

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: P#

Luminaire Tested: **4SRL-LD5-54SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35653)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SRL-LD5-54SL-LW-UNV-L850-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

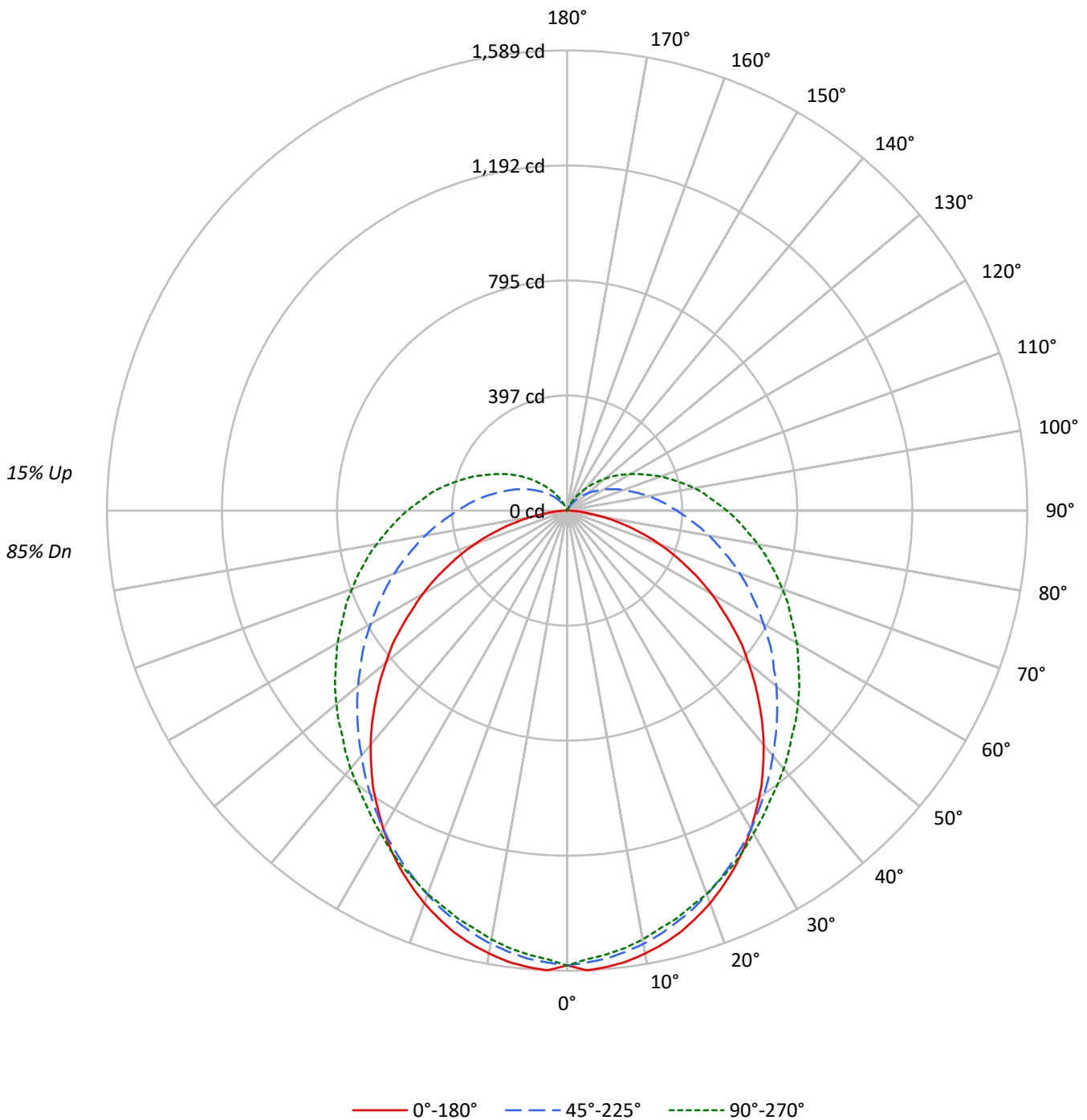
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6044.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 3.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 47
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									70									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	116	116	116	116	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	103	97	92	87	98	93	88	84	86	82	79	80	76	74	74	71	69	66																			
2	92	83	75	69	88	80	73	67	74	68	63	68	64	59	63	59	56	53																			
3	84	72	63	56	80	70	61	55	64	58	52	60	54	49	55	51	47	44																			
4	76	64	54	47	73	61	53	46	57	50	44	53	47	42	49	44	40	37																			
5	70	57	47	40	67	55	46	39	51	43	38	47	41	36	44	38	34	32																			
6	65	51	42	35	62	49	40	34	46	38	33	43	36	31	40	34	30	27																			
7	60	46	37	31	57	44	36	30	42	34	29	39	32	28	36	31	26	24																			
8	56	42	33	27	53	41	32	27	38	31	26	36	29	25	33	28	24	21																			
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	31	25	21	19																			
10	49	35	27	22	47	34	27	22	32	25	21	30	24	20	29	23	19	17																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18445	18445	18445
5°	18575	17531	17144
10°	18368	16636	16039
15°	18109	15741	15041
20°	17733	14901	14167
25°	17303	14097	13368
30°	16770	13334	12603
35°	16227	12594	11942
40°	15585	11907	11437
45°	14871	11310	10942
50°	14156	10765	10584
55°	13369	10291	10243
60°	12542	9825	9983
65°	11509	9439	9728
70°	10371	9141	9577
75°	8817	8865	9485
80°	6656	8723	9454
85°	3795	8661	9496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	2.4
10°-20°	417.1	6.9
20°-30°	622.9	10.3
30°-40°	746.6	12.4
40°-50°	789.8	13.1
50°-60°	762.7	12.6
60°-70°	678.4	11.2
70°-80°	557.8	9.2
80°-90°	426.6	7.1
90°-100°	320.8	5.3
100°-110°	234.1	3.9
110°-120°	160.4	2.7
120°-130°	100.1	1.7
130°-140°	53.4	0.9
140°-150°	21.4	0.4
150°-160°	4.1	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1187.8	19.7
0°-40°	1934.4	32.0
0°-60°	3486.9	57.7
0°-90°	5149.7	85.2
90°-120°	715.3	11.8
90°-150°	890.2	14.7
90°-180°	894.0	14.8
0°-180°	6044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1582	1573	1553	1551	1539	150
15°	1508	1492	1470	1470	1458	425
25°	1364	1350	1344	1359	1352	627
35°	1168	1164	1188	1222	1222	729
45°	936	963	1024	1082	1098	723
55°	695	758	864	950	977	623
65°	455	558	707	817	851	452
75°	227	376	563	691	729	241
85°	43	232	434	565	608	52
90°	0	178	378	509	551	2
95°	0	137	331	457	495	0
105°	0	86	243	356	392	0
115°	0	52	173	268	295	0
125°	0	32	117	189	212	0
135°	0	16	72	119	133	0
145°	0	4	32	61	70	0
155°	0	0	4	16	16	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.8	1570.8	1570.8	1570.8	1570.8
2.5°	1588.8	1579.8	1561.8	1559.6	1550.6
5°	1582.1	1573.1	1552.8	1550.6	1539.3
7.5°	1570.8	1559.6	1537.1	1534.8	1523.6
10°	1552.8	1541.6	1519.1	1516.8	1503.3
12.5°	1532.6	1521.3	1496.6	1494.3	1478.6
15°	1507.8	1492.1	1469.6	1469.6	1458.3
17.5°	1476.3	1462.8	1442.6	1444.8	1431.3
20°	1442.6	1429.1	1411.0	1417.8	1408.8
22.5°	1404.3	1388.5	1377.3	1386.3	1379.5
25°	1363.8	1350.3	1343.5	1359.3	1352.5
27.5°	1318.8	1305.3	1307.5	1323.3	1321.0
30°	1269.3	1260.3	1269.3	1289.5	1287.3
32.5°	1217.5	1213.0	1228.8	1255.8	1255.8
35°	1168.0	1163.5	1188.3	1222.0	1222.0
37.5°	1111.7	1114.0	1147.7	1186.0	1192.8
40°	1055.5	1064.5	1105.0	1152.2	1163.5
42.5°	997.0	1012.7	1064.5	1116.2	1132.0
45°	936.2	963.2	1024.0	1082.5	1098.2
47.5°	877.7	911.4	983.5	1051.0	1071.2
50°	816.9	857.4	942.9	1017.2	1039.7
52.5°	760.7	807.9	900.2	983.5	1010.5
55°	695.4	758.4	864.2	949.7	976.7
57.5°	632.4	706.6	823.7	915.9	945.2
60°	576.1	654.9	783.2	884.4	915.9
62.5°	515.4	605.4	744.9	850.7	882.2
65°	454.6	558.1	706.6	816.9	850.7
67.5°	398.3	508.6	670.6	785.4	823.7
70°	339.8	463.6	634.6	753.9	789.9
72.5°	283.6	418.6	598.6	720.2	760.7
75°	227.3	375.8	562.6	690.9	729.2
77.5°	173.3	335.3	528.9	659.4	699.9
80°	123.8	297.1	497.4	627.9	668.4
82.5°	78.8	261.1	465.8	596.4	636.9
85°	42.8	231.8	434.3	564.9	607.6
87.5°	15.8	200.3	405.1	537.9	580.6
90°	0.0	177.8	378.1	508.6	551.4
92.5°	0.0	155.3	353.3	481.6	522.1
95°	0.0	137.3	330.8	456.8	495.1
97.5°	0.0	121.5	308.3	432.1	472.6
100°	0.0	108.0	285.8	405.1	445.6
102.5°	0.0	94.5	263.3	380.3	418.6
105°	0.0	85.5	243.1	355.6	391.6
107.5°	0.0	76.5	225.0	335.3	366.8
110°	0.0	67.5	207.0	310.6	344.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	60.8	191.3	290.3	317.3
115°	0.0	51.8	173.3	267.8	294.8
117.5°	0.0	47.3	159.8	247.6	272.3
120°	0.0	40.5	144.0	227.3	252.1
122.5°	0.0	36.0	130.5	207.0	231.8
125°	0.0	31.5	117.0	189.0	211.5
127.5°	0.0	27.0	105.8	171.0	191.3
130°	0.0	22.5	92.3	153.0	171.0
132.5°	0.0	18.0	81.0	135.0	153.0
135°	0.0	15.8	72.0	119.3	132.8
137.5°	0.0	11.3	60.8	103.5	117.0
140°	0.0	9.0	51.8	90.0	99.0
142.5°	0.0	6.8	40.5	74.3	85.5
145°	0.0	4.5	31.5	60.8	69.8
147.5°	0.0	2.3	22.5	49.5	54.0
150°	0.0	2.3	15.8	38.3	40.5
152.5°	0.0	0.0	11.3	27.0	27.0
155°	0.0	0.0	4.5	15.8	15.8
157.5°	2.3	0.0	2.3	6.8	6.8
160°	2.3	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)