

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: METALUX

Report Number: P600877

Luminaire Tested: **8SLSTPSLC-UNV-HI-3500K**

Issue Date: 7/7/2022



Test Information

Test Method: LM-79-08
Report Number: P600877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (220317012-01-002)
Test Lab: INNOVATION CENTER
Issue Date: 7/7/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SLSTPSLC-UNV-HI-3500K
Description: G3 8ft 8SLSTPSLC-UNV 85W at 3500K
Light Source: -
Ballast/Driver: -

Summary

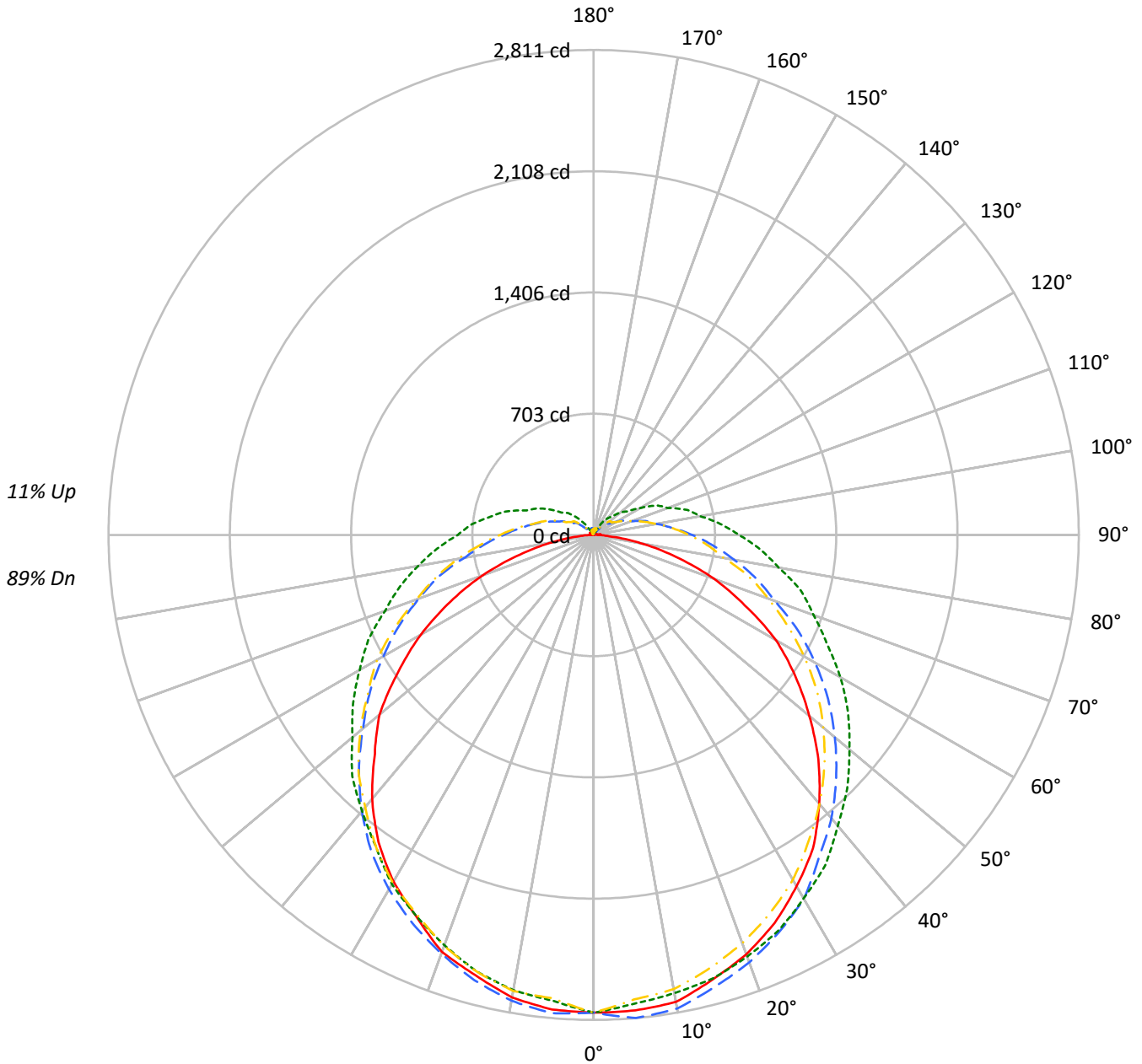
Lumens per Lamp: N/A
Luminaire Lumens: 10455.7 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.22' x L: 8' x H: 0.22')
CIE Type: Semi-Direct

Input Watts (W): 88.3
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89																			
1	104	98	93	88	100	95	90	86	88	85	81	83	80	77	77	75	73	70																			
2	94	84	77	70	90	82	75	69	76	70	65	71	66	62	66	63	59	56																			
3	85	73	65	58	81	71	63	56	66	60	54	62	56	52	58	53	49	47																			
4	77	65	55	48	74	63	54	47	59	51	45	55	49	44	52	46	42	39																			
5	71	58	48	41	68	56	47	40	52	45	39	49	43	38	46	41	36	34																			
6	65	52	42	36	63	50	41	35	47	40	34	44	38	33	42	36	32	29																			
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	26																			
8	56	42	34	28	54	41	33	27	39	32	27	37	30	26	35	29	25	23																			
9	53	39	31	25	51	38	30	24	36	29	24	34	28	23	32	27	22	20																			
10	49	36	28	22	47	35	27	22	33	26	22	31	25	21	30	24	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17284	17284	17284	17284
5°	17294	15708	17260	15615
10°	17338	14525	17172	14428
15°	17115	13560	16957	13340
20°	17015	12657	16916	12315
25°	16880	11879	16578	11426
30°	16689	11106	16464	10671
35°	16578	10470	16259	9855
40°	16205	9736	15913	9238
45°	15827	9156	15415	8717
50°	15343	8556	15242	8070
55°	14934	8053	14475	7613
60°	14545	7531	13794	7140
65°	13493	6987	12783	6754
70°	12560	6585	11612	6247
75°	10812	6322	9681	5917
80°	8709	5842	7531	5546
85°	4985	5574	4361	5223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.0	2.5
10°-20°	751.8	7.2
20°-30°	1145.7	11.0
30°-40°	1401.4	13.4
40°-50°	1492.8	14.3
50°-60°	1424.7	13.6
60°-70°	1226.0	11.7
70°-80°	944.2	9.0
80°-90°	659.2	6.3
90°-100°	448.7	4.3
100°-110°	298.7	2.9
110°-120°	187.4	1.8
120°-130°	111.1	1.1
130°-140°	57.7	0.6
140°-150°	22.7	0.2
150°-160°	12.4	0.1
160°-170°	7.4	0.1
170°-180°	1.9	0.0
0°-30°	2159.4	20.7
0°-40°	3560.8	34.1
0°-60°	6478.3	62.0
0°-90°	9307.7	89.0
90°-120°	934.7	8.9
90°-150°	1126.3	10.8
90°-180°	1148.0	11.0
0°-180°	10455.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2769	2769	2769	2769	2769	
5°	2766	2727	2761	2711	2766	263
15°	2668	2662	2643	2619	2668	754
25°	2482	2531	2437	2435	2482	1143
35°	2217	2339	2174	2202	2217	1382
45°	1841	2078	1793	1978	1841	1419
55°	1425	1800	1381	1702	1425	1276
65°	966	1491	916	1441	966	963
75°	494	1244	442	1164	494	529
85°	91	970	80	909	91	121
90°	22	842	9	787	22	24
95°	40	736	1	708	40	14
105°	5	561	11	526	5	6
115°	10	405	20	363	10	12
125°	13	237	11	225	13	12
135°	17	152	10	149	17	12
145°	15	98	14	12	15	8
155°	10	7	5	20	10	3
165°	12	28	16	35	12	3
175°	17	8	9	23	17	1
180°	17	17	17	17	17	



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0
5°	2766.5	2790.5	2720.9	2810.9	2801.9	2770.7	2726.9	2738.9	2746.7	2702.3	2758.7
10°	2748.5	2744.3	2686.1	2788.1	2765.9	2738.9	2696.9	2719.7	2708.9	2672.9	2732.9
15°	2667.6	2701.7	2653.8	2711.9	2714.3	2706.5	2662.2	2659.2	2649.6	2599.8	2671.2
20°	2586.6	2606.4	2574.0	2636.4	2652.0	2653.2	2601.0	2592.6	2572.8	2517.7	2561.4
25°	2481.7	2500.3	2472.7	2540.4	2544.6	2551.8	2531.4	2478.7	2479.3	2418.7	2446.9
30°	2351.6	2371.4	2346.2	2436.7	2445.7	2443.9	2433.1	2399.5	2381.6	2308.4	2338.4
35°	2216.7	2219.7	2238.3	2277.2	2317.4	2341.4	2339.0	2291.6	2262.8	2169.9	2163.3
40°	2033.8	2044.6	2080.6	2143.5	2172.3	2196.3	2200.5	2172.3	2118.3	2036.2	2010.4
45°	1841.3	1853.9	1925.3	1987.6	2035.0	2083.6	2077.6	2038.6	1990.6	1890.5	1840.1
50°	1630.9	1656.7	1743.0	1824.5	1892.3	1921.1	1934.3	1901.9	1837.1	1737.0	1636.3
55°	1425.2	1448.6	1567.9	1657.9	1727.4	1790.4	1800.0	1752.0	1677.6	1579.3	1445.6
60°	1219.6	1240.5	1350.3	1481.6	1567.3	1645.3	1651.3	1621.9	1503.8	1407.2	1270.5
65°	966.5	1049.3	1163.2	1303.5	1402.4	1516.3	1490.6	1464.8	1370.7	1236.3	1070.9
70°	739.3	819.6	965.3	1113.4	1268.7	1354.5	1355.1	1333.5	1232.1	1075.1	907.8
75°	493.5	623.0	796.2	974.3	1123.0	1212.4	1243.5	1194.4	1066.1	930.0	724.9
80°	279.4	392.1	623.6	826.2	971.3	1057.1	1087.0	1062.5	924.0	763.3	586.4
85°	91.1	270.4	480.9	691.9	848.4	953.3	970.1	913.2	820.8	659.5	434.1
90°	22.2	155.3	363.3	571.4	718.9	814.2	842.4	811.8	706.9	551.6	333.4
95°	40.2	110.3	286.0	456.3	620.0	697.3	735.7	716.5	605.6	455.7	274.6
100°	3.0	45.6	210.5	371.1	519.8	602.6	626.0	621.2	521.0	366.9	199.1
105°	4.8	64.8	146.3	311.8	426.3	531.8	561.2	519.8	425.7	295.6	131.3
110°	9.6	33.6	97.7	229.0	364.5	440.7	457.5	438.9	359.2	236.8	111.5
115°	10.2	27.6	98.3	197.9	280.0	359.8	404.7	340.6	269.8	191.9	101.3
120°	17.4	29.4	76.1	152.9	244.0	259.0	312.4	289.0	220.6	148.7	83.3
125°	13.2	25.2	72.0	119.3	172.1	227.2	237.4	229.6	188.9	126.5	60.6
130°	9.0	30.0	48.0	89.3	158.9	202.1	203.3	189.5	150.5	124.7	32.4
135°	17.4	26.4	36.6	71.4	131.3	150.5	151.7	153.5	125.9	91.7	25.8
140°	19.8	24.6	25.8	35.4	85.1	117.5	125.3	107.3	109.7	54.0	28.8
145°	15.0	28.8	42.6	23.4	44.4	91.7	98.3	103.1	68.4	18.0	38.4
150°	0.0	25.8	48.0	29.4	27.0	20.4	30.0	27.0	15.6	33.6	51.6
155°	10.2	9.0	40.8	29.4	32.4	14.4	7.2	24.0	22.2	35.4	40.2
160°	10.8	11.4	15.6	18.6	33.6	34.2	37.8	54.0	34.8	40.8	15.6
165°	12.0	21.0	13.2	17.4	37.2	19.8	27.6	43.2	28.2	15.6	28.8
170°	12.0	22.8	4.8	6.6	18.6	13.8	34.2	22.2	30.6	19.8	13.8
175°	16.8	23.4	16.8	15.0	31.2	25.2	8.4	1.8	18.0	39.0	0.0
180°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1



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CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0	2769.0
5°	2732.3	2761.1	2785.1	2741.3	2782.7	2787.5	2783.9	2710.7	2744.9	2739.5	2696.3
10°	2717.9	2722.1	2735.3	2687.9	2741.9	2747.9	2755.7	2678.9	2706.5	2715.5	2683.7
15°	2632.8	2643.0	2681.9	2622.0	2671.2	2684.9	2684.9	2619.0	2653.8	2635.8	2620.8
20°	2577.6	2571.6	2588.4	2544.6	2581.8	2587.2	2619.6	2530.8	2588.4	2583.0	2534.4
25°	2452.9	2437.3	2452.9	2452.9	2484.1	2503.9	2529.0	2434.9	2499.7	2482.3	2425.3
30°	2339.0	2319.8	2325.2	2333.6	2372.0	2382.8	2431.3	2337.8	2394.7	2374.4	2327.6
35°	2186.7	2174.1	2169.9	2205.3	2244.8	2252.0	2303.0	2201.7	2273.6	2235.3	2201.7
40°	1997.2	1997.2	2005.6	2057.8	2089.0	2130.9	2185.5	2087.8	2149.5	2109.9	2059.0
45°	1829.9	1793.4	1789.2	1874.9	1923.5	1975.6	2030.2	1978.0	2016.4	1959.4	1928.3
50°	1618.3	1620.1	1587.7	1669.2	1744.2	1821.5	1875.5	1824.5	1868.3	1828.7	1762.8
55°	1406.6	1381.4	1373.0	1490.0	1581.7	1684.2	1720.2	1701.6	1722.6	1698.6	1595.5
60°	1184.8	1156.6	1178.2	1304.7	1406.0	1528.3	1579.9	1565.5	1546.9	1512.8	1449.2
65°	971.3	915.6	966.5	1111.0	1243.5	1364.1	1421.0	1440.8	1417.4	1368.3	1270.5
70°	732.7	683.5	753.1	907.2	1075.1	1198.6	1265.7	1285.5	1271.7	1206.4	1090.0
75°	522.2	441.9	549.2	741.1	928.2	1047.5	1132.0	1163.8	1130.2	1079.3	943.7
80°	356.2	241.6	367.5	578.0	758.5	916.8	994.7	1031.9	1001.9	916.2	795.6
85°	228.4	79.7	227.8	429.3	634.4	793.9	870.6	909.0	880.8	806.4	657.1
90°	123.5	9.0	146.3	335.2	521.6	662.5	769.9	786.7	763.9	671.5	542.0
95°	85.1	0.6	84.5	235.0	429.9	573.8	658.9	708.1	675.7	580.4	446.7
100°	52.8	21.6	52.8	186.5	355.6	485.7	561.8	606.8	570.8	482.1	359.8
105°	46.8	11.4	49.2	151.7	289.0	393.3	477.9	526.4	488.7	415.5	302.8
110°	34.8	5.4	25.2	112.7	226.0	349.0	395.1	413.1	410.1	338.8	243.4
115°	28.2	19.8	0.0	99.5	185.3	277.6	318.4	363.3	344.2	271.0	173.9
120°	21.6	25.2	23.4	55.8	135.5	226.0	260.8	296.2	260.8	232.0	148.7
125°	33.0	10.8	39.0	17.4	124.1	194.9	226.0	225.4	227.2	187.7	139.1
130°	19.8	3.0	41.4	9.6	55.2	142.1	179.3	199.1	187.1	152.3	82.1
135°	25.2	10.2	24.6	29.4	24.0	89.3	158.3	149.3	158.9	112.7	15.6
140°	10.2	8.4	27.0	24.6	18.0	13.8	43.8	95.9	58.2	1.8	11.4
145°	36.6	14.4	33.6	45.0	23.4	31.2	25.2	12.0	29.4	0.6	3.6
150°	28.2	0.0	22.8	47.4	27.0	13.2	5.4	4.8	0.0	10.8	22.8
155°	25.8	4.8	42.6	44.4	28.2	52.2	32.4	20.4	33.0	37.8	29.4
160°	28.2	13.8	22.2	39.0	41.4	36.6	45.0	39.6	31.2	36.6	30.0
165°	36.0	16.2	11.4	35.4	33.6	33.6	28.8	35.4	25.8	33.6	12.0
170°	19.8	19.8	34.2	19.8	39.6	31.2	39.0	22.2	21.6	18.6	22.2
175°	14.4	9.0	21.6	16.2	23.4	19.2	27.6	22.8	24.6	17.4	35.4
180°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1



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CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2769.0	2769.0	2769.0
5°	2769.5	2744.3	2766.5
10°	2719.7	2719.7	2748.5
15°	2655.0	2677.7	2667.6
20°	2581.8	2589.6	2586.6
25°	2485.9	2485.9	2481.7
30°	2359.4	2365.4	2351.6
35°	2229.9	2223.9	2216.7
40°	2051.2	2055.4	2033.8
45°	1888.1	1891.1	1841.3
50°	1703.4	1687.2	1630.9
55°	1509.2	1480.4	1425.2
60°	1323.9	1244.1	1219.6
65°	1140.4	1033.7	966.5
70°	944.9	830.4	739.3
75°	757.9	590.6	493.5
80°	599.6	414.3	279.4
85°	470.1	244.6	91.1
90°	362.7	157.1	22.2
95°	269.2	79.1	40.2
100°	199.7	51.0	3.0
105°	145.7	46.8	4.8
110°	107.3	28.8	9.6
115°	104.3	33.0	10.2
120°	66.6	27.6	17.4
125°	21.0	40.2	13.2
130°	6.0	10.2	9.0
135°	33.0	23.4	17.4
140°	33.6	21.6	19.8
145°	30.6	36.0	15.0
150°	21.0	31.2	0.0
155°	33.6	22.2	10.2
160°	17.4	15.6	10.8
165°	28.2	22.8	12.0
170°	28.8	13.2	12.0
175°	8.4	11.4	16.8
180°	17.1	17.1	17.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°











(END OF REPORT)