

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-LD5-74SL-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: 8SRL-LD5-74SL-LW-UNV-L850-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

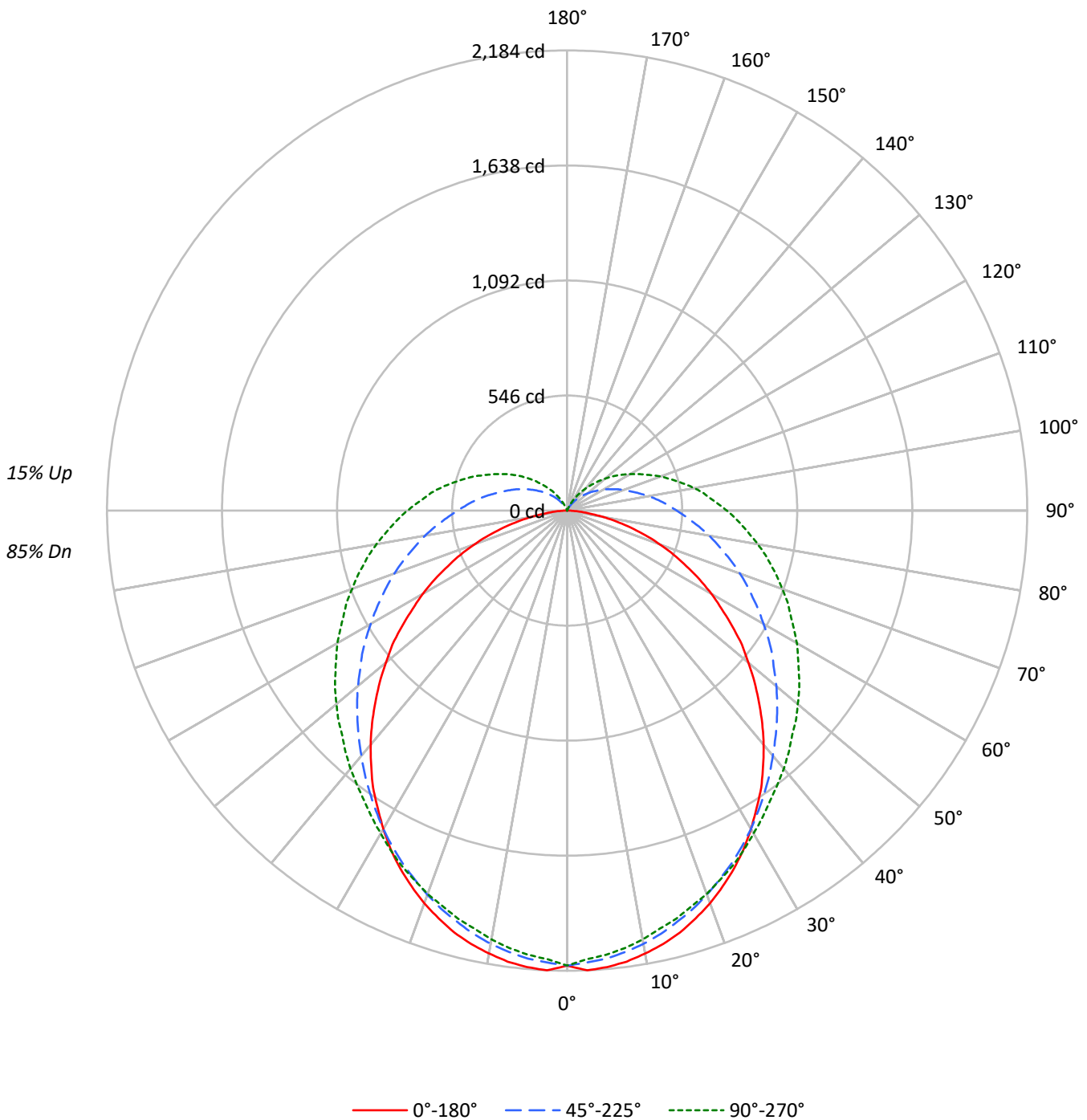
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8308.0 lumens  
Efficiency: N/A  
Efficacy: 140.3 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): 59.2  
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	
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°	12677	12677	12677
5°	12791	12065	11783
10°	12675	11463	11024
15°	12522	10860	10338
20°	12288	10292	9737
25°	12017	9748	9188
30°	11675	9230	8662
35°	11327	8728	8208
40°	10911	8262	7860
45°	10448	7857	7521
50°	9986	7489	7275
55°	9477	7169	7040
60°	8947	6854	6861
65°	8278	6598	6686
70°	7547	6402	6582
75°	6533	6223	6518
80°	5095	6140	6498
85°	3144	6119	6527



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.1	2.4
10°-20°	573.4	6.9
20°-30°	856.3	10.3
30°-40°	1026.3	12.4
40°-50°	1085.6	13.1
50°-60°	1048.4	12.6
60°-70°	932.6	11.2
70°-80°	766.7	9.2
80°-90°	586.4	7.1
90°-100°	441.0	5.3
100°-110°	321.8	3.9
110°-120°	220.5	2.7
120°-130°	137.6	1.7
130°-140°	73.4	0.9
140°-150°	29.4	0.4
150°-160°	5.6	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1632.8	19.7
0°-40°	2659.0	32.0
0°-60°	4793.0	57.7
0°-90°	7078.7	85.2
90°-120°	983.2	11.8
90°-150°	1223.6	14.7
90°-180°	1229.0	14.8
0°-180°	8308.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2159	2159	2159	2159	2159	
5°	2175	2162	2134	2131	2116	206
15°	2073	2051	2020	2020	2005	584
25°	1875	1856	1847	1868	1859	863
35°	1606	1599	1633	1680	1680	1002
45°	1287	1324	1408	1488	1510	994
55°	956	1042	1188	1305	1343	856
65°	625	767	971	1123	1169	621
75°	312	517	773	950	1002	332
85°	59	319	597	776	835	71
90°	0	244	520	699	758	3
95°	0	189	455	628	681	0
105°	0	118	334	489	538	0
115°	0	71	238	368	405	0
125°	0	43	161	260	291	0
135°	0	22	99	164	182	0
145°	0	6	43	84	96	0
155°	0	0	6	22	22	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2159.2	2159.2	2159.2	2159.2	2159.2
2.5°	2184.0	2171.6	2146.9	2143.8	2131.4
5°	2174.7	2162.3	2134.5	2131.4	2115.9
7.5°	2159.2	2143.8	2112.8	2109.7	2094.3
10°	2134.5	2119.0	2088.1	2085.0	2066.4
12.5°	2106.7	2091.2	2057.2	2054.1	2032.4
15°	2072.6	2051.0	2020.0	2020.0	2004.6
17.5°	2029.3	2010.8	1982.9	1986.0	1967.4
20°	1982.9	1964.4	1939.6	1948.9	1936.5
22.5°	1930.3	1908.7	1893.2	1905.6	1896.3
25°	1874.6	1856.1	1846.8	1868.5	1859.2
27.5°	1812.8	1794.2	1797.3	1819.0	1815.9
30°	1744.7	1732.3	1744.7	1772.6	1769.5
32.5°	1673.6	1667.4	1689.0	1726.2	1726.2
35°	1605.5	1599.3	1633.4	1679.8	1679.8
37.5°	1528.2	1531.3	1577.7	1630.3	1639.5
40°	1450.8	1463.2	1518.9	1583.9	1599.3
42.5°	1370.4	1392.1	1463.2	1534.4	1556.0
45°	1286.9	1324.0	1407.5	1488.0	1509.6
47.5°	1206.5	1252.9	1351.8	1444.7	1472.5
50°	1122.9	1178.6	1296.2	1398.3	1429.2
52.5°	1045.6	1110.6	1237.4	1351.8	1389.0
55°	955.9	1042.5	1187.9	1305.4	1342.6
57.5°	869.3	971.4	1132.2	1259.0	1299.3
60°	791.9	900.2	1076.5	1215.7	1259.0
62.5°	708.4	832.1	1023.9	1169.3	1212.6
65°	624.9	767.2	971.4	1122.9	1169.3
67.5°	547.5	699.1	921.9	1079.6	1132.2
70°	467.1	637.3	872.4	1036.3	1085.8
72.5°	389.8	575.4	822.9	989.9	1045.6
75°	312.4	516.6	773.4	949.7	1002.3
77.5°	238.2	460.9	727.0	906.4	962.1
80°	170.1	408.3	683.7	863.1	918.8
82.5°	108.3	358.8	640.3	819.8	875.5
85°	58.8	318.6	597.0	776.5	835.2
87.5°	21.7	275.3	556.8	739.3	798.1
90°	0.0	244.4	519.7	699.1	757.9
92.5°	0.0	213.4	485.7	662.0	717.7
95°	0.0	188.7	454.7	628.0	680.6
97.5°	0.0	167.0	423.8	593.9	649.6
100°	0.0	148.5	392.9	556.8	612.5
102.5°	0.0	129.9	361.9	522.8	575.4
105°	0.0	117.6	334.1	488.8	538.3
107.5°	0.0	105.2	309.3	460.9	504.2
110°	0.0	92.8	284.6	426.9	473.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	83.5	262.9	399.1	436.2
115°	0.0	71.1	238.2	368.1	405.2
117.5°	0.0	65.0	219.6	340.3	374.3
120°	0.0	55.7	198.0	312.4	346.5
122.5°	0.0	49.5	179.4	284.6	318.6
125°	0.0	43.3	160.9	259.9	290.8
127.5°	0.0	37.1	145.4	235.1	262.9
130°	0.0	30.9	126.8	210.4	235.1
132.5°	0.0	24.7	111.4	185.6	210.4
135°	0.0	21.7	99.0	164.0	182.5
137.5°	0.0	15.5	83.5	142.3	160.9
140°	0.0	12.4	71.1	123.7	136.1
142.5°	0.0	9.3	55.7	102.1	117.6
145°	0.0	6.2	43.3	83.5	95.9
147.5°	0.0	3.1	30.9	68.1	74.2
150°	0.0	3.1	21.7	52.6	55.7
152.5°	0.0	0.0	15.5	37.1	37.1
155°	0.0	0.0	6.2	21.7	21.7
157.5°	3.1	0.0	3.1	9.3	9.3
160°	3.1	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)