

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-LD5-41SL-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-LD5-41SL-LN-UNV-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

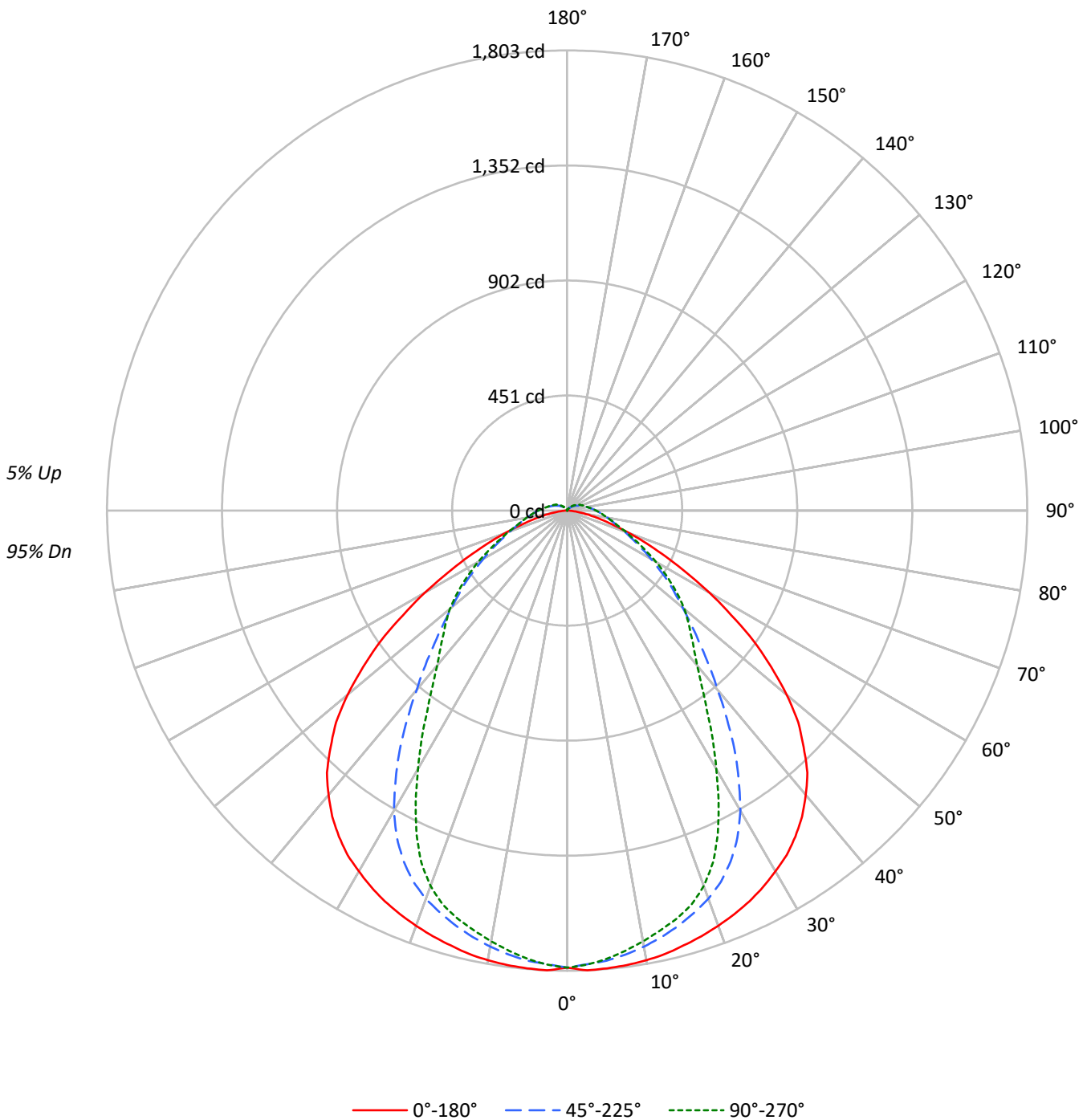
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4094.0 lumens
Efficiency: N/A
Efficacy: 138.3 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): 29.6
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-LD5-41SL-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°	21026	21026	21026
5°	21138	19984	19646
10°	21161	18995	18287
15°	21185	18035	17081
20°	21277	17094	15740
25°	21430	15909	13807
30°	21564	14263	11434
35°	21659	12123	9324
40°	21481	9888	7776
45°	20816	8098	6835
50°	19468	6723	6104
55°	17194	5740	5242
60°	14003	4760	4379
65°	10757	3986	3586
70°	7859	3414	2970
75°	5493	3017	2526
80°	3688	2797	2256
85°	2137	2664	2102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	4.1
10°-20°	479.1	11.7
20°-30°	700.1	17.1
30°-40°	747.7	18.3
40°-50°	658.9	16.1
50°-60°	500.3	12.2
60°-70°	319.0	7.8
70°-80°	190.3	4.6
80°-90°	119.5	2.9
90°-100°	79.1	1.9
100°-110°	53.8	1.3
110°-120°	36.2	0.9
120°-130°	22.4	0.5
130°-140°	11.8	0.3
140°-150°	5.1	0.1
150°-160°	1.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	1347.9	32.9
0°-40°	2095.6	51.2
0°-60°	3254.9	79.5
0°-90°	3883.6	94.9
90°-120°	169.0	4.1
90°-150°	208.3	5.1
90°-180°	210.0	5.1
0°-180°	4094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1791	1791	1791	1791	1791	
5°	1800	1787	1770	1776	1764	171
15°	1764	1731	1684	1672	1656	499
25°	1689	1613	1516	1443	1397	779
35°	1559	1390	1144	1000	954	974
45°	1310	986	733	690	686	1007
55°	894	560	482	499	500	792
65°	425	288	298	316	314	429
75°	142	146	192	200	194	158
85°	24	79	134	141	134	29
90°	1	60	113	118	113	2
95°	0	45	94	100	94	0
105°	0	28	66	72	70	0
115°	0	18	45	54	54	0
125°	1	12	30	38	37	1
135°	1	6	19	23	22	1
145°	1	3	10	12	12	1
155°	1	2	4	5	4	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-LD5-41SL-LN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1790.6	1790.6	1790.6	1790.6	1790.6
2.5°	1803.1	1792.4	1779.1	1788.0	1780.8
5°	1800.4	1787.1	1770.1	1775.5	1763.9
7.5°	1796.0	1779.1	1755.0	1753.2	1739.9
10°	1788.9	1766.6	1734.5	1728.3	1714.0
12.5°	1779.1	1751.4	1711.3	1701.5	1684.6
15°	1763.9	1730.9	1683.7	1672.1	1656.1
17.5°	1748.8	1707.8	1652.5	1638.3	1619.6
20°	1730.9	1681.1	1618.7	1588.4	1565.2
22.5°	1712.2	1650.8	1574.2	1523.4	1493.1
25°	1689.1	1613.4	1516.2	1443.2	1396.9
27.5°	1663.2	1574.2	1445.0	1339.9	1284.6
30°	1632.1	1521.6	1357.7	1225.8	1167.9
32.5°	1600.9	1464.6	1250.8	1113.6	1061.0
35°	1559.0	1389.7	1143.9	1000.4	954.1
37.5°	1511.8	1306.0	1027.2	899.8	865.9
40°	1454.8	1208.0	917.6	816.0	791.1
42.5°	1393.3	1100.2	822.3	748.3	735.0
45°	1310.5	986.2	733.2	690.4	686.0
47.5°	1228.5	872.2	657.5	639.6	642.3
50°	1123.4	759.0	588.9	595.1	599.6
52.5°	1007.6	654.8	532.7	546.1	549.7
55°	894.4	559.5	482.0	498.9	499.8
57.5°	762.6	475.7	426.7	452.6	449.9
60°	643.2	401.8	379.5	400.0	401.8
62.5°	525.6	341.2	337.6	355.5	354.6
65°	424.9	287.7	298.4	316.3	313.6
67.5°	337.6	240.5	265.5	280.6	274.4
70°	257.5	204.0	237.0	248.6	245.0
72.5°	193.3	172.8	212.0	222.7	216.5
75°	141.6	146.1	191.5	200.4	194.2
77.5°	101.6	125.6	175.5	180.8	176.4
80°	68.6	106.9	159.5	166.6	159.5
82.5°	43.7	91.8	146.1	152.3	146.1
85°	24.1	79.3	133.6	140.8	134.5
87.5°	10.7	68.6	122.9	129.2	123.8
90°	0.9	59.7	113.1	118.5	113.1
92.5°	0.0	51.7	103.3	109.6	104.2
95°	0.0	45.4	94.4	99.8	94.4
97.5°	0.0	40.1	86.4	91.8	87.3
100°	0.0	35.6	79.3	84.6	80.2
102.5°	0.0	31.2	72.2	78.4	74.8
105°	0.0	28.5	65.9	72.2	69.5
107.5°	0.0	24.9	60.6	67.7	65.9
110°	0.0	22.3	55.2	63.3	61.5



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-41SL-LN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	20.5	49.9	58.8	57.0
115°	0.0	17.8	45.4	54.3	53.5
117.5°	0.0	16.0	41.9	49.9	49.9
120°	0.9	14.3	38.3	46.3	45.4
122.5°	0.9	12.5	33.9	41.9	41.0
125°	0.9	11.6	30.3	38.3	37.4
127.5°	0.9	9.8	27.6	33.9	33.0
130°	0.9	8.9	24.1	30.3	29.4
132.5°	0.9	7.1	21.4	26.7	25.8
135°	0.9	6.2	18.7	23.2	22.3
137.5°	0.9	5.3	16.0	20.5	19.6
140°	0.9	4.5	14.3	17.8	16.9
142.5°	0.9	3.6	11.6	15.1	14.3
145°	0.9	2.7	9.8	12.5	11.6
147.5°	0.9	1.8	8.0	10.7	9.8
150°	0.9	1.8	6.2	8.9	8.0
152.5°	0.9	1.8	5.3	7.1	5.3
155°	0.9	1.8	3.6	5.3	3.6
157.5°	0.9	1.8	2.7	3.6	2.7
160°	0.9	1.8	2.7	2.7	0.9
162.5°	0.9	1.8	1.8	0.9	0.0
165°	0.9	1.8	1.8	0.0	0.0
167.5°	0.9	1.8	1.8	0.0	0.0
170°	0.9	1.8	1.8	0.0	0.0
172.5°	0.9	1.8	1.8	0.0	0.0
175°	1.8	1.8	1.8	0.0	0.0
177.5°	0.9	1.8	0.9	0.0	0.0
180°	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)