

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: P957487

Luminaire Tested: **GALN-SB9D-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-827-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

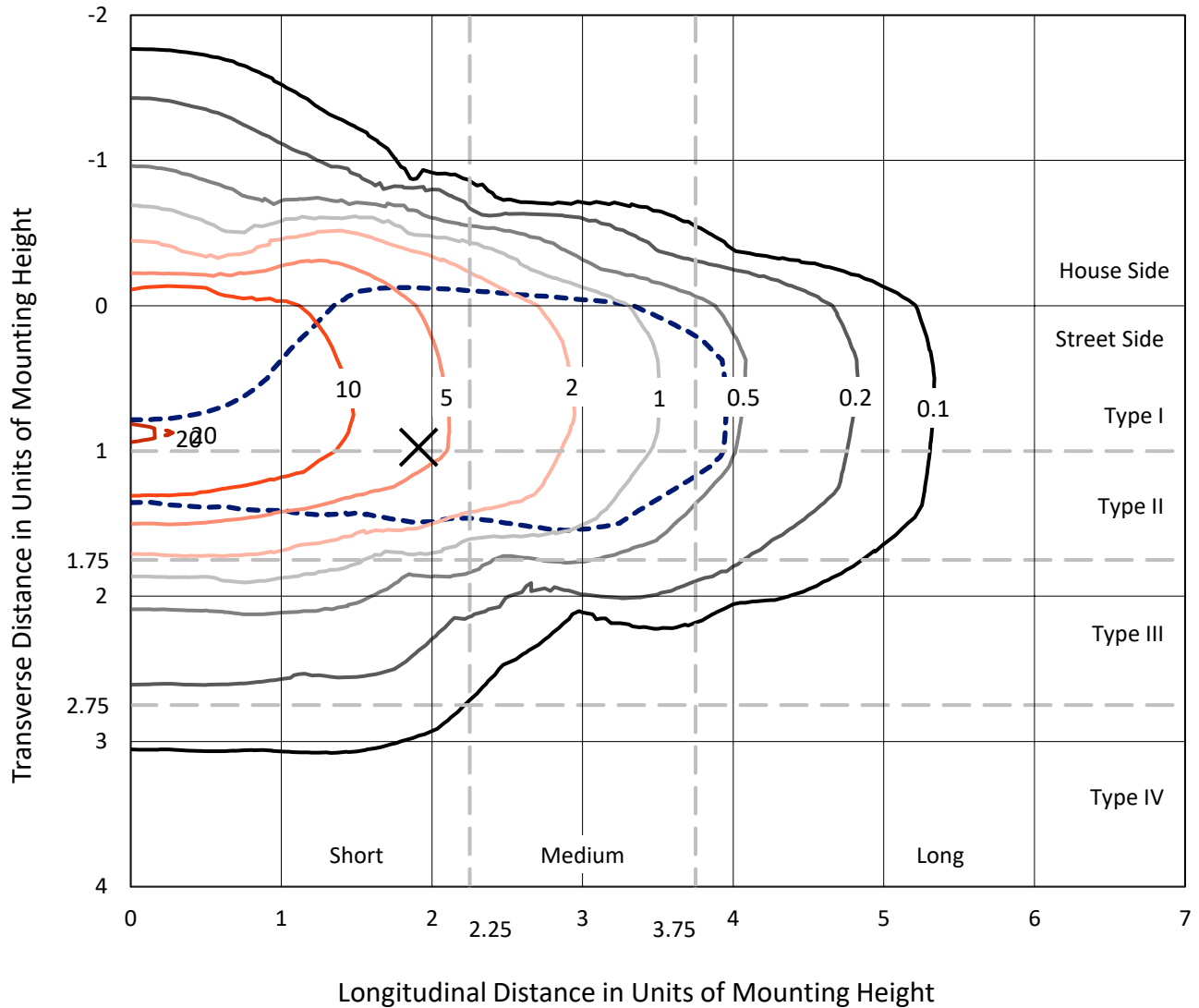
Lumens per Lamp: N/A  
Luminaire Lumens: 61596 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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 = 20.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9054.1	0.0	9054.1
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	52541.9	0.0	52541.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	61596.0	0.0	61596.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	716.3	1.2
10°-20°	1987.4	3.2
20°-30°	3460.5	5.6
30°-40°	6237.2	10.1
40°-50°	12370.4	20.1
50°-60°	16850.5	27.4
60°-70°	13449.9	21.8
70°-80°	6086.4	9.9
80°-90°	437.5	0.7
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°	61596.0	100.0
0°-180°	61596.0	100.0



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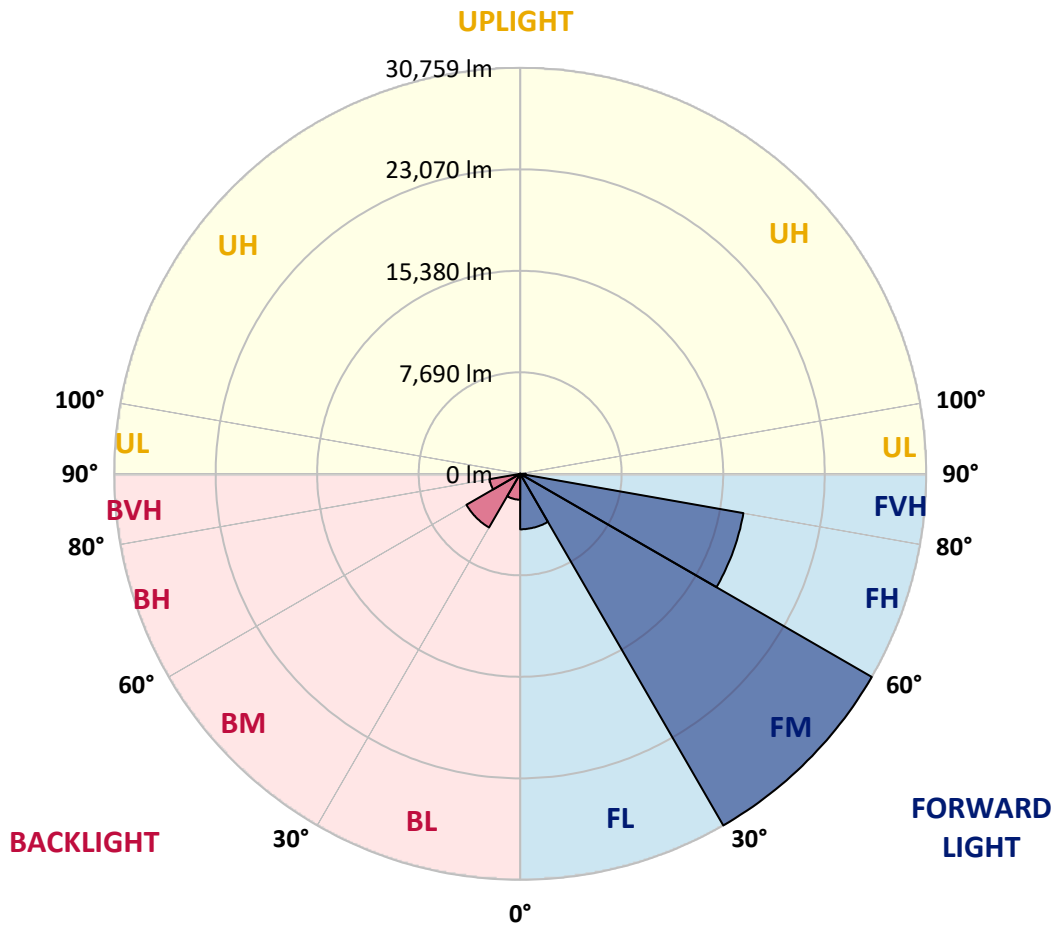
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4204.7	6.8			
FM (30°-60°)	30759.5	49.9			
FH (60°-80°)	17172.7	27.9			G5
FVH (80°-90°)	405.0	0.7			G3/500
BL (0°-30°)	1959.5	3.2	B3/2500		
BM (30°-60°)	4698.5	7.6	B3/5000		
BH (60°-80°)	2363.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	32.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	7602.1	7602.1	7602.1	7602.1	7602.1	7602.1	7602.1	7602.1	7602.1	7602.1
2.5°	7780.1	7758.9	7788.6	7775.8	7767.4	7750.4	7741.9	7733.5	7716.5	7703.8
5°	7801.3	7788.6	7818.2	7843.6	7869.1	7894.5	7907.2	7924.2	7907.2	7873.3
7.5°	7623.3	7614.8	7678.4	7754.7	7869.1	7966.5	8072.5	8131.8	8136.0	8123.3
10°	7610.6	7589.4	7653.0	7746.2	7894.5	8068.2	8254.7	8381.8	8398.8	8453.9
12.5°	7809.7	7788.6	7877.5	7979.2	8131.8	8314.0	8542.8	8720.8	8746.2	8822.5
15°	8144.5	8114.9	8216.6	8347.9	8542.8	8750.5	8992.0	9153.0	9174.2	9267.5
17.5°	8534.4	8504.7	8623.4	8763.2	8975.1	9259.0	9538.7	9716.6	9742.1	9801.4
20°	9034.4	8996.3	9089.5	9216.6	9441.2	9780.2	10115.0	10369.2	10365.0	10365.0
22.5°	9614.9	9555.6	9636.1	9737.8	9949.7	10360.7	10805.7	11106.5	11106.5	10987.9
25°	10237.8	10178.5	10267.5	10360.7	10547.2	11013.3	11534.5	11907.4	11924.4	11721.0
27.5°	11017.6	10941.3	11009.1	11119.3	11229.4	11704.0	12322.7	12754.9	12763.4	12449.8
30°	12517.6	12301.5	12089.6	11971.0	12021.8	12492.2	13153.3	13632.1	13674.5	13242.2
32.5°	15263.5	15221.2	14475.4	13500.7	12992.2	13339.7	14081.3	14657.6	14683.0	14127.9
35°	19530.7	19479.9	18280.7	16424.6	14767.8	14475.4	15208.5	15890.7	15873.7	15246.6
37.5°	24624.2	24577.6	22997.0	20513.8	17831.5	16191.6	16661.9	17378.1	17484.0	16661.9
40°	28976.2	28802.4	27802.4	25408.2	21899.5	19039.2	18729.8	19204.4	19314.6	18340.0
42.5°	32272.9	32124.6	31616.1	30120.3	26823.5	23251.3	21166.4	21348.6	21471.5	20302.0
45°	33980.7	33946.8	34150.2	34010.3	31840.7	28421.0	24649.7	23891.1	23937.7	22475.8
47.5°	34222.2	34205.3	35133.3	36446.9	36154.5	34251.9	29120.2	27060.8	26895.5	24929.3
50°	32798.4	32764.5	34544.3	37006.3	39036.0	39150.4	34196.8	30633.0	30268.6	27467.6
52.5°	28251.5	28243.1	31167.0	35264.6	40048.8	43438.8	39214.0	34557.0	33946.8	30154.2
55°	21738.5	21895.3	25247.1	30090.6	38201.2	45502.5	43718.5	38913.1	37976.7	32857.7
57.5°	15399.1	15628.0	18941.7	23255.5	32472.1	44282.1	46765.3	43277.8	42269.3	35552.8
60°	8271.6	8475.0	11793.0	16941.6	24158.1	39731.0	48371.3	47066.1	46112.7	38112.3
62.5°	4928.2	4996.0	6369.0	10937.0	16339.9	30353.4	47689.0	49951.9	49167.9	40260.7
65°	3538.3	3551.0	4241.8	6678.3	9920.0	18441.7	42904.9	51333.3	51091.8	41879.4
67.5°	2979.0	2970.5	3258.7	4436.7	6758.8	9237.8	32883.2	49379.8	50405.3	42904.9
70°	2555.2	2567.9	2906.9	3250.2	5080.8	5229.1	16348.4	42993.9	45180.4	43176.1
72.5°	1902.6	1945.0	2258.6	2962.0	3835.0	3597.7	5644.4	31878.9	35832.5	40680.2
75°	1343.3	1364.5	1589.1	2491.7	2860.3	2618.8	2881.5	16479.7	21547.8	31188.1
77.5°	1034.0	1072.1	1203.5	1741.6	2818.0	1839.1	1762.8	5703.7	8763.2	18840.0
80°	559.4	627.2	868.7	1258.5	1978.9	1300.9	872.9	2271.3	2970.5	8809.8
82.5°	288.2	322.1	606.0	906.8	1127.2	1135.7	432.2	945.0	1224.6	2720.5
85°	114.4	139.8	406.8	500.0	580.5	559.4	194.9	381.4	440.7	754.3
87.5°	25.4	42.4	148.3	114.4	110.2	118.7	46.6	89.0	84.8	89.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7602.1	0°	7602.1	7602.1	7602.1	7602.1	7602.1	7602.1	7602.1	7602.1	7602.1	7602.1
7653.0	2.5°	7648.7	7631.8	7585.2	7534.3	7475.0	7441.1	7419.9	7415.7	7386.0	7364.8
7822.5	5°	7775.8	7758.9	7669.9	7564.0	7449.6	7360.6	7275.8	7199.5	7089.4	7068.2
8068.2	7.5°	8030.1	7983.5	7839.4	7695.3	7479.2	7220.7	6907.2	6547.0	6224.9	6127.5
8394.5	10°	8343.7	8280.1	8097.9	7843.6	7364.8	6661.4	5902.9	5199.4	4640.1	4483.3
8780.1	12.5°	8699.6	8644.5	8403.0	7932.6	6886.0	5610.5	4449.4	3576.5	3034.1	2898.5
9191.2	15°	9123.4	9042.9	8708.1	7797.0	6030.0	4262.9	3055.3	2538.3	2343.3	2317.9
9661.5	17.5°	9572.6	9441.2	8979.3	7309.7	4877.4	3029.8	2360.3	2212.0	2127.2	2101.8
10136.1	20°	9983.6	9814.1	9140.3	6572.4	3644.3	2360.3	2114.5	2017.1	1940.8	1911.1
10610.7	22.5°	10394.6	10153.1	9140.3	5568.1	2733.2	2093.3	1940.8	1851.8	1762.8	1724.7
11119.3	25°	10822.6	10500.6	8979.3	4449.4	2199.3	1919.6	1775.5	1678.1	1601.8	1555.2
11602.3	27.5°	11237.9	10793.0	8610.6	3390.0	1957.7	1767.0	1623.0	1529.7	1457.7	1423.8
12127.8	30°	11632.0	11081.1	8093.7	2572.2	1800.9	1618.7	1483.1	1402.6	1330.6	1296.7
12810.0	32.5°	12165.9	11445.5	7542.8	2110.3	1665.3	1478.9	1356.0	1279.7	1216.2	1190.7
13695.7	35°	12907.5	11983.7	7068.2	2072.1	1550.9	1364.5	1241.6	1169.6	1106.0	1084.8
14839.8	37.5°	13958.4	12852.4	6818.2	2326.4	1457.7	1262.8	1148.4	1072.1	1012.8	995.8
16293.3	40°	15255.1	14030.4	6953.8	2580.6	1394.1	1173.8	1063.6	987.3	936.5	915.3
17962.8	42.5°	16793.3	15483.9	7703.8	2775.6	1351.8	1097.5	983.1	898.4	864.5	856.0
19857.0	45°	18560.3	17081.4	8852.2	2983.2	1284.0	1025.5	902.6	839.0	813.6	809.4
21916.5	47.5°	20568.9	18835.8	10182.8	3241.7	1216.2	957.7	839.0	796.7	775.5	767.0
24064.9	50°	22560.6	20602.8	11551.5	3385.8	1161.1	894.1	788.2	754.3	737.3	733.1
26336.2	52.5°	24645.4	22420.7	12657.5	3250.2	1114.5	843.3	745.8	720.4	703.4	699.2
28429.5	55°	26632.8	23891.1	12848.2	2758.6	1021.2	792.4	699.2	686.5	665.3	665.3
30552.5	57.5°	28344.8	24628.5	11500.6	2025.5	928.0	716.1	652.6	639.9	622.9	618.7
32467.9	60°	29916.9	24416.6	8877.6	1364.5	826.3	639.9	593.3	584.8	567.8	546.6
34133.2	62.5°	30802.5	23484.3	6072.4	889.9	724.6	559.4	525.5	521.2	483.1	440.7
35366.3	65°	31137.3	21569.0	3788.3	648.3	606.0	478.8	453.4	444.9	389.9	343.2
36065.5	67.5°	30844.9	18416.3	1911.1	512.7	478.8	398.3	372.9	372.9	334.8	292.4
36023.2	70°	29675.4	13805.8	805.1	411.0	368.7	305.1	305.1	322.1	283.9	237.3
34154.4	72.5°	27137.1	9288.6	428.0	313.6	275.4	216.1	250.0	262.7	224.6	178.0
27954.9	75°	21573.2	5665.6	296.6	233.1	173.7	152.6	190.7	199.2	152.6	118.7
19166.3	77.5°	14755.0	3254.4	199.2	148.3	110.2	89.0	131.4	122.9	80.5	55.1
7390.2	80°	6479.2	1356.0	114.4	67.8	42.4	33.9	46.6	33.9	25.4	17.0
1012.8	82.5°	758.5	317.8	42.4	25.4	17.0	8.5	4.2	0.0	0.0	0.0
309.3	85°	156.8	38.1	21.2	8.5	4.2	0.0	0.0	0.0	0.0	0.0
55.1	87.5°	29.7	8.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
7602.1
7386.0
7059.7
6080.8
4424.0
2860.3
2292.5
2089.1
1894.2
1703.5
1538.2
1423.8
1300.9
1190.7
1084.8
991.6
911.1
856.0
805.1
767.0
733.1
699.2
661.1
614.4
542.4
432.2
339.0
288.2
233.1
178.0
114.4
59.3
17.0
0.0
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