

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-LD5-82SL-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: 8SRL-LD5-82SL-LN-UNV-L850-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

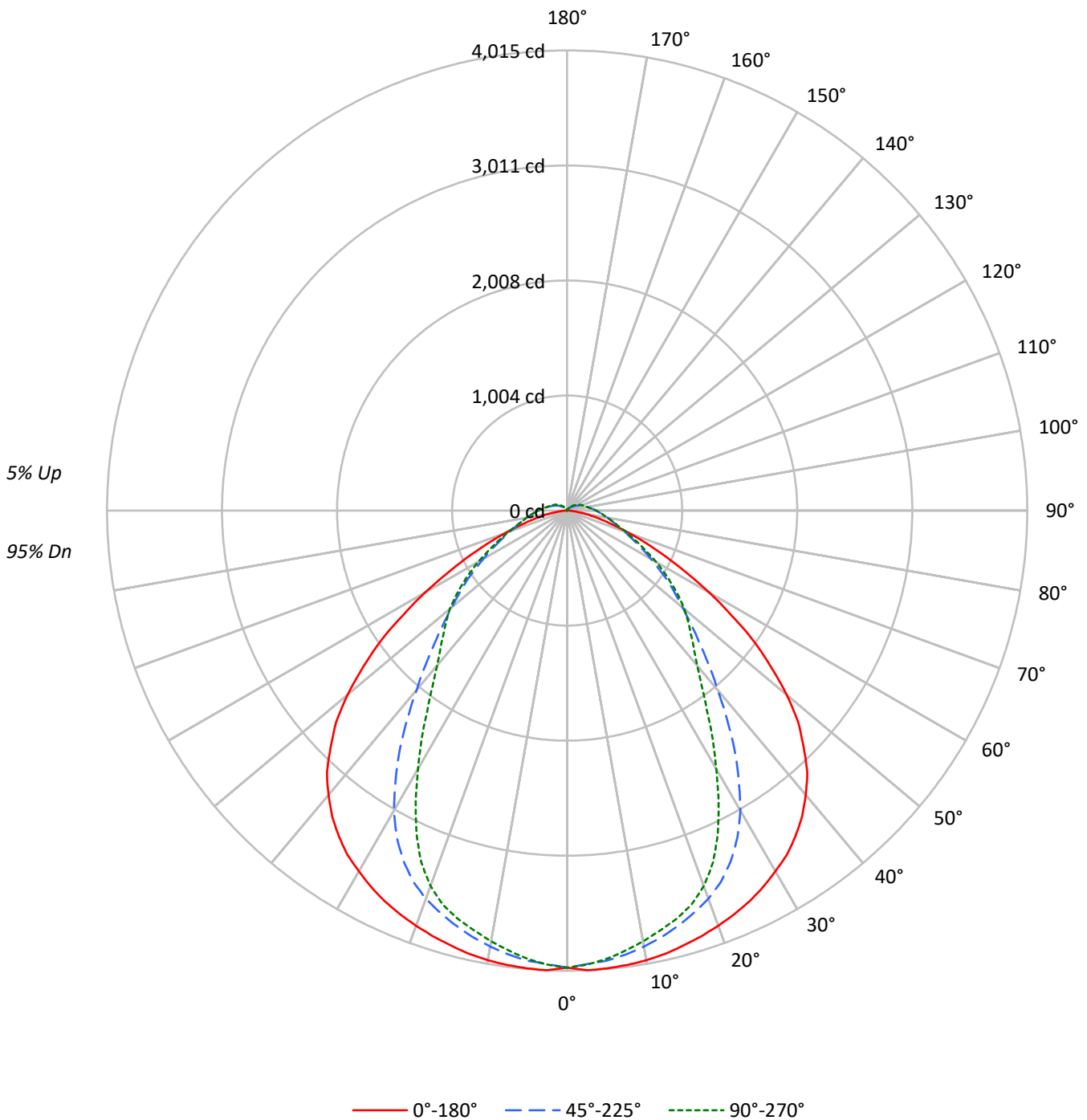
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9116.0 lumens
Efficiency: N/A
Efficacy: 154.0 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): 59.2
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°	23410	23410	23410
5°	23581	22280	21872
10°	23652	21203	20360
15°	23729	20156	19017
20°	23884	19126	17524
25°	24109	17821	15371
30°	24318	15994	12731
35°	24491	13610	10381
40°	24362	11114	8658
45°	23690	9113	7609
50°	22245	7575	6795
55°	19745	6477	5835
60°	16181	5380	4875
65°	12534	4513	3992
70°	9263	3872	3307
75°	6595	3432	2812
80°	4573	3189	2511
85°	2866	3049	2341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.6	4.1
10°-20°	1066.9	11.7
20°-30°	1558.8	17.1
30°-40°	1664.9	18.3
40°-50°	1467.2	16.1
50°-60°	1114.1	12.2
60°-70°	710.2	7.8
70°-80°	423.6	4.6
80°-90°	266.1	2.9
90°-100°	176.1	1.9
100°-110°	119.7	1.3
110°-120°	80.5	0.9
120°-130°	49.8	0.5
130°-140°	26.3	0.3
140°-150°	11.4	0.1
150°-160°	3.6	0.0
160°-170°	0.8	0.0
170°-180°	0.2	0.0
0°-30°	3001.4	32.9
0°-40°	4666.3	51.2
0°-60°	7247.5	79.5
0°-90°	8647.5	94.9
90°-120°	376.4	4.1
90°-150°	463.8	5.1
90°-180°	468.0	5.1
0°-180°	9116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3987	3987	3987	3987	3987	
5°	4009	3979	3942	3953	3928	382
15°	3928	3854	3749	3723	3688	1111
25°	3761	3592	3376	3214	3110	1735
35°	3471	3094	2547	2228	2124	2169
45°	2918	2196	1633	1537	1527	2243
55°	1992	1246	1073	1111	1113	1763
65°	946	641	664	704	698	955
75°	315	325	426	446	432	351
85°	54	176	298	313	300	65
90°	2	133	252	264	252	4
95°	0	101	210	222	210	0
105°	0	64	147	161	155	0
115°	0	40	101	121	119	0
125°	2	26	67	85	83	2
135°	2	14	42	52	50	2
145°	2	6	22	28	26	1
155°	2	4	8	12	8	1
165°	2	4	4	0	0	1
175°	4	4	4	0	0	0
180°	2	2	2	2	2	



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-82SL-LN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3987.2	3987.2	3987.2	3987.2	3987.2
2.5°	4014.9	3991.1	3961.4	3981.2	3965.3
5°	4009.0	3979.2	3941.5	3953.4	3927.6
7.5°	3999.1	3961.4	3907.8	3903.8	3874.1
10°	3983.2	3933.6	3862.2	3848.3	3816.6
12.5°	3961.4	3899.9	3810.6	3788.8	3751.1
15°	3927.6	3854.2	3749.1	3723.3	3687.6
17.5°	3893.9	3802.7	3679.7	3647.9	3606.3
20°	3854.2	3743.2	3604.3	3536.9	3485.3
22.5°	3812.6	3675.7	3505.1	3392.1	3324.6
25°	3761.0	3592.4	3376.2	3213.5	3110.4
27.5°	3703.5	3505.1	3217.5	2983.4	2860.4
30°	3634.1	3388.1	3023.1	2729.5	2600.6
32.5°	3564.6	3261.1	2785.1	2479.6	2362.5
35°	3471.4	3094.5	2547.0	2227.6	2124.5
37.5°	3366.3	2908.0	2287.2	2003.5	1928.1
40°	3239.3	2689.8	2043.2	1817.0	1761.5
42.5°	3102.4	2449.8	1830.9	1666.3	1636.5
45°	2918.0	2195.9	1632.6	1537.3	1527.4
47.5°	2735.5	1942.0	1463.9	1424.3	1430.2
50°	2501.4	1690.1	1311.2	1325.1	1335.0
52.5°	2243.5	1458.0	1186.2	1216.0	1223.9
55°	1991.6	1245.7	1073.2	1110.8	1112.8
57.5°	1698.0	1059.3	950.2	1007.7	1001.7
60°	1432.2	894.6	845.0	890.7	894.6
62.5°	1170.4	759.7	751.8	791.5	789.5
65°	946.2	640.7	664.5	704.2	698.2
67.5°	751.8	535.6	591.1	624.9	611.0
70°	573.3	454.3	527.7	553.4	545.5
72.5°	430.5	384.8	472.1	495.9	482.0
75°	315.4	325.3	426.5	446.3	432.4
77.5°	226.1	279.7	390.8	402.7	392.8
80°	152.7	238.0	355.1	370.9	355.1
82.5°	97.2	204.3	325.3	339.2	325.3
85°	53.6	176.5	297.5	313.4	299.5
87.5°	23.8	152.7	273.7	287.6	275.7
90°	2.0	132.9	251.9	263.8	251.9
92.5°	0.0	115.1	230.1	244.0	232.1
95°	0.0	101.2	210.3	222.2	210.3
97.5°	0.0	89.3	192.4	204.3	194.4
100°	0.0	79.3	176.5	188.4	178.5
102.5°	0.0	69.4	160.7	174.6	166.6
105°	0.0	63.5	146.8	160.7	154.7
107.5°	0.0	55.5	134.9	150.8	146.8
110°	0.0	49.6	123.0	140.8	136.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	45.6	111.1	130.9	127.0
115°	0.0	39.7	101.2	121.0	119.0
117.5°	0.0	35.7	93.2	111.1	111.1
120°	2.0	31.7	85.3	103.2	101.2
122.5°	2.0	27.8	75.4	93.2	91.2
125°	2.0	25.8	67.4	85.3	83.3
127.5°	2.0	21.8	61.5	75.4	73.4
130°	2.0	19.8	53.6	67.4	65.5
132.5°	2.0	15.9	47.6	59.5	57.5
135°	2.0	13.9	41.7	51.6	49.6
137.5°	2.0	11.9	35.7	45.6	43.6
140°	2.0	9.9	31.7	39.7	37.7
142.5°	2.0	7.9	25.8	33.7	31.7
145°	2.0	6.0	21.8	27.8	25.8
147.5°	2.0	4.0	17.9	23.8	21.8
150°	2.0	4.0	13.9	19.8	17.9
152.5°	2.0	4.0	11.9	15.9	11.9
155°	2.0	4.0	7.9	11.9	7.9
157.5°	2.0	4.0	6.0	7.9	6.0
160°	2.0	4.0	6.0	6.0	2.0
162.5°	2.0	4.0	4.0	2.0	0.0
165°	2.0	4.0	4.0	0.0	0.0
167.5°	2.0	4.0	4.0	0.0	0.0
170°	2.0	4.0	4.0	0.0	0.0
172.5°	2.0	4.0	4.0	0.0	0.0
175°	4.0	4.0	4.0	0.0	0.0
177.5°	2.0	4.0	2.0	0.0	0.0
180°	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)