

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: **4SRL-LD5-33SL-LN-UNV-L835-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: 4SRL-LD5-33SL-LN-UNV-L835-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

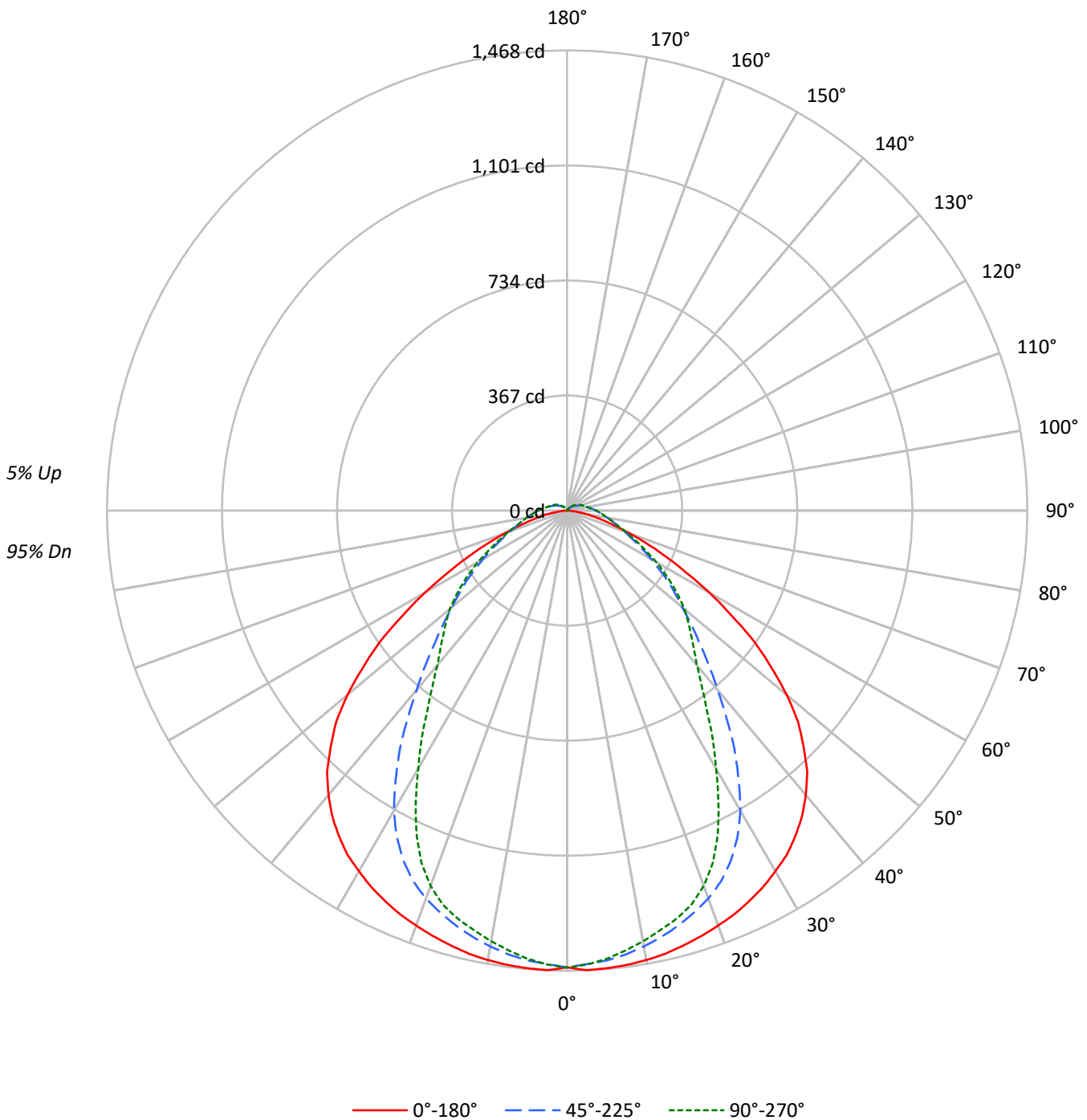
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3332.1 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.04 / 1.14
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 3.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (Ain): 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: 4SRL-LD5-33SL-LN-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-33SL-LN-UNV-L835-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	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°	17112	17112	17112
5°	17204	16265	15989
10°	17222	15460	14884
15°	17242	14678	13902
20°	17318	13912	12810
25°	17441	12948	11237
30°	17550	11608	9306
35°	17627	9867	7589
40°	17482	8047	6328
45°	16941	6590	5563
50°	15844	5472	4968
55°	13993	4672	4266
60°	11397	3875	3564
65°	8755	3245	2918
70°	6394	2779	2418
75°	4472	2457	2056
80°	3000	2276	1836
85°	1738	2170	1711



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-33SL-LN-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	4.1
10°-20°	390.0	11.7
20°-30°	569.8	17.1
30°-40°	608.5	18.3
40°-50°	536.3	16.1
50°-60°	407.2	12.2
60°-70°	259.6	7.8
70°-80°	154.9	4.6
80°-90°	97.3	2.9
90°-100°	64.4	1.9
100°-110°	43.8	1.3
110°-120°	29.4	0.9
120°-130°	18.2	0.5
130°-140°	9.6	0.3
140°-150°	4.2	0.1
150°-160°	1.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1097.0	32.9
0°-40°	1705.6	51.2
0°-60°	2649.1	79.5
0°-90°	3160.8	94.9
90°-120°	137.6	4.1
90°-150°	169.6	5.1
90°-180°	171.0	5.1
0°-180°	3332.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1465	1454	1441	1445	1436	140
15°	1436	1409	1370	1361	1348	406
25°	1375	1313	1234	1175	1137	634
35°	1269	1131	931	814	776	793
45°	1066	803	597	562	558	820
55°	728	455	392	406	407	644
65°	346	234	243	257	255	349
75°	115	119	156	163	158	128
85°	20	64	109	115	110	24
90°	1	49	92	96	92	1
95°	0	37	77	81	77	0
105°	0	23	54	59	57	0
115°	0	14	37	44	44	0
125°	1	9	25	31	30	1
135°	1	5	15	19	18	1
145°	1	2	8	10	9	0
155°	1	2	3	4	3	0
165°	1	2	2	0	0	0
175°	2	2	2	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-33SL-LN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.3	1457.3	1457.3	1457.3	1457.3
2.5°	1467.5	1458.8	1447.9	1455.2	1449.4
5°	1465.3	1454.4	1440.7	1445.0	1435.6
7.5°	1461.7	1447.9	1428.3	1426.9	1416.0
10°	1455.9	1437.8	1411.7	1406.6	1395.0
12.5°	1447.9	1425.4	1392.8	1384.8	1371.1
15°	1435.6	1408.8	1370.3	1360.9	1347.9
17.5°	1423.3	1389.9	1345.0	1333.4	1318.1
20°	1408.8	1368.2	1317.4	1292.8	1273.9
22.5°	1393.5	1343.5	1281.2	1239.8	1215.2
25°	1374.7	1313.1	1234.0	1174.6	1136.9
27.5°	1353.7	1281.2	1176.0	1090.5	1045.5
30°	1328.3	1238.4	1105.0	997.7	950.5
32.5°	1302.9	1192.0	1018.0	906.3	863.5
35°	1268.8	1131.1	931.0	814.2	776.5
37.5°	1230.4	1062.9	836.0	732.3	704.7
40°	1184.0	983.2	746.8	664.1	643.8
42.5°	1134.0	895.4	669.2	609.0	598.2
45°	1066.5	802.6	596.7	561.9	558.3
47.5°	999.8	709.8	535.1	520.6	522.8
50°	914.3	617.7	479.3	484.3	488.0
52.5°	820.0	532.9	433.6	444.5	447.4
55°	727.9	455.3	392.3	406.0	406.8
57.5°	620.6	387.2	347.3	368.3	366.2
60°	523.5	327.0	308.9	325.5	327.0
62.5°	427.8	277.7	274.8	289.3	288.6
65°	345.8	234.2	242.9	257.4	255.2
67.5°	274.8	195.8	216.1	228.4	223.3
70°	209.5	166.0	192.9	202.3	199.4
72.5°	157.3	140.7	172.6	181.3	176.2
75°	115.3	118.9	155.9	163.1	158.1
77.5°	82.7	102.2	142.8	147.2	143.6
80°	55.8	87.0	129.8	135.6	129.8
82.5°	35.5	74.7	118.9	124.0	118.9
85°	19.6	64.5	108.8	114.6	109.5
87.5°	8.7	55.8	100.1	105.1	100.8
90°	0.7	48.6	92.1	96.4	92.1
92.5°	0.0	42.1	84.1	89.2	84.8
95°	0.0	37.0	76.9	81.2	76.9
97.5°	0.0	32.6	70.3	74.7	71.1
100°	0.0	29.0	64.5	68.9	65.3
102.5°	0.0	25.4	58.7	63.8	60.9
105°	0.0	23.2	53.7	58.7	56.6
107.5°	0.0	20.3	49.3	55.1	53.7
110°	0.0	18.1	45.0	51.5	50.0



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-33SL-LN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.7	40.6	47.9	46.4
115°	0.0	14.5	37.0	44.2	43.5
117.5°	0.0	13.1	34.1	40.6	40.6
120°	0.7	11.6	31.2	37.7	37.0
122.5°	0.7	10.2	27.6	34.1	33.4
125°	0.7	9.4	24.7	31.2	30.5
127.5°	0.7	8.0	22.5	27.6	26.8
130°	0.7	7.3	19.6	24.7	23.9
132.5°	0.7	5.8	17.4	21.8	21.0
135°	0.7	5.1	15.2	18.9	18.1
137.5°	0.7	4.4	13.1	16.7	16.0
140°	0.7	3.6	11.6	14.5	13.8
142.5°	0.7	2.9	9.4	12.3	11.6
145°	0.7	2.2	8.0	10.2	9.4
147.5°	0.7	1.5	6.5	8.7	8.0
150°	0.7	1.5	5.1	7.3	6.5
152.5°	0.7	1.5	4.4	5.8	4.4
155°	0.7	1.5	2.9	4.4	2.9
157.5°	0.7	1.5	2.2	2.9	2.2
160°	0.7	1.5	2.2	2.2	0.7
162.5°	0.7	1.5	1.5	0.7	0.0
165°	0.7	1.5	1.5	0.0	0.0
167.5°	0.7	1.5	1.5	0.0	0.0
170°	0.7	1.5	1.5	0.0	0.0
172.5°	0.7	1.5	1.5	0.0	0.0
175°	1.5	1.5	1.5	0.0	0.0
177.5°	0.7	1.5	0.7	0.0	0.0
180°	0.7	0.7	0.7	0.7	0.7

(END OF REPORT)