

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: P955260

Luminaire Tested: **GALN-SB8B-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46378 lumens
Efficiency: N/A
Efficacy: 158.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

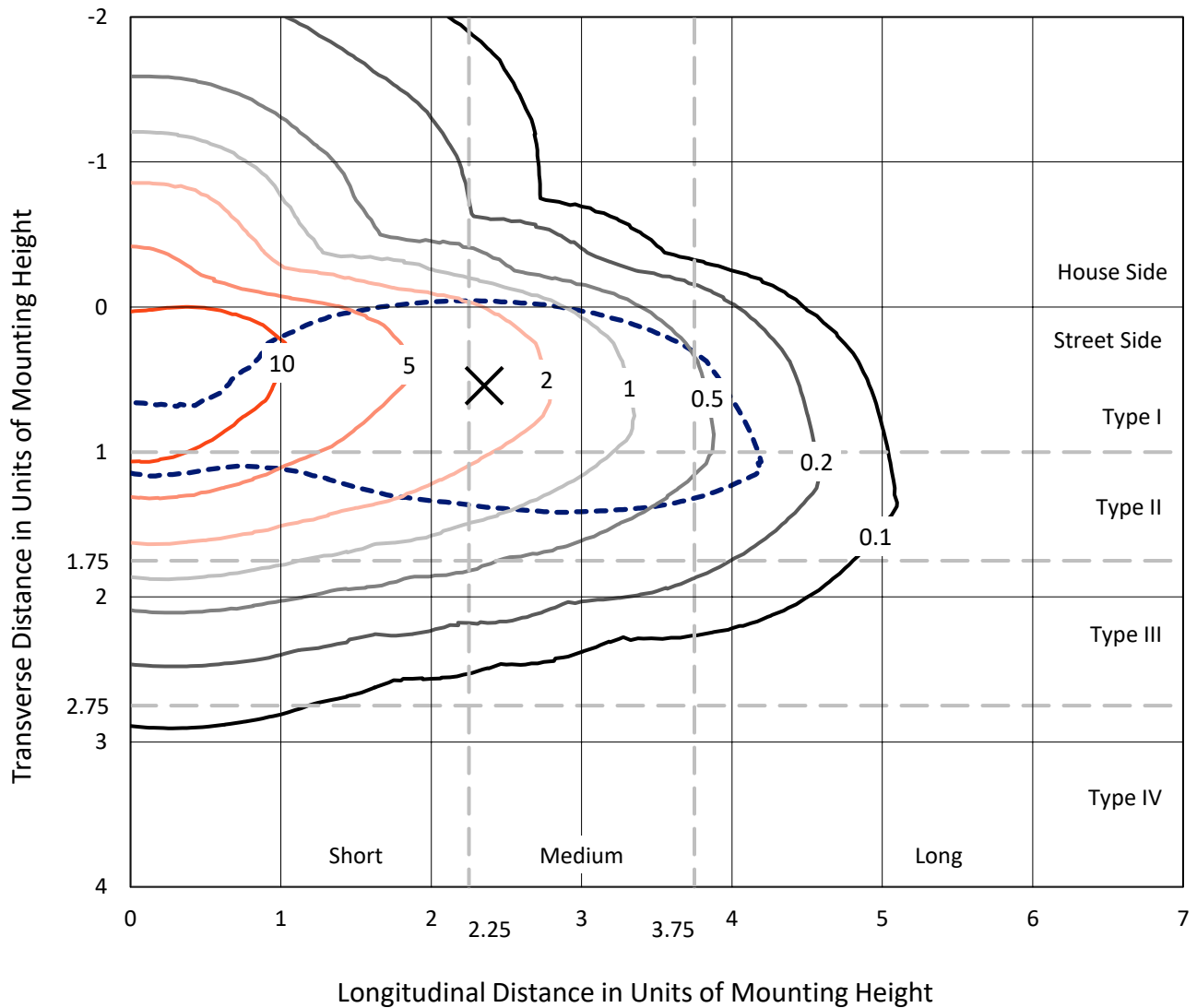
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

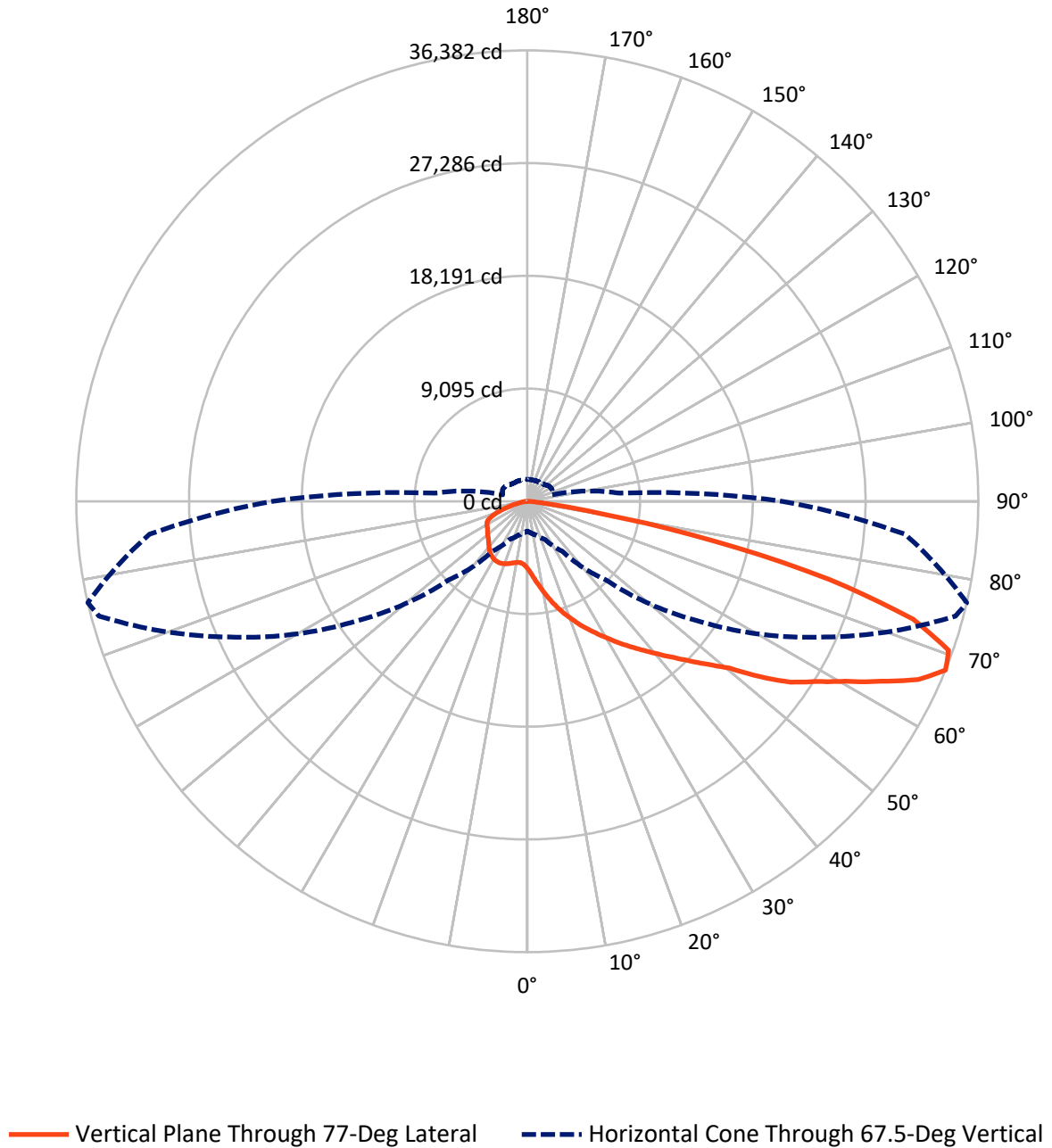
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8772.9	0.0	8772.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	37605.2	0.0	37605.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	46378.0	0.0	46378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.3	1.3
10°-20°	2095.4	4.5
20°-30°	3956.4	8.5
30°-40°	6373.7	13.7
40°-50°	8718.0	18.8
50°-60°	9834.0	21.2
60°-70°	9178.8	19.8
70°-80°	5031.5	10.8
80°-90°	606.9	1.3
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°	46378.0	100.0
0°-180°	46378.0	100.0

Coefficient of Utilization



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5441.6	5441.6	5441.6	5441.6	5441.6	5441.6	5441.6	5441.6	5441.6	5441.6
2.5°	6813.3	6861.2	6801.4	6801.4	6600.3	6494.9	6293.8	6140.6	5865.3	5817.4
5°	8053.4	8113.3	8029.5	7993.6	7756.6	7538.7	7201.2	6868.4	6377.6	6327.4
7.5°	9013.4	9090.0	9015.8	8977.5	8766.9	8522.7	8127.7	7663.2	6971.4	6873.2
10°	9796.3	9808.3	9784.3	9798.7	9633.5	9432.4	9027.8	8486.8	7622.5	7488.5
12.5°	10239.2	10294.2	10342.1	10428.3	10399.6	10275.1	9911.2	9264.8	8312.0	8139.6
15°	10447.5	10543.2	10650.9	10849.6	11010.0	11041.2	10763.5	10100.3	9013.4	8805.2
17.5°	10521.7	10612.6	10782.6	11069.9	11414.6	11646.8	11522.4	10911.9	9707.7	9468.3
20°	10897.5	10923.9	11026.8	11299.7	11673.2	12058.6	12152.0	11692.3	10394.8	10124.3
22.5°	11701.9	11649.2	11678.0	11802.5	12070.6	12444.1	12657.1	12381.8	11101.0	10789.8
25°	13030.6	12877.4	12724.2	12580.5	12717.0	12927.6	13169.4	13071.3	11840.8	11445.8
27.5°	14708.8	14522.1	14184.5	13712.9	13547.7	13621.9	13729.6	13710.5	12525.4	12125.7
30°	16360.7	16142.8	15740.6	15058.3	14622.6	14426.3	14344.9	14289.8	13270.0	12843.9
32.5°	17679.7	17507.4	17112.4	16348.7	15716.7	15381.5	15111.0	14914.7	14048.0	13621.9
35°	18833.7	18673.3	18220.8	17387.7	16700.6	16343.9	15989.6	15570.6	14857.2	14426.3
37.5°	19887.0	19726.6	19106.6	18239.9	17548.1	17301.5	16985.5	16274.5	15668.8	15261.8
40°	20552.6	20516.6	19937.3	18955.8	18237.6	18115.5	18010.1	17090.8	16568.9	16190.7
42.5°	20722.5	20801.5	20341.9	19535.1	18850.4	18752.3	18998.8	18014.9	17579.2	17217.7
45°	20313.2	20540.6	20238.9	19690.7	19286.1	19233.5	19875.1	19025.2	18697.2	18366.8
47.5°	19276.6	19662.0	19537.5	19460.9	19403.4	19630.9	20645.9	20097.7	19963.6	19676.4
50°	17184.2	17914.4	18132.2	18615.8	19171.2	19939.7	21347.4	21268.4	21443.1	21153.5
52.5°	13566.8	14572.3	15836.4	17047.7	18457.8	19836.8	22118.2	22949.0	23686.3	23528.3
55°	11199.2	11651.6	12623.6	14845.2	17074.1	19403.4	22465.4	24306.4	25912.7	25771.5
57.5°	9379.7	9784.3	10382.8	12238.2	14981.7	18419.5	22680.8	25134.7	27437.7	27423.4
60°	7428.6	7857.1	8470.0	9784.3	12537.4	16719.8	22633.0	26077.9	29384.1	29503.8
62.5°	5226.1	5697.7	6377.6	7603.4	10040.5	14517.3	21656.2	26760.2	31675.1	32000.7
65°	3435.4	3746.6	4258.9	5317.1	7481.3	11685.2	19791.3	26848.8	34126.6	34677.2
67.5°	2408.4	2528.1	2829.7	3404.3	4931.7	8960.8	16820.3	25931.9	35761.7	36381.7
70°	1879.3	1939.1	2092.4	2322.2	3097.8	6025.7	12889.3	23547.5	35412.2	36058.5
72.5°	1623.1	1680.6	1738.0	1766.8	2078.0	3720.3	8730.9	19688.3	32120.4	32558.5
75°	1472.3	1486.7	1534.6	1525.0	1584.8	2413.2	5039.4	14344.9	25343.0	25192.1
77.5°	1237.7	1256.9	1335.9	1323.9	1407.7	1649.5	2616.7	9257.6	16430.1	15405.4
80°	1048.6	1058.2	1144.3	1130.0	1223.3	1194.6	1335.9	4718.6	6969.0	5903.6
82.5°	363.9	450.1	873.8	900.1	933.7	723.0	770.9	1924.8	2128.3	1630.3
85°	177.2	189.1	445.3	632.0	629.6	363.9	375.9	687.1	670.3	526.7
87.5°	28.7	35.9	52.7	246.6	196.3	95.8	129.3	134.1	138.9	119.7
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°
5441.6	0°	5441.6	5441.6	5441.6	5441.6	5441.6	5441.6	5441.6	5441.6	5441.6	5441.6
5635.5	2.5°	5501.4	5381.7	5130.4	4898.1	4716.2	4541.4	4443.3	4359.5	4311.6	4302.0
5898.8	5°	5649.9	5403.3	4946.0	4560.6	4309.2	4122.5	4024.3	3962.1	3931.0	3911.8
6253.1	7.5°	5862.9	5501.4	4850.3	4412.2	4148.8	4014.8	3964.5	3954.9	3952.5	3954.9
6681.7	10°	6157.4	5661.8	4840.7	4376.2	4156.0	4081.8	4079.4	4081.8	4091.4	4093.8
7148.5	12.5°	6475.8	5827.0	4879.0	4407.4	4247.0	4206.3	4199.1	4196.7	4203.9	4208.7
7620.1	15°	6822.9	6044.9	4943.6	4474.4	4347.5	4304.4	4297.2	4282.9	4280.5	4278.1
8115.7	17.5°	7179.6	6260.3	5015.4	4546.2	4412.2	4352.3	4326.0	4292.5	4266.1	4258.9
8628.0	20°	7541.1	6473.4	5065.7	4582.1	4416.9	4333.2	4280.5	4223.0	4177.5	4151.2
9145.1	22.5°	7926.6	6696.0	5096.8	4572.6	4373.9	4258.9	4163.2	4096.1	4026.7	3981.2
9667.0	25°	8302.4	6890.0	5094.4	4522.3	4290.1	4144.0	4021.9	3935.7	3840.0	3792.1
10205.7	27.5°	8663.9	7064.7	5034.6	4433.7	4170.4	4007.6	3861.5	3758.6	3665.2	3619.7
10749.1	30°	9037.4	7210.8	4941.2	4304.4	4029.1	3849.6	3689.2	3600.6	3516.8	3473.7
11323.7	32.5°	9408.5	7344.8	4809.6	4144.0	3866.3	3694.0	3535.9	3454.6	3404.3	3404.3
11941.3	35°	9801.1	7438.2	4634.8	3957.3	3694.0	3528.8	3404.3	3356.4	3351.6	3322.9
12594.9	37.5°	10215.2	7498.0	4421.7	3765.8	3524.0	3368.4	3330.1	3272.6	3224.7	3162.5
13313.1	40°	10650.9	7557.9	4165.6	3567.1	3344.4	3258.2	3241.5	3164.9	3028.4	2875.2
14127.0	42.5°	11180.0	7598.6	3899.8	3368.4	3155.3	3126.6	3150.5	3018.8	2801.0	2686.1
15108.6	45°	11792.9	7665.6	3655.7	3172.1	2961.4	2961.4	3061.9	2889.6	2710.0	2638.2
16229.0	47.5°	12587.7	7821.2	3428.2	2956.6	2781.8	2829.7	2865.6	2734.0	2633.4	2544.8
17593.6	50°	13736.8	8194.7	3193.6	2738.7	2645.4	2741.1	2690.9	2614.3	2497.0	2425.1
19762.5	52.5°	15163.6	8414.9	2985.3	2542.4	2528.1	2623.8	2552.0	2480.2	2391.6	2295.9
21407.2	55°	16135.6	8455.6	2810.6	2398.8	2449.1	2439.5	2413.2	2348.5	2300.6	2173.8
23030.4	57.5°	17222.5	8537.0	2666.9	2312.6	2398.8	2293.5	2283.9	2228.8	2166.6	2080.4
25010.2	60°	18522.4	8663.9	2542.4	2279.1	2355.7	2197.7	2149.8	2128.3	2066.0	2022.9
27392.2	62.5°	19939.7	8778.8	2415.6	2283.9	2305.4	2104.3	2032.5	2025.3	1987.0	1972.7
29628.2	65°	20906.9	8465.2	2257.5	2279.1	2226.4	2008.6	1917.6	1915.2	1884.1	1879.3
30597.8	67.5°	20569.3	7471.7	2044.5	2212.1	2145.0	1912.8	1812.3	1802.7	1762.0	1764.4
29585.2	70°	18879.1	6054.4	1750.0	2046.9	2044.5	1826.6	1702.1	1671.0	1616.0	1625.5
25723.6	72.5°	15709.5	4486.4	1355.0	1771.6	1884.1	1747.6	1575.3	1525.0	1455.6	1465.1
18989.3	75°	11345.2	3050.0	986.3	1347.8	1639.9	1654.3	1450.8	1364.6	1280.8	1295.2
10569.5	77.5°	5805.5	1728.5	725.4	928.9	1288.0	1503.4	1338.3	1223.3	1204.2	1338.3
3047.6	80°	1893.7	866.6	502.7	651.2	845.1	1230.5	1173.1	1041.4	1036.6	1067.7
639.2	82.5°	565.0	366.3	323.2	428.5	466.8	943.2	1012.7	787.6	677.5	713.4
213.1	85°	193.9	177.2	184.3	213.1	222.6	553.0	708.6	521.9	493.2	543.4
47.9	87.5°	45.5	62.2	52.7	47.9	47.9	134.1	275.3	217.9	301.6	201.1
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>
5441.6
4302.0
3909.4
3962.1
4096.1
4211.1
4275.7
4266.1
4160.8
3983.6
3792.1
3617.3
3471.3
3406.7
3315.7
3152.9
2853.7
2688.5
2650.2
2542.4
2417.9
2276.7
2176.2
2051.7
2034.9
1972.7
1876.9
1764.4
1635.1
1462.7
1299.9
1319.1
916.9
737.4
536.3
193.9
0.0

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