

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-LD5-49SL-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-LD5-49SL-LN-UNV-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

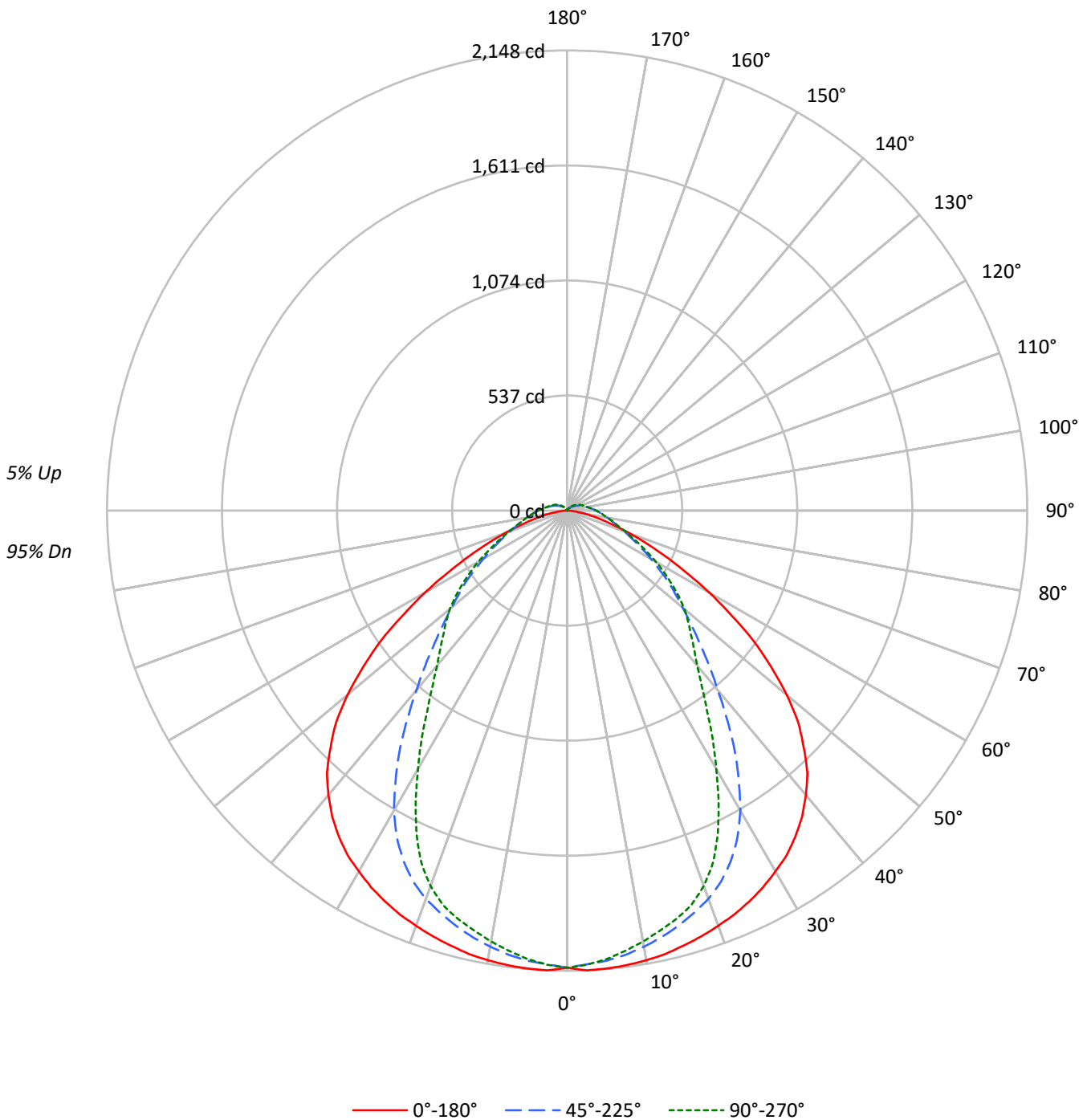
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4878.0 lumens
Efficiency: N/A
Efficacy: 132.9 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): 36.7
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	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°	25053	25053	25053
5°	25186	23812	23408
10°	25212	22633	21790
15°	25242	21489	20353
20°	25352	20368	18754
25°	25533	18956	16450
30°	25693	16994	13625
35°	25807	14444	11110
40°	25595	11781	9266
45°	24802	9649	8143
50°	23195	8010	7273
55°	20487	6839	6245
60°	16685	5672	5217
65°	12818	4750	4272
70°	9364	4066	3539
75°	6548	3596	3010
80°	4392	3332	2687
85°	2545	3175	2505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	4.1
10°-20°	570.9	11.7
20°-30°	834.1	17.1
30°-40°	890.9	18.3
40°-50°	785.1	16.1
50°-60°	596.1	12.2
60°-70°	380.1	7.8
70°-80°	226.7	4.6
80°-90°	142.4	2.9
90°-100°	94.3	1.9
100°-110°	64.1	1.3
110°-120°	43.1	0.9
120°-130°	26.6	0.5
130°-140°	14.1	0.3
140°-150°	6.1	0.1
150°-160°	1.9	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	1606.0	32.9
0°-40°	2496.9	51.2
0°-60°	3878.2	79.5
0°-90°	4627.3	94.9
90°-120°	201.4	4.1
90°-150°	248.2	5.1
90°-180°	251.0	5.1
0°-180°	4878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2134	2134	2134	2134	2134	
5°	2145	2129	2109	2116	2102	204
15°	2102	2062	2006	1992	1973	594
25°	2012	1922	1807	1720	1664	929
35°	1858	1656	1363	1192	1137	1160
45°	1561	1175	874	823	817	1200
55°	1066	667	574	594	596	943
65°	506	343	356	377	374	511
75°	169	174	228	239	231	188
85°	29	94	159	168	160	35
90°	1	71	135	141	135	2
95°	0	54	112	119	112	0
105°	0	34	78	86	83	0
115°	0	21	54	65	64	0
125°	1	14	36	46	45	1
135°	1	7	22	28	26	1
145°	1	3	12	15	14	1
155°	1	2	4	6	4	1
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-LD5-49SL-LN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2133.5	2133.5	2133.5	2133.5	2133.5
2.5°	2148.4	2135.7	2119.7	2130.4	2121.9
5°	2145.2	2129.3	2109.1	2115.5	2101.7
7.5°	2139.9	2119.7	2091.1	2089.0	2073.0
10°	2131.4	2104.9	2066.7	2059.2	2042.3
12.5°	2119.7	2086.8	2039.1	2027.4	2007.2
15°	2101.7	2062.4	2006.2	1992.4	1973.3
17.5°	2083.7	2034.8	1969.0	1952.0	1929.7
20°	2062.4	2003.0	1928.7	1892.6	1865.0
22.5°	2040.1	1966.9	1875.6	1815.1	1779.0
25°	2012.5	1922.3	1806.6	1719.6	1664.4
27.5°	1981.7	1875.6	1721.7	1596.4	1530.6
30°	1944.6	1813.0	1617.7	1460.6	1391.6
32.5°	1907.4	1745.0	1490.3	1326.8	1264.2
35°	1857.6	1655.9	1362.9	1192.0	1136.8
37.5°	1801.3	1556.1	1223.9	1072.1	1031.7
40°	1733.4	1439.3	1093.3	972.3	942.6
42.5°	1660.1	1310.9	979.7	891.6	875.7
45°	1561.4	1175.0	873.6	822.6	817.3
47.5°	1463.8	1039.2	783.4	762.1	765.3
50°	1338.5	904.4	701.6	709.1	714.4
52.5°	1200.5	780.2	634.8	650.7	654.9
55°	1065.7	666.6	574.3	594.4	595.5
57.5°	908.6	566.8	508.4	539.2	536.0
60°	766.4	478.7	452.2	476.6	478.7
62.5°	626.3	406.5	402.3	423.5	422.5
65°	506.3	342.9	355.6	376.8	373.6
67.5°	402.3	286.6	316.3	334.4	326.9
70°	306.8	243.1	282.3	296.1	291.9
72.5°	230.3	205.9	252.6	265.4	257.9
75°	168.8	174.1	228.2	238.8	231.4
77.5°	121.0	149.7	209.1	215.5	210.2
80°	81.7	127.4	190.0	198.5	190.0
82.5°	52.0	109.3	174.1	181.5	174.1
85°	28.7	94.5	159.2	167.7	160.3
87.5°	12.7	81.7	146.5	153.9	147.5
90°	1.1	71.1	134.8	141.2	134.8
92.5°	0.0	61.6	123.1	130.6	124.2
95°	0.0	54.1	112.5	118.9	112.5
97.5°	0.0	47.8	103.0	109.3	104.0
100°	0.0	42.5	94.5	100.8	95.5
102.5°	0.0	37.2	86.0	93.4	89.2
105°	0.0	34.0	78.5	86.0	82.8
107.5°	0.0	29.7	72.2	80.7	78.5
110°	0.0	26.5	65.8	75.4	73.2



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	24.4	59.4	70.1	67.9
115°	0.0	21.2	54.1	64.7	63.7
117.5°	0.0	19.1	49.9	59.4	59.4
120°	1.1	17.0	45.6	55.2	54.1
122.5°	1.1	14.9	40.3	49.9	48.8
125°	1.1	13.8	36.1	45.6	44.6
127.5°	1.1	11.7	32.9	40.3	39.3
130°	1.1	10.6	28.7	36.1	35.0
132.5°	1.1	8.5	25.5	31.8	30.8
135°	1.1	7.4	22.3	27.6	26.5
137.5°	1.1	6.4	19.1	24.4	23.4
140°	1.1	5.3	17.0	21.2	20.2
142.5°	1.1	4.2	13.8	18.0	17.0
145°	1.1	3.2	11.7	14.9	13.8
147.5°	1.1	2.1	9.6	12.7	11.7
150°	1.1	2.1	7.4	10.6	9.6
152.5°	1.1	2.1	6.4	8.5	6.4
155°	1.1	2.1	4.2	6.4	4.2
157.5°	1.1	2.1	3.2	4.2	3.2
160°	1.1	2.1	3.2	3.2	1.1
162.5°	1.1	2.1	2.1	1.1	0.0
165°	1.1	2.1	2.1	0.0	0.0
167.5°	1.1	2.1	2.1	0.0	0.0
170°	1.1	2.1	2.1	0.0	0.0
172.5°	1.1	2.1	2.1	0.0	0.0
175°	2.1	2.1	2.1	0.0	0.0
177.5°	1.1	2.1	1.1	0.0	0.0
180°	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)