

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-LD5-89SL-LC-UNV-L830-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 (P35657)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SRL-LD5-89SL-LC-UNV-L830-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

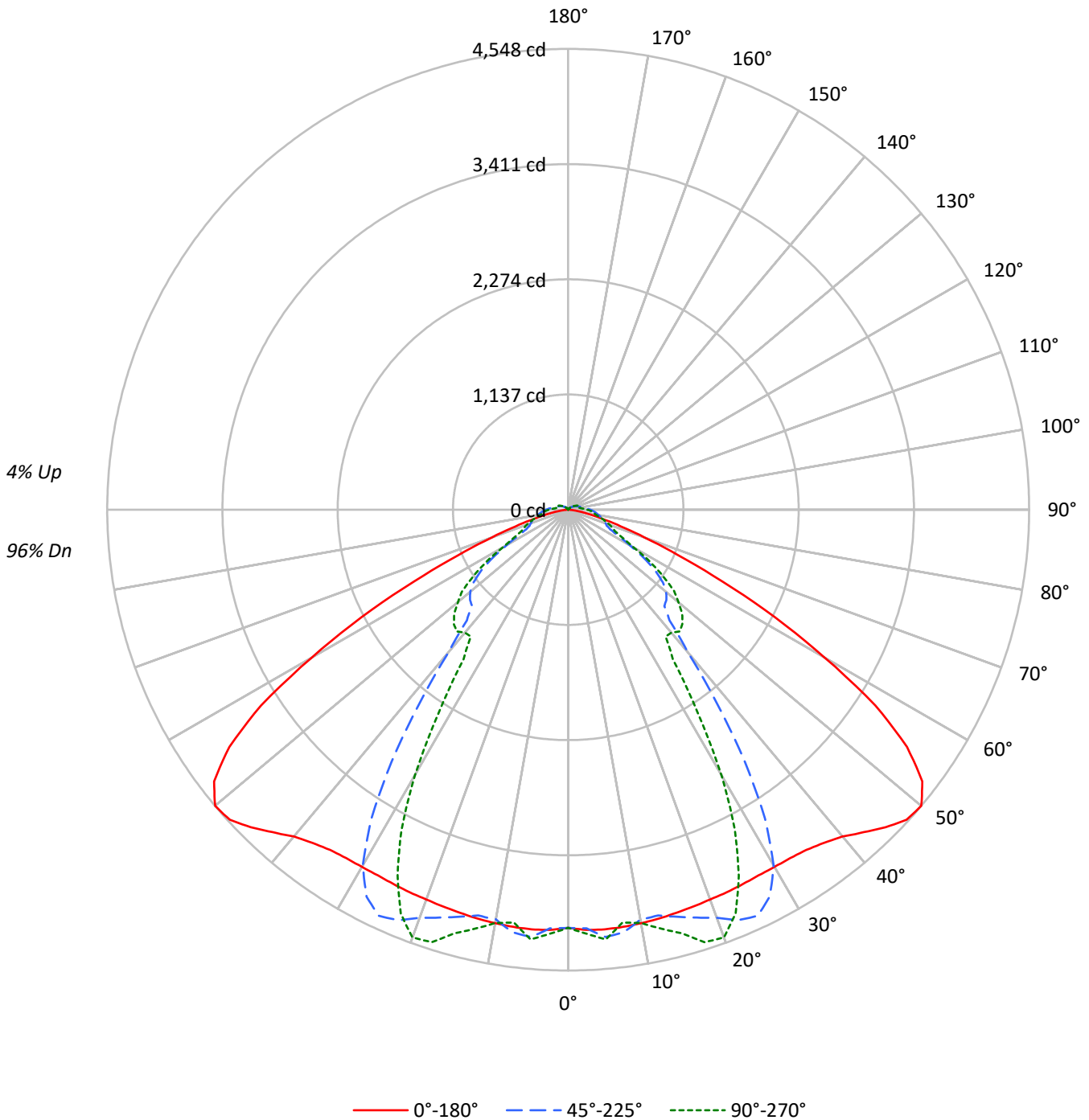
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9954.0 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Spacing Criteria (0/90/45): 1.54 / 1.13 / 1.12  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 7.33' x H: 0.17')  
CIE Type: 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					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	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	96	
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	89	87	85	83	
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	80	77	74	72	
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	72	68	64	62	
4	86	75	67	61	83	73	66	60	70	64	59	68	62	58	65	60	57	65	60	57	54	
5	79	67	59	53	77	66	59	53	64	57	52	61	56	51	59	54	50	59	54	50	48	
6	74	61	53	47	72	60	52	47	58	51	46	56	50	46	54	49	45	54	49	45	43	
7	69	56	48	42	67	55	47	42	53	46	41	52	45	41	50	45	40	50	45	40	38	
8	64	51	43	38	62	51	43	38	49	42	37	48	41	37	46	41	37	46	41	37	35	
9	60	47	40	35	58	47	39	34	45	39	34	44	38	34	43	37	33	43	37	33	32	
10	56	44	36	32	55	43	36	31	42	36	31	41	35	31	40	34	31	40	34	31	29	

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

	0°	45°	90°
0°	24233	24233	24233
5°	24452	23931	23707
10°	24609	22543	22098
15°	24885	22361	22315
20°	25366	22747	22589
25°	26131	23344	19684
30°	27236	21443	14811
35°	28910	16235	8797
40°	31665	9955	7785
45°	35975	7490	7944
50°	40444	7287	7230
55°	40458	6329	5978
60°	33054	4475	4050
65°	22163	3101	2938
70°	12932	2882	2652
75°	7237	2835	2251
80°	4133	2727	1922
85°	2043	2699	1891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.0	4.0
10°-20°	1196.7	12.0
20°-30°	1904.6	19.1
30°-40°	1941.0	19.5
40°-50°	1639.4	16.5
50°-60°	1263.6	12.7
60°-70°	652.8	6.6
70°-80°	360.7	3.6
80°-90°	229.5	2.3
90°-100°	141.2	1.4
100°-110°	91.1	0.9
110°-120°	66.1	0.7
120°-130°	38.2	0.4
130°-140°	18.4	0.2
140°-150°	7.7	0.1
150°-160°	2.7	0.0
160°-170°	1.0	0.0
170°-180°	0.3	0.0
0°-30°	3500.3	35.2
0°-40°	5441.3	54.7
0°-60°	8344.3	83.8
0°-90°	9587.3	96.3
90°-120°	298.4	3.0
90°-150°	362.7	3.6
90°-180°	367.0	3.7
0°-180°	9954.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4127	4127	4127	4127	4127	
5°	4157	4172	4234	4274	4257	396
15°	4119	4121	4159	4308	4327	1167
25°	4076	4104	4423	4206	3983	1887
35°	4098	4291	3038	2066	1800	2587
45°	4431	2586	1342	1548	1594	3422
55°	4081	951	1049	1140	1140	3533
65°	1673	435	456	514	514	1726
75°	346	287	352	355	346	417
85°	38	187	263	255	242	53
90°	0	144	219	202	187	2
95°	0	112	174	153	140	0
105°	0	68	115	106	100	0
115°	2	40	83	100	98	1
125°	2	21	53	64	57	2
135°	2	11	30	36	30	2
145°	2	4	15	19	15	1
155°	2	2	6	8	4	1
165°	2	4	4	4	0	1
175°	4	4	4	4	0	0
180°	2	2	2	2	2	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4127.4	4127.4	4127.4	4127.4	4127.4
2.5°	4150.8	4135.9	4135.9	4189.0	4189.0
5°	4157.2	4172.0	4233.6	4273.9	4257.0
7.5°	4152.9	4220.9	4206.0	4146.6	4108.3
10°	4144.4	4246.3	4106.2	4146.6	4142.3
12.5°	4133.8	4208.1	4102.0	4244.2	4235.7
15°	4118.9	4121.1	4159.3	4307.9	4327.0
17.5°	4106.2	4065.9	4220.9	4420.4	4475.6
20°	4093.5	4048.9	4286.7	4516.0	4492.6
22.5°	4087.1	4063.7	4384.3	4443.8	4314.3
25°	4076.5	4104.1	4422.6	4206.0	3983.1
27.5°	4068.0	4150.8	4305.8	3800.5	3562.7
30°	4070.1	4216.6	4053.1	3324.9	3025.5
32.5°	4076.5	4280.3	3613.6	2687.9	2378.0
35°	4097.7	4290.9	3038.3	2065.8	1800.4
37.5°	4144.4	4174.2	2411.9	1634.8	1577.5
40°	4210.2	3821.7	1830.2	1526.6	1583.9
42.5°	4316.4	3229.3	1479.8	1543.5	1628.5
45°	4431.1	2586.0	1341.8	1547.8	1594.5
47.5°	4528.7	1908.7	1314.2	1490.5	1524.4
50°	4547.8	1437.4	1261.2	1399.2	1420.4
52.5°	4403.5	1135.9	1176.2	1278.1	1316.4
55°	4080.7	951.2	1048.8	1140.1	1140.1
57.5°	3594.5	806.8	881.1	968.2	959.7
60°	2925.7	664.6	702.8	755.8	743.1
62.5°	2301.5	532.9	545.7	603.0	611.5
65°	1673.1	435.2	456.5	513.8	513.8
67.5°	1174.1	371.6	411.9	465.0	469.2
70°	800.4	335.5	392.8	435.2	437.4
72.5°	545.7	310.0	373.7	397.0	390.7
75°	346.1	286.6	352.4	354.6	346.1
77.5°	225.1	261.1	331.2	314.2	307.9
80°	138.0	235.7	303.6	282.4	271.8
82.5°	78.6	210.2	282.4	267.5	256.9
85°	38.2	186.8	263.3	254.8	242.0
87.5°	14.9	165.6	242.0	229.3	216.6
90°	0.0	144.4	218.7	201.7	186.8
92.5°	0.0	127.4	195.3	174.1	161.4
95°	0.0	112.5	174.1	152.9	140.1
97.5°	0.0	99.8	155.0	135.9	121.0
100°	0.0	89.2	140.1	121.0	110.4
102.5°	0.0	78.6	125.3	112.5	106.2
105°	0.0	67.9	114.7	106.2	99.8
107.5°	0.0	59.4	104.0	101.9	97.7
110°	0.0	53.1	97.7	99.8	101.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	46.7	89.2	101.9	104.0
115°	2.1	40.3	82.8	99.8	97.7
117.5°	2.1	34.0	74.3	89.2	84.9
120°	2.1	29.7	67.9	80.7	74.3
122.5°	2.1	25.5	59.4	70.1	65.8
125°	2.1	21.2	53.1	63.7	57.3
127.5°	2.1	19.1	46.7	55.2	51.0
130°	2.1	17.0	40.3	48.8	44.6
132.5°	2.1	12.7	36.1	42.5	36.1
135°	2.1	10.6	29.7	36.1	29.7
137.5°	2.1	8.5	25.5	29.7	25.5
140°	2.1	6.4	21.2	25.5	21.2
142.5°	2.1	6.4	17.0	23.4	17.0
145°	2.1	4.2	14.9	19.1	14.9
147.5°	2.1	4.2	12.7	17.0	12.7
150°	2.1	4.2	10.6	14.9	8.5
152.5°	2.1	2.1	8.5	12.7	6.4
155°	2.1	2.1	6.4	8.5	4.2
157.5°	2.1	2.1	6.4	6.4	4.2
160°	2.1	2.1	6.4	6.4	2.1
162.5°	2.1	2.1	4.2	4.2	0.0
165°	2.1	4.2	4.2	4.2	0.0
167.5°	2.1	4.2	4.2	4.2	0.0
170°	2.1	4.2	4.2	4.2	0.0
172.5°	2.1	4.2	4.2	4.2	0.0
175°	4.2	4.2	4.2	4.2	0.0
177.5°	4.2	4.2	4.2	4.2	0.0
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)