

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: P600869

Luminaire Tested: **8SLSTPSLC-347-HI-4000K**

Issue Date: 7/7/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P600869  
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-347-HI-4000K  
Description: G3 8ft 8SLSTPSLC-347 85W at 4000K  
Light Source: -  
Ballast/Driver: -

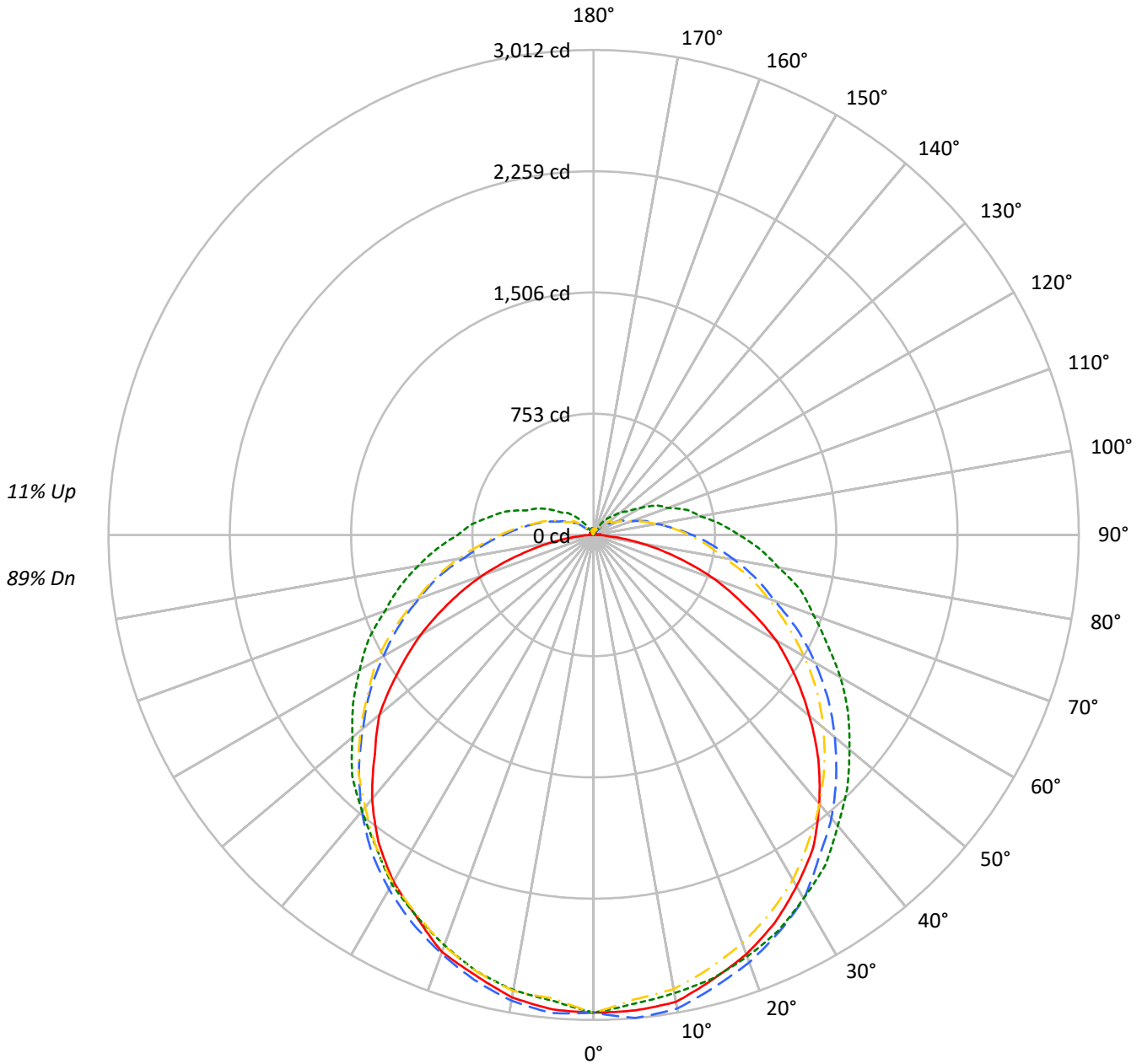
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11201.9 lumens  
Efficiency: N/A  
Efficacy: 134.0 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): 83.6  
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	67	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°	18518	18518	18518	18518
5°	18528	16830	18492	16729
10°	18576	15562	18398	15458
15°	18336	14527	18167	14291
20°	18229	13561	18124	13195
25°	18084	12727	17761	12241
30°	17880	11899	17639	11433
35°	17761	11217	17420	10559
40°	17362	10431	17049	9897
45°	16957	9810	16515	9340
50°	16439	9167	16329	8647
55°	15999	8627	15509	8156
60°	15582	8068	14779	7650
65°	14457	7486	13694	7235
70°	13457	7055	12441	6693
75°	11583	6774	10371	6340
80°	9332	6259	8070	5941
85°	5340	5972	4673	5596



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.7	2.5
10°-20°	805.4	7.2
20°-30°	1227.5	11.0
30°-40°	1501.5	13.4
40°-50°	1599.4	14.3
50°-60°	1526.3	13.6
60°-70°	1313.5	11.7
70°-80°	1011.6	9.0
80°-90°	706.2	6.3
90°-100°	480.7	4.3
100°-110°	320.0	2.9
110°-120°	200.7	1.8
120°-130°	119.1	1.1
130°-140°	61.8	0.6
140°-150°	24.3	0.2
150°-160°	13.3	0.1
160°-170°	7.9	0.1
170°-180°	2.0	0.0
0°-30°	2313.6	20.7
0°-40°	3815.0	34.1
0°-60°	6940.8	62.0
0°-90°	9972.1	89.0
90°-120°	1001.5	8.9
90°-150°	1206.6	10.8
90°-180°	1230.0	11.0
0°-180°	11201.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2967	2967	2967	2967	2967	
5°	2964	2922	2958	2904	2964	282
15°	2858	2852	2832	2806	2858	808
25°	2659	2712	2611	2609	2659	1225
35°	2375	2506	2329	2359	2375	1481
45°	1973	2226	1921	2119	1973	1520
55°	1527	1928	1480	1823	1527	1367
65°	1036	1597	981	1544	1036	1032
75°	529	1332	473	1247	529	567
85°	98	1039	85	974	98	130
90°	24	902	10	843	24	26
95°	43	788	1	759	43	15
105°	5	601	12	564	5	6
115°	11	434	21	389	11	13
125°	14	254	12	242	14	13
135°	19	162	11	160	19	13
145°	16	105	15	13	16	9
155°	11	8	5	22	11	4
165°	13	30	17	38	13	4
175°	18	9	10	24	18	2
180°	18	18	18	18	18	



TEST NUMBER: P600869

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**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7
5°	2964.0	2989.7	2915.1	3011.5	3001.9	2968.5	2921.6	2934.4	2942.8	2895.2	2955.6
10°	2944.7	2940.2	2877.9	2987.1	2963.3	2934.4	2889.4	2913.8	2902.3	2863.7	2928.0
15°	2858.0	2894.6	2843.2	2905.5	2908.1	2899.7	2852.2	2849.0	2838.7	2785.4	2861.8
20°	2771.2	2792.4	2757.8	2824.6	2841.3	2842.5	2786.7	2777.7	2756.5	2697.4	2744.3
25°	2658.8	2678.7	2649.2	2721.8	2726.3	2734.0	2712.1	2655.6	2656.3	2591.4	2621.6
30°	2519.4	2540.6	2513.6	2610.6	2620.3	2618.4	2606.8	2570.8	2551.5	2473.2	2505.3
35°	2374.9	2378.1	2398.0	2439.8	2482.8	2508.5	2505.9	2455.2	2424.4	2324.8	2317.7
40°	2179.0	2190.5	2229.1	2296.5	2327.4	2353.0	2357.5	2327.4	2269.5	2181.5	2153.9
45°	1972.8	1986.2	2062.7	2129.5	2180.2	2232.3	2225.9	2184.1	2132.7	2025.4	1971.5
50°	1747.3	1774.9	1867.4	1954.8	2027.4	2058.2	2072.3	2037.6	1968.3	1861.0	1753.1
55°	1526.9	1552.0	1679.8	1776.2	1850.7	1918.2	1928.4	1877.0	1797.4	1692.0	1548.8
60°	1306.6	1329.1	1446.6	1587.3	1679.2	1762.7	1769.1	1737.6	1611.1	1507.7	1361.2
65°	1035.5	1124.2	1246.2	1396.5	1502.5	1624.6	1597.0	1569.3	1468.5	1324.6	1147.3
70°	792.1	878.1	1034.2	1192.9	1359.3	1451.1	1451.8	1428.7	1320.1	1151.8	972.6
75°	528.7	667.4	853.1	1043.9	1203.2	1298.9	1332.3	1279.6	1142.2	996.3	776.6
80°	299.4	420.1	668.1	885.2	1040.7	1132.5	1164.6	1138.3	989.9	817.8	628.3
85°	97.6	289.7	515.2	741.3	909.0	1021.4	1039.4	978.3	879.4	706.6	465.1
90°	23.8	166.4	389.3	612.2	770.2	872.4	902.5	869.8	757.4	591.0	357.2
95°	43.0	118.2	306.4	488.9	664.2	747.1	788.2	767.6	648.8	488.2	294.2
100°	3.2	48.8	225.5	397.6	556.9	645.6	670.6	665.5	558.2	393.1	213.3
105°	5.1	69.4	156.7	334.0	456.7	569.8	601.3	556.9	456.1	316.7	140.7
110°	10.3	36.0	104.7	245.4	390.6	472.2	490.1	470.2	384.8	253.7	119.5
115°	10.9	29.5	105.4	212.0	300.0	385.4	433.6	364.9	289.1	205.6	108.6
120°	18.6	31.5	81.6	163.8	261.5	277.5	334.7	309.6	236.4	159.3	89.3
125°	14.1	27.0	77.1	127.8	184.4	243.5	254.4	246.0	202.4	135.5	64.9
130°	9.6	32.1	51.4	95.7	170.2	216.5	217.8	203.0	161.2	133.6	34.7
135°	18.6	28.3	39.2	76.4	140.7	161.2	162.5	164.4	134.9	98.3	27.6
140°	21.2	26.3	27.6	37.9	91.2	125.9	134.3	115.0	117.6	57.8	30.8
145°	16.1	30.8	45.6	25.1	47.5	98.3	105.4	110.5	73.2	19.3	41.1
150°	0.0	27.6	51.4	31.5	28.9	21.8	32.1	28.9	16.7	36.0	55.2
155°	10.9	9.6	43.7	31.5	34.7	15.4	7.7	25.7	23.8	37.9	43.0
160°	11.6	12.2	16.7	19.9	36.0	36.6	40.5	57.8	37.3	43.7	16.7
165°	12.8	22.5	14.1	18.6	39.8	21.2	29.5	46.3	30.2	16.7	30.8
170°	12.8	24.4	5.1	7.1	19.9	14.8	36.6	23.8	32.8	21.2	14.8
175°	18.0	25.1	18.0	16.1	33.4	27.0	9.0	1.9	19.3	41.8	0.0
180°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3



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**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7	2966.7
5°	2927.3	2958.2	2983.9	2937.0	2981.3	2986.4	2982.6	2904.2	2940.8	2935.0	2888.8
10°	2911.9	2916.4	2930.6	2879.8	2937.6	2944.0	2952.4	2870.2	2899.7	2909.4	2875.3
15°	2820.7	2831.6	2873.4	2809.1	2861.8	2876.6	2876.6	2805.9	2843.2	2823.9	2807.9
20°	2761.6	2755.2	2773.2	2726.3	2766.1	2771.9	2806.6	2711.5	2773.2	2767.4	2715.4
25°	2628.0	2611.3	2628.0	2628.0	2661.4	2682.6	2709.6	2608.7	2678.1	2659.5	2598.4
30°	2505.9	2485.4	2491.2	2500.2	2541.3	2552.8	2604.9	2504.7	2565.7	2543.8	2493.7
35°	2342.8	2329.3	2324.8	2362.7	2405.1	2412.8	2467.4	2358.8	2435.9	2394.8	2358.8
40°	2139.8	2139.8	2148.8	2204.7	2238.1	2283.0	2341.5	2236.8	2302.9	2260.5	2205.9
45°	1960.6	1921.4	1916.9	2008.7	2060.8	2116.7	2175.1	2119.2	2160.3	2099.3	2065.9
50°	1733.8	1735.7	1701.0	1788.4	1868.7	1951.6	2009.4	1954.8	2001.7	1959.3	1888.6
55°	1507.0	1480.1	1471.1	1596.3	1694.6	1804.5	1843.0	1823.1	1845.6	1819.9	1709.4
60°	1269.3	1239.2	1262.3	1397.8	1506.4	1637.4	1692.7	1677.3	1657.3	1620.7	1552.6
65°	1040.7	980.9	1035.5	1190.3	1332.3	1461.4	1522.4	1543.6	1518.6	1465.9	1361.2
70°	785.0	732.3	806.8	971.9	1151.8	1284.1	1356.1	1377.3	1362.5	1292.5	1167.9
75°	559.5	473.4	588.4	794.0	994.4	1122.2	1212.8	1246.9	1210.9	1156.3	1011.1
80°	381.6	258.9	393.8	619.3	812.6	982.2	1065.7	1105.5	1073.4	981.6	852.4
85°	244.7	85.4	244.1	459.9	679.6	850.5	932.7	973.9	943.7	864.0	704.1
90°	132.3	9.6	156.7	359.1	558.9	709.8	824.8	842.8	818.4	719.5	580.7
95°	91.2	0.6	90.6	251.8	460.6	614.8	706.0	758.7	724.0	621.8	478.6
100°	56.5	23.1	56.5	199.8	380.9	520.3	601.9	650.1	611.5	516.5	385.4
105°	50.1	12.2	52.7	162.5	309.6	421.4	512.0	564.0	523.5	445.2	324.4
110°	37.3	5.8	27.0	120.8	242.2	373.9	423.3	442.6	439.4	362.9	260.8
115°	30.2	21.2	0.0	106.6	198.5	297.4	341.1	389.3	368.7	290.4	186.3
120°	23.1	27.0	25.1	59.7	145.2	242.2	279.4	317.3	279.4	248.6	159.3
125°	35.3	11.6	41.8	18.6	133.0	208.8	242.2	241.5	243.5	201.1	149.0
130°	21.2	3.2	44.3	10.3	59.1	152.2	192.1	213.3	200.4	163.2	88.0
135°	27.0	10.9	26.3	31.5	25.7	95.7	169.6	160.0	170.2	120.8	16.7
140°	10.9	9.0	28.9	26.3	19.3	14.8	46.9	102.8	62.3	1.9	12.2
145°	39.2	15.4	36.0	48.2	25.1	33.4	27.0	12.8	31.5	0.6	3.9
150°	30.2	0.0	24.4	50.7	28.9	14.1	5.8	5.1	0.0	11.6	24.4
155°	27.6	5.1	45.6	47.5	30.2	55.9	34.7	21.8	35.3	40.5	31.5
160°	30.2	14.8	23.8	41.8	44.3	39.2	48.2	42.4	33.4	39.2	32.1
165°	38.5	17.3	12.2	37.9	36.0	36.0	30.8	37.9	27.6	36.0	12.8
170°	21.2	21.2	36.6	21.2	42.4	33.4	41.8	23.8	23.1	19.9	23.8
175°	15.4	9.6	23.1	17.3	25.1	20.6	29.5	24.4	26.3	18.6	37.9
180°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3



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**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	2966.7	2966.7	2966.7
5°	2967.2	2940.2	2964.0
10°	2913.8	2913.8	2944.7
15°	2844.5	2868.9	2858.0
20°	2766.1	2774.5	2771.2
25°	2663.3	2663.3	2658.8
30°	2527.8	2534.2	2519.4
35°	2389.0	2382.6	2374.9
40°	2197.6	2202.1	2179.0
45°	2022.9	2026.1	1972.8
50°	1825.0	1807.7	1747.3
55°	1616.9	1586.0	1526.9
60°	1418.4	1332.9	1306.6
65°	1221.8	1107.5	1035.5
70°	1012.4	889.7	792.1
75°	812.0	632.7	528.7
80°	642.4	443.9	299.4
85°	503.6	262.1	97.6
90°	388.6	168.3	23.8
95°	288.4	84.8	43.0
100°	213.9	54.6	3.2
105°	156.1	50.1	5.1
110°	115.0	30.8	10.3
115°	111.8	35.3	10.9
120°	71.3	29.5	18.6
125°	22.5	43.0	14.1
130°	6.4	10.9	9.6
135°	35.3	25.1	18.6
140°	36.0	23.1	21.2
145°	32.8	38.5	16.1
150°	22.5	33.4	0.0
155°	36.0	23.8	10.9
160°	18.6	16.7	11.6
165°	30.2	24.4	12.8
170°	30.8	14.1	12.8
175°	9.0	12.2	18.0
180°	18.3	18.3	18.3





Report Generated By 670246072 / DESKTOP-MV3F9LC





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











(END OF REPORT)