

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: P600859

Luminaire Tested: **4SLSTPSLC-UNV-HI-3500K**

Issue Date: 7/7/2022



Test Information

Test Method: LM-79-08
Report Number: P600859
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: 4SLSTPSLC-UNV-HI-3500K
Description: G3 4ft 4SLSTPSLC-UNV 45W at 3500K
Light Source: -
Ballast/Driver: -

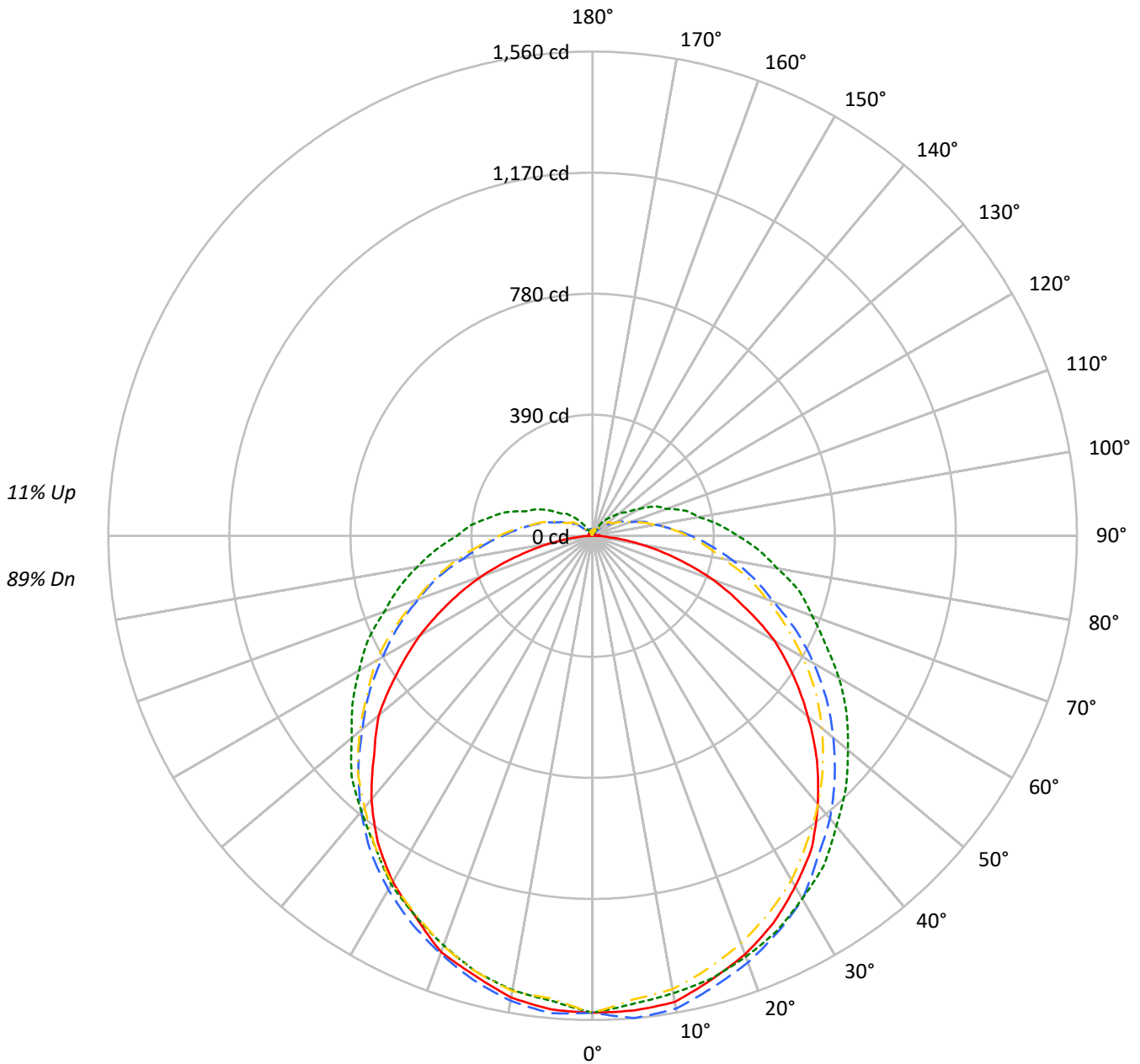
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5801.8 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.22' x L: 4' x H: 0.22')
CIE Type: Semi-Direct

Input Watts (W): 48.1
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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19182	19182	19182	19182
5°	19147	17433	19110	17330
10°	19151	16120	18967	16012
15°	18858	15048	18685	14804
20°	18701	14047	18592	13668
25°	18503	13183	18172	12680
30°	18242	12325	17994	11842
35°	18062	11620	17715	10937
40°	17593	10805	17277	10252
45°	17113	10161	16668	9674
50°	16513	9495	16404	8956
55°	15979	8937	15490	8449
60°	15450	8358	14653	7924
65°	14197	7754	13448	7495
70°	13037	7307	12055	6932
75°	10990	7017	9842	6567
80°	8529	6484	7379	6155
85°	4480	6186	3922	5796



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	2.5
10°-20°	417.1	7.2
20°-30°	635.7	11.0
30°-40°	777.6	13.4
40°-50°	828.4	14.3
50°-60°	790.5	13.6
60°-70°	680.3	11.7
70°-80°	523.9	9.0
80°-90°	365.8	6.3
90°-100°	249.0	4.3
100°-110°	165.7	2.9
110°-120°	104.0	1.8
120°-130°	61.7	1.1
130°-140°	32.0	0.6
140°-150°	12.6	0.2
150°-160°	6.9	0.1
160°-170°	4.1	0.1
170°-180°	1.0	0.0
0°-30°	1198.2	20.7
0°-40°	1975.9	34.1
0°-60°	3594.8	62.0
0°-90°	5164.8	89.0
90°-120°	518.7	8.9
90°-150°	625.0	10.8
90°-180°	637.0	11.0
0°-180°	5801.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1536	1536	1536	1536	1536	
5°	1535	1513	1532	1504	1535	146
15°	1480	1477	1467	1453	1480	419
25°	1377	1405	1352	1351	1377	634
35°	1230	1298	1206	1222	1230	767
45°	1022	1153	995	1098	1022	787
55°	791	999	767	944	791	708
65°	536	827	508	800	536	535
75°	274	690	245	646	274	294
85°	51	538	44	504	51	67
90°	12	468	5	436	12	13
95°	22	408	0	393	22	8
105°	3	311	6	292	3	3
115°	6	225	11	202	6	7
125°	7	132	6	125	7	7
135°	10	84	6	83	10	7
145°	8	55	8	7	8	4
155°	6	4	3	11	6	2
165°	7	15	9	20	7	2
175°	9	5	5	13	9	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5
5°	1535.1	1548.4	1509.8	1559.7	1554.7	1537.4	1513.2	1519.8	1524.1	1499.5	1530.8
10°	1525.1	1522.8	1490.5	1547.1	1534.8	1519.8	1496.5	1509.2	1503.2	1483.2	1516.5
15°	1480.2	1499.2	1472.6	1504.8	1506.2	1501.8	1477.2	1475.6	1470.2	1442.6	1482.2
20°	1435.3	1446.3	1428.3	1462.9	1471.6	1472.2	1443.3	1438.6	1427.6	1397.0	1421.3
25°	1377.1	1387.4	1372.1	1409.7	1412.0	1416.0	1404.7	1375.4	1375.7	1342.1	1357.8
30°	1304.9	1315.9	1301.9	1352.1	1357.1	1356.1	1350.1	1331.5	1321.5	1280.9	1297.6
35°	1230.0	1231.7	1242.0	1263.6	1285.9	1299.2	1297.9	1271.6	1255.6	1204.1	1200.4
40°	1128.5	1134.5	1154.5	1189.4	1205.4	1218.7	1221.0	1205.4	1175.5	1129.9	1115.6
45°	1021.7	1028.7	1068.3	1102.9	1129.2	1156.2	1152.8	1131.2	1104.6	1049.0	1021.1
50°	905.0	919.3	967.2	1012.4	1050.0	1066.0	1073.3	1055.3	1019.4	963.9	908.0
55°	790.8	803.8	870.0	919.9	958.5	993.5	998.8	972.2	930.9	876.4	802.2
60°	676.7	688.4	749.3	822.1	869.7	912.9	916.3	900.0	834.4	780.9	705.0
65°	536.3	582.2	645.5	723.3	778.2	841.4	827.1	812.8	760.6	686.0	594.2
70°	410.2	454.8	535.7	617.8	704.0	751.6	751.9	739.9	683.7	596.5	503.7
75°	273.8	345.7	441.8	540.6	623.2	672.7	690.0	662.8	591.6	516.0	402.2
80°	155.0	217.6	346.0	458.5	539.0	586.6	603.2	589.6	512.7	423.5	325.4
85°	50.6	150.1	266.8	383.9	470.8	529.0	538.3	506.7	455.5	366.0	240.9
90°	12.3	86.2	201.6	317.1	398.9	451.8	467.5	450.5	392.3	306.1	185.0
95°	22.3	61.2	158.7	253.2	344.0	386.9	408.2	397.6	336.0	252.9	152.4
100°	1.7	25.3	116.8	205.9	288.5	334.4	347.3	344.7	289.1	203.6	110.5
105°	2.7	35.9	81.2	173.0	236.6	295.1	311.4	288.5	236.2	164.0	72.9
110°	5.3	18.6	54.2	127.1	202.3	244.5	253.9	243.5	199.3	131.4	61.9
115°	5.7	15.3	54.6	109.8	155.4	199.6	224.6	189.0	149.7	106.5	56.2
120°	9.6	16.3	42.3	84.8	135.4	143.7	173.3	160.4	122.4	82.5	46.2
125°	7.3	14.0	39.9	66.2	95.5	126.1	131.8	127.4	104.8	70.2	33.6
130°	5.0	16.6	26.6	49.6	88.2	112.1	112.8	105.1	83.5	69.2	18.0
135°	9.6	14.6	20.3	39.6	72.9	83.5	84.2	85.2	69.9	50.9	14.3
140°	11.0	13.6	14.3	19.6	47.2	65.2	69.5	59.6	60.9	29.9	16.0
145°	8.3	16.0	23.6	13.0	24.6	50.9	54.6	57.2	37.9	10.0	21.3
150°	0.0	14.3	26.6	16.3	15.0	11.3	16.6	15.0	8.7	18.6	28.6
155°	5.7	5.0	22.6	16.3	18.0	8.0	4.0	13.3	12.3	19.6	22.3
160°	6.0	6.3	8.7	10.3	18.6	19.0	21.0	29.9	19.3	22.6	8.7
165°	6.7	11.6	7.3	9.6	20.6	11.0	15.3	24.0	15.6	8.7	16.0
170°	6.7	12.6	2.7	3.7	10.3	7.7	19.0	12.3	17.0	11.0	7.7
175°	9.3	13.0	9.3	8.3	17.3	14.0	4.7	1.0	10.0	21.6	0.0
180°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5



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CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5
5°	1516.1	1532.1	1545.4	1521.1	1544.1	1546.8	1544.8	1504.2	1523.1	1520.1	1496.2
10°	1508.2	1510.5	1517.8	1491.5	1521.5	1524.8	1529.1	1486.5	1501.8	1506.8	1489.2
15°	1460.9	1466.6	1488.2	1454.9	1482.2	1489.9	1489.9	1453.3	1472.6	1462.6	1454.3
20°	1430.3	1427.0	1436.3	1412.0	1432.6	1435.6	1453.6	1404.4	1436.3	1433.3	1406.4
25°	1361.1	1352.5	1361.1	1361.1	1378.4	1389.4	1403.4	1351.1	1387.1	1377.4	1345.8
30°	1297.9	1287.2	1290.2	1294.9	1316.2	1322.2	1349.1	1297.2	1328.8	1317.5	1291.6
35°	1213.4	1206.4	1204.1	1223.7	1245.7	1249.6	1277.9	1221.7	1261.6	1240.3	1221.7
40°	1108.2	1108.2	1112.9	1141.9	1159.2	1182.4	1212.7	1158.5	1192.8	1170.8	1142.5
45°	1015.4	995.1	992.8	1040.4	1067.3	1096.3	1126.5	1097.6	1118.9	1087.3	1070.0
50°	898.0	899.0	881.0	926.3	967.8	1010.8	1040.7	1012.4	1036.7	1014.8	978.2
55°	780.5	766.6	761.9	826.8	877.7	934.6	954.5	944.2	955.9	942.6	885.3
60°	657.4	641.8	653.8	724.0	780.2	848.1	876.7	868.7	858.4	839.4	804.2
65°	539.0	508.0	536.3	616.5	690.0	756.9	788.5	799.5	786.5	759.2	705.0
70°	406.6	379.3	417.9	503.4	596.5	665.1	702.3	713.3	705.7	669.4	604.9
75°	289.8	245.2	304.8	411.2	515.0	581.2	628.2	645.8	627.2	598.9	523.7
80°	197.6	134.1	203.9	320.7	420.9	508.7	552.0	572.6	556.0	508.4	441.5
85°	126.8	44.3	126.4	238.2	352.0	440.5	483.1	504.4	488.7	447.5	364.6
90°	68.5	5.0	81.2	186.0	289.5	367.6	427.2	436.5	423.9	372.6	300.8
95°	47.2	0.3	46.9	130.4	238.6	318.4	365.6	392.9	375.0	322.1	247.9
100°	29.3	12.0	29.3	103.5	197.3	269.5	311.7	336.7	316.7	267.5	199.6
105°	26.0	6.3	27.3	84.2	160.4	218.3	265.2	292.1	271.2	230.6	168.0
110°	19.3	3.0	14.0	62.5	125.4	193.6	219.3	229.2	227.6	188.0	135.1
115°	15.6	11.0	0.0	55.2	102.8	154.0	176.7	201.6	191.0	150.4	96.5
120°	12.0	14.0	13.0	30.9	75.2	125.4	144.7	164.4	144.7	128.8	82.5
125°	18.3	6.0	21.6	9.6	68.9	108.1	125.4	125.1	126.1	104.1	77.2
130°	11.0	1.7	23.0	5.3	30.6	78.9	99.5	110.5	103.8	84.5	45.6
135°	14.0	5.7	13.6	16.3	13.3	49.6	87.8	82.8	88.2	62.5	8.7
140°	5.7	4.7	15.0	13.6	10.0	7.7	24.3	53.2	32.3	1.0	6.3
145°	20.3	8.0	18.6	25.0	13.0	17.3	14.0	6.7	16.3	0.3	2.0
150°	15.6	0.0	12.6	26.3	15.0	7.3	3.0	2.7	0.0	6.0	12.6
155°	14.3	2.7	23.6	24.6	15.6	28.9	18.0	11.3	18.3	21.0	16.3
160°	15.6	7.7	12.3	21.6	23.0	20.3	25.0	22.0	17.3	20.3	16.6
165°	20.0	9.0	6.3	19.6	18.6	18.6	16.0	19.6	14.3	18.6	6.7
170°	11.0	11.0	19.0	11.0	22.0	17.3	21.6	12.3	12.0	10.3	12.3
175°	8.0	5.0	12.0	9.0	13.0	10.6	15.3	12.6	13.6	9.6	19.6
180°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5



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CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1536.5	1536.5	1536.5
5°	1536.8	1522.8	1535.1
10°	1509.2	1509.2	1525.1
15°	1473.2	1485.9	1480.2
20°	1432.6	1437.0	1435.3
25°	1379.4	1379.4	1377.1
30°	1309.2	1312.5	1304.9
35°	1237.3	1234.0	1230.0
40°	1138.2	1140.5	1128.5
45°	1047.7	1049.4	1021.7
50°	945.2	936.2	905.0
55°	837.4	821.5	790.8
60°	734.6	690.4	676.7
65°	632.8	573.6	536.3
70°	524.3	460.8	410.2
75°	420.5	327.7	273.8
80°	332.7	229.9	155.0
85°	260.8	135.7	50.6
90°	201.3	87.2	12.3
95°	149.4	43.9	22.3
100°	110.8	28.3	1.7
105°	80.8	26.0	2.7
110°	59.6	16.0	5.3
115°	57.9	18.3	5.7
120°	36.9	15.3	9.6
125°	11.6	22.3	7.3
130°	3.3	5.7	5.0
135°	18.3	13.0	9.6
140°	18.6	12.0	11.0
145°	17.0	20.0	8.3
150°	11.6	17.3	0.0
155°	18.6	12.3	5.7
160°	9.6	8.7	6.0
165°	15.6	12.6	6.7
170°	16.0	7.3	6.7
175°	4.7	6.3	9.3
180°	9.5	9.5	9.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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











(END OF REPORT)