

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-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: 4SRL-LD5-33SL-LN-UNV-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

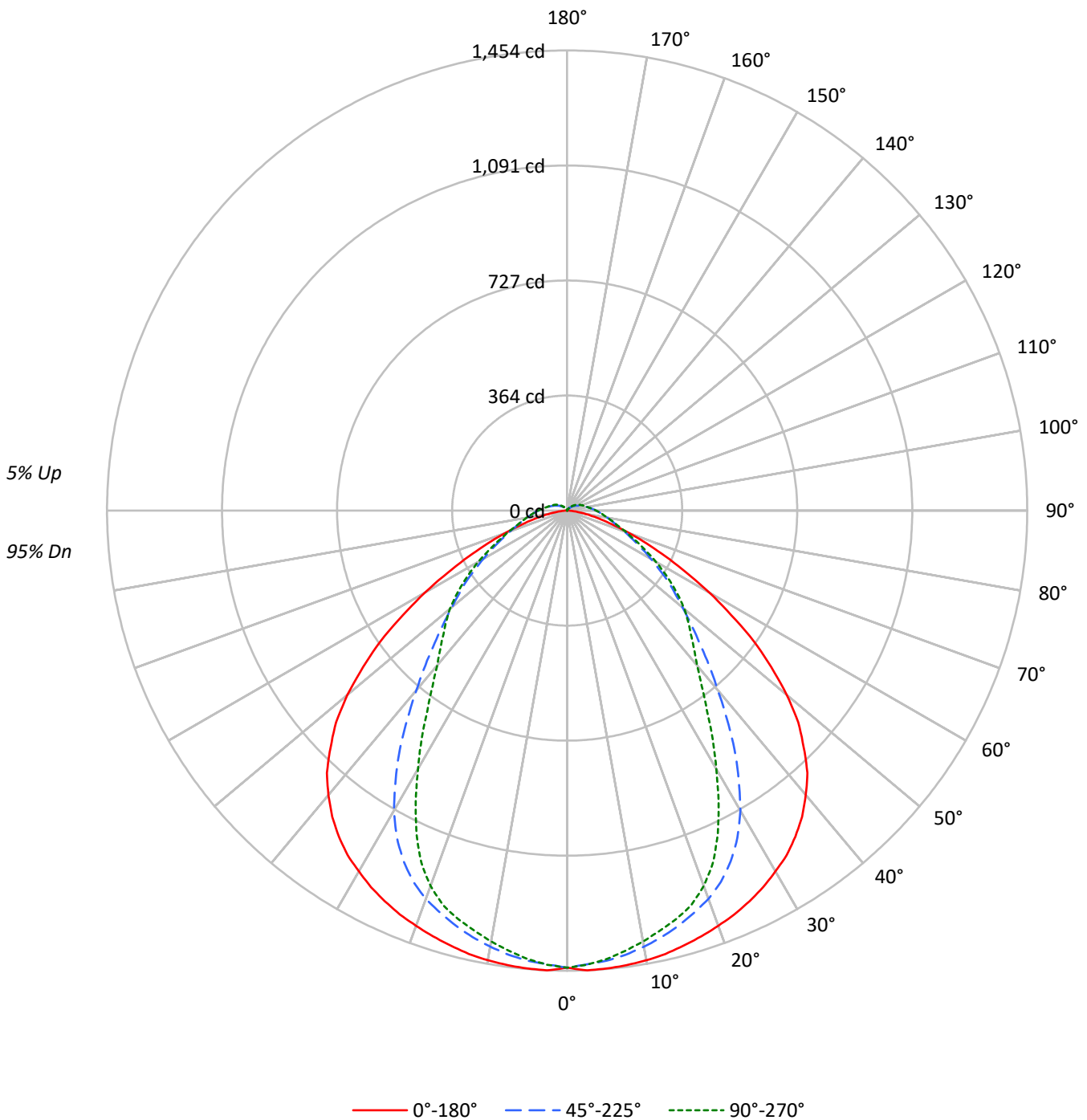
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3302.0 lumens
Efficiency: N/A
Efficacy: 142.9 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

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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°	16958	16958	16958
5°	17049	16119	15846
10°	17067	15321	14749
15°	17087	14546	13777
20°	17162	13788	12695
25°	17284	12831	11135
30°	17391	11503	9223
35°	17469	9778	7520
40°	17324	7975	6271
45°	16788	6531	5513
50°	15702	5422	4923
55°	13868	4629	4227
60°	11295	3840	3532
65°	8676	3215	2892
70°	6339	2753	2396
75°	4430	2434	2037
80°	2973	2255	1819
85°	1720	2150	1696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	4.1
10°-20°	386.5	11.7
20°-30°	564.6	17.1
30°-40°	603.1	18.3
40°-50°	531.5	16.1
50°-60°	403.5	12.2
60°-70°	257.3	7.8
70°-80°	153.4	4.6
80°-90°	96.4	2.9
90°-100°	63.8	1.9
100°-110°	43.4	1.3
110°-120°	29.1	0.9
120°-130°	18.0	0.5
130°-140°	9.5	0.3
140°-150°	4.1	0.1
150°-160°	1.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1087.2	32.9
0°-40°	1690.2	51.2
0°-60°	2625.2	79.5
0°-90°	3132.3	94.9
90°-120°	136.3	4.1
90°-150°	168.0	5.1
90°-180°	170.0	5.1
0°-180°	3302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1452	1441	1428	1432	1423	138
15°	1423	1396	1358	1349	1336	402
25°	1362	1301	1223	1164	1127	629
35°	1257	1121	923	807	770	785
45°	1057	795	591	557	553	813
55°	721	451	389	402	403	638
65°	343	232	241	255	253	346
75°	114	118	154	162	157	127
85°	19	64	108	114	108	24
90°	1	48	91	96	91	1
95°	0	37	76	80	76	0
105°	0	23	53	58	56	0
115°	0	14	37	44	43	0
125°	1	9	24	31	30	1
135°	1	5	15	19	18	1
145°	1	2	8	10	9	0
155°	1	1	3	4	3	0
165°	1	1	1	0	0	0
175°	1	1	1	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1444.2	1444.2	1444.2	1444.2	1444.2
2.5°	1454.3	1445.7	1434.9	1442.1	1436.3
5°	1452.1	1441.4	1427.7	1432.0	1422.7
7.5°	1448.5	1434.9	1415.5	1414.1	1403.3
10°	1442.8	1424.8	1399.0	1393.9	1382.4
12.5°	1434.9	1412.6	1380.3	1372.4	1358.7
15°	1422.7	1396.1	1358.0	1348.7	1335.7
17.5°	1410.5	1377.4	1332.9	1321.4	1306.3
20°	1396.1	1355.9	1305.6	1281.1	1262.4
22.5°	1381.0	1331.4	1269.6	1228.7	1204.2
25°	1362.3	1301.2	1222.9	1164.0	1126.6
27.5°	1341.5	1269.6	1165.4	1080.7	1036.1
30°	1316.3	1227.2	1095.0	988.7	942.0
32.5°	1291.2	1181.2	1008.8	898.2	855.8
35°	1257.4	1120.9	922.6	806.9	769.5
37.5°	1219.3	1053.4	828.5	725.7	698.4
40°	1173.3	974.3	740.1	658.2	638.0
42.5°	1123.8	887.4	663.2	603.6	592.8
45°	1056.9	795.4	591.3	556.9	553.3
47.5°	990.8	703.4	530.3	515.9	518.1
50°	906.1	612.2	474.9	480.0	483.6
52.5°	812.6	528.1	429.7	440.5	443.3
55°	721.4	451.2	388.7	402.4	403.1
57.5°	615.1	383.7	344.2	365.0	362.9
60°	518.8	324.1	306.1	322.6	324.1
62.5°	423.9	275.2	272.3	286.7	286.0
65°	342.7	232.1	240.7	255.1	252.9
67.5°	272.3	194.0	214.1	226.3	221.3
70°	207.7	164.5	191.1	200.5	197.6
72.5°	155.9	139.4	171.0	179.6	174.6
75°	114.2	117.8	154.5	161.7	156.6
77.5°	81.9	101.3	141.5	145.9	142.3
80°	55.3	86.2	128.6	134.4	128.6
82.5°	35.2	74.0	117.8	122.9	117.8
85°	19.4	63.9	107.8	113.5	108.5
87.5°	8.6	55.3	99.2	104.2	99.9
90°	0.7	48.1	91.3	95.6	91.3
92.5°	0.0	41.7	83.3	88.4	84.1
95°	0.0	36.6	76.2	80.5	76.2
97.5°	0.0	32.3	69.7	74.0	70.4
100°	0.0	28.7	63.9	68.3	64.7
102.5°	0.0	25.1	58.2	63.2	60.4
105°	0.0	23.0	53.2	58.2	56.0
107.5°	0.0	20.1	48.9	54.6	53.2
110°	0.0	18.0	44.5	51.0	49.6



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.5	40.2	47.4	46.0
115°	0.0	14.4	36.6	43.8	43.1
117.5°	0.0	12.9	33.8	40.2	40.2
120°	0.7	11.5	30.9	37.4	36.6
122.5°	0.7	10.1	27.3	33.8	33.1
125°	0.7	9.3	24.4	30.9	30.2
127.5°	0.7	7.9	22.3	27.3	26.6
130°	0.7	7.2	19.4	24.4	23.7
132.5°	0.7	5.7	17.2	21.6	20.8
135°	0.7	5.0	15.1	18.7	18.0
137.5°	0.7	4.3	12.9	16.5	15.8
140°	0.7	3.6	11.5	14.4	13.7
142.5°	0.7	2.9	9.3	12.2	11.5
145°	0.7	2.2	7.9	10.1	9.3
147.5°	0.7	1.4	6.5	8.6	7.9
150°	0.7	1.4	5.0	7.2	6.5
152.5°	0.7	1.4	4.3	5.7	4.3
155°	0.7	1.4	2.9	4.3	2.9
157.5°	0.7	1.4	2.2	2.9	2.2
160°	0.7	1.4	2.2	2.2	0.7
162.5°	0.7	1.4	1.4	0.7	0.0
165°	0.7	1.4	1.4	0.0	0.0
167.5°	0.7	1.4	1.4	0.0	0.0
170°	0.7	1.4	1.4	0.0	0.0
172.5°	0.7	1.4	1.4	0.0	0.0
175°	1.4	1.4	1.4	0.0	0.0
177.5°	0.7	1.4	0.7	0.0	0.0
180°	0.7	0.7	0.7	0.7	0.7

(END OF REPORT)