

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-LD5-38SL-LN-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 (P35658)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SRL-LD5-38SL-LN-UNV-L840-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

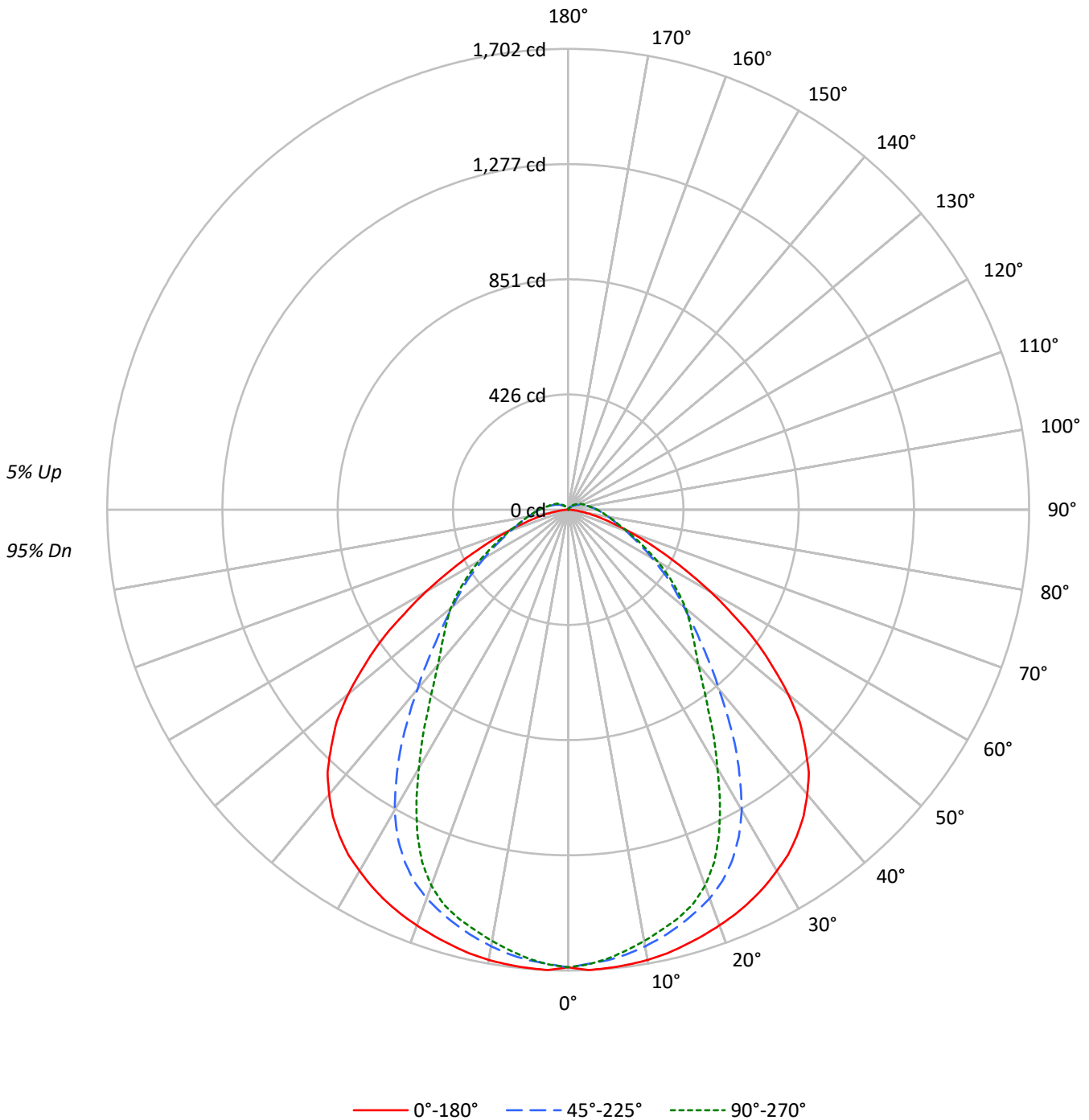
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3864.0 lumens  
Efficiency: N/A  
Efficacy: 144.2 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.04 / 1.14  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 3.67' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 26.8  
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				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	118	118	118	118	114	114	114	114	108	108	108		103	103	103		97	97	97	95
1	108	104	100	96	105	101	97	94	96	93	90		91	89	86		87	85	83	80
2	99	92	85	80	96	89	83	79	85	80	76		81	77	74		77	74	71	69
3	91	82	74	68	88	80	73	67	76	70	65		73	68	63		69	65	62	59
4	84	73	65	59	82	71	64	58	68	62	57		65	60	55		63	58	54	52
5	78	66	58	51	76	65	57	51	62	55	50		59	54	49		57	52	48	46
6	72	60	51	45	70	59	51	45	56	49	44		54	48	44		52	47	43	41
7	67	55	46	41	65	54	46	40	52	45	40		50	44	39		48	43	38	37
8	63	50	42	37	61	49	42	36	48	41	36		46	40	35		44	39	35	33
9	59	46	38	33	57	45	38	33	44	37	33		43	37	32		41	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	29		38	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19845	19845	19845
5°	19951	18862	18542
10°	19972	17928	17260
15°	19995	17021	16122
20°	20083	16134	14856
25°	20226	15016	13031
30°	20352	13461	10792
35°	20442	11442	8800
40°	20273	9332	7339
45°	19646	7643	6451
50°	18374	6345	5761
55°	16229	5417	4947
60°	13217	4493	4133
65°	10155	3763	3385
70°	7417	3222	2803
75°	5186	2849	2384
80°	3478	2639	2129
85°	2013	2515	1985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.2	4.1
10°-20°	452.2	11.7
20°-30°	660.7	17.1
30°-40°	705.7	18.3
40°-50°	621.9	16.1
50°-60°	472.2	12.2
60°-70°	301.1	7.8
70°-80°	179.6	4.6
80°-90°	112.8	2.9
90°-100°	74.7	1.9
100°-110°	50.7	1.3
110°-120°	34.1	0.9
120°-130°	21.1	0.5
130°-140°	11.1	0.3
140°-150°	4.8	0.1
150°-160°	1.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1272.2	32.9
0°-40°	1977.9	51.2
0°-60°	3072.0	79.5
0°-90°	3665.4	94.9
90°-120°	159.5	4.1
90°-150°	196.6	5.1
90°-180°	199.0	5.2
0°-180°	3864.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1699	1687	1671	1676	1665	162
15°	1665	1634	1589	1578	1563	471
25°	1594	1523	1431	1362	1318	736
35°	1471	1312	1080	944	900	919
45°	1237	931	692	652	647	951
55°	844	528	455	471	472	747
65°	401	272	282	298	296	405
75°	134	138	181	189	183	149
85°	23	75	126	133	127	28
90°	1	56	107	112	107	2
95°	0	43	89	94	89	0
105°	0	27	62	68	66	0
115°	0	17	43	51	50	0
125°	1	11	29	36	35	1
135°	1	6	18	22	21	1
145°	1	2	9	12	11	1
155°	1	2	3	5	3	0
165°	1	2	2	0	0	0
175°	2	2	2	0	0	0
180°	1	1	1	1	1	



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CATALOG NUMBER: 4SRL-LD5-38SL-LN-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1690.0	1690.0	1690.0	1690.0	1690.0
2.5°	1701.8	1691.7	1679.1	1687.5	1680.8
5°	1699.3	1686.7	1670.7	1675.7	1664.8
7.5°	1695.1	1679.1	1656.4	1654.7	1642.1
10°	1688.4	1667.3	1637.1	1631.2	1617.7
12.5°	1679.1	1653.0	1615.2	1606.0	1590.0
15°	1664.8	1633.7	1589.1	1578.2	1563.1
17.5°	1650.5	1611.8	1559.7	1546.3	1528.6
20°	1633.7	1586.6	1527.8	1499.2	1477.3
22.5°	1616.0	1558.0	1485.7	1437.8	1409.2
25°	1594.2	1522.7	1431.1	1362.1	1318.4
27.5°	1569.8	1485.7	1363.8	1264.6	1212.5
30°	1540.4	1436.1	1281.4	1157.0	1102.3
32.5°	1510.9	1382.3	1180.5	1051.0	1001.4
35°	1471.4	1311.7	1079.6	944.2	900.5
37.5°	1426.9	1232.6	969.5	849.2	817.3
40°	1373.0	1140.1	866.0	770.2	746.6
42.5°	1315.0	1038.4	776.1	706.3	693.7
45°	1236.8	930.8	692.0	651.6	647.4
47.5°	1159.5	823.2	620.5	603.7	606.2
50°	1060.3	716.4	555.8	561.7	565.9
52.5°	951.0	618.0	502.8	515.4	518.8
55°	844.2	528.0	454.9	470.9	471.7
57.5°	719.7	449.0	402.7	427.1	424.6
60°	607.1	379.2	358.2	377.5	379.2
62.5°	496.1	322.0	318.7	335.5	334.6
65°	401.1	271.6	281.7	298.5	296.0
67.5°	318.7	227.0	250.6	264.9	259.0
70°	243.0	192.5	223.7	234.6	231.2
72.5°	182.5	163.1	200.1	210.2	204.3
75°	133.7	137.9	180.8	189.2	183.3
77.5°	95.9	118.6	165.6	170.7	166.5
80°	64.7	100.9	150.5	157.2	150.5
82.5°	41.2	86.6	137.9	143.8	137.9
85°	22.7	74.8	126.1	132.8	127.0
87.5°	10.1	64.7	116.0	121.9	116.9
90°	0.8	56.3	106.8	111.8	106.8
92.5°	0.0	48.8	97.5	103.4	98.4
95°	0.0	42.9	89.1	94.2	89.1
97.5°	0.0	37.8	81.6	86.6	82.4
100°	0.0	33.6	74.8	79.9	75.7
102.5°	0.0	29.4	68.1	74.0	70.6
105°	0.0	26.9	62.2	68.1	65.6
107.5°	0.0	23.5	57.2	63.9	62.2
110°	0.0	21.0	52.1	59.7	58.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.3	47.1	55.5	53.8
115°	0.0	16.8	42.9	51.3	50.4
117.5°	0.0	15.1	39.5	47.1	47.1
120°	0.8	13.5	36.2	43.7	42.9
122.5°	0.8	11.8	32.0	39.5	38.7
125°	0.8	10.9	28.6	36.2	35.3
127.5°	0.8	9.2	26.1	32.0	31.1
130°	0.8	8.4	22.7	28.6	27.7
132.5°	0.8	6.7	20.2	25.2	24.4
135°	0.8	5.9	17.7	21.9	21.0
137.5°	0.8	5.0	15.1	19.3	18.5
140°	0.8	4.2	13.5	16.8	16.0
142.5°	0.8	3.4	10.9	14.3	13.5
145°	0.8	2.5	9.2	11.8	10.9
147.5°	0.8	1.7	7.6	10.1	9.2
150°	0.8	1.7	5.9	8.4	7.6
152.5°	0.8	1.7	5.0	6.7	5.0
155°	0.8	1.7	3.4	5.0	3.4
157.5°	0.8	1.7	2.5	3.4	2.5
160°	0.8	1.7	2.5	2.5	0.8
162.5°	0.8	1.7	1.7	0.8	0.0
165°	0.8	1.7	1.7	0.0	0.0
167.5°	0.8	1.7	1.7	0.0	0.0
170°	0.8	1.7	1.7	0.0	0.0
172.5°	0.8	1.7	1.7	0.0	0.0
175°	1.7	1.7	1.7	0.0	0.0
177.5°	0.8	1.7	0.8	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)