

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-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 (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-L850-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

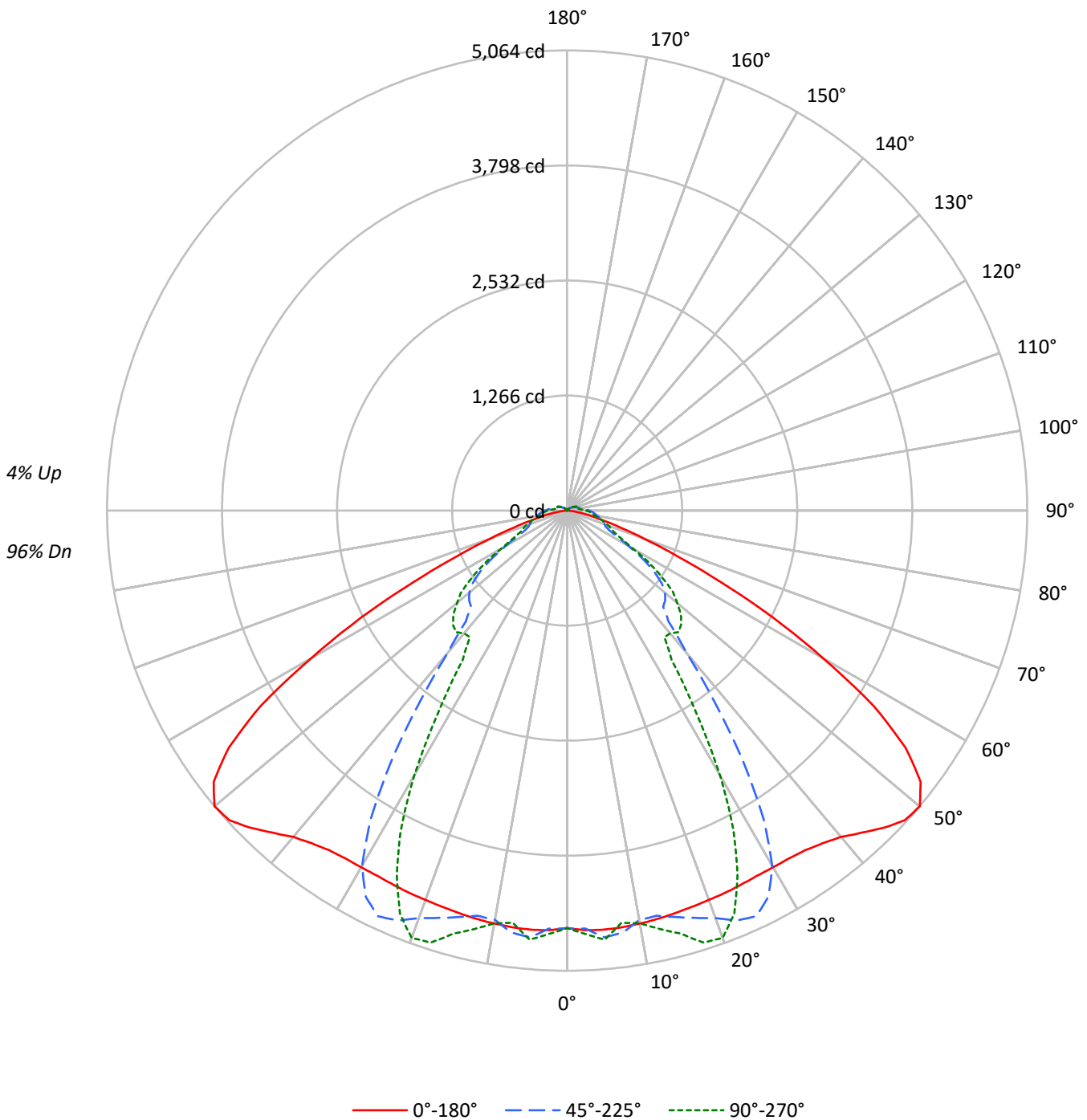
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11084.0 lumens
Efficiency: N/A
Efficacy: 151.0 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_{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	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°	26984	26984	26984
5°	27228	26647	26397
10°	27403	25102	24606
15°	27710	24899	24848
20°	28246	25329	25153
25°	29098	25994	21918
30°	30328	23878	16492
35°	32192	18078	9796
40°	35260	11085	8668
45°	40058	8341	8845
50°	45036	8113	8050
55°	45051	7048	6657
60°	36807	4982	4510
65°	24679	3452	3271
70°	14401	3210	2952
75°	8059	3158	2506
80°	4603	3037	2140
85°	2278	3005	2106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.3	4.0
10°-20°	1332.5	12.0
20°-30°	2120.8	19.1
30°-40°	2161.4	19.5
40°-50°	1825.5	16.5
50°-60°	1407.1	12.7
60°-70°	726.9	6.6
70°-80°	401.6	3.6
80°-90°	255.6	2.3
90°-100°	157.3	1.4
100°-110°	101.4	0.9
110°-120°	73.6	0.7
120°-130°	42.5	0.4
130°-140°	20.5	0.2
140°-150°	8.6	0.1
150°-160°	3.0	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	3897.6	35.2
0°-40°	6059.0	54.7
0°-60°	9291.6	83.8
0°-90°	10675.6	96.3
90°-120°	332.3	3.0
90°-150°	403.9	3.6
90°-180°	408.0	3.7
0°-180°	11084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4596	4596	4596	4596	4596	
5°	4629	4646	4714	4759	4740	441
15°	4586	4589	4632	4797	4818	1299
25°	4539	4570	4925	4684	4435	2102
35°	4563	4778	3383	2300	2005	2880
45°	4934	2880	1494	1724	1776	3811
55°	4544	1059	1168	1270	1270	3935
65°	1863	485	508	572	572	1922
75°	385	319	392	395	385	464
85°	43	208	293	284	270	58
90°	0	161	244	225	208	2
95°	0	125	194	170	156	0
105°	0	76	128	118	111	0
115°	2	45	92	111	109	1
125°	2	24	59	71	64	2
135°	2	12	33	40	33	2
145°	2	5	16	21	16	2
155°	2	2	7	10	5	1
165°	2	5	5	5	0	1
175°	5	5	5	5	0	0
180°	2	2	2	2	2	



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-89SL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4596.0	4596.0	4596.0	4596.0	4596.0
2.5°	4622.0	4605.5	4605.5	4664.6	4664.6
5°	4629.1	4645.6	4714.2	4759.1	4740.2
7.5°	4624.4	4700.0	4683.5	4617.3	4574.7
10°	4614.9	4728.4	4572.4	4617.3	4612.5
12.5°	4603.1	4685.8	4567.6	4726.0	4716.6
15°	4586.5	4588.9	4631.5	4797.0	4818.2
17.5°	4572.4	4527.4	4700.0	4922.3	4983.7
20°	4558.2	4508.5	4773.3	5028.6	5002.6
22.5°	4551.1	4525.1	4882.1	4948.3	4804.0
25°	4539.3	4570.0	4924.6	4683.5	4435.2
27.5°	4529.8	4622.0	4794.6	4231.9	3967.1
30°	4532.2	4695.3	4513.3	3702.3	3369.0
32.5°	4539.3	4766.2	4023.9	2993.1	2647.9
35°	4562.9	4778.0	3383.2	2300.4	2004.8
37.5°	4614.9	4648.0	2685.7	1820.4	1756.6
40°	4688.2	4255.6	2037.9	1699.9	1763.7
42.5°	4806.4	3595.9	1647.8	1718.8	1813.3
45°	4934.1	2879.6	1494.2	1723.5	1775.5
47.5°	5042.8	2125.4	1463.4	1659.7	1697.5
50°	5064.1	1600.6	1404.3	1558.0	1581.6
52.5°	4903.3	1264.8	1309.8	1423.2	1465.8
55°	4544.0	1059.2	1167.9	1269.6	1269.6
57.5°	4002.6	898.4	981.1	1078.1	1068.6
60°	3257.9	740.0	782.5	841.7	827.5
62.5°	2562.8	593.4	607.6	671.4	680.9
65°	1863.0	484.7	508.3	572.1	572.1
67.5°	1307.4	413.7	458.7	517.8	522.5
70°	891.3	373.5	437.4	484.7	487.0
72.5°	607.6	345.2	416.1	442.1	435.0
75°	385.4	319.2	392.5	394.8	385.4
77.5°	250.6	290.8	368.8	349.9	342.8
80°	153.7	262.4	338.1	314.4	302.6
82.5°	87.5	234.1	314.4	297.9	286.1
85°	42.6	208.0	293.2	283.7	269.5
87.5°	16.5	184.4	269.5	255.3	241.1
90°	0.0	160.8	243.5	224.6	208.0
92.5°	0.0	141.9	217.5	193.9	179.7
95°	0.0	125.3	193.9	170.2	156.0
97.5°	0.0	111.1	172.6	151.3	134.8
100°	0.0	99.3	156.0	134.8	122.9
102.5°	0.0	87.5	139.5	125.3	118.2
105°	0.0	75.7	127.7	118.2	111.1
107.5°	0.0	66.2	115.8	113.5	108.8
110°	0.0	59.1	108.8	111.1	113.5



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CATALOG NUMBER: 8SRL-LD5-89SL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	52.0	99.3	113.5	115.8
115°	2.4	44.9	92.2	111.1	108.8
117.5°	2.4	37.8	82.7	99.3	94.6
120°	2.4	33.1	75.7	89.8	82.7
122.5°	2.4	28.4	66.2	78.0	73.3
125°	2.4	23.6	59.1	70.9	63.8
127.5°	2.4	21.3	52.0	61.5	56.7
130°	2.4	18.9	44.9	54.4	49.6
132.5°	2.4	14.2	40.2	47.3	40.2
135°	2.4	11.8	33.1	40.2	33.1
137.5°	2.4	9.5	28.4	33.1	28.4
140°	2.4	7.1	23.6	28.4	23.6
142.5°	2.4	7.1	18.9	26.0	18.9
145°	2.4	4.7	16.5	21.3	16.5
147.5°	2.4	4.7	14.2	18.9	14.2
150°	2.4	4.7	11.8	16.5	9.5
152.5°	2.4	2.4	9.5	14.2	7.1
155°	2.4	2.4	7.1	9.5	4.7
157.5°	2.4	2.4	7.1	7.1	4.7
160°	2.4	2.4	7.1	7.1	2.4
162.5°	2.4	2.4	4.7	4.7	0.0
165°	2.4	4.7	4.7	4.7	0.0
167.5°	2.4	4.7	4.7	4.7	0.0
170°	2.4	4.7	4.7	4.7	0.0
172.5°	2.4	4.7	4.7	4.7	0.0
175°	4.7	4.7	4.7	4.7	0.0
177.5°	4.7	4.7	4.7	4.7	0.0
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)