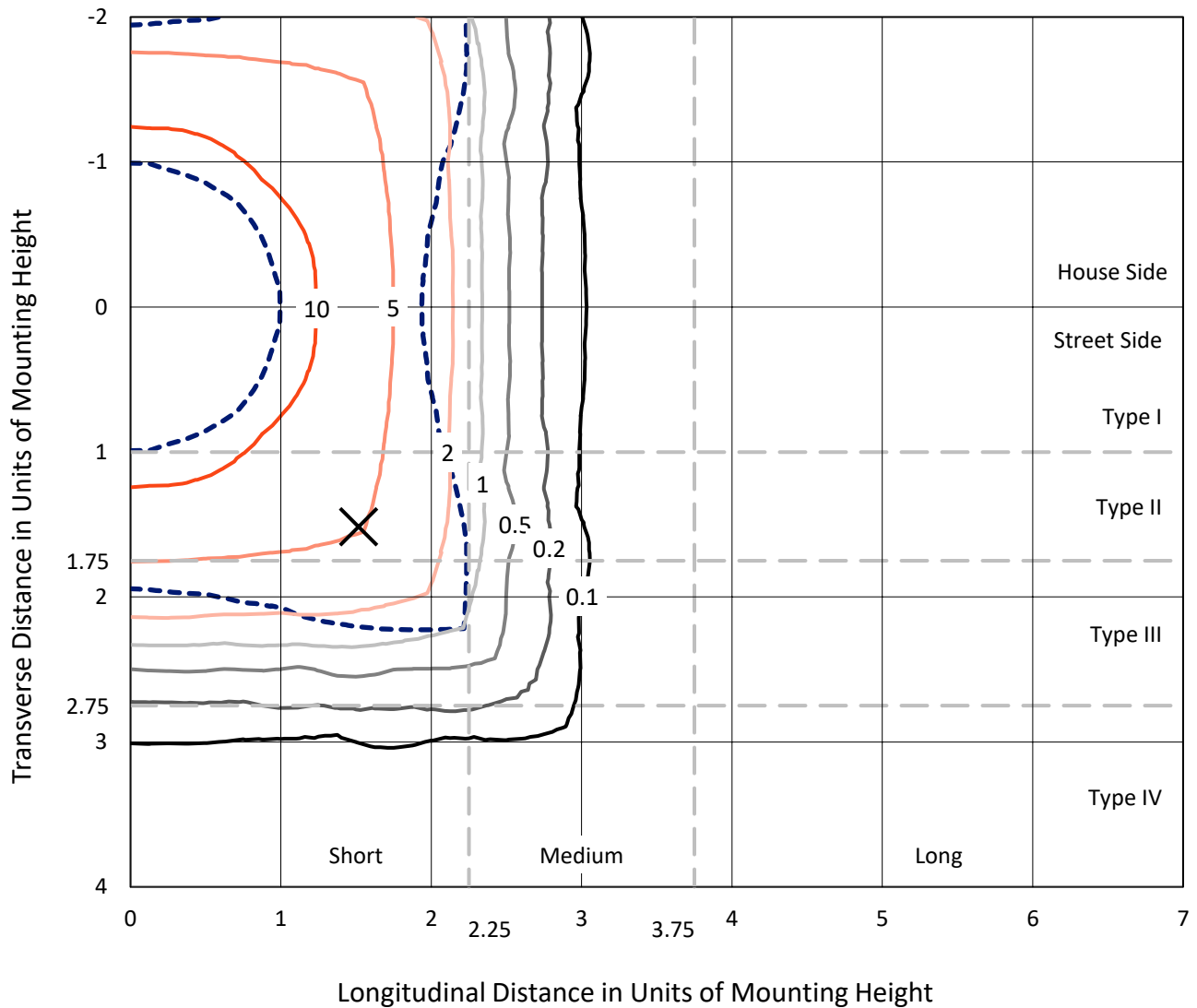
Lumens per Lamp: N/A  
Luminaire Lumens: 92903 lumens  
Efficiency: N/A  
Efficacy: 141.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

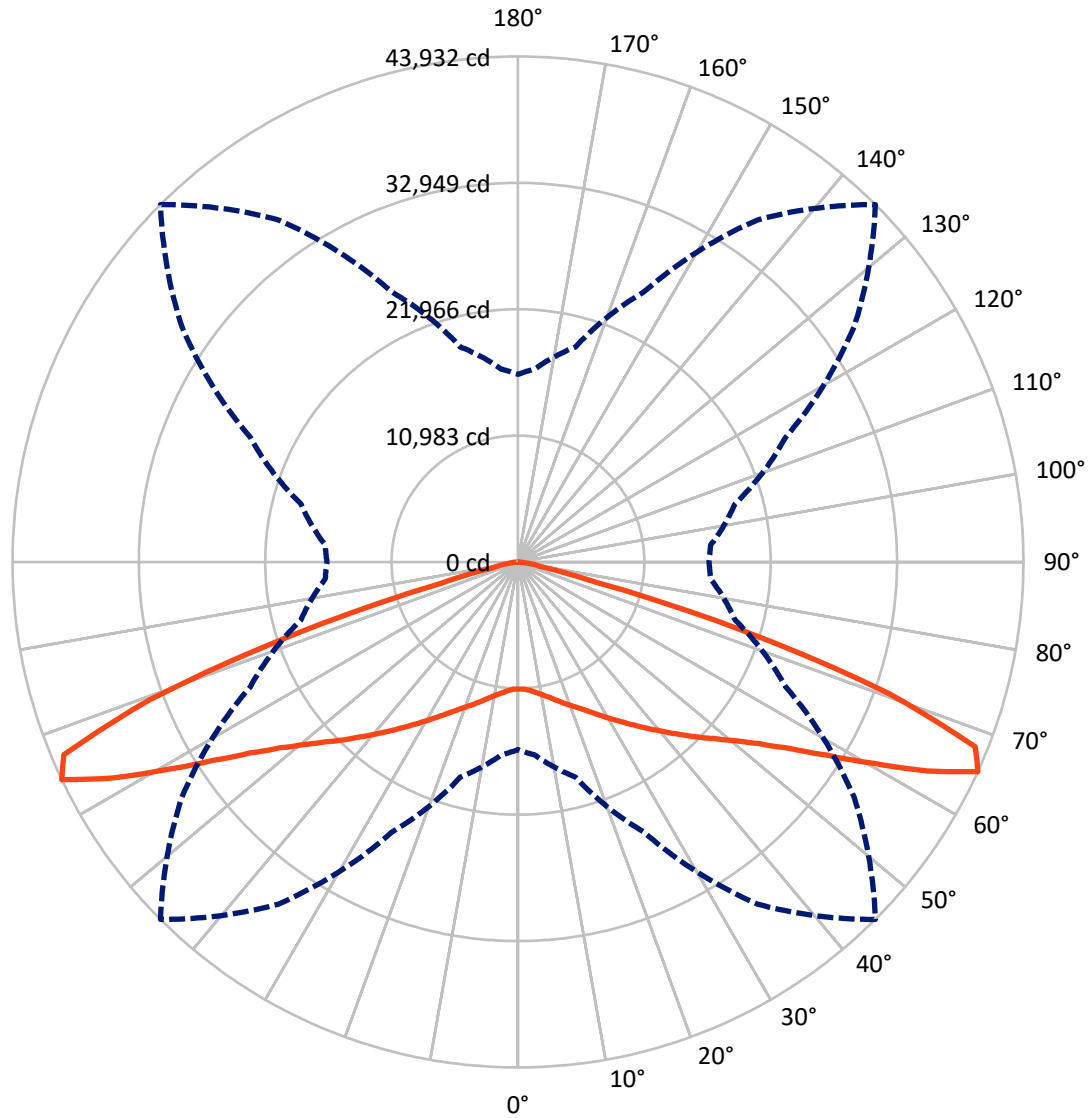
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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	46451.5	0.0	46451.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	46451.5	0.0	46451.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	92903.0	0.0	92903.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1091.2	1.2
10°-20°	3560.5	3.8
20°-30°	6722.7	7.2
30°-40°	11008.2	11.8
40°-50°	17068.3	18.4
50°-60°	25213.4	27.1
60°-70°	24000.8	25.8
70°-80°	3872.9	4.2
80°-90°	365.1	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°	92903.0	100.0
0°-180°	92903.0	100.0

**Coefficient of Utilization**



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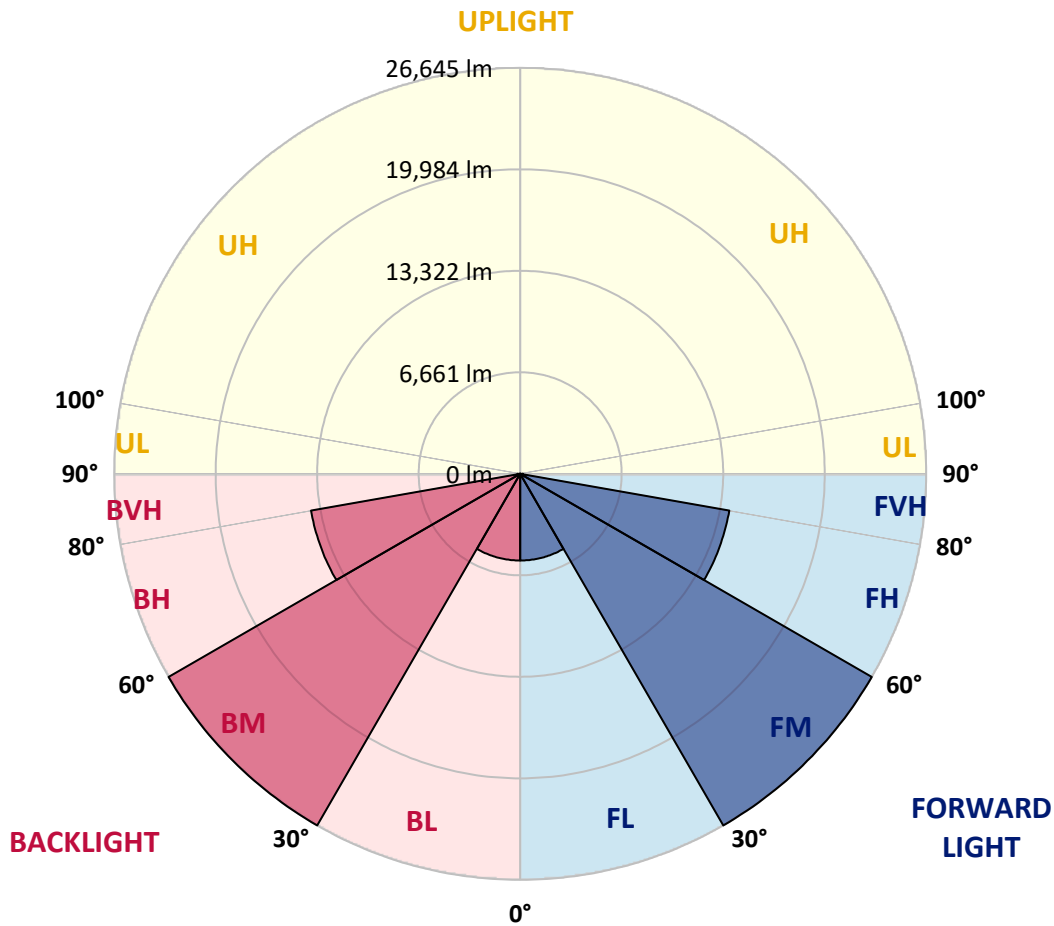
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5687.2	6.1			
FM (30°-60°)	26644.9	28.7			
FH (60°-80°)	13936.8	15.0			G5
FVH (80°-90°)	182.5	0.2			G2/225
BL (0°-30°)	5687.2	6.1	B5		
BM (30°-60°)	26644.9	28.7	B5		
BH (60°-80°)	13936.8	15.0	B5		G5
BVH (80°-90°)	182.5	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-G5**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11056.4	11056.4	11056.4	11056.4	11056.4	11056.4	11056.4	11056.4	11056.4	11056.4
2.5°	11131.0	11093.7	11121.6	11098.3	11079.7	11061.0	11070.4	11103.0	11117.0	11121.6
5°	11280.1	11247.5	11261.5	11261.5	11228.9	11219.5	11224.2	11247.5	11275.5	11275.5
7.5°	11522.5	11489.9	11522.5	11503.9	11475.9	11466.6	11461.9	11480.6	11522.5	11522.5
10°	11816.2	11778.9	11797.5	11788.2	11755.6	11741.6	11736.9	11764.9	11802.2	11797.5
12.5°	12137.8	12095.8	12119.1	12091.2	12081.9	12067.9	12067.9	12063.2	12086.5	12067.9
15°	12496.7	12468.7	12478.1	12459.4	12473.4	12464.1	12426.8	12408.1	12417.5	12389.5
17.5°	12920.9	12855.6	12888.2	12878.9	12878.9	12897.6	12837.0	12813.7	12832.3	12804.3
20°	13410.3	13345.0	13359.0	13340.4	13317.1	13335.7	13261.1	13279.8	13293.8	13275.1
22.5°	13946.3	13862.4	13857.8	13867.1	13815.8	13820.5	13769.2	13815.8	13843.8	13792.5
25°	14496.4	14407.8	14468.4	14445.1	14379.8	14393.8	14356.5	14403.1	14426.4	14361.2
27.5°	15079.0	15018.4	15074.3	15088.3	15009.1	15065.0	15009.1	15051.0	15074.3	14976.5
30°	15759.5	15698.9	15750.2	15787.5	15694.3	15782.9	15736.2	15764.2	15768.9	15652.3
32.5°	16500.7	16407.5	16538.0	16556.6	16454.1	16561.3	16500.7	16538.0	16561.3	16402.8
35°	17405.0	17288.4	17437.6	17414.3	17325.7	17414.3	17358.3	17414.3	17470.2	17279.1
37.5°	18379.1	18258.0	18416.4	18374.5	18290.6	18351.2	18318.5	18355.8	18444.4	18239.3
40°	19451.2	19302.1	19516.5	19441.9	19362.7	19353.3	19372.0	19395.3	19511.8	19283.4
42.5°	20597.9	20439.4	20761.0	20644.5	20532.6	20458.0	20518.6	20565.3	20677.1	20420.8
45°	21907.7	21725.9	22145.4	22005.6	21828.4	21674.6	21772.5	21842.4	22005.6	21697.9
47.5°	23352.7	23147.6	23595.0	23553.1	23264.1	22928.5	23152.2	23352.7	23473.8	23100.9
50°	24765.0	24606.5	25193.8	25245.1	24890.9	24420.1	24732.4	25035.3	25068.0	24578.6
52.5°	26088.8	25930.3	26783.3	27104.9	26788.0	26228.6	26559.6	26867.2	26620.2	25986.2
55°	27146.9	27016.4	28102.4	28932.1	29039.3	28577.9	28773.6	28764.3	27953.3	26979.1
57.5°	27403.2	27384.6	28755.0	30512.3	31631.0	31686.9	31300.0	30311.8	28563.9	27254.1
60°	26237.9	26354.5	28237.6	31337.3	34320.5	35560.4	33887.0	31067.0	27869.4	26051.5
62.5°	22751.4	23059.0	25329.0	30330.5	36492.6	40016.5	35961.2	29920.3	25016.7	22644.2
65°	16304.9	16840.9	19348.7	25883.7	36296.8	43931.9	35662.9	25673.9	19535.1	16799.0
67.5°	7397.3	7942.7	10072.9	17721.9	31551.7	42869.1	31477.1	17908.4	10576.3	7970.7
70°	2680.2	2773.4	3458.6	7094.4	20164.4	34157.3	21026.7	7145.6	3677.7	2955.2
72.5°	1622.1	1636.1	1780.6	2540.4	7005.8	20737.7	7304.1	2624.3	1817.9	1612.8
75°	1030.1	1020.8	1267.8	1552.2	2484.4	6996.5	2605.6	1552.2	1263.2	1151.3
77.5°	741.1	764.4	908.9	1160.6	1566.2	2372.6	1538.2	1109.4	908.9	745.8
80°	554.7	568.7	661.9	904.3	1100.0	1477.6	978.9	820.4	685.2	466.1
82.5°	400.9	400.9	433.5	657.2	671.2	797.1	531.4	578.0	452.1	330.9
85°	237.7	233.1	270.4	391.5	349.6	293.7	242.4	354.3	284.3	205.1
87.5°	83.9	88.6	83.9	111.9	93.2	79.2	74.6	97.9	79.2	69.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
11056.4
11121.6
11275.5
11508.5
11788.2
12077.2
12394.2
12827.6
13317.1
13843.8
14435.8
15051.0
15722.3
16510.0
17395.6
18365.2
19358.0
20555.9
21856.4
23226.8
24639.1
26004.9
27011.7
27170.2
25837.1
22504.3
16598.6
7854.1
2917.9
1640.7
1160.6
759.8
480.1
330.9
200.4
65.3
0.0

OF REPORT)