

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-LD5-83SL-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-LD5-83SL-LC-UNV-L850-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

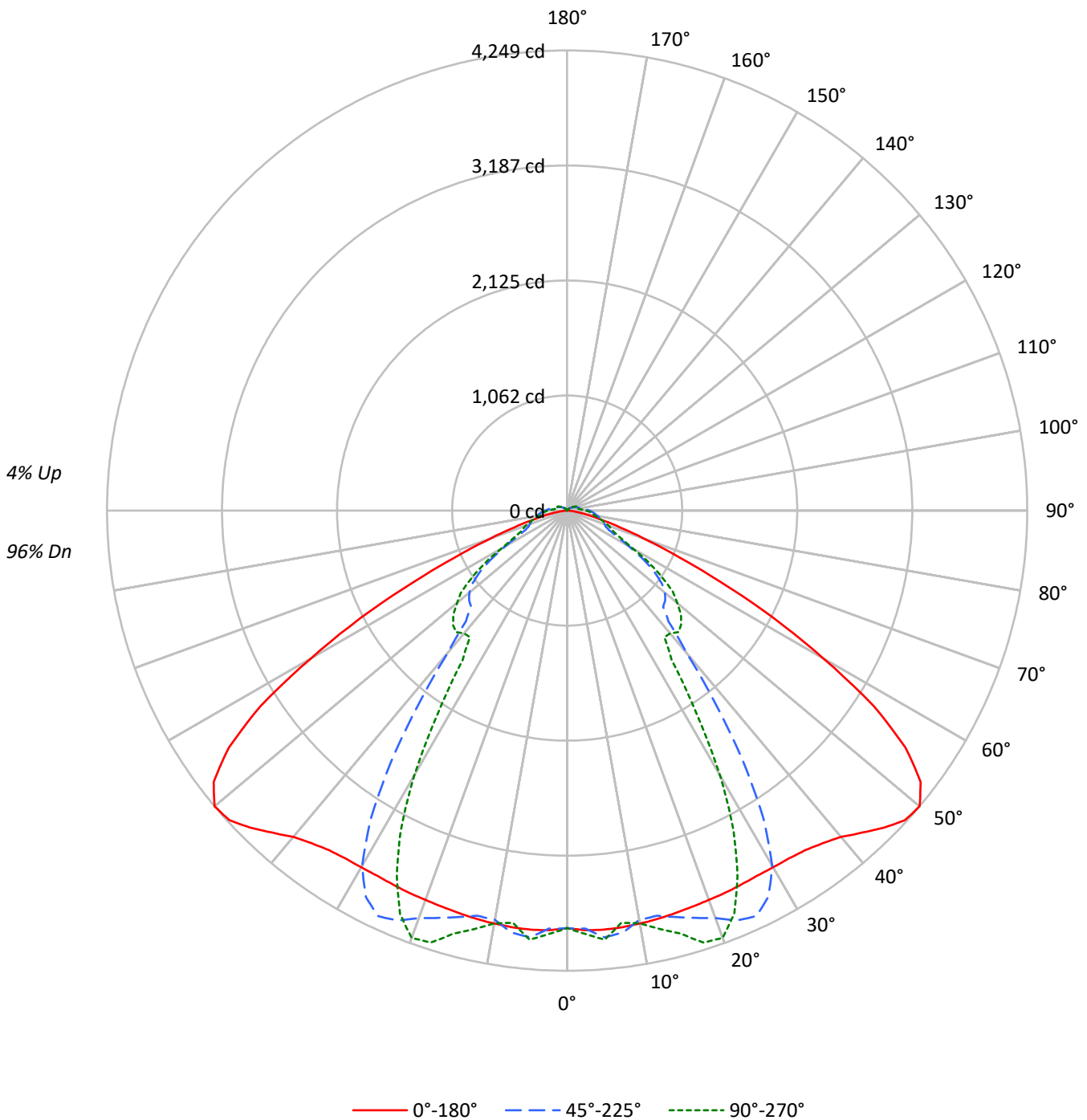
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9300.0 lumens
Efficiency: N/A
Efficacy: 157.1 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): 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

TEST NUMBER: P#
CATALOG NUMBER: 8SRL-LD5-83SL-LC-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-83SL-LC-UNV-L850-CD1-U

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	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	83
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	72
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	62
4	86	75	67	61	83	73	66	60	70	64	59	68	62	58	65	60	57	54
5	79	67	59	53	77	66	59	53	64	57	52	61	56	51	59	54	50	48
6	74	61	53	47	72	60	52	47	58	51	46	56	50	46	54	49	45	43
7	69	56	48	42	67	55	47	42	53	46	41	52	45	41	50	45	40	38
8	64	51	43	38	62	51	43	38	49	42	37	48	41	37	46	41	37	35
9	60	47	40	35	58	47	39	34	45	39	34	44	38	34	43	37	33	32
10	56	44	36	32	55	43	36	31	42	36	31	41	35	31	40	34	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22641	22641	22641
5°	22846	22358	22149
10°	22993	21061	20646
15°	23250	20892	20849
20°	23700	21253	21105
25°	24415	21810	18391
30°	25447	20034	13837
35°	27011	15168	8220
40°	29584	9301	7273
45°	33610	6998	7421
50°	37787	6808	6755
55°	37799	5913	5586
60°	30882	4180	3784
65°	20706	2897	2745
70°	12082	2693	2477
75°	6761	2650	2103
80°	3861	2548	1796
85°	1909	2522	1767



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-83SL-LC-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.8	4.0
10°-20°	1118.1	12.0
20°-30°	1779.4	19.1
30°-40°	1813.5	19.5
40°-50°	1531.7	16.5
50°-60°	1180.6	12.7
60°-70°	609.9	6.6
70°-80°	337.0	3.6
80°-90°	214.4	2.3
90°-100°	132.0	1.4
100°-110°	85.1	0.9
110°-120°	61.7	0.7
120°-130°	35.7	0.4
130°-140°	17.2	0.2
140°-150°	7.2	0.1
150°-160°	2.5	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	3270.3	35.2
0°-40°	5083.8	54.7
0°-60°	7796.0	83.8
0°-90°	8957.3	96.3
90°-120°	278.8	3.0
90°-150°	338.9	3.6
90°-180°	343.0	3.7
0°-180°	9300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3856	3856	3856	3856	3856	
5°	3884	3898	3955	3993	3977	370
15°	3848	3850	3886	4025	4043	1090
25°	3809	3834	4132	3930	3721	1763
35°	3828	4009	2839	1930	1682	2417
45°	4140	2416	1254	1446	1490	3197
55°	3813	889	980	1065	1065	3301
65°	1563	407	426	480	480	1613
75°	323	268	329	331	323	389
85°	36	175	246	238	226	49
90°	0	135	204	188	175	2
95°	0	105	163	143	131	0
105°	0	64	107	99	93	0
115°	2	38	77	93	91	1
125°	2	20	50	60	54	2
135°	2	10	28	34	28	2
145°	2	4	14	18	14	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#

CATALOG NUMBER: 8SRL-LD5-83SL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3856.3	3856.3	3856.3	3856.3	3856.3
2.5°	3878.1	3864.2	3864.2	3913.8	3913.8
5°	3884.0	3897.9	3955.4	3993.1	3977.3
7.5°	3880.1	3943.5	3929.7	3874.1	3838.4
10°	3872.1	3967.3	3836.4	3874.1	3870.1
12.5°	3862.2	3931.6	3832.5	3965.4	3957.4
15°	3848.3	3850.3	3886.0	4024.9	4042.7
17.5°	3836.4	3798.7	3943.5	4130.0	4181.6
20°	3824.5	3782.9	4005.0	4219.3	4197.5
22.5°	3818.6	3796.7	4096.3	4151.8	4030.8
25°	3808.7	3834.4	4132.0	3929.7	3721.4
27.5°	3800.7	3878.1	4022.9	3550.8	3328.6
30°	3802.7	3939.6	3786.8	3106.4	2826.7
32.5°	3808.7	3999.1	3376.2	2511.3	2221.7
35°	3828.5	4009.0	2838.6	1930.1	1682.2
37.5°	3872.1	3899.9	2253.5	1527.4	1473.9
40°	3933.6	3570.6	1709.9	1426.3	1479.8
42.5°	4032.8	3017.2	1382.6	1442.1	1521.5
45°	4139.9	2416.1	1253.7	1446.1	1489.7
47.5°	4231.2	1783.3	1227.9	1392.5	1424.3
50°	4249.0	1342.9	1178.3	1307.2	1327.1
52.5°	4114.1	1061.3	1099.0	1194.2	1229.9
55°	3812.6	888.7	979.9	1065.2	1065.2
57.5°	3358.4	753.8	823.2	904.6	896.6
60°	2733.5	620.9	656.6	706.2	694.3
62.5°	2150.3	497.9	509.8	563.4	571.3
65°	1563.1	406.7	426.5	480.0	480.0
67.5°	1097.0	347.1	384.8	434.4	438.4
70°	747.8	313.4	367.0	406.7	408.6
72.5°	509.8	289.6	349.1	370.9	365.0
75°	323.3	267.8	329.3	331.3	323.3
77.5°	210.3	244.0	309.5	293.6	287.6
80°	128.9	220.2	283.7	263.8	253.9
82.5°	73.4	196.4	263.8	249.9	240.0
85°	35.7	174.6	246.0	238.0	226.1
87.5°	13.9	154.7	226.1	214.2	202.3
90°	0.0	134.9	204.3	188.4	174.6
92.5°	0.0	119.0	182.5	162.7	150.8
95°	0.0	105.1	162.7	142.8	130.9
97.5°	0.0	93.2	144.8	127.0	113.1
100°	0.0	83.3	130.9	113.1	103.2
102.5°	0.0	73.4	117.0	105.1	99.2
105°	0.0	63.5	107.1	99.2	93.2
107.5°	0.0	55.5	97.2	95.2	91.2
110°	0.0	49.6	91.2	93.2	95.2



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-83SL-LC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	43.6	83.3	95.2	97.2
115°	2.0	37.7	77.4	93.2	91.2
117.5°	2.0	31.7	69.4	83.3	79.3
120°	2.0	27.8	63.5	75.4	69.4
122.5°	2.0	23.8	55.5	65.5	61.5
125°	2.0	19.8	49.6	59.5	53.6
127.5°	2.0	17.9	43.6	51.6	47.6
130°	2.0	15.9	37.7	45.6	41.7
132.5°	2.0	11.9	33.7	39.7	33.7
135°	2.0	9.9	27.8	33.7	27.8
137.5°	2.0	7.9	23.8	27.8	23.8
140°	2.0	6.0	19.8	23.8	19.8
142.5°	2.0	6.0	15.9	21.8	15.9
145°	2.0	4.0	13.9	17.9	13.9
147.5°	2.0	4.0	11.9	15.9	11.9
150°	2.0	4.0	9.9	13.9	7.9
152.5°	2.0	2.0	7.9	11.9	6.0
155°	2.0	2.0	6.0	7.9	4.0
157.5°	2.0	2.0	6.0	6.0	4.0
160°	2.0	2.0	6.0	6.0	2.0
162.5°	2.0	2.0	4.0	4.0	0.0
165°	2.0	4.0	4.0	4.0	0.0
167.5°	2.0	4.0	4.0	4.0	0.0
170°	2.0	4.0	4.0	4.0	0.0
172.5°	2.0	4.0	4.0	4.0	0.0
175°	4.0	4.0	4.0	4.0	0.0
177.5°	4.0	4.0	4.0	4.0	0.0
180°	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)