

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-LD5-104SL-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: 8SRL-LD5-104SL-LN-UNV-L840-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

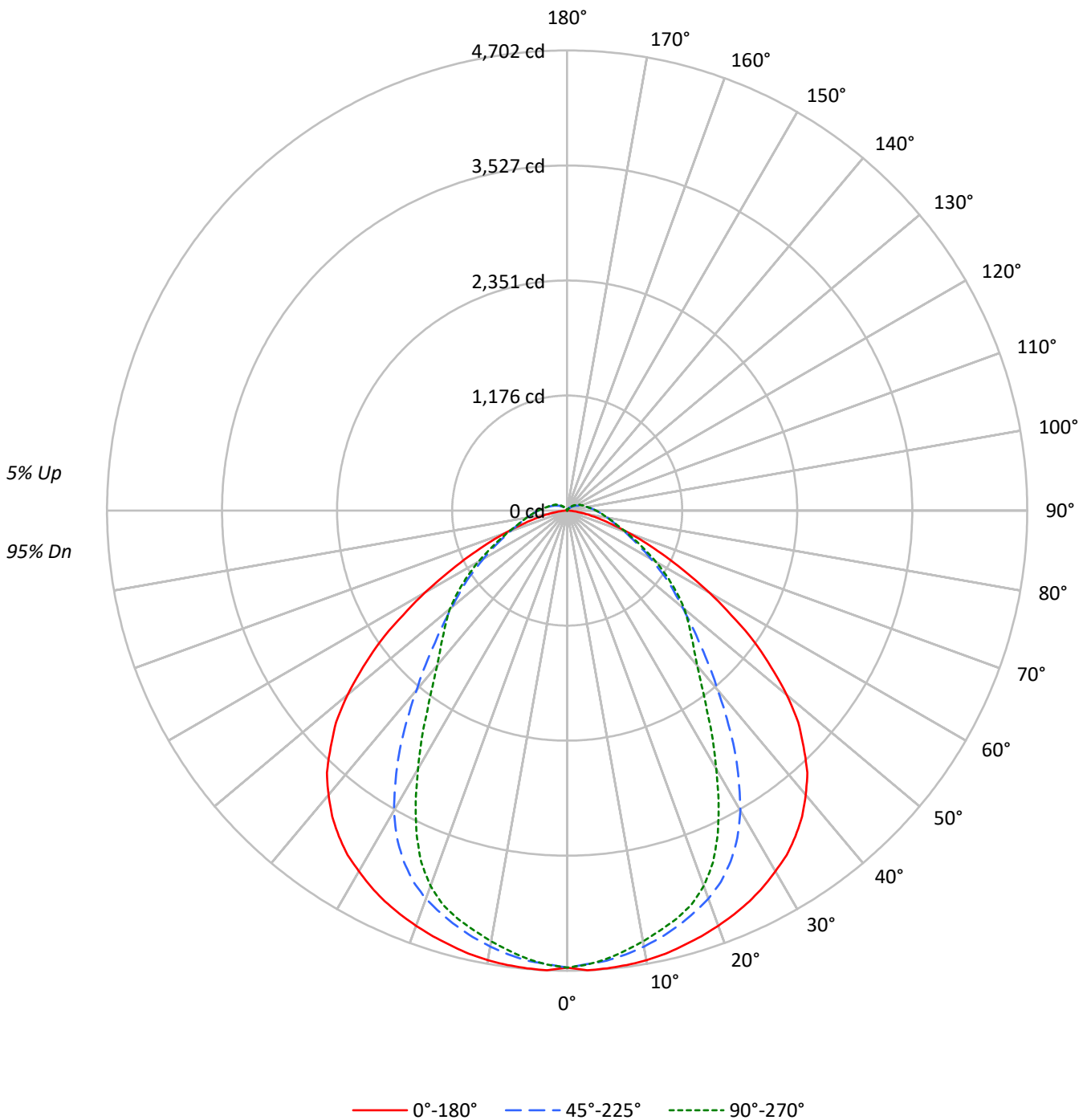
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10676.0 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.04 / 1.14
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 7.33' x H: 0.17')
CIE Type: Direct

Input Watts (W): 79.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	27416	27416	27416
5°	27616	26092	25616
10°	27700	24831	23844
15°	27790	23605	22272
20°	27971	22399	20523
25°	28235	20870	18001
30°	28480	18730	14909
35°	28683	15939	12158
40°	28532	13015	10139
45°	27744	10672	8912
50°	26052	8872	7958
55°	23124	7584	6834
60°	18950	6301	5710
65°	14679	5286	4675
70°	10848	4534	3873
75°	7725	4019	3293
80°	5358	3734	2941
85°	3353	3572	2741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.9	4.1
10°-20°	1249.5	11.7
20°-30°	1825.6	17.1
30°-40°	1949.8	18.3
40°-50°	1718.3	16.1
50°-60°	1304.7	12.2
60°-70°	831.8	7.8
70°-80°	496.2	4.6
80°-90°	311.7	2.9
90°-100°	206.3	1.9
100°-110°	140.2	1.3
110°-120°	94.3	0.9
120°-130°	58.3	0.5
130°-140°	30.8	0.3
140°-150°	13.3	0.1
150°-160°	4.3	0.0
160°-170°	0.9	0.0
170°-180°	0.2	0.0
0°-30°	3515.0	32.9
0°-40°	5464.8	51.2
0°-60°	8487.8	79.5
0°-90°	10127.4	94.9
90°-120°	440.8	4.1
90°-150°	543.2	5.1
90°-180°	549.0	5.1
0°-180°	10676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4670	4670	4670	4670	4670	
5°	4695	4660	4616	4630	4600	447
15°	4600	4514	4391	4360	4319	1301
25°	4405	4207	3954	3764	3643	2032
35°	4066	3624	2983	2609	2488	2540
45°	3417	2572	1912	1800	1789	2627
55°	2332	1459	1257	1301	1303	2064
65°	1108	750	778	825	818	1119
75°	369	381	500	523	506	412
85°	63	207	348	367	351	76
90°	2	156	295	309	295	4
95°	0	118	246	260	246	0
105°	0	74	172	188	181	0
115°	0	46	118	142	139	0
125°	2	30	79	100	98	2
135°	2	16	49	60	58	2
145°	2	7	26	32	30	1
155°	2	5	9	14	9	1
165°	2	5	5	0	0	1
175°	5	5	5	0	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°	4669.5	4669.5	4669.5	4669.5	4669.5
2.5°	4702.0	4674.1	4639.3	4662.5	4643.9
5°	4695.0	4660.2	4616.0	4630.0	4599.8
7.5°	4683.4	4639.3	4576.5	4571.9	4537.0
10°	4664.8	4606.7	4523.1	4506.8	4469.7
12.5°	4639.3	4567.3	4462.7	4437.2	4393.0
15°	4599.8	4513.8	4390.7	4360.5	4318.7
17.5°	4560.3	4453.4	4309.4	4272.2	4223.4
20°	4513.8	4383.7	4221.1	4142.1	4081.7
22.5°	4465.0	4304.7	4104.9	3972.5	3893.5
25°	4404.6	4207.2	3953.9	3763.5	3642.6
27.5°	4337.3	4104.9	3768.1	3494.0	3349.9
30°	4256.0	3967.9	3540.4	3196.6	3045.6
32.5°	4174.6	3819.2	3261.7	2903.9	2766.8
35°	4065.5	3624.1	2982.9	2608.9	2488.1
37.5°	3942.3	3405.7	2678.6	2346.3	2258.1
40°	3793.7	3150.1	2392.8	2128.0	2062.9
42.5°	3633.4	2869.1	2144.2	1951.4	1916.6
45°	3417.3	2571.7	1911.9	1800.4	1788.8
47.5°	3203.6	2274.3	1714.5	1668.0	1675.0
50°	2929.5	1979.3	1535.6	1551.8	1563.5
52.5°	2627.4	1707.5	1389.2	1424.1	1433.4
55°	2332.4	1458.9	1256.8	1300.9	1303.3
57.5°	1988.6	1240.5	1112.8	1180.1	1173.2
60°	1677.3	1047.7	989.6	1043.1	1047.7
62.5°	1370.6	889.8	880.5	926.9	924.6
65°	1108.1	750.4	778.2	824.7	817.7
67.5°	880.5	627.2	692.3	731.8	715.5
70°	671.4	532.0	617.9	648.1	638.9
72.5°	504.1	450.7	552.9	580.8	564.5
75°	369.4	381.0	499.5	522.7	506.4
77.5°	264.8	327.6	457.7	471.6	460.0
80°	178.9	278.8	415.8	434.4	415.8
82.5°	113.8	239.3	381.0	397.3	381.0
85°	62.7	206.8	348.5	367.1	350.8
87.5°	27.9	178.9	320.6	336.9	322.9
90°	2.3	155.6	295.0	309.0	295.0
92.5°	0.0	134.7	269.5	285.7	271.8
95°	0.0	118.5	246.3	260.2	246.3
97.5°	0.0	104.5	225.3	239.3	227.7
100°	0.0	92.9	206.8	220.7	209.1
102.5°	0.0	81.3	188.2	204.4	195.1
105°	0.0	74.3	171.9	188.2	181.2
107.5°	0.0	65.0	158.0	176.6	171.9
110°	0.0	58.1	144.0	164.9	160.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	53.4	130.1	153.3	148.7
115°	0.0	46.5	118.5	141.7	139.4
117.5°	0.0	41.8	109.2	130.1	130.1
120°	2.3	37.2	99.9	120.8	118.5
122.5°	2.3	32.5	88.3	109.2	106.9
125°	2.3	30.2	79.0	99.9	97.6
127.5°	2.3	25.6	72.0	88.3	86.0
130°	2.3	23.2	62.7	79.0	76.7
132.5°	2.3	18.6	55.8	69.7	67.4
135°	2.3	16.3	48.8	60.4	58.1
137.5°	2.3	13.9	41.8	53.4	51.1
140°	2.3	11.6	37.2	46.5	44.1
142.5°	2.3	9.3	30.2	39.5	37.2
145°	2.3	7.0	25.6	32.5	30.2
147.5°	2.3	4.6	20.9	27.9	25.6
150°	2.3	4.6	16.3	23.2	20.9
152.5°	2.3	4.6	13.9	18.6	13.9
155°	2.3	4.6	9.3	13.9	9.3
157.5°	2.3	4.6	7.0	9.3	7.0
160°	2.3	4.6	7.0	7.0	2.3
162.5°	2.3	4.6	4.6	2.3	0.0
165°	2.3	4.6	4.6	0.0	0.0
167.5°	2.3	4.6	4.6	0.0	0.0
170°	2.3	4.6	4.6	0.0	0.0
172.5°	2.3	4.6	4.6	0.0	0.0
175°	4.6	4.6	4.6	0.0	0.0
177.5°	2.3	4.6	2.3	0.0	0.0
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)