

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-LD5-29SL-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-LD5-29SL-LN-UNV-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

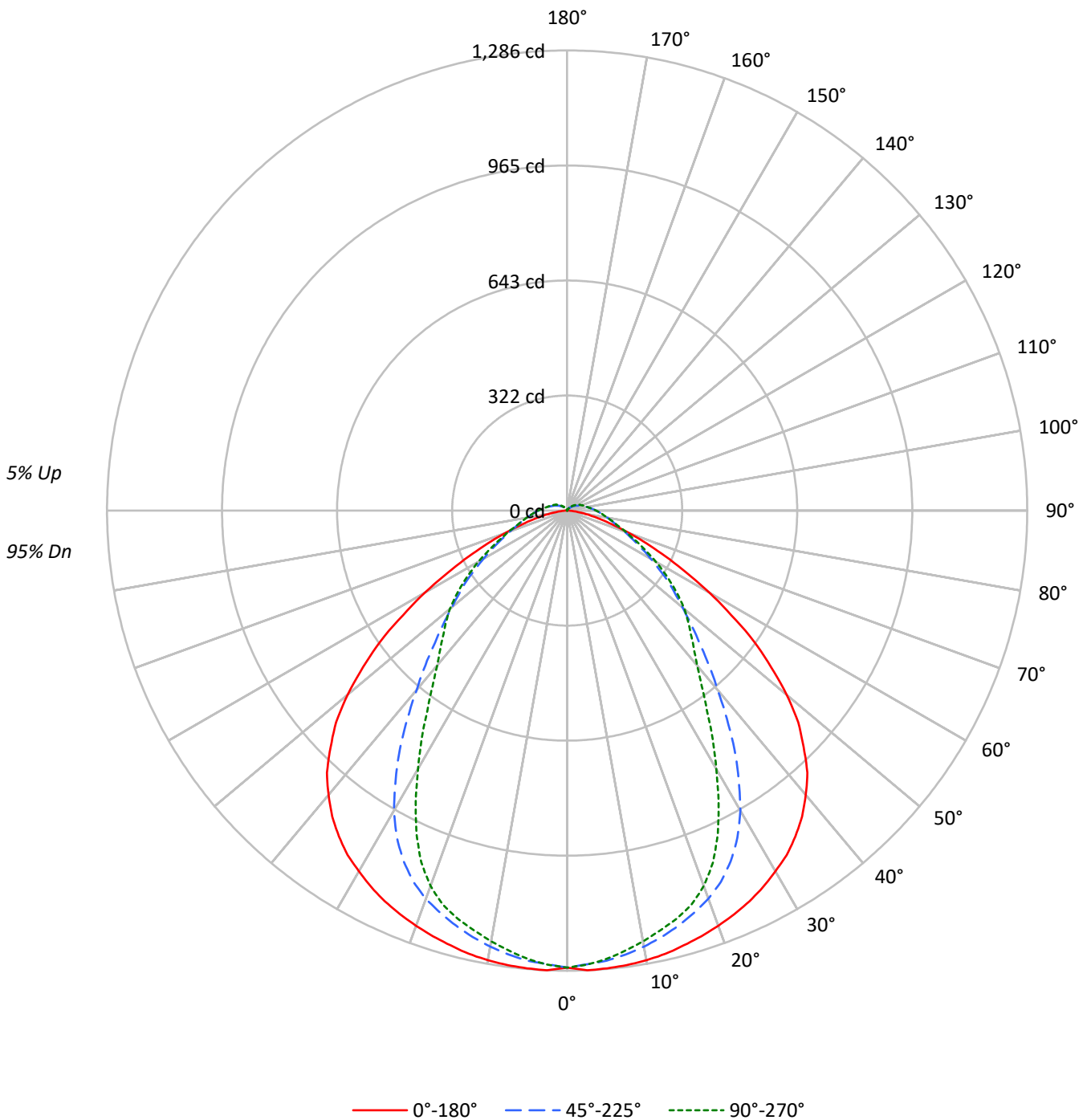
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2920.0 lumens
Efficiency: N/A
Efficacy: 144.6 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): 20.2
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: 4SRL-LD5-29SL-LN-UNV-L830-CD1-U

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	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°	14996	14996	14996
5°	15076	14254	14012
10°	15092	13548	13043
15°	15110	12863	12183
20°	15177	12192	11226
25°	15285	11347	9847
30°	15379	10172	8156
35°	15447	8647	6650
40°	15321	7053	5546
45°	14847	5775	4875
50°	13884	4795	4353
55°	12263	4094	3739
60°	9988	3396	3124
65°	7674	2844	2558
70°	5604	2434	2118
75°	3918	2152	1801
80°	2629	1994	1608
85°	1525	1901	1499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	4.1
10°-20°	341.8	11.7
20°-30°	499.3	17.1
30°-40°	533.3	18.3
40°-50°	470.0	16.1
50°-60°	356.9	12.2
60°-70°	227.5	7.8
70°-80°	135.7	4.6
80°-90°	85.2	2.9
90°-100°	56.4	1.9
100°-110°	38.4	1.3
110°-120°	25.8	0.9
120°-130°	15.9	0.5
130°-140°	8.4	0.3
140°-150°	3.6	0.1
150°-160°	1.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	961.4	32.9
0°-40°	1494.7	51.2
0°-60°	2321.5	79.5
0°-90°	2769.9	94.9
90°-120°	120.6	4.1
90°-150°	148.6	5.1
90°-180°	150.0	5.1
0°-180°	2920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1284	1275	1262	1266	1258	122
15°	1258	1235	1201	1193	1181	356
25°	1205	1151	1081	1029	996	556
35°	1112	991	816	714	680	695
45°	935	703	523	492	489	719
55°	638	399	344	356	356	565
65°	303	205	213	226	224	306
75°	101	104	137	143	138	113
85°	17	57	95	100	96	21
90°	1	43	81	84	81	1
95°	0	32	67	71	67	0
105°	0	20	47	52	50	0
115°	0	13	32	39	38	0
125°	1	8	22	27	27	1
135°	1	4	13	16	16	0
145°	1	2	7	9	8	0
155°	1	1	2	4	2	0
165°	1	1	1	0	0	0
175°	1	1	1	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-29SL-LN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1277.1	1277.1	1277.1	1277.1	1277.1
2.5°	1286.0	1278.4	1268.9	1275.2	1270.2
5°	1284.1	1274.6	1262.5	1266.3	1258.1
7.5°	1281.0	1268.9	1251.7	1250.5	1240.9
10°	1275.9	1260.0	1237.1	1232.7	1222.5
12.5°	1268.9	1249.2	1220.6	1213.6	1201.5
15°	1258.1	1234.6	1200.9	1192.6	1181.2
17.5°	1247.3	1218.1	1178.7	1168.5	1155.2
20°	1234.6	1199.0	1154.5	1132.9	1116.4
22.5°	1221.2	1177.4	1122.7	1086.5	1064.9
25°	1204.7	1150.7	1081.4	1029.3	996.3
27.5°	1186.3	1122.7	1030.6	955.6	916.2
30°	1164.0	1085.3	968.3	874.3	833.0
32.5°	1141.8	1044.6	892.1	794.2	756.8
35°	1111.9	991.2	815.9	713.6	680.5
37.5°	1078.3	931.5	732.6	641.8	617.6
40°	1037.6	861.6	654.5	582.0	564.2
42.5°	993.8	784.7	586.5	533.7	524.2
45°	934.7	703.4	522.9	492.4	489.3
47.5°	876.2	622.1	468.9	456.2	458.1
50°	801.2	541.4	420.0	424.4	427.6
52.5°	718.6	467.0	380.0	389.5	392.0
55°	637.9	399.0	343.8	355.8	356.5
57.5°	543.9	339.3	304.4	322.8	320.9
60°	458.8	286.6	270.7	285.3	286.6
62.5°	374.9	243.4	240.8	253.5	252.9
65°	303.1	205.2	212.9	225.6	223.7
67.5°	240.8	171.6	189.3	200.2	195.7
70°	183.6	145.5	169.0	177.3	174.7
72.5°	137.9	123.3	151.2	158.8	154.4
75°	101.0	104.2	136.6	143.0	138.5
77.5°	72.4	89.6	125.2	129.0	125.8
80°	48.9	76.2	113.7	118.8	113.7
82.5°	31.1	65.4	104.2	108.7	104.2
85°	17.2	56.6	95.3	100.4	95.9
87.5°	7.6	48.9	87.7	92.1	88.3
90°	0.6	42.6	80.7	84.5	80.7
92.5°	0.0	36.9	73.7	78.2	74.3
95°	0.0	32.4	67.4	71.2	67.4
97.5°	0.0	28.6	61.6	65.4	62.3
100°	0.0	25.4	56.6	60.4	57.2
102.5°	0.0	22.2	51.5	55.9	53.4
105°	0.0	20.3	47.0	51.5	49.6
107.5°	0.0	17.8	43.2	48.3	47.0
110°	0.0	15.9	39.4	45.1	43.8



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-29SL-LN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	14.6	35.6	41.9	40.7
115°	0.0	12.7	32.4	38.8	38.1
117.5°	0.0	11.4	29.9	35.6	35.6
120°	0.6	10.2	27.3	33.0	32.4
122.5°	0.6	8.9	24.1	29.9	29.2
125°	0.6	8.3	21.6	27.3	26.7
127.5°	0.6	7.0	19.7	24.1	23.5
130°	0.6	6.4	17.2	21.6	21.0
132.5°	0.6	5.1	15.2	19.1	18.4
135°	0.6	4.4	13.3	16.5	15.9
137.5°	0.6	3.8	11.4	14.6	14.0
140°	0.6	3.2	10.2	12.7	12.1
142.5°	0.6	2.5	8.3	10.8	10.2
145°	0.6	1.9	7.0	8.9	8.3
147.5°	0.6	1.3	5.7	7.6	7.0
150°	0.6	1.3	4.4	6.4	5.7
152.5°	0.6	1.3	3.8	5.1	3.8
155°	0.6	1.3	2.5	3.8	2.5
157.5°	0.6	1.3	1.9	2.5	1.9
160°	0.6	1.3	1.9	1.9	0.6
162.5°	0.6	1.3	1.3	0.6	0.0
165°	0.6	1.3	1.3	0.0	0.0
167.5°	0.6	1.3	1.3	0.0	0.0
170°	0.6	1.3	1.3	0.0	0.0
172.5°	0.6	1.3	1.3	0.0	0.0
175°	1.3	1.3	1.3	0.0	0.0
177.5°	0.6	1.3	0.6	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)