

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: P946649

Luminaire Tested: **GALN-SB2B-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8844 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.9
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



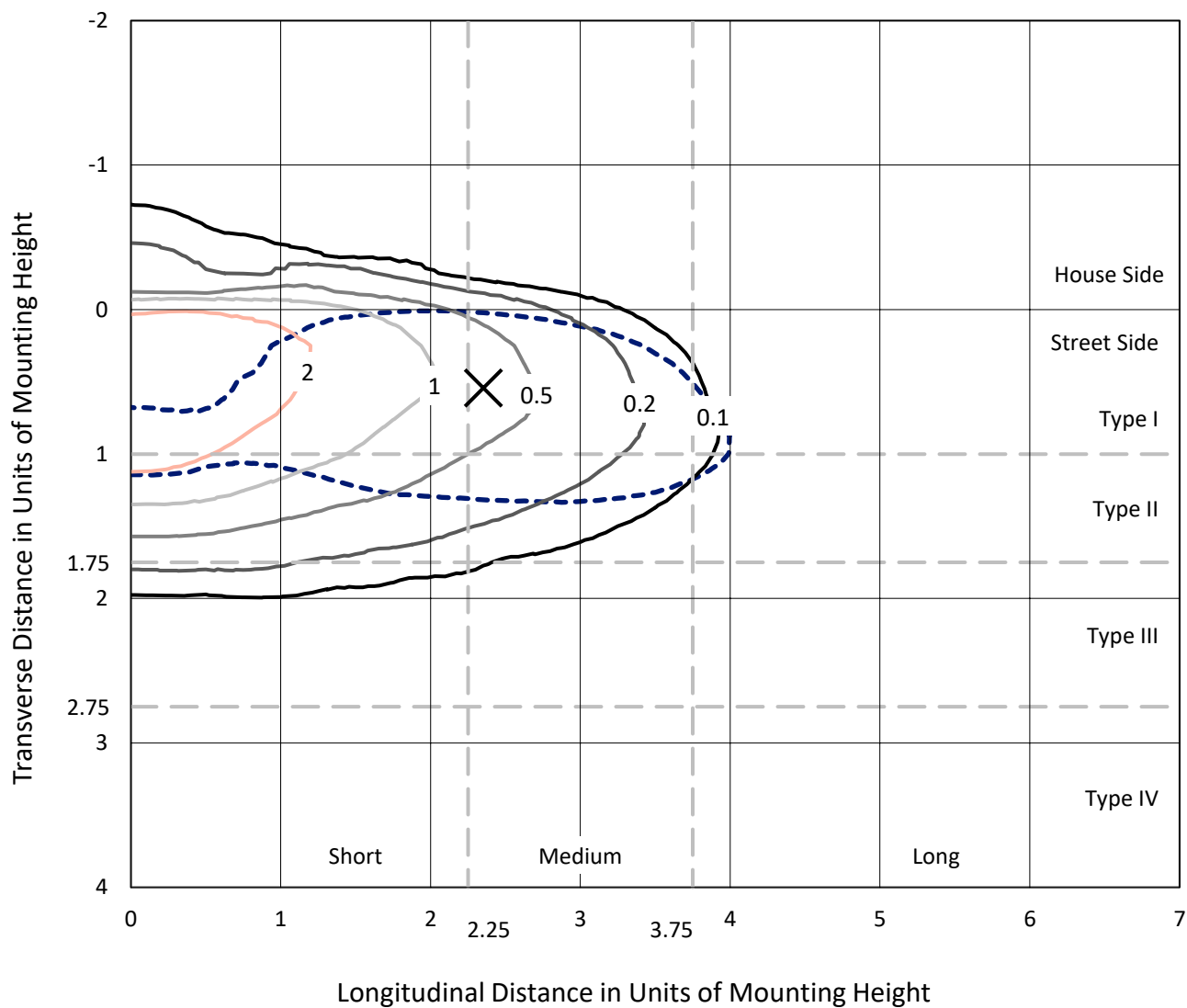
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Iso-Footcandle Lines of Horizontal Illumination

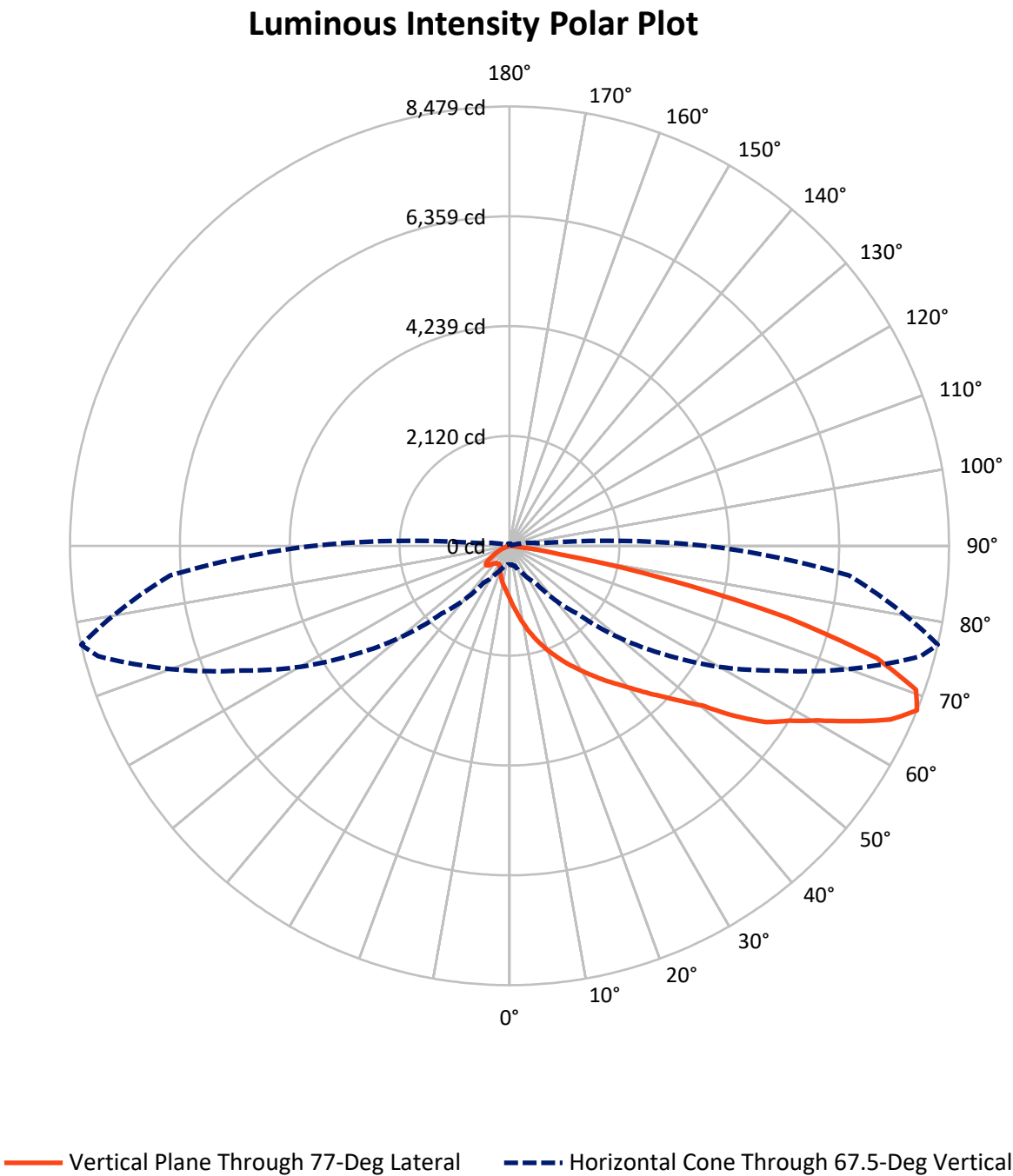
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	650.7	0.0	650.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	8193.4	0.0	8193.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	8844.0	0.0	8844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	1.2
10°-20°	364.5	4.1
20°-30°	703.4	8.0
30°-40°	1221.2	13.8
40°-50°	1773.1	20.0
50°-60°	2036.2	23.0
60°-70°	1767.8	20.0
70°-80°	832.6	9.4
80°-90°	41.2	0.5
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°	8844.0	100.0
0°-180°	8844.0	100.0

Coefficient of Utilization



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8
2.5°	1412.0	1420.8	1408.1	1384.0	1347.7	1324.1	1266.4	1212.1	1151.6	1132.4	1072.0
5°	1721.2	1728.8	1714.6	1688.2	1639.9	1593.7	1518.0	1404.3	1286.2	1248.3	1141.2
7.5°	1950.2	1954.6	1949.1	1924.9	1878.8	1826.6	1742.0	1607.5	1432.3	1390.5	1226.3
10°	2114.9	2129.2	2127.6	2118.2	2087.5	2045.2	1955.1	1801.9	1595.9	1542.1	1322.4
12.5°	2224.2	2240.1	2249.5	2270.3	2268.7	2241.8	2162.7	2000.7	1759.1	1695.9	1430.6
15°	2256.1	2273.1	2308.8	2357.1	2400.0	2413.7	2358.2	2195.7	1938.6	1857.9	1541.6
17.5°	2237.9	2264.3	2307.1	2383.5	2477.4	2539.4	2533.4	2384.0	2101.7	2009.5	1650.3
20°	2278.0	2303.3	2336.8	2401.1	2510.3	2622.9	2668.0	2564.2	2263.8	2167.1	1764.5
22.5°	2499.9	2495.5	2498.8	2509.2	2574.6	2686.1	2778.9	2727.8	2424.1	2325.3	1885.4
25°	2851.4	2831.6	2798.1	2741.5	2725.1	2778.9	2875.6	2872.8	2593.3	2487.3	2008.9
27.5°	3254.5	3251.2	3172.7	3036.5	2959.6	2938.7	2984.8	3013.9	2760.8	2647.6	2133.0
30°	3640.6	3649.4	3543.4	3391.8	3250.6	3168.8	3127.1	3147.9	2931.0	2820.6	2261.0
32.5°	3976.7	3986.0	3870.7	3693.3	3518.7	3419.8	3331.9	3280.3	3116.6	2996.4	2401.6
35°	4260.6	4269.9	4137.6	3941.5	3755.4	3665.8	3566.4	3425.3	3303.4	3191.3	2558.1
37.5°	4514.3	4511.6	4334.2	4136.5	3953.6	3882.8	3830.6	3603.8	3495.6	3387.4	2731.7
40°	4664.3	4675.8	4524.2	4306.2	4128.8	4077.2	4073.9	3825.1	3717.5	3612.6	2921.7
42.5°	4708.2	4728.5	4618.7	4439.6	4278.7	4222.7	4308.9	4064.5	3975.6	3873.4	3136.4
45°	4629.1	4648.9	4598.9	4474.8	4380.9	4344.6	4511.0	4312.8	4251.3	4150.2	3378.6
47.5°	4398.5	4423.2	4435.2	4408.9	4407.8	4444.6	4692.3	4574.2	4578.6	4475.3	3659.2
50°	3952.0	3993.7	4104.6	4198.0	4342.4	4523.7	4868.6	4857.6	4947.6	4858.7	4025.0
52.5°	3140.3	3199.6	3581.8	3837.2	4161.8	4508.8	5062.4	5312.3	5595.1	5465.0	4540.7
55°	2523.5	2523.5	2834.4	3312.2	3809.2	4411.1	5147.0	5607.8	6036.1	6005.4	4903.7
57.5°	2057.3	2082.0	2280.2	2702.6	3299.0	4178.2	5199.2	5793.4	6391.5	6368.9	5258.5
60°	1269.7	1323.0	1697.5	2114.4	2718.5	3763.6	5166.2	5981.2	6822.6	6840.7	5685.7
62.5°	715.0	734.8	901.8	1521.3	2113.8	3206.2	4914.1	6086.1	7374.0	7450.8	6126.2
65°	493.7	503.6	567.9	946.8	1465.2	2552.6	4421.5	6020.8	7926.4	8081.9	6499.6
67.5°	358.6	363.6	403.7	578.3	869.4	1850.8	3649.4	5691.2	8219.2	8478.9	6571.0
70°	275.7	279.0	308.1	380.0	513.5	1142.3	2650.4	5036.1	8007.2	8317.5	6205.3
72.5°	224.1	227.4	249.9	281.2	340.5	675.5	1606.4	4089.8	7071.4	7406.4	5282.6
75°	188.9	193.3	213.6	234.0	266.9	433.9	753.5	2848.1	5317.8	5537.5	3673.5
77.5°	104.9	96.7	173.5	193.9	225.2	274.6	352.6	1676.1	2978.2	3039.2	1630.0
80°	65.4	67.6	137.8	156.0	173.0	138.4	161.5	645.3	1032.5	980.9	315.8
82.5°	3.8	8.8	106.0	112.6	118.6	59.3	61.0	219.1	248.8	228.5	56.0
85°	0.0	0.0	48.3	39.0	41.2	17.0	17.6	51.1	33.5	36.2	11.0
87.5°	0.0	0.0	0.0	1.1	0.0	1.6	3.3	4.4	1.6	2.2	3.8
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8	1019.8
2.5°	1033.6	995.1	917.1	840.8	778.7	721.1	679.9	640.9	621.1	620.0	618.9
5°	1064.9	984.1	828.2	690.3	579.4	490.4	432.8	391.6	370.7	363.6	362.5
7.5°	1108.8	987.4	750.2	558.5	427.8	351.5	318.5	305.3	301.0	296.0	294.9
10°	1164.3	995.1	680.4	449.8	337.2	298.8	285.6	280.1	276.8	273.5	272.4
12.5°	1226.3	1002.3	611.2	373.4	296.6	276.8	267.5	260.9	256.5	252.6	251.5
15°	1286.7	1006.7	539.3	320.2	275.7	259.8	249.9	242.7	236.7	232.3	231.8
17.5°	1346.6	1012.7	471.8	288.3	258.7	242.7	232.9	224.1	219.1	214.2	213.6
20°	1413.1	1011.6	408.0	265.8	241.6	225.7	215.3	207.0	202.1	196.6	196.1
22.5°	1474.6	1006.1	352.0	246.6	224.1	208.7	197.2	188.9	184.0	179.6	179.0
25°	1545.4	1001.7	305.3	229.0	207.6	192.2	179.6	171.9	166.4	162.6	162.0
27.5°	1613.5	995.1	271.3	213.1	191.7	176.8	164.8	156.0	151.0	148.3	148.3
30°	1680.5	993.5	258.7	197.7	177.4	162.6	150.5	142.2	138.4	137.3	136.7
32.5°	1761.2	997.9	264.2	192.2	164.2	149.4	137.8	131.8	128.0	128.0	128.0
35°	1847.5	996.8	272.4	197.2	155.4	136.2	127.4	123.6	119.7	119.7	119.7
37.5°	1955.7	998.4	279.0	205.4	152.1	125.2	120.3	115.3	113.1	113.1	113.1
40°	2117.1	1052.8	275.7	212.5	151.0	117.5	107.6	106.0	104.3	104.3	104.3
42.5°	2314.8	1170.9	280.1	213.1	150.5	112.0	98.9	102.1	98.3	97.8	97.2
45°	2531.2	1299.9	308.1	201.6	149.9	109.3	94.5	98.3	92.3	92.3	92.3
47.5°	2745.9	1427.9	336.7	185.1	148.3	108.7	90.6	88.4	86.8	87.3	87.3
50°	3042.0	1532.2	347.6	162.6	144.4	107.6	83.5	84.0	82.9	84.0	84.0
52.5°	3364.3	1554.2	334.5	137.3	133.5	104.3	78.5	80.7	80.2	81.3	81.3
55°	3565.3	1530.6	276.2	114.2	116.4	91.2	73.6	78.0	78.0	78.0	78.0
57.5°	3772.9	1430.1	196.1	92.8	96.7	74.7	69.2	75.2	74.7	74.1	74.1
60°	3922.3	1267.5	129.1	76.3	76.9	61.5	64.3	70.8	70.3	67.6	67.6
62.5°	4033.8	1087.9	82.9	64.8	58.8	55.5	58.8	64.3	62.1	56.0	54.9
65°	4021.2	839.2	63.7	55.5	48.3	48.3	51.1	56.0	49.4	39.5	38.4
67.5°	3786.7	567.9	52.7	46.7	40.6	40.1	42.3	46.7	42.3	33.5	32.4
70°	3367.6	371.3	42.3	36.2	32.4	29.7	34.0	40.1	35.7	26.9	25.8
72.5°	2733.3	226.3	31.9	26.4	23.6	19.2	26.9	33.0	28.6	19.8	18.7
75°	1768.4	115.3	22.0	17.0	12.6	11.5	19.8	24.7	19.8	12.1	10.4
77.5°	676.6	48.3	12.1	7.7	6.6	5.5	11.0	14.8	8.2	2.7	2.2
80°	130.2	20.3	6.0	3.8	3.3	2.2	1.6	1.1	0.0	0.0	0.0
82.5°	22.5	6.6	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	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	0.0

(END OF REPORT)