

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: **8SRL-LD5-54SL-LW-UNV-L840-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: 8SRL-LD5-54SL-LW-UNV-L840-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

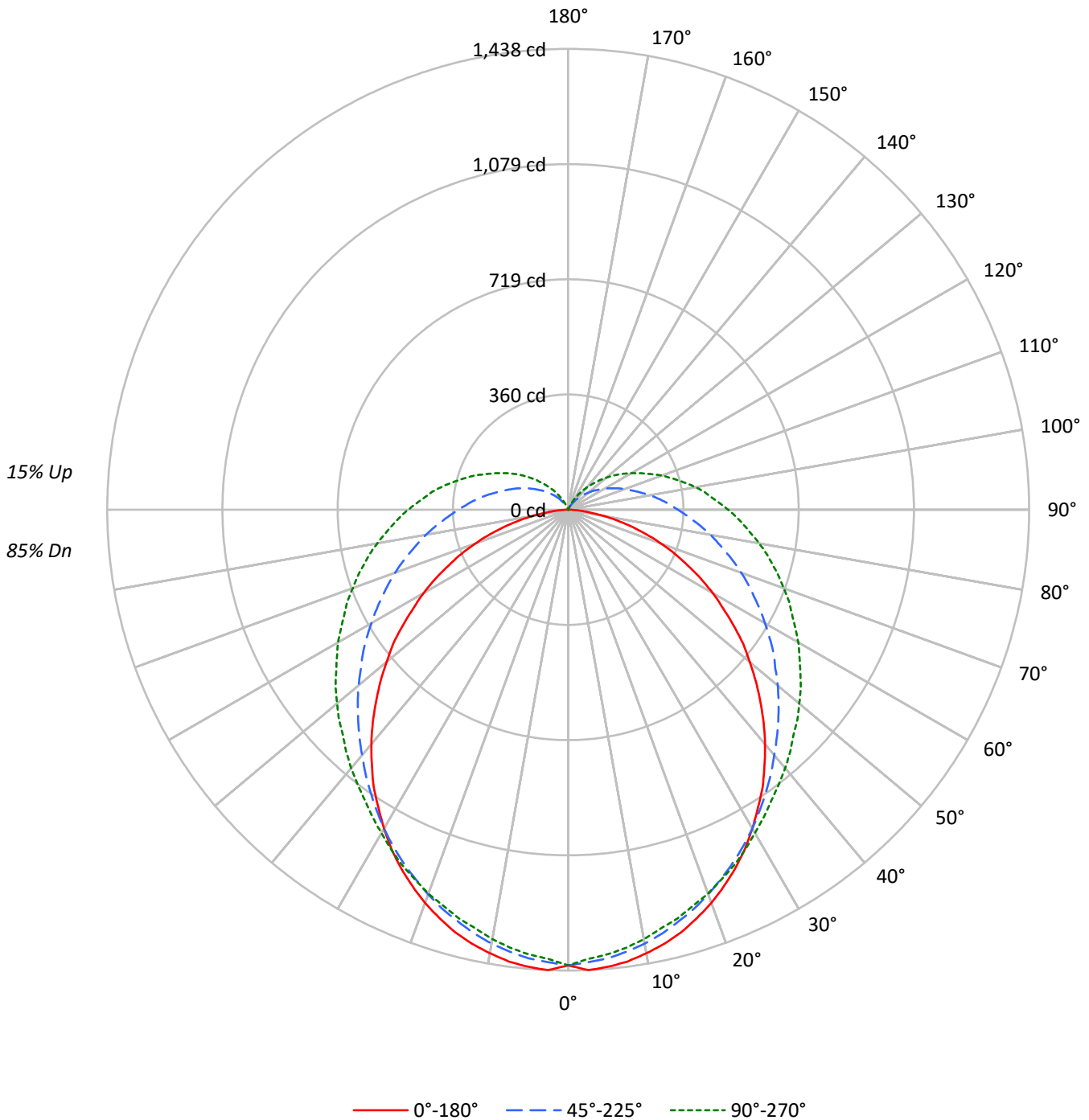
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5470.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 7.33' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 40.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P#  
CATALOG NUMBER: 8SRL-LD5-54SL-LW-UNV-L840-CD1-U

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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°	8347	8347	8347
5°	8422	7944	7758
10°	8345	7548	7258
15°	8244	7150	6806
20°	8090	6776	6411
25°	7912	6418	6049
30°	7687	6077	5703
35°	7458	5746	5404
40°	7184	5439	5175
45°	6879	5173	4951
50°	6575	4931	4790
55°	6240	4720	4635
60°	5891	4513	4518
65°	5450	4343	4402
70°	4968	4215	4334
75°	4301	4097	4292
80°	3354	4042	4278
85°	2069	4029	4297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.7	2.4
10°-20°	377.5	6.9
20°-30°	563.8	10.3
30°-40°	675.7	12.4
40°-50°	714.8	13.1
50°-60°	690.3	12.6
60°-70°	614.0	11.2
70°-80°	504.8	9.2
80°-90°	386.1	7.1
90°-100°	290.3	5.3
100°-110°	211.9	3.9
110°-120°	145.1	2.7
120°-130°	90.6	1.7
130°-140°	48.3	0.9
140°-150°	19.4	0.4
150°-160°	3.7	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1075.0	19.7
0°-40°	1750.7	32.0
0°-60°	3155.7	57.7
0°-90°	4660.6	85.2
90°-120°	647.4	11.8
90°-150°	805.7	14.7
90°-180°	809.0	14.8
0°-180°	5470.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1432	1424	1405	1403	1393	136
15°	1365	1350	1330	1330	1320	384
25°	1234	1222	1216	1230	1224	568
35°	1057	1053	1075	1106	1106	660
45°	847	872	927	980	994	654
55°	629	686	782	860	884	563
65°	411	505	640	739	770	409
75°	206	340	509	625	660	218
85°	39	210	393	511	550	47
90°	0	161	342	460	499	2
95°	0	124	299	414	448	0
105°	0	77	220	322	354	0
115°	0	47	157	242	267	0
125°	0	28	106	171	192	0
135°	0	14	65	108	120	0
145°	0	4	28	55	63	0
155°	0	0	4	14	14	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#

CATALOG NUMBER: 8SRL-LD5-54SL-LW-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1421.7	1421.7	1421.7	1421.7	1421.7
2.5°	1437.9	1429.8	1413.5	1411.5	1403.3
5°	1431.8	1423.7	1405.4	1403.3	1393.1
7.5°	1421.7	1411.5	1391.1	1389.1	1378.9
10°	1405.4	1395.2	1374.8	1372.8	1360.5
12.5°	1387.0	1376.8	1354.4	1352.4	1338.1
15°	1364.6	1350.4	1330.0	1330.0	1319.8
17.5°	1336.1	1323.9	1305.6	1307.6	1295.4
20°	1305.6	1293.3	1277.0	1283.2	1275.0
22.5°	1270.9	1256.7	1246.5	1254.6	1248.5
25°	1234.3	1222.0	1215.9	1230.2	1224.1
27.5°	1193.5	1181.3	1183.4	1197.6	1195.6
30°	1148.7	1140.6	1148.7	1167.1	1165.0
32.5°	1101.9	1097.8	1112.1	1136.5	1136.5
35°	1057.1	1053.0	1075.4	1106.0	1106.0
37.5°	1006.2	1008.2	1038.7	1073.4	1079.5
40°	955.2	963.4	1000.0	1042.8	1053.0
42.5°	902.3	916.5	963.4	1010.2	1024.5
45°	847.3	871.7	926.7	979.7	993.9
47.5°	794.3	824.9	890.1	951.2	969.5
50°	739.3	776.0	853.4	920.6	941.0
52.5°	688.4	731.2	814.7	890.1	914.5
55°	629.4	686.4	782.1	859.5	883.9
57.5°	572.3	639.5	745.4	829.0	855.4
60°	521.4	592.7	708.8	800.4	829.0
62.5°	466.4	547.9	674.2	769.9	798.4
65°	411.4	505.1	639.5	739.3	769.9
67.5°	360.5	460.3	607.0	710.8	745.4
70°	307.5	419.6	574.4	682.3	714.9
72.5°	256.6	378.8	541.8	651.8	688.4
75°	205.7	340.1	509.2	625.3	659.9
77.5°	156.8	303.5	478.6	596.8	633.4
80°	112.0	268.9	450.1	568.3	604.9
82.5°	71.3	236.3	421.6	539.7	576.4
85°	38.7	209.8	393.1	511.2	549.9
87.5°	14.3	181.3	366.6	486.8	525.5
90°	0.0	160.9	342.2	460.3	499.0
92.5°	0.0	140.5	319.8	435.9	472.5
95°	0.0	124.2	299.4	413.5	448.1
97.5°	0.0	110.0	279.0	391.1	427.7
100°	0.0	97.8	258.7	366.6	403.3
102.5°	0.0	85.5	238.3	344.2	378.8
105°	0.0	77.4	220.0	321.8	354.4
107.5°	0.0	69.2	203.7	303.5	332.0
110°	0.0	61.1	187.4	281.1	311.6



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-54SL-LW-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	55.0	173.1	262.7	287.2
115°	0.0	46.8	156.8	242.4	266.8
117.5°	0.0	42.8	144.6	224.0	246.4
120°	0.0	36.7	130.4	205.7	228.1
122.5°	0.0	32.6	118.1	187.4	209.8
125°	0.0	28.5	105.9	171.1	191.5
127.5°	0.0	24.4	95.7	154.8	173.1
130°	0.0	20.4	83.5	138.5	154.8
132.5°	0.0	16.3	73.3	122.2	138.5
135°	0.0	14.3	65.2	107.9	120.2
137.5°	0.0	10.2	55.0	93.7	105.9
140°	0.0	8.1	46.8	81.5	89.6
142.5°	0.0	6.1	36.7	67.2	77.4
145°	0.0	4.1	28.5	55.0	63.1
147.5°	0.0	2.0	20.4	44.8	48.9
150°	0.0	2.0	14.3	34.6	36.7
152.5°	0.0	0.0	10.2	24.4	24.4
155°	0.0	0.0	4.1	14.3	14.3
157.5°	2.0	0.0	2.0	6.1	6.1
160°	2.0	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)