

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-LD5-50SL-LW-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 (P35653)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SRL-LD5-50SL-LW-UNV-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

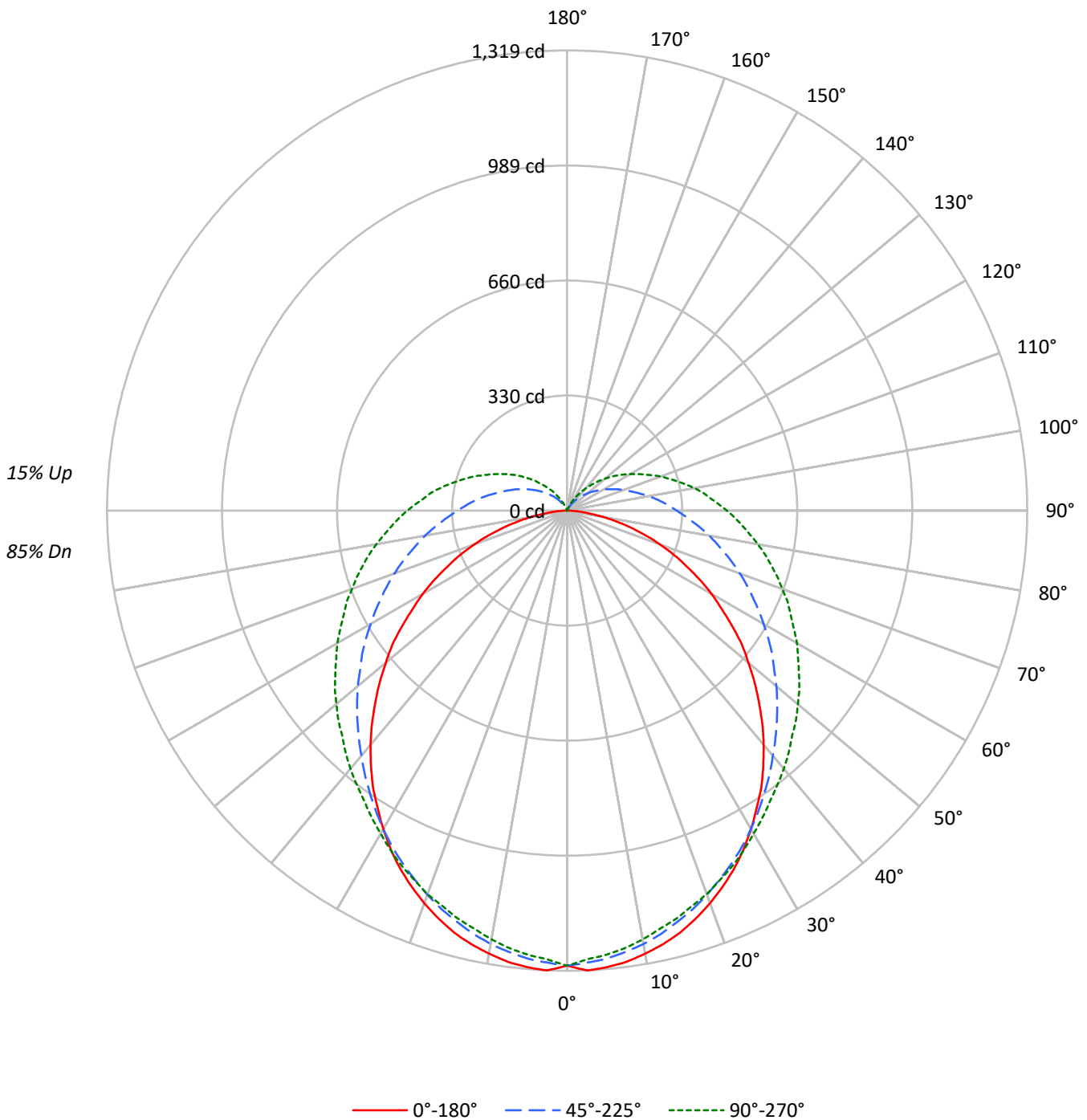
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5019.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 3.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 43.1
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	0
RCR																				
0	116	116	116	116	111	111	111	111	103	103	103		95	95	95		88	88	88	85
1	103	97	92	87	98	93	88	84	86	82	79		80	76	74		74	71	69	66
2	92	83	75	69	88	80	73	67	74	68	63		68	64	59		63	59	56	53
3	84	72	63	56	80	70	61	55	64	58	52		60	54	49		55	51	47	44
4	76	64	54	47	73	61	53	46	57	50	44		53	47	42		49	44	40	37
5	70	57	47	40	67	55	46	39	51	43	38		47	41	36		44	38	34	32
6	65	51	42	35	62	49	40	34	46	38	33		43	36	31		40	34	30	27
7	60	46	37	31	57	44	36	30	42	34	29		39	32	28		36	31	26	24
8	56	42	33	27	53	41	32	27	38	31	26		36	29	25		33	28	24	21
9	52	38	30	24	50	37	29	24	35	28	23		33	27	22		31	25	21	19
10	49	35	27	22	47	34	27	22	32	25	21		30	24	20		29	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15317	15317	15317
5°	15425	14558	14237
10°	15253	13815	13320
15°	15038	13071	12490
20°	14725	12374	11764
25°	14369	11707	11101
30°	13926	11072	10466
35°	13475	10457	9917
40°	12942	9888	9498
45°	12348	9391	9087
50°	11756	8939	8789
55°	11102	8545	8506
60°	10415	8157	8290
65°	9557	7839	8078
70°	8613	7591	7954
75°	7323	7362	7876
80°	5527	7243	7850
85°	3148	7193	7887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	2.4
10°-20°	346.4	6.9
20°-30°	517.3	10.3
30°-40°	620.0	12.4
40°-50°	655.8	13.1
50°-60°	633.3	12.6
60°-70°	563.4	11.2
70°-80°	463.2	9.2
80°-90°	354.2	7.1
90°-100°	266.4	5.3
100°-110°	194.4	3.9
110°-120°	133.2	2.7
120°-130°	83.1	1.7
130°-140°	44.3	0.9
140°-150°	17.8	0.4
150°-160°	3.4	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	986.4	19.7
0°-40°	1606.4	32.0
0°-60°	2895.5	57.7
0°-90°	4276.4	85.2
90°-120°	594.0	11.8
90°-150°	739.2	14.7
90°-180°	743.0	14.8
0°-180°	5019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1314	1306	1290	1288	1278	125
15°	1252	1239	1220	1220	1211	353
25°	1132	1121	1116	1129	1123	521
35°	970	966	987	1015	1015	606
45°	777	800	850	899	912	600
55°	578	630	718	789	811	517
65°	378	464	587	678	706	375
75°	189	312	467	574	606	200
85°	36	192	361	469	505	43
90°	0	148	314	422	458	2
95°	0	114	275	379	411	0
105°	0	71	202	295	325	0
115°	0	43	144	222	245	0
125°	0	26	97	157	176	0
135°	0	13	60	99	110	0
145°	0	4	26	50	58	0
155°	0	0	4	13	13	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.4	1304.4	1304.4	1304.4	1304.4
2.5°	1319.4	1311.9	1297.0	1295.1	1287.6
5°	1313.8	1306.3	1289.5	1287.6	1278.3
7.5°	1304.4	1295.1	1276.4	1274.5	1265.2
10°	1289.5	1280.1	1261.5	1259.6	1248.4
12.5°	1272.7	1263.3	1242.8	1240.9	1227.8
15°	1252.1	1239.0	1220.3	1220.3	1211.0
17.5°	1225.9	1214.7	1197.9	1199.8	1188.6
20°	1197.9	1186.7	1171.7	1177.4	1169.9
22.5°	1166.1	1153.1	1143.7	1151.2	1145.6
25°	1132.5	1121.3	1115.7	1128.8	1123.2
27.5°	1095.1	1083.9	1085.8	1098.9	1097.0
30°	1054.0	1046.5	1054.0	1070.8	1069.0
32.5°	1011.0	1007.3	1020.4	1042.8	1042.8
35°	969.9	966.2	986.7	1014.8	1014.8
37.5°	923.2	925.1	953.1	984.9	990.5
40°	876.5	884.0	917.6	956.8	966.2
42.5°	827.9	841.0	884.0	926.9	940.0
45°	777.4	799.9	850.3	898.9	912.0
47.5°	728.8	756.9	816.7	872.7	889.6
50°	678.4	712.0	783.0	844.7	863.4
52.5°	631.7	670.9	747.5	816.7	839.1
55°	577.5	629.8	717.6	788.6	811.1
57.5°	525.1	586.8	684.0	760.6	784.9
60°	478.4	543.8	650.3	734.4	760.6
62.5°	428.0	502.7	618.6	706.4	732.6
65°	377.5	463.5	586.8	678.4	706.4
67.5°	330.8	422.4	556.9	652.2	684.0
70°	282.2	385.0	527.0	626.1	656.0
72.5°	235.5	347.6	497.1	598.0	631.7
75°	188.8	312.1	467.2	573.7	605.5
77.5°	143.9	278.5	439.2	547.6	581.2
80°	102.8	246.7	413.0	521.4	555.0
82.5°	65.4	216.8	386.8	495.2	528.9
85°	35.5	192.5	360.7	469.1	504.6
87.5°	13.1	166.3	336.4	446.6	482.2
90°	0.0	147.6	314.0	422.4	457.9
92.5°	0.0	128.9	293.4	399.9	433.6
95°	0.0	114.0	274.7	379.4	411.1
97.5°	0.0	100.9	256.0	358.8	392.5
100°	0.0	89.7	237.3	336.4	370.0
102.5°	0.0	78.5	218.7	315.8	347.6
105°	0.0	71.0	201.8	295.3	325.2
107.5°	0.0	63.5	186.9	278.5	304.6
110°	0.0	56.1	171.9	257.9	285.9



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	50.5	158.8	241.1	263.5
115°	0.0	43.0	143.9	222.4	244.8
117.5°	0.0	39.2	132.7	205.6	226.1
120°	0.0	33.6	119.6	188.8	209.3
122.5°	0.0	29.9	108.4	171.9	192.5
125°	0.0	26.2	97.2	157.0	175.7
127.5°	0.0	22.4	87.8	142.0	158.8
130°	0.0	18.7	76.6	127.1	142.0
132.5°	0.0	15.0	67.3	112.1	127.1
135°	0.0	13.1	59.8	99.0	110.3
137.5°	0.0	9.3	50.5	86.0	97.2
140°	0.0	7.5	43.0	74.8	82.2
142.5°	0.0	5.6	33.6	61.7	71.0
145°	0.0	3.7	26.2	50.5	57.9
147.5°	0.0	1.9	18.7	41.1	44.9
150°	0.0	1.9	13.1	31.8	33.6
152.5°	0.0	0.0	9.3	22.4	22.4
155°	0.0	0.0	3.7	13.1	13.1
157.5°	1.9	0.0	1.9	5.6	5.6
160°	1.9	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)