

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: P600870

Luminaire Tested: **8SLSTPSLC-347-HI-5000K**

Issue Date: 7/7/2022



Test Information

Test Method: LM-79-08
Report Number: P600870
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-5000K
Description: G3 8ft 8SLSTPSLC-347 85W at 5000K
Light Source: -
Ballast/Driver: -

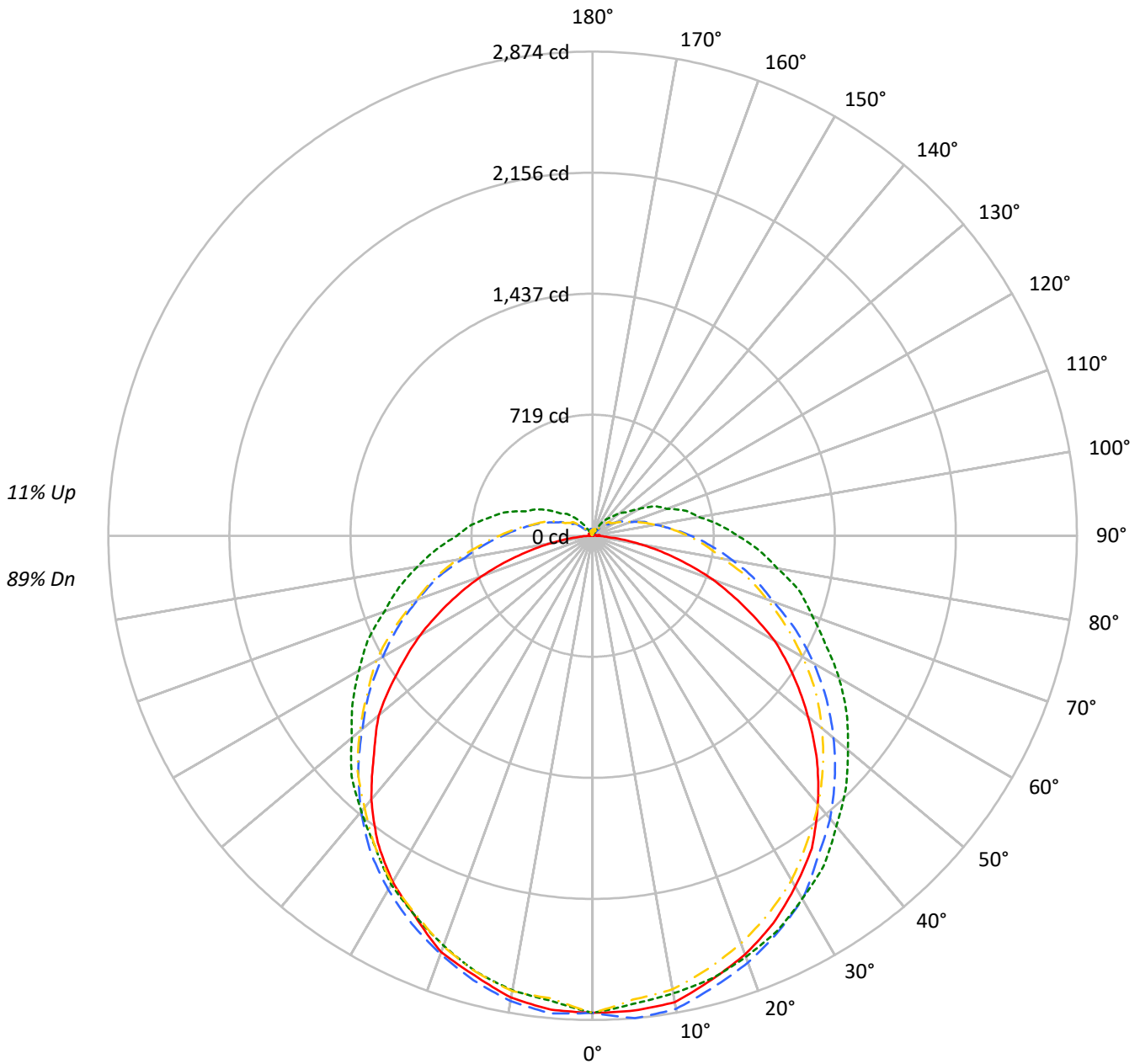
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10692.3 lumens
Efficiency: N/A
Efficacy: 124.2 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): 86.1
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: 25 FT

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Luminous Intensity Polar Plot





TEST NUMBER: P600870

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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°	17676	17676	17676	17676
5°	17685	16064	17651	15968
10°	17731	14854	17560	14755
15°	17502	13866	17341	13642
20°	17400	12944	17299	12594
25°	17262	12148	16953	11684
30°	17067	11357	16836	10912
35°	16953	10707	16627	10078
40°	16571	9957	16273	9446
45°	16185	9363	15764	8915
50°	15691	8750	15587	8253
55°	15272	8235	14803	7785
60°	14874	7701	14106	7302
65°	13799	7145	13072	6906
70°	12844	6733	11875	6388
75°	11055	6466	9900	6051
80°	8905	5975	7702	5671
85°	5100	5700	4465	5341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	2.5
10°-20°	768.8	7.2
20°-30°	1171.6	11.0
30°-40°	1433.1	13.4
40°-50°	1526.6	14.3
50°-60°	1456.9	13.6
60°-70°	1253.8	11.7
70°-80°	965.6	9.0
80°-90°	674.1	6.3
90°-100°	458.9	4.3
100°-110°	305.4	2.9
110°-120°	191.6	1.8
120°-130°	113.7	1.1
130°-140°	59.0	0.6
140°-150°	23.2	0.2
150°-160°	12.7	0.1
160°-170°	7.5	0.1
170°-180°	1.9	0.0
0°-30°	2208.3	20.7
0°-40°	3641.4	34.1
0°-60°	6625.0	62.0
0°-90°	9518.4	89.0
90°-120°	955.9	8.9
90°-150°	1151.7	10.8
90°-180°	1174.0	11.0
0°-180°	10692.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2832	2832	2832	2832	2832	
5°	2829	2789	2824	2772	2829	269
15°	2728	2722	2703	2678	2728	771
25°	2538	2589	2492	2490	2538	1169
35°	2267	2392	2223	2252	2267	1413
45°	1883	2125	1834	2023	1883	1451
55°	1458	1841	1413	1740	1458	1305
65°	988	1524	936	1473	988	985
75°	505	1272	452	1190	505	541
85°	93	992	82	930	93	124
90°	23	862	9	804	23	25
95°	41	752	1	724	41	14
105°	5	574	12	538	5	6
115°	10	414	20	372	10	12
125°	14	243	11	230	14	12
135°	18	155	10	153	18	12
145°	15	101	15	12	15	8
155°	10	7	5	21	10	4
165°	12	28	17	36	12	3
175°	17	9	9	23	17	1
180°	18	18	18	18	18	



TEST NUMBER: P600870

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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7
5°	2829.1	2853.6	2782.5	2874.5	2865.3	2833.4	2788.6	2800.9	2808.9	2763.5	2821.1
10°	2810.7	2806.4	2747.0	2851.2	2828.5	2800.9	2758.0	2781.3	2770.3	2733.5	2794.8
15°	2727.9	2762.9	2713.8	2773.3	2775.8	2767.8	2722.4	2719.4	2709.6	2658.7	2731.6
20°	2645.2	2665.4	2632.3	2696.1	2712.0	2713.2	2659.9	2651.3	2631.1	2574.7	2619.4
25°	2537.9	2556.9	2528.7	2598.0	2602.2	2609.6	2588.8	2534.8	2535.4	2473.5	2502.3
30°	2404.8	2425.0	2399.3	2491.9	2501.1	2499.2	2488.2	2453.9	2435.5	2360.7	2391.3
35°	2266.8	2269.9	2288.9	2328.8	2369.9	2394.4	2391.9	2343.5	2314.1	2219.0	2212.3
40°	2079.8	2090.9	2127.7	2192.0	2221.5	2246.0	2250.3	2221.5	2166.3	2082.3	2055.9
45°	1883.0	1895.9	1968.9	2032.6	2081.1	2130.7	2124.6	2084.7	2035.7	1933.3	1881.8
50°	1667.8	1694.2	1782.5	1865.8	1935.1	1964.6	1978.1	1944.9	1878.7	1776.3	1673.3
55°	1457.5	1481.4	1603.4	1695.4	1766.5	1830.9	1840.7	1791.7	1715.6	1615.1	1478.3
60°	1247.2	1268.6	1380.8	1515.1	1602.8	1682.5	1688.6	1658.6	1537.8	1439.1	1299.3
65°	988.4	1073.0	1189.5	1333.0	1434.2	1550.7	1524.3	1497.9	1401.7	1264.3	1095.1
70°	756.0	838.2	987.2	1138.6	1297.4	1385.1	1385.7	1363.7	1260.0	1099.4	928.3
75°	504.6	637.1	814.3	996.4	1148.4	1239.8	1271.7	1221.4	1090.2	951.0	741.3
80°	285.7	401.0	637.7	844.9	993.3	1081.0	1111.7	1086.5	944.9	780.6	599.7
85°	93.2	276.5	491.8	707.6	867.6	974.9	992.1	933.8	839.4	674.5	443.9
90°	22.7	158.8	371.6	584.3	735.2	832.7	861.5	830.2	722.9	564.1	340.9
95°	41.1	112.8	292.5	466.6	634.0	713.1	752.3	732.7	619.3	466.0	280.8
100°	3.1	46.6	215.2	379.5	531.6	616.2	640.1	635.2	532.8	375.3	203.6
105°	4.9	66.2	149.6	318.8	436.0	543.9	573.9	531.6	435.3	302.3	134.3
110°	9.8	34.3	99.9	234.2	372.8	450.7	467.8	448.8	367.3	242.2	114.0
115°	10.4	28.2	100.6	202.3	286.3	367.9	413.9	348.3	275.9	196.2	103.6
120°	17.8	30.0	77.9	156.4	249.6	264.9	319.5	295.5	225.6	152.1	85.2
125°	13.5	25.8	73.6	122.0	176.0	232.4	242.8	234.8	193.1	129.4	61.9
130°	9.2	30.7	49.1	91.4	162.5	206.6	207.9	193.8	153.9	127.5	33.1
135°	17.8	27.0	37.4	73.0	134.3	153.9	155.1	157.0	128.8	93.8	26.4
140°	20.2	25.1	26.4	36.2	87.1	120.2	128.1	109.8	112.2	55.2	29.4
145°	15.3	29.4	43.5	23.9	45.4	93.8	100.6	105.5	69.9	18.4	39.2
150°	0.0	26.4	49.1	30.0	27.6	20.8	30.7	27.6	15.9	34.3	52.7
155°	10.4	9.2	41.7	30.0	33.1	14.7	7.4	24.5	22.7	36.2	41.1
160°	11.0	11.6	15.9	19.0	34.3	34.9	38.6	55.2	35.6	41.7	15.9
165°	12.3	21.5	13.5	17.8	38.0	20.2	28.2	44.1	28.8	15.9	29.4
170°	12.3	23.3	4.9	6.7	19.0	14.1	34.9	22.7	31.3	20.2	14.1
175°	17.2	23.9	17.2	15.3	31.9	25.8	8.6	1.8	18.4	39.9	0.0
180°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5



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CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7	2831.7
5°	2794.2	2823.6	2848.1	2803.4	2845.7	2850.6	2846.9	2772.1	2807.0	2801.5	2757.4
10°	2779.5	2783.7	2797.2	2748.8	2804.0	2810.1	2818.1	2739.6	2767.8	2777.0	2744.5
15°	2692.4	2702.8	2742.7	2681.3	2731.6	2745.7	2745.7	2678.3	2713.8	2695.4	2680.1
20°	2636.0	2629.8	2647.0	2602.2	2640.3	2645.8	2678.9	2588.1	2647.0	2641.5	2591.8
25°	2508.4	2492.5	2508.4	2508.4	2540.3	2560.6	2586.3	2490.0	2556.3	2538.5	2480.2
30°	2391.9	2372.3	2377.8	2386.4	2425.7	2436.7	2486.4	2390.7	2449.0	2428.1	2380.3
35°	2236.2	2223.3	2219.0	2255.2	2295.7	2303.0	2355.1	2251.5	2325.1	2285.9	2251.5
40°	2042.4	2042.4	2051.0	2104.4	2136.2	2179.2	2235.0	2135.0	2198.2	2157.7	2105.6
45°	1871.4	1834.0	1829.7	1917.3	1967.0	2020.4	2076.2	2022.8	2062.1	2003.8	1971.9
50°	1654.9	1656.8	1623.6	1707.0	1783.7	1862.8	1918.0	1865.8	1910.6	1870.1	1802.7
55°	1438.5	1412.7	1404.1	1523.7	1617.5	1722.4	1759.2	1740.1	1761.6	1737.1	1631.6
60°	1211.6	1182.8	1204.9	1334.2	1437.9	1562.9	1615.7	1601.0	1582.0	1547.0	1482.0
65°	993.3	936.3	988.4	1136.2	1271.7	1394.9	1453.2	1473.4	1449.5	1399.2	1299.3
70°	749.3	699.0	770.1	927.7	1099.4	1225.7	1294.4	1314.6	1300.5	1233.7	1114.7
75°	534.1	451.9	561.7	757.9	949.2	1071.2	1157.6	1190.1	1155.8	1103.7	965.1
80°	364.2	247.1	375.9	591.1	775.6	937.5	1017.2	1055.2	1024.6	936.9	813.7
85°	233.6	81.6	233.0	439.0	648.7	811.8	890.3	929.5	900.7	824.7	672.0
90°	126.3	9.2	149.6	342.8	533.4	677.5	787.3	804.5	781.2	686.7	554.3
95°	87.1	0.6	86.5	240.4	439.6	586.8	673.9	724.1	691.0	593.5	456.8
100°	54.0	22.1	54.0	190.7	363.6	496.7	574.5	620.5	583.7	493.0	367.9
105°	47.8	11.6	50.3	155.1	295.5	402.2	488.7	538.4	499.7	424.9	309.6
110°	35.6	5.5	25.8	115.3	231.2	356.9	404.1	422.5	419.4	346.4	248.9
115°	28.8	20.2	0.0	101.8	189.5	283.9	325.6	371.6	352.0	277.1	177.8
120°	22.1	25.8	23.9	57.0	138.6	231.2	266.7	302.9	266.7	237.3	152.1
125°	33.7	11.0	39.9	17.8	126.9	199.3	231.2	230.5	232.4	191.9	142.3
130°	20.2	3.1	42.3	9.8	56.4	145.3	183.3	203.6	191.3	155.7	84.0
135°	25.8	10.4	25.1	30.0	24.5	91.4	161.9	152.7	162.5	115.3	15.9
140°	10.4	8.6	27.6	25.1	18.4	14.1	44.8	98.1	59.5	1.8	11.6
145°	37.4	14.7	34.3	46.0	23.9	31.9	25.8	12.3	30.0	0.6	3.7
150°	28.8	0.0	23.3	48.4	27.6	13.5	5.5	4.9	0.0	11.0	23.3
155°	26.4	4.9	43.5	45.4	28.8	53.3	33.1	20.8	33.7	38.6	30.0
160°	28.8	14.1	22.7	39.9	42.3	37.4	46.0	40.5	31.9	37.4	30.7
165°	36.8	16.6	11.6	36.2	34.3	34.3	29.4	36.2	26.4	34.3	12.3
170°	20.2	20.2	34.9	20.2	40.5	31.9	39.9	22.7	22.1	19.0	22.7
175°	14.7	9.2	22.1	16.6	23.9	19.6	28.2	23.3	25.1	17.8	36.2
180°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5



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CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2831.7	2831.7	2831.7
5°	2832.2	2806.4	2829.1
10°	2781.3	2781.3	2810.7
15°	2715.1	2738.4	2727.9
20°	2640.3	2648.2	2645.2
25°	2542.2	2542.2	2537.9
30°	2412.8	2418.9	2404.8
35°	2280.3	2274.2	2266.8
40°	2097.6	2101.9	2079.8
45°	1930.8	1933.9	1883.0
50°	1742.0	1725.4	1667.8
55°	1543.3	1513.9	1457.5
60°	1353.9	1272.3	1247.2
65°	1166.2	1057.1	988.4
70°	966.3	849.2	756.0
75°	775.0	604.0	504.6
80°	613.2	423.7	285.7
85°	480.7	250.2	93.2
90°	371.0	160.6	22.7
95°	275.3	80.9	41.1
100°	204.2	52.1	3.1
105°	149.0	47.8	4.9
110°	109.8	29.4	9.8
115°	106.7	33.7	10.4
120°	68.1	28.2	17.8
125°	21.5	41.1	13.5
130°	6.1	10.4	9.2
135°	33.7	23.9	17.8
140°	34.3	22.1	20.2
145°	31.3	36.8	15.3
150°	21.5	31.9	0.0
155°	34.3	22.7	10.4
160°	17.8	15.9	11.0
165°	28.8	23.3	12.3
170°	29.4	13.5	12.3
175°	8.6	11.6	17.2
180°	17.5	17.5	17.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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











(END OF REPORT)