

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: **8SRL-LD5-82SL-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: 8SRL-LD5-82SL-LW-UNV-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

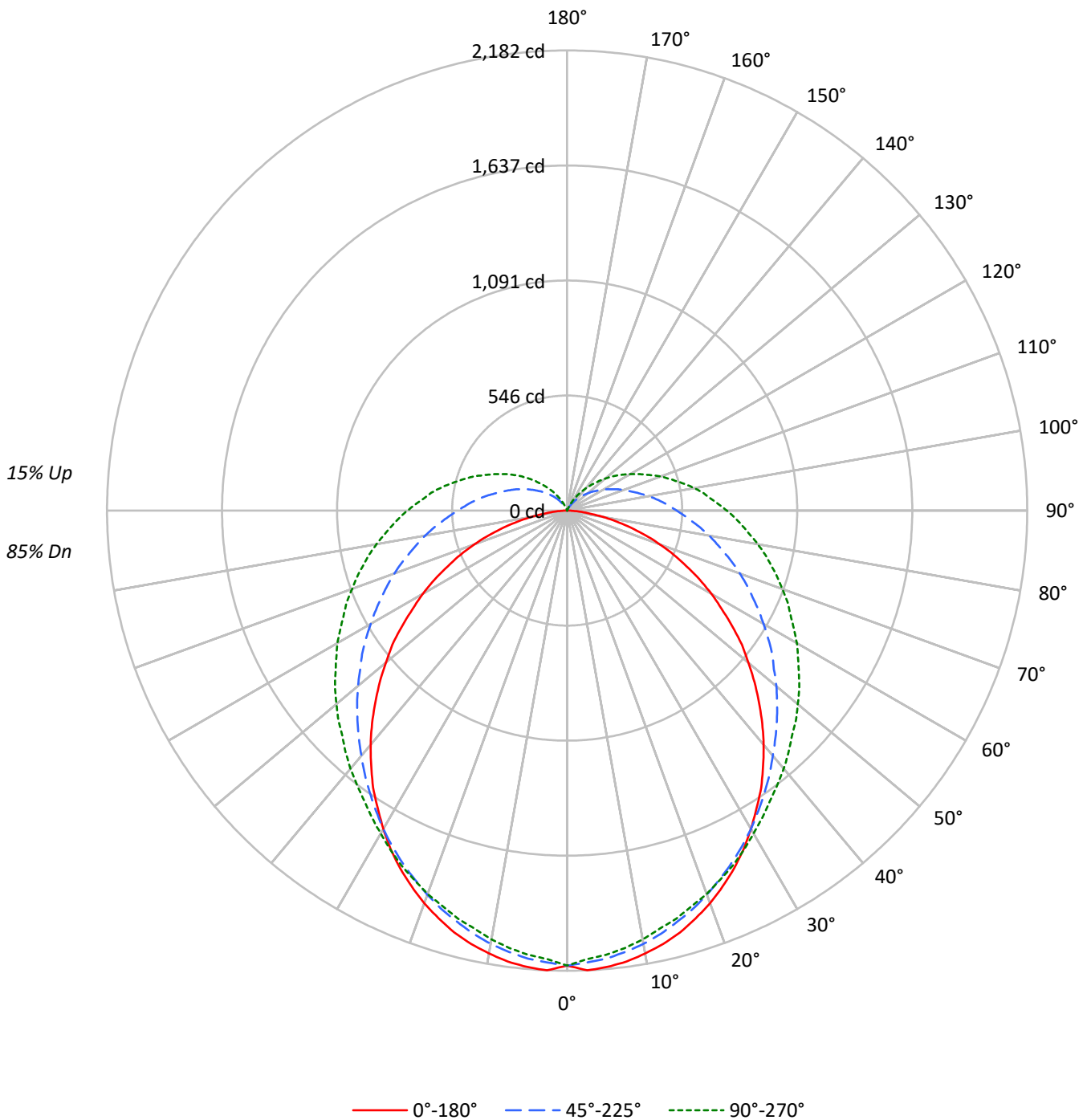
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8300.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 7.33' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 67.4
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										
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	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°	12665	12665	12665
5°	12779	12054	11772
10°	12662	11452	11013
15°	12510	10850	10328
20°	12276	10282	9727
25°	12005	9738	9179
30°	11664	9221	8654
35°	11316	8720	8200
40°	10901	8254	7853
45°	10437	7849	7514
50°	9976	7481	7267
55°	9468	7162	7033
60°	8939	6847	6855
65°	8270	6591	6680
70°	7541	6395	6576
75°	6526	6216	6512
80°	5092	6134	6491
85°	3139	6114	6521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	2.4
10°-20°	572.8	6.9
20°-30°	855.5	10.3
30°-40°	1025.3	12.4
40°-50°	1084.6	13.1
50°-60°	1047.4	12.6
60°-70°	931.7	11.2
70°-80°	766.0	9.2
80°-90°	585.8	7.1
90°-100°	440.5	5.3
100°-110°	321.5	3.9
110°-120°	220.2	2.7
120°-130°	137.4	1.7
130°-140°	73.3	0.9
140°-150°	29.4	0.4
150°-160°	5.6	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1631.2	19.7
0°-40°	2656.5	32.0
0°-60°	4788.4	57.7
0°-90°	7071.9	85.2
90°-120°	982.3	11.8
90°-150°	1222.5	14.7
90°-180°	1228.0	14.8
0°-180°	8300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2173	2160	2132	2129	2114	206
15°	2071	2049	2018	2018	2003	583
25°	1873	1854	1845	1867	1857	862
35°	1604	1598	1632	1678	1678	1001
45°	1286	1323	1406	1486	1508	993
55°	955	1042	1187	1304	1341	855
65°	624	766	970	1122	1168	620
75°	312	516	773	949	1001	332
85°	59	318	596	776	834	71
90°	0	244	519	698	757	3
95°	0	188	454	627	680	0
105°	0	117	334	488	538	0
115°	0	71	238	368	405	0
125°	0	43	161	260	290	0
135°	0	22	99	164	182	0
145°	0	6	43	83	96	0
155°	0	0	6	22	22	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°	2157.2	2157.2	2157.2	2157.2	2157.2
2.5°	2181.9	2169.5	2144.8	2141.7	2129.4
5°	2172.6	2160.3	2132.4	2129.4	2113.9
7.5°	2157.2	2141.7	2110.8	2107.7	2092.3
10°	2132.4	2117.0	2086.1	2083.0	2064.5
12.5°	2104.6	2089.2	2055.2	2052.1	2030.5
15°	2070.6	2049.0	2018.1	2018.1	2002.6
17.5°	2027.4	2008.8	1981.0	1984.1	1965.6
20°	1981.0	1962.5	1937.7	1947.0	1934.6
22.5°	1928.5	1906.8	1891.4	1903.7	1894.5
25°	1872.8	1854.3	1845.0	1866.7	1857.4
27.5°	1811.0	1792.5	1795.6	1817.2	1814.1
30°	1743.0	1730.7	1743.0	1770.9	1767.8
32.5°	1672.0	1665.8	1687.4	1724.5	1724.5
35°	1604.0	1597.8	1631.8	1678.1	1678.1
37.5°	1526.7	1529.8	1576.2	1628.7	1638.0
40°	1449.4	1461.8	1517.4	1582.3	1597.8
42.5°	1369.1	1390.7	1461.8	1532.9	1554.5
45°	1285.6	1322.7	1406.2	1486.5	1508.2
47.5°	1205.3	1251.7	1350.5	1443.3	1471.1
50°	1121.8	1177.5	1294.9	1396.9	1427.8
52.5°	1044.6	1109.5	1236.2	1350.5	1387.6
55°	955.0	1041.5	1186.8	1304.2	1341.3
57.5°	868.4	970.4	1131.1	1257.8	1298.0
60°	791.2	899.3	1075.5	1214.6	1257.8
62.5°	707.7	831.3	1023.0	1168.2	1211.5
65°	624.3	766.4	970.4	1121.8	1168.2
67.5°	547.0	698.5	921.0	1078.6	1131.1
70°	466.7	636.6	871.5	1035.3	1084.8
72.5°	389.4	574.8	822.1	989.0	1044.6
75°	312.1	516.1	772.6	948.8	1001.3
77.5°	238.0	460.5	726.3	905.5	961.1
80°	170.0	407.9	683.0	862.2	917.9
82.5°	108.2	358.5	639.7	819.0	874.6
85°	58.7	318.3	596.5	775.7	834.4
87.5°	21.6	275.1	556.3	738.6	797.3
90°	0.0	244.1	519.2	698.5	757.2
92.5°	0.0	213.2	485.2	661.4	717.0
95°	0.0	188.5	454.3	627.4	679.9
97.5°	0.0	166.9	423.4	593.4	649.0
100°	0.0	148.3	392.5	556.3	611.9
102.5°	0.0	129.8	361.6	522.3	574.8
105°	0.0	117.4	333.8	488.3	537.7
107.5°	0.0	105.1	309.0	460.5	503.8
110°	0.0	92.7	284.3	426.5	472.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	83.4	262.7	398.7	435.8
115°	0.0	71.1	238.0	367.8	404.9
117.5°	0.0	64.9	219.4	340.0	373.9
120°	0.0	55.6	197.8	312.1	346.1
122.5°	0.0	49.4	179.2	284.3	318.3
125°	0.0	43.3	160.7	259.6	290.5
127.5°	0.0	37.1	145.3	234.9	262.7
130°	0.0	30.9	126.7	210.2	234.9
132.5°	0.0	24.7	111.3	185.4	210.2
135°	0.0	21.6	98.9	163.8	182.3
137.5°	0.0	15.5	83.4	142.2	160.7
140°	0.0	12.4	71.1	123.6	136.0
142.5°	0.0	9.3	55.6	102.0	117.4
145°	0.0	6.2	43.3	83.4	95.8
147.5°	0.0	3.1	30.9	68.0	74.2
150°	0.0	3.1	21.6	52.5	55.6
152.5°	0.0	0.0	15.5	37.1	37.1
155°	0.0	0.0	6.2	21.6	21.6
157.5°	3.1	0.0	3.1	9.3	9.3
160°	3.1	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)