

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-LD5-33SL-LN-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 (P35658)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SRL-LD5-33SL-LN-UNV-L850-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

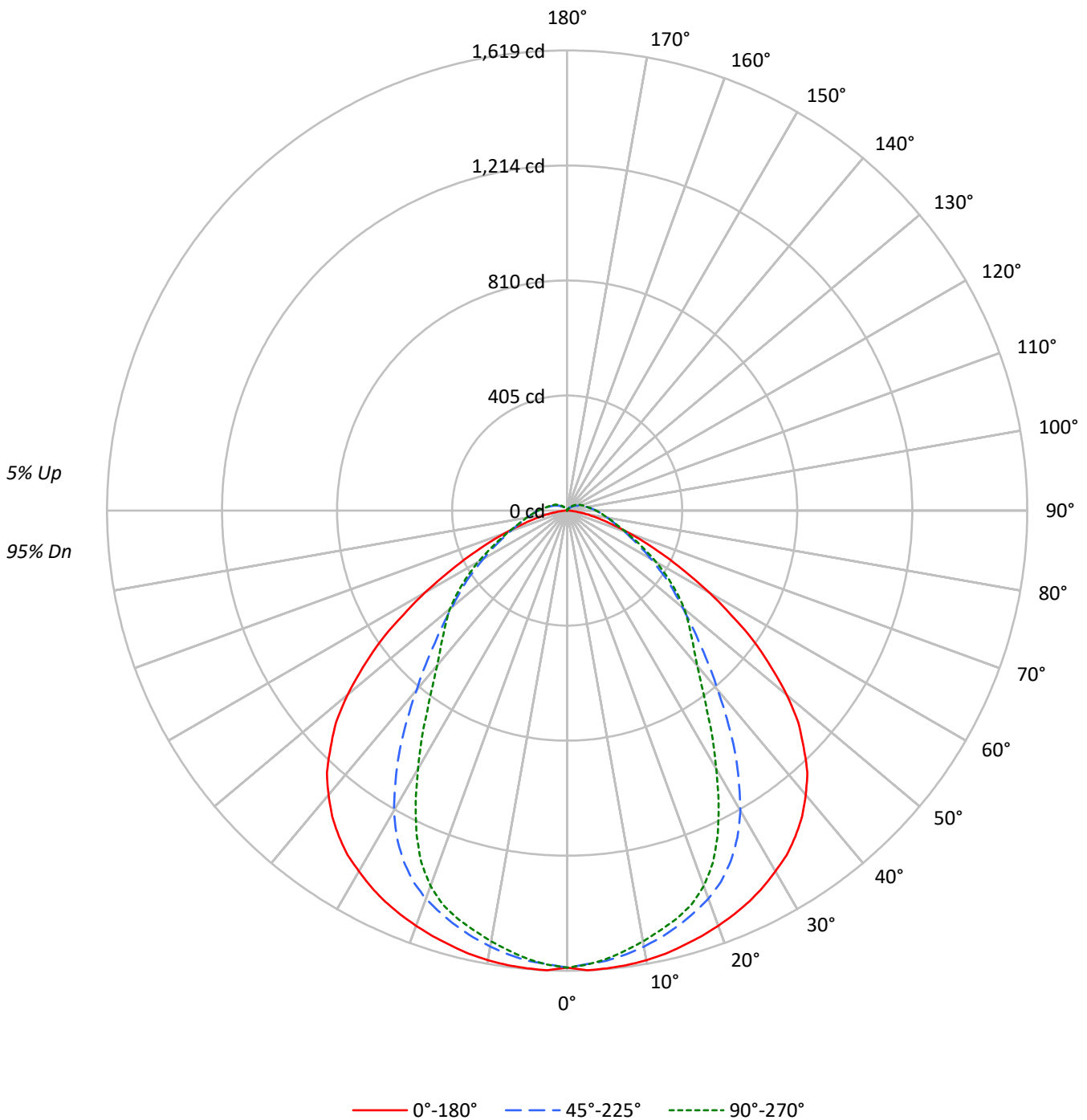
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3676.1 lumens  
Efficiency: N/A  
Efficacy: 159.1 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): 23.1  
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	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°	18879	18879	18879
5°	18980	17944	17640
10°	18999	17055	16420
15°	19022	16194	15337
20°	19105	15349	14133
25°	19242	14285	12397
30°	19361	12807	10267
35°	19447	10885	8372
40°	19287	8878	6982
45°	18691	7271	6137
50°	17480	6036	5480
55°	15439	5153	4706
60°	12573	4275	3932
65°	9661	3580	3220
70°	7056	3065	2667
75°	4934	2710	2268
80°	3312	2511	2025
85°	1915	2393	1888



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.5	4.1
10°-20°	430.2	11.7
20°-30°	628.6	17.1
30°-40°	671.4	18.3
40°-50°	591.6	16.1
50°-60°	449.2	12.2
60°-70°	286.4	7.8
70°-80°	170.9	4.6
80°-90°	107.3	2.9
90°-100°	71.0	1.9
100°-110°	48.3	1.3
110°-120°	32.5	0.9
120°-130°	20.1	0.5
130°-140°	10.6	0.3
140°-150°	4.6	0.1
150°-160°	1.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1210.3	32.9
0°-40°	1881.7	51.2
0°-60°	2922.5	79.5
0°-90°	3487.1	94.9
90°-120°	151.8	4.1
90°-150°	187.1	5.1
90°-180°	189.0	5.1
0°-180°	3676.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1617	1605	1589	1594	1584	154
15°	1584	1554	1512	1501	1487	448
25°	1517	1449	1361	1296	1254	700
35°	1400	1248	1027	898	857	874
45°	1177	886	658	620	616	905
55°	803	502	433	448	449	711
65°	382	258	268	284	282	385
75°	127	131	172	180	174	142
85°	22	71	120	126	121	26
90°	1	54	102	106	102	2
95°	0	41	85	90	85	0
105°	0	26	59	65	62	0
115°	0	16	41	49	48	0
125°	1	10	27	34	34	1
135°	1	6	17	21	20	1
145°	1	2	9	11	10	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1607.8	1607.8	1607.8	1607.8	1607.8
2.5°	1619.0	1609.4	1597.4	1605.4	1599.0
5°	1616.6	1604.6	1589.4	1594.2	1583.8
7.5°	1612.6	1597.4	1575.8	1574.2	1562.2
10°	1606.2	1586.2	1557.4	1551.8	1539.0
12.5°	1597.4	1572.6	1536.6	1527.8	1512.6
15°	1583.8	1554.2	1511.8	1501.4	1487.0
17.5°	1570.2	1533.4	1483.8	1471.0	1454.2
20°	1554.2	1509.4	1453.4	1426.2	1405.4
22.5°	1537.4	1482.2	1413.4	1367.8	1340.6
25°	1516.6	1448.6	1361.4	1295.8	1254.3
27.5°	1493.4	1413.4	1297.4	1203.1	1153.5
30°	1465.4	1366.2	1219.1	1100.7	1048.7
32.5°	1437.4	1315.0	1123.1	999.9	952.7
35°	1399.8	1247.9	1027.1	898.3	856.7
37.5°	1357.4	1172.7	922.3	807.9	777.5
40°	1306.2	1084.7	823.9	732.7	710.3
42.5°	1251.1	987.9	738.3	671.9	659.9
45°	1176.7	885.5	658.3	619.9	615.9
47.5°	1103.1	783.1	590.3	574.3	576.7
50°	1008.7	681.5	528.7	534.3	538.3
52.5°	904.7	587.9	478.3	490.3	493.5
55°	803.1	502.3	432.7	447.9	448.7
57.5°	684.7	427.1	383.2	406.4	404.0
60°	577.5	360.8	340.8	359.2	360.8
62.5°	471.9	306.4	303.2	319.2	318.4
65°	381.6	258.4	268.0	284.0	281.6
67.5°	303.2	216.0	238.4	252.0	246.4
70°	231.2	183.2	212.8	223.2	220.0
72.5°	173.6	155.2	190.4	200.0	194.4
75°	127.2	131.2	172.0	180.0	174.4
77.5°	91.2	112.8	157.6	162.4	158.4
80°	61.6	96.0	143.2	149.6	143.2
82.5°	39.2	82.4	131.2	136.8	131.2
85°	21.6	71.2	120.0	126.4	120.8
87.5°	9.6	61.6	110.4	116.0	111.2
90°	0.8	53.6	101.6	106.4	101.6
92.5°	0.0	46.4	92.8	98.4	93.6
95°	0.0	40.8	84.8	89.6	84.8
97.5°	0.0	36.0	77.6	82.4	78.4
100°	0.0	32.0	71.2	76.0	72.0
102.5°	0.0	28.0	64.8	70.4	67.2
105°	0.0	25.6	59.2	64.8	62.4
107.5°	0.0	22.4	54.4	60.8	59.2
110°	0.0	20.0	49.6	56.8	55.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	18.4	44.8	52.8	51.2
115°	0.0	16.0	40.8	48.8	48.0
117.5°	0.0	14.4	37.6	44.8	44.8
120°	0.8	12.8	34.4	41.6	40.8
122.5°	0.8	11.2	30.4	37.6	36.8
125°	0.8	10.4	27.2	34.4	33.6
127.5°	0.8	8.8	24.8	30.4	29.6
130°	0.8	8.0	21.6	27.2	26.4
132.5°	0.8	6.4	19.2	24.0	23.2
135°	0.8	5.6	16.8	20.8	20.0
137.5°	0.8	4.8	14.4	18.4	17.6
140°	0.8	4.0	12.8	16.0	15.2
142.5°	0.8	3.2	10.4	13.6	12.8
145°	0.8	2.4	8.8	11.2	10.4
147.5°	0.8	1.6	7.2	9.6	8.8
150°	0.8	1.6	5.6	8.0	7.2
152.5°	0.8	1.6	4.8	6.4	4.8
155°	0.8	1.6	3.2	4.8	3.2
157.5°	0.8	1.6	2.4	3.2	2.4
160°	0.8	1.6	2.4	2.4	0.8
162.5°	0.8	1.6	1.6	0.8	0.0
165°	0.8	1.6	1.6	0.0	0.0
167.5°	0.8	1.6	1.6	0.0	0.0
170°	0.8	1.6	1.6	0.0	0.0
172.5°	0.8	1.6	1.6	0.0	0.0
175°	1.6	1.6	1.6	0.0	0.0
177.5°	0.8	1.6	0.8	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)