

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-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 (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-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

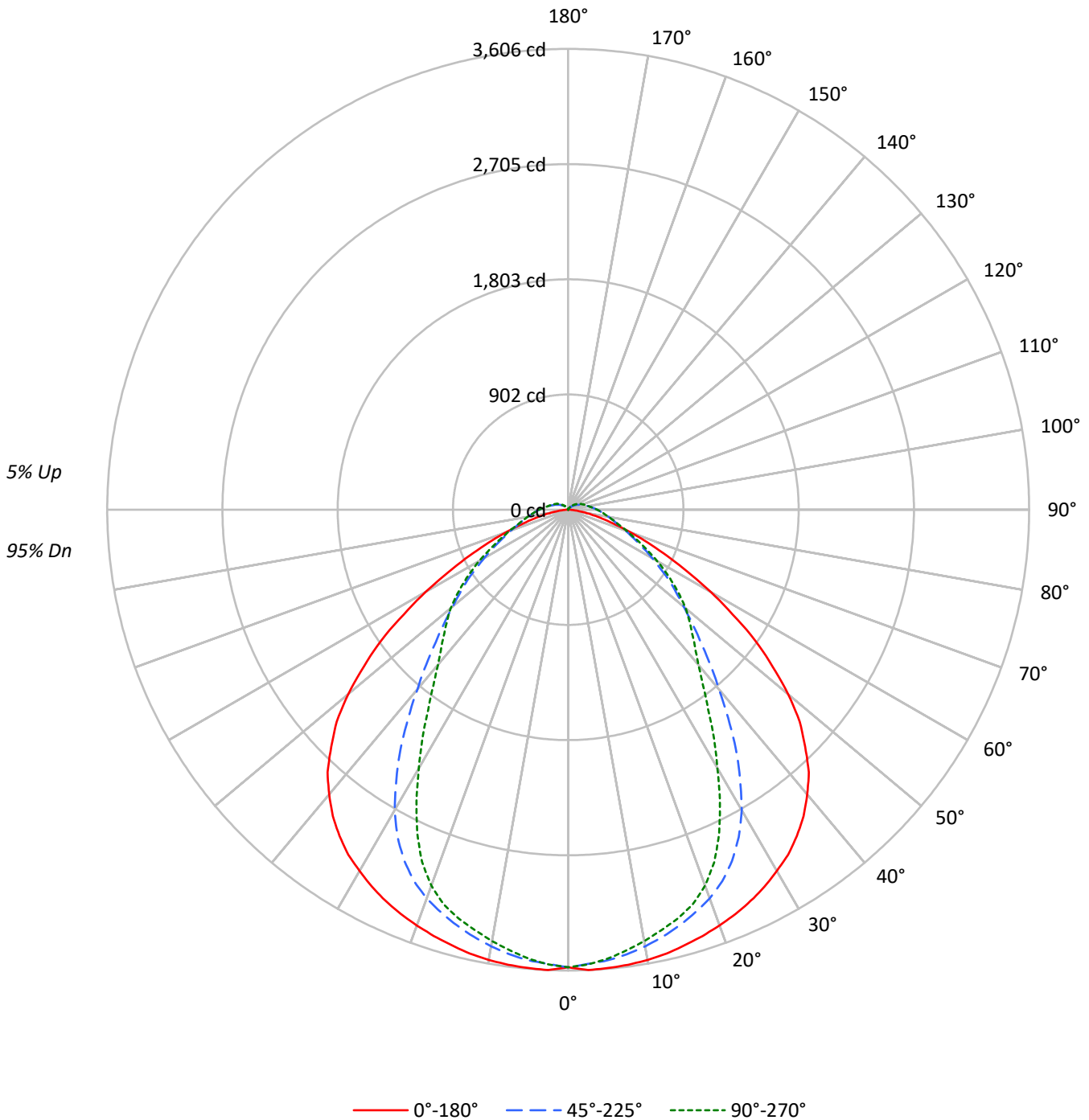
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8187.0 lumens
Efficiency: N/A
Efficacy: 138.3 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				95
1	108	104	100	96	105	101	97	94	96	93	90	91	89	86	87	85	83	80				80
2	99	92	85	80	96	89	83	79	85	80	76	81	77	74	77	74	71	69				69
3	91	82	74	68	88	80	73	67	76	70	65	73	68	63	69	65	62	59				59
4	84	73	65	59	82	71	64	58	68	62	57	65	60	55	63	58	54	52				52
5	78	66	58	51	76	65	57	51	62	55	50	59	54	49	57	52	48	46				46
6	72	60	51	45	70	59	51	45	56	49	44	54	48	44	52	47	43	41				41
7	67	55	46	41	65	54	46	40	52	45	40	50	44	39	48	43	38	37				37
8	63	50	42	37	61	49	42	36	48	41	36	46	40	35	44	39	35	33				33
9	59	46	38	33	57	45	38	33	44	37	33	43	37	32	41	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21024	21024	21024
5°	21177	20010	19644
10°	21242	19042	18285
15°	21311	18101	17079
20°	21450	17177	15738
25°	21652	16004	13805
30°	21840	14364	11433
35°	21995	12223	9323
40°	21880	9981	7775
45°	21276	8184	6834
50°	19978	6804	6103
55°	17733	5816	5240
60°	14531	4832	4379
65°	11257	4053	3586
70°	8319	3478	2970
75°	5924	3082	2526
80°	4109	2864	2255
85°	2572	2739	2102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.4	4.1
10°-20°	958.2	11.7
20°-30°	1400.0	17.1
30°-40°	1495.2	18.3
40°-50°	1317.7	16.1
50°-60°	1000.5	12.2
60°-70°	637.9	7.8
70°-80°	380.5	4.6
80°-90°	239.0	2.9
90°-100°	158.2	1.9
100°-110°	107.5	1.3
110°-120°	72.3	0.9
120°-130°	44.7	0.5
130°-140°	23.6	0.3
140°-150°	10.2	0.1
150°-160°	3.3	0.0
160°-170°	0.7	0.0
170°-180°	0.2	0.0
0°-30°	2695.5	32.9
0°-40°	4190.7	51.2
0°-60°	6509.0	79.5
0°-90°	7766.3	94.9
90°-120°	338.0	4.1
90°-150°	416.6	5.1
90°-180°	421.0	5.1
0°-180°	8187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3581	3581	3581	3581	3581	
5°	3600	3574	3540	3550	3527	343
15°	3527	3462	3367	3344	3312	998
25°	3378	3226	3032	2886	2793	1558
35°	3118	2779	2288	2001	1908	1948
45°	2621	1972	1466	1381	1372	2015
55°	1789	1119	964	998	999	1583
65°	850	575	597	632	627	858
75°	283	292	383	401	388	316
85°	48	159	267	282	269	58
90°	2	119	226	237	226	3
95°	0	91	189	200	189	0
105°	0	57	132	144	139	0
115°	0	36	91	109	107	0
125°	2	23	61	77	75	2
135°	2	12	37	46	44	1
145°	2	5	20	25	23	1
155°	2	4	7	11	7	1
165°	2	4	4	0	0	1
175°	4	4	4	0	0	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3580.8	3580.8	3580.8	3580.8	3580.8
2.5°	3605.8	3584.4	3557.7	3575.5	3561.2
5°	3600.4	3573.7	3539.9	3550.5	3527.4
7.5°	3591.5	3557.7	3509.6	3506.0	3479.3
10°	3577.3	3532.7	3468.6	3456.1	3427.6
12.5°	3557.7	3502.4	3422.3	3402.7	3368.8
15°	3527.4	3461.5	3367.0	3343.9	3311.8
17.5°	3497.1	3415.1	3304.7	3276.2	3238.8
20°	3461.5	3361.7	3237.0	3176.4	3130.1
22.5°	3424.1	3301.1	3147.9	3046.4	2985.8
25°	3377.7	3226.3	3032.1	2886.0	2793.4
27.5°	3326.1	3147.9	2889.6	2679.4	2568.9
30°	3263.7	3042.8	2715.0	2451.4	2335.6
32.5°	3201.4	2928.8	2501.2	2226.9	2121.8
35°	3117.6	2779.2	2287.5	2000.6	1908.0
37.5°	3023.2	2611.7	2054.1	1799.3	1731.6
40°	2909.2	2415.7	1835.0	1631.9	1582.0
42.5°	2786.3	2200.2	1644.3	1496.5	1469.7
45°	2620.6	1972.1	1466.2	1380.7	1371.8
47.5°	2456.7	1744.1	1314.8	1279.1	1284.5
50°	2246.5	1517.8	1177.6	1190.0	1199.0
52.5°	2014.9	1309.4	1065.3	1092.1	1099.2
55°	1788.6	1118.8	963.8	997.6	999.4
57.5°	1525.0	951.3	853.3	905.0	899.7
60°	1286.2	803.5	758.9	799.9	803.5
62.5°	1051.1	682.3	675.2	710.8	709.0
65°	849.8	575.4	596.8	632.4	627.1
67.5°	675.2	481.0	530.9	561.2	548.7
70°	514.9	408.0	473.9	497.0	489.9
72.5°	386.6	345.6	424.0	445.4	432.9
75°	283.3	292.2	383.0	400.8	388.4
77.5°	203.1	251.2	351.0	361.6	352.7
80°	137.2	213.8	318.9	333.1	318.9
82.5°	87.3	183.5	292.2	304.6	292.2
85°	48.1	158.6	267.2	281.5	269.0
87.5°	21.4	137.2	245.8	258.3	247.6
90°	1.8	119.4	226.3	236.9	226.3
92.5°	0.0	103.3	206.7	219.1	208.4
95°	0.0	90.9	188.8	199.5	188.8
97.5°	0.0	80.2	172.8	183.5	174.6
100°	0.0	71.3	158.6	169.2	160.3
102.5°	0.0	62.4	144.3	156.8	149.6
105°	0.0	57.0	131.8	144.3	139.0
107.5°	0.0	49.9	121.1	135.4	131.8
110°	0.0	44.5	110.5	126.5	122.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	41.0	99.8	117.6	114.0
115°	0.0	35.6	90.9	108.7	106.9
117.5°	0.0	32.1	83.7	99.8	99.8
120°	1.8	28.5	76.6	92.6	90.9
122.5°	1.8	24.9	67.7	83.7	81.9
125°	1.8	23.2	60.6	76.6	74.8
127.5°	1.8	19.6	55.2	67.7	65.9
130°	1.8	17.8	48.1	60.6	58.8
132.5°	1.8	14.3	42.8	53.4	51.7
135°	1.8	12.5	37.4	46.3	44.5
137.5°	1.8	10.7	32.1	41.0	39.2
140°	1.8	8.9	28.5	35.6	33.8
142.5°	1.8	7.1	23.2	30.3	28.5
145°	1.8	5.3	19.6	24.9	23.2
147.5°	1.8	3.6	16.0	21.4	19.6
150°	1.8	3.6	12.5	17.8	16.0
152.5°	1.8	3.6	10.7	14.3	10.7
155°	1.8	3.6	7.1	10.7	7.1
157.5°	1.8	3.6	5.3	7.1	5.3
160°	1.8	3.6	5.3	5.3	1.8
162.5°	1.8	3.6	3.6	1.8	0.0
165°	1.8	3.6	3.6	0.0	0.0
167.5°	1.8	3.6	3.6	0.0	0.0
170°	1.8	3.6	3.6	0.0	0.0
172.5°	1.8	3.6	3.6	0.0	0.0
175°	3.6	3.6	3.6	0.0	0.0
177.5°	1.8	3.6	1.8	0.0	0.0
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)