

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: P600878

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

Issue Date: 7/7/2022



Test Information

Test Method: LM-79-08
Report Number: P600878
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-4000K
Description: G3 8ft 8SLSTPSLC-UNV 85W at 4000K
Light Source: -
Ballast/Driver: -

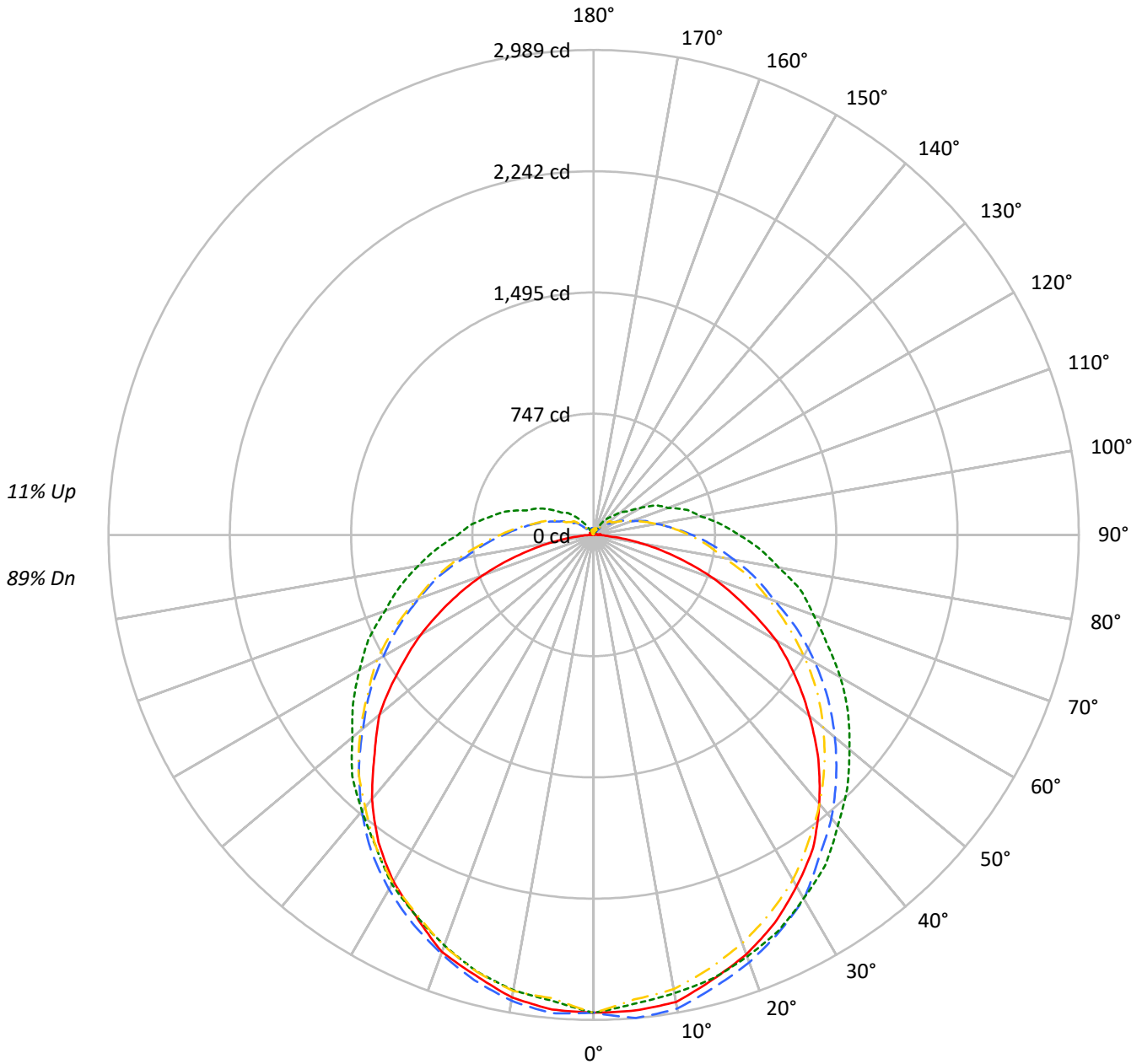
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11118.6 lumens
Efficiency: N/A
Efficacy: 130.2 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): 85.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	18380	18380	18380	18380
5°	18390	16704	18355	16605
10°	18438	15446	18261	15343
15°	18200	14419	18032	14185
20°	18093	13459	17989	13096
25°	17950	12632	17629	12150
30°	17747	11810	17508	11347
35°	17629	11134	17290	10480
40°	17232	10353	16923	9823
45°	16831	9737	16392	9270
50°	16316	9098	16208	8582
55°	15881	8563	15393	8096
60°	15467	8009	14668	7593
65°	14349	7430	13592	7182
70°	13357	7002	12349	6643
75°	11495	6724	10295	6292
80°	9260	6213	8011	5897
85°	5302	5927	4640	5554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.6	2.5
10°-20°	799.4	7.2
20°-30°	1218.3	11.0
30°-40°	1490.3	13.4
40°-50°	1587.5	14.3
50°-60°	1515.0	13.6
60°-70°	1303.8	11.7
70°-80°	1004.1	9.0
80°-90°	701.0	6.3
90°-100°	477.2	4.3
100°-110°	317.6	2.9
110°-120°	199.2	1.8
120°-130°	118.2	1.1
130°-140°	61.3	0.6
140°-150°	24.1	0.2
150°-160°	13.2	0.1
160°-170°	7.8	0.1
170°-180°	2.0	0.0
0°-30°	2296.3	20.7
0°-40°	3786.6	34.1
0°-60°	6889.1	62.0
0°-90°	9897.9	89.0
90°-120°	994.0	8.9
90°-150°	1197.7	10.8
90°-180°	1221.0	11.0
0°-180°	11118.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2945	2945	2945	2945	2945	
5°	2942	2900	2936	2883	2942	280
15°	2837	2831	2810	2785	2837	802
25°	2639	2692	2592	2589	2639	1216
35°	2357	2487	2312	2341	2357	1469
45°	1958	2209	1907	2103	1958	1509
55°	1516	1914	1469	1810	1516	1357
65°	1028	1585	974	1532	1028	1024
75°	525	1322	470	1238	525	563
85°	97	1032	85	967	97	129
90°	24	896	10	836	24	26
95°	43	782	1	753	43	15
105°	5	597	12	560	5	6
115°	11	430	21	386	11	12
125°	14	252	12	240	14	13
135°	18	161	11	159	18	13
145°	16	105	15	13	16	8
155°	11	8	5	22	11	4
165°	13	29	17	38	13	4
175°	18	9	10	24	18	2
180°	18	18	18	18	18	



TEST NUMBER: P600878

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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6
5°	2941.9	2967.4	2893.4	2989.1	2979.5	2946.4	2899.8	2912.6	2920.9	2873.7	2933.6
10°	2922.8	2918.3	2856.5	2964.8	2941.3	2912.6	2867.9	2892.2	2880.7	2842.4	2906.2
15°	2836.7	2873.0	2822.0	2883.9	2886.4	2878.1	2831.0	2827.8	2817.6	2764.6	2840.5
20°	2750.6	2771.7	2737.2	2803.5	2820.1	2821.4	2765.9	2757.0	2735.9	2677.3	2723.8
25°	2639.0	2658.8	2629.5	2701.5	2706.0	2713.6	2692.0	2635.8	2636.5	2572.1	2602.1
30°	2500.7	2521.7	2494.9	2591.2	2600.8	2598.9	2587.4	2551.7	2532.6	2454.8	2486.6
35°	2357.2	2360.4	2380.2	2421.6	2464.3	2489.8	2487.3	2436.9	2406.3	2307.5	2300.5
40°	2162.7	2174.2	2212.5	2279.4	2310.0	2335.5	2340.0	2310.0	2252.6	2165.3	2137.9
45°	1958.1	1971.5	2047.3	2113.6	2164.0	2215.7	2209.3	2167.8	2116.8	2010.4	1956.8
50°	1734.3	1761.7	1853.5	1940.2	2012.3	2042.9	2056.9	2022.5	1953.6	1847.1	1740.0
55°	1515.6	1540.4	1667.3	1763.0	1836.9	1903.9	1914.1	1863.1	1784.0	1679.4	1537.3
60°	1296.9	1319.2	1435.9	1575.5	1666.7	1749.6	1756.0	1724.7	1599.1	1496.5	1351.1
65°	1027.8	1115.8	1236.9	1386.1	1491.4	1612.5	1585.1	1557.7	1457.6	1314.7	1138.8
70°	786.2	871.6	1026.5	1184.0	1349.2	1440.3	1441.0	1418.0	1310.3	1143.2	965.3
75°	524.7	662.5	846.7	1036.1	1194.2	1289.2	1322.4	1270.1	1133.7	988.9	770.9
80°	297.1	417.0	663.1	878.6	1032.9	1124.1	1156.0	1129.8	982.5	811.7	623.6
85°	96.9	287.6	511.4	735.8	902.2	1013.8	1031.6	971.1	872.9	701.4	461.6
90°	23.6	165.1	386.4	607.6	764.5	865.9	895.8	863.3	751.7	586.6	354.5
95°	42.7	117.3	304.1	485.2	659.3	741.5	782.3	761.9	644.0	484.6	292.0
100°	3.2	48.5	223.8	394.7	552.8	640.8	665.7	660.6	554.1	390.2	211.7
105°	5.1	68.9	155.6	331.6	453.3	565.6	596.8	552.8	452.7	314.3	139.6
110°	10.2	35.7	103.9	243.6	387.7	468.6	486.5	466.7	381.9	251.9	118.6
115°	10.8	29.3	104.6	210.4	297.8	382.6	430.4	362.2	286.9	204.0	107.8
120°	18.5	31.2	81.0	162.6	259.5	275.4	332.2	307.3	234.6	158.1	88.6
125°	14.0	26.8	76.5	126.9	183.0	241.7	252.5	244.2	200.8	134.5	64.4
130°	9.6	31.9	51.0	95.0	169.0	214.9	216.1	201.5	160.0	132.6	34.4
135°	18.5	28.1	38.9	75.9	139.6	160.0	161.3	163.2	133.9	97.6	27.4
140°	21.0	26.1	27.4	37.6	90.5	125.0	133.3	114.1	116.7	57.4	30.6
145°	15.9	30.6	45.3	24.9	47.2	97.6	104.6	109.7	72.7	19.1	40.8
150°	0.0	27.4	51.0	31.2	28.7	21.7	31.9	28.7	16.6	35.7	54.8
155°	10.8	9.6	43.4	31.2	34.4	15.3	7.7	25.5	23.6	37.6	42.7
160°	11.5	12.1	16.6	19.8	35.7	36.3	40.2	57.4	37.0	43.4	16.6
165°	12.8	22.3	14.0	18.5	39.5	21.0	29.3	45.9	30.0	16.6	30.6
170°	12.8	24.2	5.1	7.0	19.8	14.7	36.3	23.6	32.5	21.0	14.7
175°	17.9	24.9	17.9	15.9	33.2	26.8	8.9	1.9	19.1	41.4	0.0
180°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2



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CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6	2944.6
5°	2905.6	2936.2	2961.7	2915.1	2959.1	2964.2	2960.4	2882.6	2918.9	2913.2	2867.3
10°	2890.2	2894.7	2908.7	2858.4	2915.8	2922.1	2930.4	2848.8	2878.1	2887.7	2853.9
15°	2799.7	2810.5	2852.0	2788.2	2840.5	2855.2	2855.2	2785.0	2822.0	2802.9	2787.0
20°	2741.0	2734.7	2752.5	2706.0	2745.5	2751.3	2785.7	2691.3	2752.5	2746.8	2695.1
25°	2608.4	2591.9	2608.4	2608.4	2641.6	2662.6	2689.4	2589.3	2658.2	2639.7	2579.1
30°	2487.3	2466.9	2472.6	2481.5	2522.4	2533.8	2585.5	2486.0	2546.6	2524.9	2475.2
35°	2325.3	2311.9	2307.5	2345.1	2387.2	2394.8	2449.0	2341.3	2417.8	2377.0	2341.3
40°	2123.9	2123.9	2132.8	2188.2	2221.4	2266.0	2324.1	2220.1	2285.8	2243.7	2189.5
45°	1946.0	1907.1	1902.6	1993.8	2045.4	2100.9	2158.9	2103.4	2144.3	2083.7	2050.5
50°	1720.9	1722.8	1688.4	1775.1	1854.8	1937.0	1994.4	1940.2	1986.8	1944.7	1874.5
55°	1495.8	1469.0	1460.1	1584.4	1682.0	1791.0	1829.3	1809.5	1831.8	1806.3	1696.7
60°	1259.9	1229.9	1252.9	1387.4	1495.2	1625.2	1680.1	1664.8	1645.0	1608.7	1541.1
65°	1032.9	973.6	1027.8	1181.5	1322.4	1450.5	1511.1	1532.2	1507.3	1455.0	1351.1
70°	779.1	726.9	800.8	964.7	1143.2	1274.6	1346.0	1367.0	1352.4	1282.9	1159.2
75°	555.4	469.9	584.0	788.1	987.0	1113.9	1203.8	1237.6	1201.9	1147.7	1003.6
80°	378.7	257.0	390.9	614.6	806.6	974.9	1057.8	1097.3	1065.4	974.3	846.1
85°	242.9	84.8	242.3	456.5	674.6	844.2	925.8	966.6	936.6	857.6	698.8
90°	131.3	9.6	155.6	356.4	554.7	704.5	818.7	836.5	812.3	714.1	576.4
95°	90.5	0.6	89.9	249.9	457.2	610.2	700.7	753.0	718.6	617.2	475.0
100°	56.1	23.0	56.1	198.3	378.1	516.5	597.4	645.3	607.0	512.6	382.6
105°	49.7	12.1	52.3	161.3	307.3	418.3	508.2	559.8	519.6	441.9	322.0
110°	37.0	5.7	26.8	119.9	240.4	371.1	420.2	439.3	436.1	360.2	258.9
115°	30.0	21.0	0.0	105.8	197.0	295.2	338.6	386.4	366.0	288.2	184.9
120°	23.0	26.8	24.9	59.3	144.1	240.4	277.4	315.0	277.4	246.8	158.1
125°	35.1	11.5	41.4	18.5	132.0	207.2	240.4	239.7	241.7	199.6	147.9
130°	21.0	3.2	44.0	10.2	58.7	151.1	190.6	211.7	198.9	162.0	87.4
135°	26.8	10.8	26.1	31.2	25.5	95.0	168.3	158.8	169.0	119.9	16.6
140°	10.8	8.9	28.7	26.1	19.1	14.7	46.5	102.0	61.8	1.9	12.1
145°	38.9	15.3	35.7	47.8	24.9	33.2	26.8	12.8	31.2	0.6	3.8
150°	30.0	0.0	24.2	50.4	28.7	14.0	5.7	5.1	0.0	11.5	24.2
155°	27.4	5.1	45.3	47.2	30.0	55.5	34.4	21.7	35.1	40.2	31.2
160°	30.0	14.7	23.6	41.4	44.0	38.9	47.8	42.1	33.2	38.9	31.9
165°	38.3	17.2	12.1	37.6	35.7	35.7	30.6	37.6	27.4	35.7	12.8
170°	21.0	21.0	36.3	21.0	42.1	33.2	41.4	23.6	23.0	19.8	23.6
175°	15.3	9.6	23.0	17.2	24.9	20.4	29.3	24.2	26.1	18.5	37.6
180°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2



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CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2944.6	2944.6	2944.6
5°	2945.1	2918.3	2941.9
10°	2892.2	2892.2	2922.8
15°	2823.3	2847.5	2836.7
20°	2745.5	2753.8	2750.6
25°	2643.5	2643.5	2639.0
30°	2509.0	2515.3	2500.7
35°	2371.2	2364.9	2357.2
40°	2181.2	2185.7	2162.7
45°	2007.8	2011.0	1958.1
50°	1811.4	1794.2	1734.3
55°	1604.8	1574.2	1515.6
60°	1407.8	1323.0	1296.9
65°	1212.7	1099.2	1027.8
70°	1004.9	883.1	786.2
75°	805.9	628.0	524.7
80°	637.6	440.6	297.1
85°	499.9	260.1	96.9
90°	385.7	167.1	23.6
95°	286.3	84.2	42.7
100°	212.3	54.2	3.2
105°	154.9	49.7	5.1
110°	114.1	30.6	10.2
115°	110.9	35.1	10.8
120°	70.8	29.3	18.5
125°	22.3	42.7	14.0
130°	6.4	10.8	9.6
135°	35.1	24.9	18.5
140°	35.7	23.0	21.0
145°	32.5	38.3	15.9
150°	22.3	33.2	0.0
155°	35.7	23.6	10.8
160°	18.5	16.6	11.5
165°	30.0	24.2	12.8
170°	30.6	14.0	12.8
175°	8.9	12.1	17.9
180°	18.2	18.2	18.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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











(END OF REPORT)