

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: P953288

Luminaire Tested: **GALN-SB6D-850-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6D-850-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

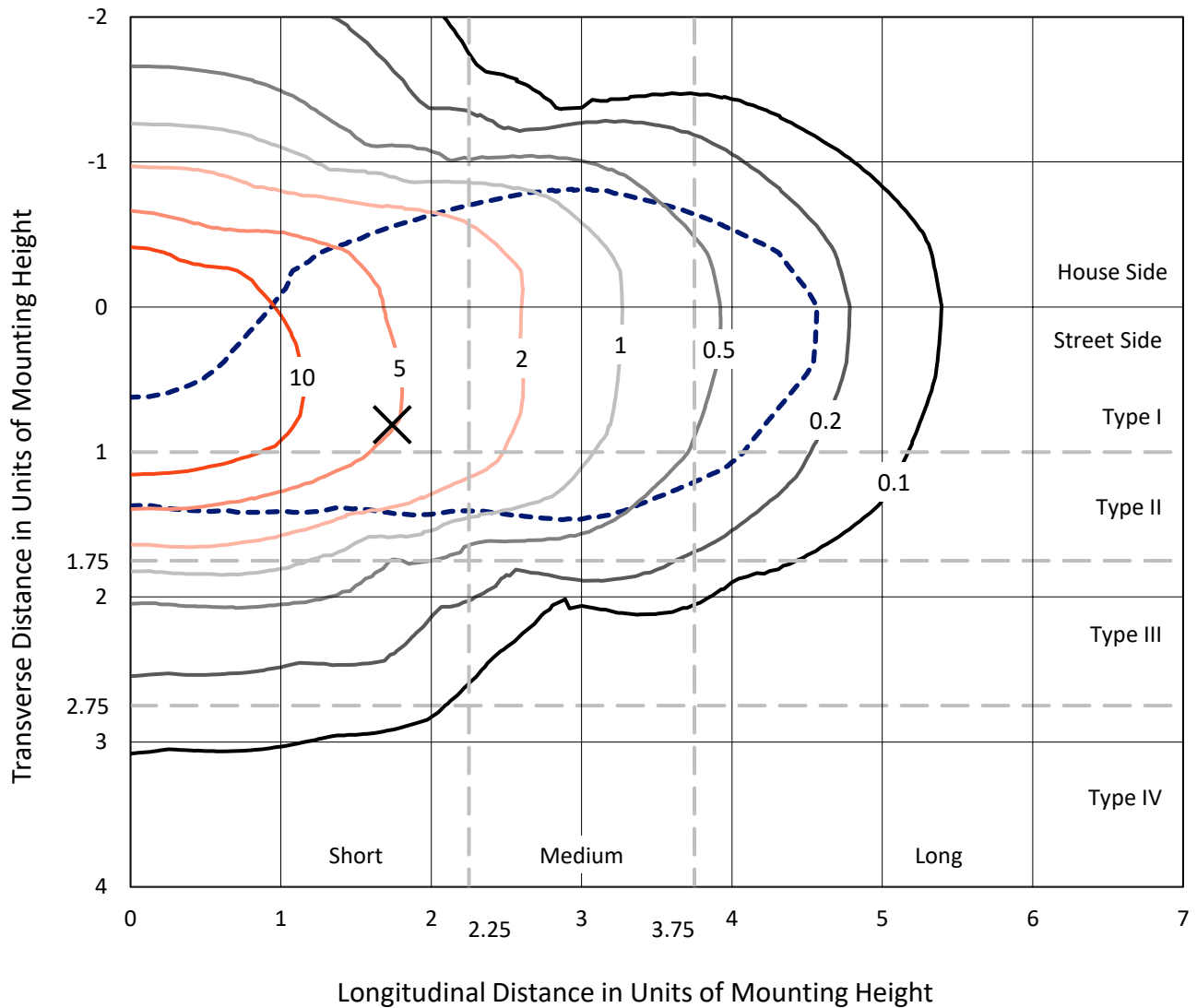
Lumens per Lamp: N/A  
Luminaire Lumens: 59816 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

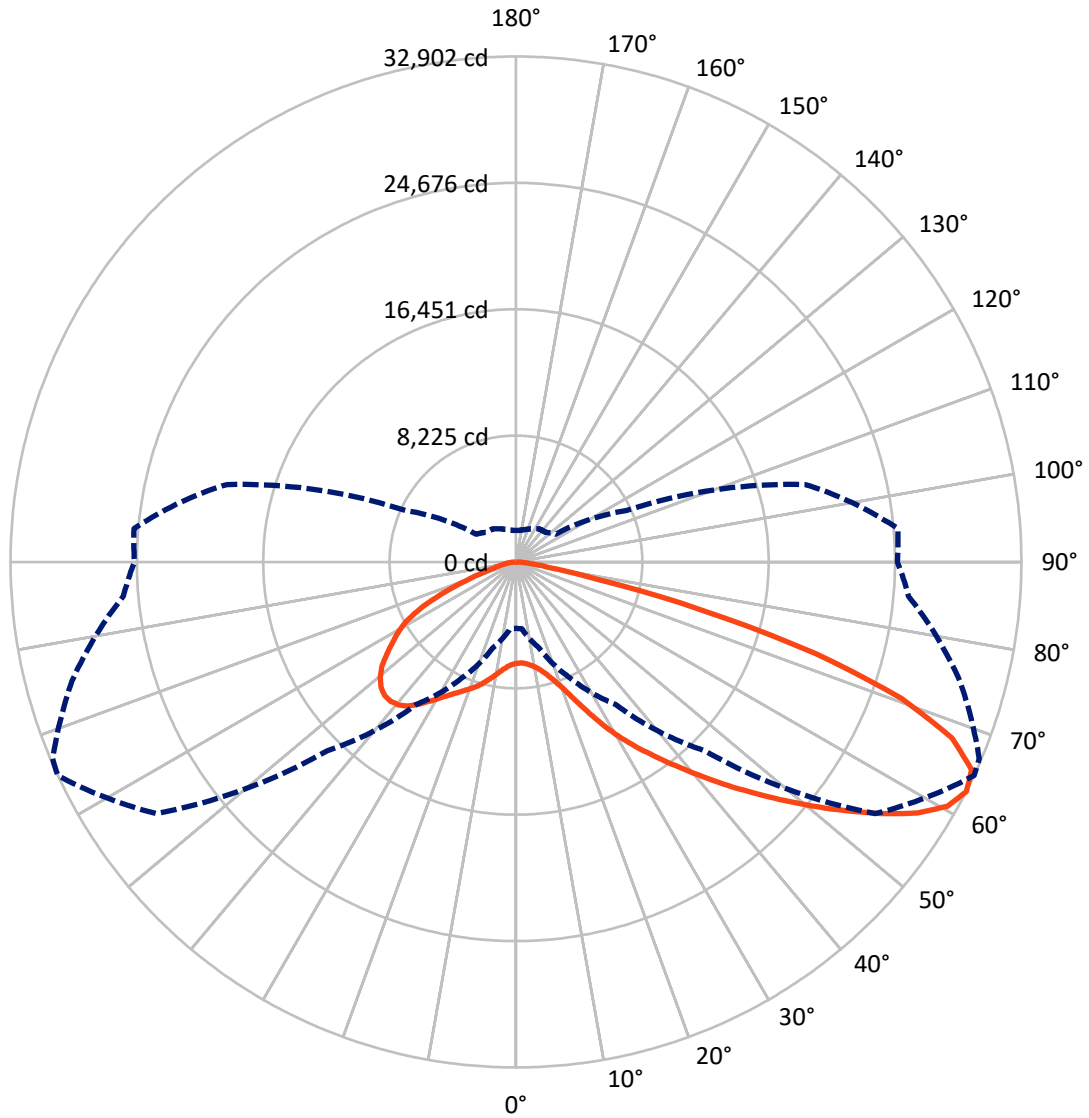
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18875.3	0.0	18875.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	40940.7	0.0	40940.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	59816.0	0.0	59816.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	657.2	1.1
10°-20°	2228.5	3.7
20°-30°	4518.5	7.6
30°-40°	7819.2	13.1
40°-50°	11832.9	19.8
50°-60°	13873.3	23.2
60°-70°	11631.1	19.4
70°-80°	6421.3	10.7
80°-90°	834.1	1.4
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°	59816.0	100.0
0°-180°	59816.0	100.0





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6591.5	6591.5	6591.5	6591.5	6591.5	6591.5	6591.5	6591.5	6591.5	6591.5
2.5°	6548.0	6529.4	6544.9	6544.9	6551.1	6548.0	6569.7	6575.9	6585.3	6603.9
5°	6482.8	6479.7	6507.7	6532.5	6557.3	6579.1	6607.0	6647.3	6653.5	6675.3
7.5°	6461.1	6442.5	6486.0	6517.0	6575.9	6628.7	6703.2	6771.5	6799.4	6808.7
10°	6628.7	6597.7	6638.0	6656.6	6706.3	6759.0	6845.9	6954.6	6985.6	7022.8
12.5°	6914.2	6880.1	6939.0	6967.0	7013.5	7060.1	7119.0	7224.5	7240.1	7308.3
15°	7305.2	7264.9	7302.1	7336.3	7413.8	7457.3	7516.3	7618.7	7618.7	7671.4
17.5°	7835.9	7783.1	7811.1	7823.5	7873.1	7938.3	8037.6	8127.6	8174.2	8155.5
20°	8627.2	8562.1	8562.1	8500.0	8481.4	8534.1	8664.5	8788.6	8838.3	8742.1
22.5°	9815.8	9722.7	9670.0	9458.9	9375.1	9381.4	9511.7	9663.8	9704.1	9533.4
25°	11327.1	11181.3	11109.9	10799.6	10610.3	10445.8	10548.2	10743.7	10799.6	10588.5
27.5°	12838.5	12847.8	12779.5	12407.1	12093.7	11792.6	11739.9	11944.7	12003.7	11764.7
30°	14958.0	14737.7	14607.4	14160.5	13713.6	13291.5	13074.3	13158.1	13173.6	12888.1
32.5°	16785.9	16730.0	16450.7	16059.7	15485.6	14824.6	14461.5	14328.1	14303.2	13896.7
35°	18868.2	18837.2	18542.4	18076.9	17456.2	16537.6	15882.8	15501.1	15470.1	14899.1
37.5°	20984.7	20984.7	20696.1	20187.1	19544.7	18396.5	17400.3	16795.2	16695.9	15951.1
40°	22672.9	22570.5	22623.2	22409.1	21673.6	20454.0	19085.5	18207.2	18073.8	17180.0
42.5°	23631.8	23597.7	23914.2	24153.2	23852.2	22877.7	20941.2	19737.2	19551.0	18533.1
45°	23846.0	23808.7	24373.5	25248.7	25670.7	25270.4	22958.4	21347.8	21121.2	19948.2
47.5°	23352.5	23278.0	24106.6	25487.6	26840.7	27545.1	25143.1	23094.9	22766.0	21326.1
50°	21869.1	21797.8	23051.5	24885.6	27234.8	29090.6	27514.1	24947.6	24444.9	22803.2
52.5°	18644.8	18678.9	20643.3	23163.2	26716.5	30052.6	29556.1	26899.6	26294.5	24314.6
55°	14523.6	14598.0	17012.4	19786.8	24643.5	29906.7	30949.5	28910.6	28308.5	25735.9
57.5°	10399.2	10728.2	12990.5	15737.0	20661.9	27594.8	31253.6	30822.2	30238.8	27287.5
60°	6740.4	6799.4	9126.9	11895.0	15733.9	23486.0	30636.0	32271.5	31815.3	28870.2
62.5°	4319.8	4360.2	5778.4	8320.0	11324.0	17375.5	28556.8	32901.5	32761.8	29916.1
65°	3174.7	3143.7	3882.3	5499.1	7628.0	10715.8	24519.4	32597.3	32873.5	30570.9
67.5°	2650.2	2606.8	2969.9	3807.8	5620.1	6085.6	18142.0	30620.5	31632.2	30496.4
70°	2414.4	2377.1	2597.5	2827.1	4385.0	4074.7	9145.5	26620.3	28178.2	29649.2
72.5°	2045.1	1979.9	2280.9	2510.6	3410.6	3125.0	3779.9	20447.8	22347.0	26933.8
75°	1585.8	1542.4	1799.9	2209.6	2563.3	2439.2	2389.6	12416.4	14489.4	20829.5
77.5°	1256.8	1197.9	1433.7	1722.3	2305.8	1840.3	1741.0	5347.0	7401.4	13297.8
80°	946.5	893.8	1089.3	1362.4	1772.0	1387.2	1126.5	2181.6	2789.9	6737.3
82.5°	673.4	626.9	760.3	999.3	1191.7	1244.4	692.0	1222.7	1374.8	2597.5
85°	431.4	403.4	508.9	626.9	757.2	800.7	422.1	639.3	701.4	1070.6
87.5°	235.9	192.4	273.1	291.7	350.7	319.6	201.7	232.7	251.4	387.9
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°
6591.5	0°	6591.5	6591.5	6591.5	6591.5	6591.5	6591.5	6591.5	6591.5	6591.5	6591.5
6603.9	2.5°	6616.3	6625.6	6656.6	6665.9	6687.7	6715.6	6734.2	6752.8	6752.8	6771.5
6703.2	5°	6706.3	6728.0	6793.2	6827.3	6883.2	6939.0	6973.2	7013.5	7038.3	7050.8
6861.5	7.5°	6880.1	6914.2	7007.3	7066.3	7162.5	7240.1	7292.8	7348.7	7361.1	7395.2
7081.8	10°	7115.9	7156.3	7261.8	7373.5	7488.3	7584.5	7634.2	7674.5	7690.0	7696.2
7364.2	12.5°	7385.9	7444.9	7581.4	7718.0	7839.0	7922.8	7935.2	7925.9	7882.4	7845.2
7711.8	15°	7718.0	7770.7	7922.8	8071.8	8189.7	8205.2	8127.6	8078.0	8025.2	8015.9
8099.7	17.5°	8115.2	8143.1	8282.8	8428.6	8437.9	8385.2	8270.4	8223.8	8174.2	8140.0
8605.5	20°	8577.6	8568.3	8667.6	8729.7	8664.5	8503.1	8329.3	8251.7	8202.1	8161.7
9226.2	22.5°	9130.0	9058.6	9046.2	9030.7	8856.9	8518.6	8282.8	8183.5	8105.9	8050.0
10092.0	25°	9933.7	9660.7	9471.4	9365.8	8974.8	8434.8	8133.8	7913.5	7767.6	7671.4
11150.2	27.5°	10939.2	10479.9	10002.0	9744.4	8974.8	8264.2	7773.8	7416.9	7178.0	7078.7
12174.3	30°	11898.2	11417.1	10712.7	10200.6	8953.1	7984.9	7193.5	6697.0	6417.7	6318.4
13049.5	32.5°	12717.4	12193.0	11466.8	10700.3	8900.3	7531.8	6473.5	5924.2	5654.3	5536.3
13915.3	35°	13477.7	12919.1	12224.0	11249.6	8760.7	6867.7	5682.2	5263.2	4962.2	4772.9
14796.7	37.5°	14256.7	13592.6	12940.9	11746.1	8509.3	6091.8	5073.9	4717.1	4363.3	4108.8
15733.9	40°	15103.9	14309.4	13707.4	12040.9	8096.6	5353.2	4602.2	4276.4	3900.9	3630.9
16813.8	42.5°	16093.8	15169.1	14560.8	12193.0	7531.8	4828.8	4295.0	3975.4	3621.6	3401.2
17971.4	45°	17127.3	16115.6	15339.7	12189.9	6901.8	4583.6	4195.7	3879.2	3488.1	3258.5
19159.9	47.5°	18210.3	17105.5	16013.2	11991.3	6355.6	4617.7	4139.8	3671.2	3239.9	3016.4
20360.9	50°	19296.5	18188.6	16664.9	11618.9	6122.9	4543.3	3931.9	3379.5	2870.6	2668.9
21487.4	52.5°	20373.3	19339.9	17226.6	11088.2	5887.0	4267.1	3665.0	3000.9	2718.5	2578.9
22651.2	55°	21456.4	20478.8	17837.9	10315.5	5297.4	3944.3	3218.1	2858.2	2597.5	2470.2
23790.1	57.5°	22542.6	21794.7	18418.2	9542.7	4555.7	3547.1	2973.0	2684.4	2476.5	2367.8
24742.8	60°	23672.2	23299.8	19017.2	8832.1	3823.3	3038.2	2793.0	2544.7	2333.7	2212.7
25658.3	62.5°	24835.9	24956.9	19485.8	7916.6	3149.9	2727.8	2631.6	2377.1	2172.3	2057.5
26415.5	65°	26009.0	26555.2	19793.0	6647.3	2554.0	2433.0	2457.8	2194.1	1986.1	1886.8
26971.0	67.5°	26893.4	27706.5	19706.1	5030.5	2094.7	2153.7	2240.6	2001.6	1806.1	1728.6
26881.0	70°	26992.7	27569.9	18849.6	3444.7	1753.4	1880.6	1998.5	1812.3	1610.6	1554.8
25614.9	72.5°	25670.7	25708.0	16463.1	2249.9	1483.4	1651.0	1744.1	1619.9	1424.4	1368.6
22409.1	75°	22204.3	21260.9	12087.5	1483.4	1241.3	1418.2	1505.1	1418.2	1228.9	1241.3
16767.3	77.5°	16823.1	15057.3	7339.4	1055.1	1036.5	1191.7	1309.6	1247.5	1086.2	1219.6
8431.7	80°	8667.6	8146.2	3274.0	788.2	819.3	952.7	1076.9	996.2	859.6	819.3
1883.7	82.5°	1986.1	2308.9	1291.0	564.8	592.7	685.8	822.4	747.9	617.6	521.4
785.1	85°	695.1	760.3	571.0	353.8	347.6	428.3	558.6	499.6	418.9	335.2
332.1	87.5°	220.3	288.6	214.1	142.8	149.0	192.4	257.6	235.9	195.5	127.2
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>
6591.5
6771.5
7057.0
7382.8
7680.7
7845.2
8015.9
8143.1
8164.8
8068.6
7708.7
7128.3
6377.3
5595.3
4835.0
4177.1
3683.6
3444.7
3295.7
3047.5
2681.3
2578.9
2457.8
2349.2
2203.4
2054.4
1883.7
1731.7
1557.9
1365.5
1197.9
1073.8
747.9
515.2
353.8
133.4
0.0

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