

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-LD5-88SL-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-LD5-88SL-LW-UNV-L840-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

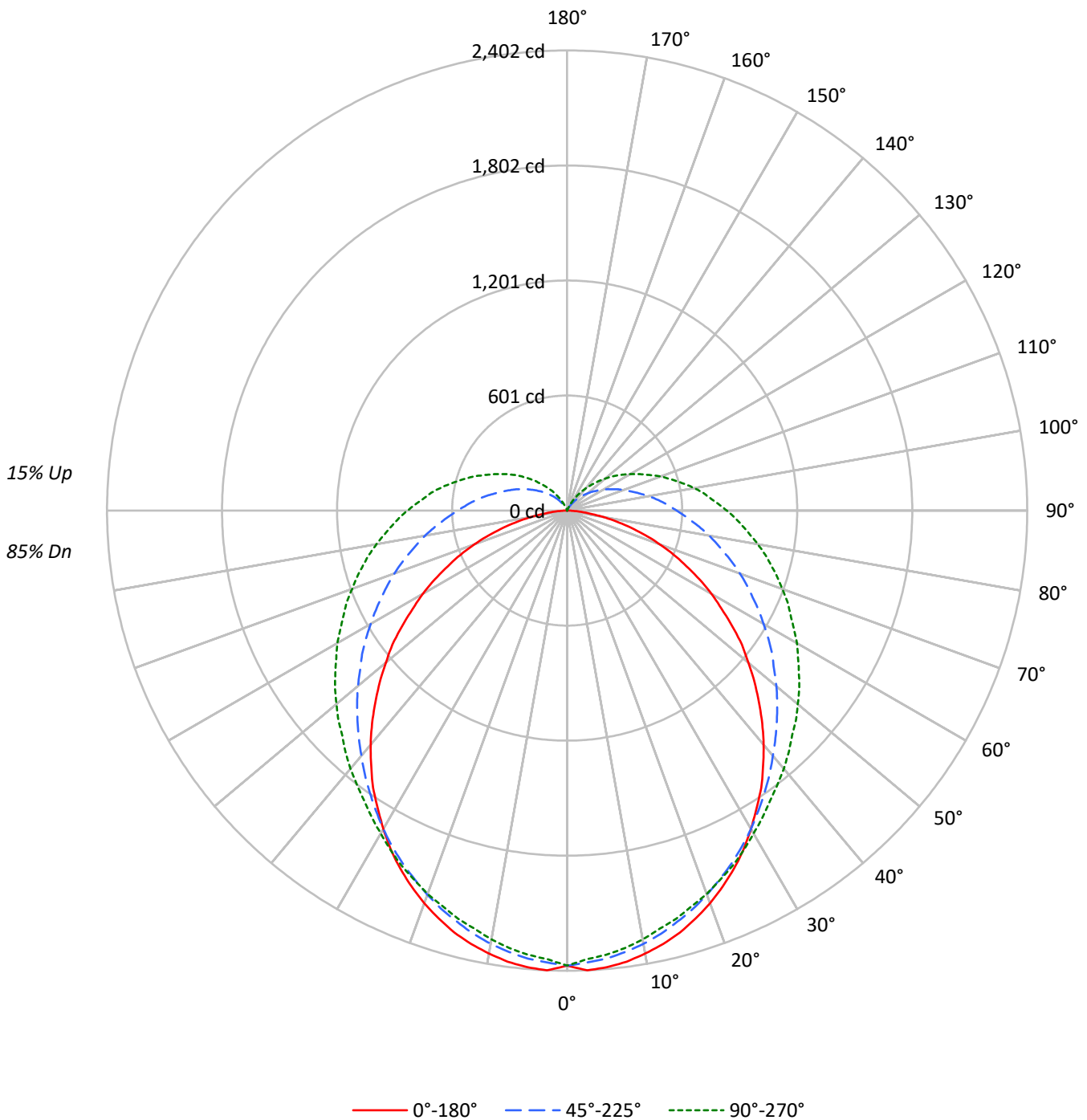
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9138.0 lumens  
Efficiency: N/A  
Efficacy: 124.5 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): 73.4  
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

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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°	13944	13944	13944
5°	14070	13271	12960
10°	13941	12609	12125
15°	13773	11945	11370
20°	13515	11321	10710
25°	13217	10722	10106
30°	12841	10152	9527
35°	12459	9600	9028
40°	12002	9087	8646
45°	11491	8642	8272
50°	10984	8237	8001
55°	10424	7885	7743
60°	9840	7539	7547
65°	9105	7257	7354
70°	8302	7041	7240
75°	7187	6844	7169
80°	5604	6754	7146
85°	3454	6731	7179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.4	2.4
10°-20°	630.7	6.9
20°-30°	941.8	10.3
30°-40°	1128.8	12.4
40°-50°	1194.1	13.1
50°-60°	1153.1	12.6
60°-70°	1025.8	11.2
70°-80°	843.3	9.2
80°-90°	645.0	7.1
90°-100°	485.0	5.3
100°-110°	354.0	3.9
110°-120°	242.5	2.7
120°-130°	151.3	1.7
130°-140°	80.7	0.9
140°-150°	32.4	0.4
150°-160°	6.2	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1795.9	19.7
0°-40°	2924.7	32.0
0°-60°	5271.8	57.7
0°-90°	7785.9	85.2
90°-120°	1081.5	11.8
90°-150°	1345.9	14.7
90°-180°	1352.0	14.8
0°-180°	9138.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2375	2375	2375	2375	2375	
5°	2392	2378	2348	2344	2327	227
15°	2280	2256	2222	2222	2205	642
25°	2062	2042	2031	2055	2045	949
35°	1766	1759	1796	1848	1848	1102
45°	1415	1456	1548	1637	1660	1093
55°	1051	1147	1307	1436	1477	941
65°	687	844	1068	1235	1286	683
75°	344	568	851	1045	1102	365
85°	65	350	657	854	919	79
90°	0	269	572	769	834	3
95°	0	208	500	691	749	0
105°	0	129	368	538	592	0
115°	0	78	262	405	446	0
125°	0	48	177	286	320	0
135°	0	24	109	180	201	0
145°	0	7	48	92	106	0
155°	0	0	7	24	24	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°	2375.0	2375.0	2375.0	2375.0	2375.0
2.5°	2402.2	2388.6	2361.4	2357.9	2344.3
5°	2392.0	2378.4	2347.7	2344.3	2327.3
7.5°	2375.0	2357.9	2323.9	2320.5	2303.5
10°	2347.7	2330.7	2296.7	2293.3	2272.9
12.5°	2317.1	2300.1	2262.7	2259.3	2235.5
15°	2279.7	2255.9	2221.8	2221.8	2204.8
17.5°	2232.1	2211.6	2181.0	2184.4	2164.0
20°	2181.0	2160.6	2133.4	2143.6	2130.0
22.5°	2123.2	2099.4	2082.3	2096.0	2085.7
25°	2061.9	2041.5	2031.3	2055.1	2044.9
27.5°	1993.9	1973.5	1976.9	2000.7	1997.3
30°	1919.0	1905.4	1919.0	1949.6	1946.2
32.5°	1840.8	1834.0	1857.8	1898.6	1898.6
35°	1765.9	1759.1	1796.5	1847.6	1847.6
37.5°	1680.8	1684.2	1735.3	1793.1	1803.3
40°	1595.8	1609.4	1670.6	1742.1	1759.1
42.5°	1507.3	1531.1	1609.4	1687.7	1711.5
45°	1415.4	1456.3	1548.1	1636.6	1660.4
47.5°	1327.0	1378.0	1486.9	1589.0	1619.6
50°	1235.1	1296.4	1425.7	1537.9	1572.0
52.5°	1150.1	1221.5	1361.0	1486.9	1527.7
55°	1051.4	1146.7	1306.6	1435.9	1476.7
57.5°	956.1	1068.4	1245.3	1384.8	1429.1
60°	871.0	990.1	1184.1	1337.2	1384.8
62.5°	779.2	915.3	1126.2	1286.2	1333.8
65°	687.3	843.8	1068.4	1235.1	1286.2
67.5°	602.2	769.0	1014.0	1187.5	1245.3
70°	513.8	700.9	959.5	1139.8	1194.3
72.5°	428.7	632.9	905.1	1088.8	1150.1
75°	343.7	568.2	850.6	1044.6	1102.4
77.5°	262.0	507.0	799.6	996.9	1058.2
80°	187.1	449.1	752.0	949.3	1010.5
82.5°	119.1	394.7	704.3	901.7	962.9
85°	64.6	350.5	656.7	854.0	918.7
87.5°	23.8	302.8	612.5	813.2	877.9
90°	0.0	268.8	571.6	769.0	833.6
92.5°	0.0	234.8	534.2	728.1	789.4
95°	0.0	207.6	500.2	690.7	748.6
97.5°	0.0	183.7	466.1	653.3	714.5
100°	0.0	163.3	432.1	612.5	673.7
102.5°	0.0	142.9	398.1	575.0	632.9
105°	0.0	129.3	367.5	537.6	592.0
107.5°	0.0	115.7	340.3	507.0	554.6
110°	0.0	102.1	313.0	469.5	520.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	91.9	289.2	438.9	479.8
115°	0.0	78.3	262.0	404.9	445.7
117.5°	0.0	71.5	241.6	374.3	411.7
120°	0.0	61.2	217.8	343.7	381.1
122.5°	0.0	54.4	197.3	313.0	350.5
125°	0.0	47.6	176.9	285.8	319.8
127.5°	0.0	40.8	159.9	258.6	289.2
130°	0.0	34.0	139.5	231.4	258.6
132.5°	0.0	27.2	122.5	204.2	231.4
135°	0.0	23.8	108.9	180.3	200.7
137.5°	0.0	17.0	91.9	156.5	176.9
140°	0.0	13.6	78.3	136.1	149.7
142.5°	0.0	10.2	61.2	112.3	129.3
145°	0.0	6.8	47.6	91.9	105.5
147.5°	0.0	3.4	34.0	74.9	81.7
150°	0.0	3.4	23.8	57.8	61.2
152.5°	0.0	0.0	17.0	40.8	40.8
155°	0.0	0.0	6.8	23.8	23.8
157.5°	3.4	0.0	3.4	10.2	10.2
160°	3.4	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)