

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-L850-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-L850-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

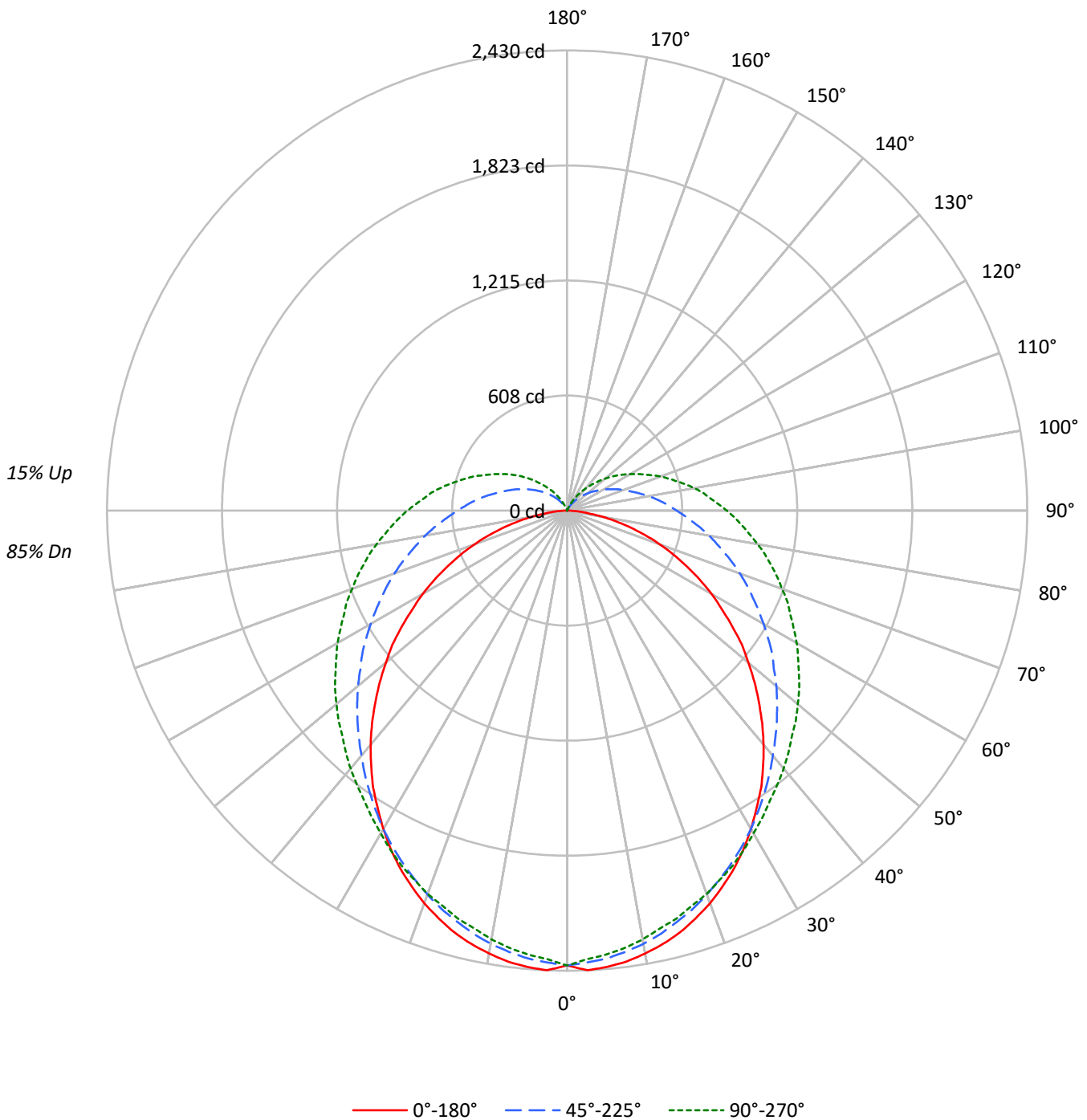
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9242.0 lumens
Efficiency: N/A
Efficacy: 137.1 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 (Ain): 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°	14103	14103	14103
5°	14230	13422	13108
10°	14100	12752	12263
15°	13929	12081	11500
20°	13669	11450	10831
25°	13368	10844	10221
30°	12988	10268	9636
35°	12601	9709	9131
40°	12138	9191	8744
45°	11623	8740	8366
50°	11109	8331	8093
55°	10542	7974	7831
60°	9953	7625	7633
65°	9208	7339	7438
70°	8395	7121	7323
75°	7269	6922	7251
80°	5670	6830	7228
85°	3497	6808	7261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	2.4
10°-20°	637.8	6.9
20°-30°	952.6	10.3
30°-40°	1141.6	12.4
40°-50°	1207.6	13.1
50°-60°	1166.2	12.6
60°-70°	1037.4	11.2
70°-80°	852.9	9.2
80°-90°	652.3	7.1
90°-100°	490.5	5.3
100°-110°	358.0	3.9
110°-120°	245.2	2.7
120°-130°	153.0	1.7
130°-140°	81.6	0.9
140°-150°	32.7	0.4
150°-160°	6.2	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1816.3	19.7
0°-40°	2958.0	32.0
0°-60°	5331.8	57.7
0°-90°	7874.5	85.2
90°-120°	1093.8	11.8
90°-150°	1361.2	14.7
90°-180°	1367.0	14.8
0°-180°	9242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2402	2402	2402	2402	2402	
5°	2419	2405	2374	2371	2354	229
15°	2306	2282	2247	2247	2230	649
25°	2085	2065	2054	2078	2068	959
35°	1786	1779	1817	1869	1869	1115
45°	1432	1473	1566	1655	1679	1105
55°	1063	1160	1321	1452	1494	952
65°	695	853	1081	1249	1301	691
75°	348	575	860	1056	1115	369
85°	65	354	664	864	929	80
90°	0	272	578	778	843	3
95°	0	210	506	699	757	0
105°	0	131	372	544	599	0
115°	0	79	265	410	451	0
125°	0	48	179	289	324	0
135°	0	24	110	182	203	0
145°	0	7	48	93	107	0
155°	0	0	7	24	24	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°	2402.0	2402.0	2402.0	2402.0	2402.0
2.5°	2429.5	2415.8	2388.2	2384.8	2371.0
5°	2419.2	2405.4	2374.5	2371.0	2353.8
7.5°	2402.0	2384.8	2350.4	2346.9	2329.7
10°	2374.5	2357.3	2322.8	2319.4	2298.8
12.5°	2343.5	2326.3	2288.4	2285.0	2260.9
15°	2305.6	2281.5	2247.1	2247.1	2229.9
17.5°	2257.5	2236.8	2205.8	2209.3	2188.6
20°	2205.8	2185.2	2157.7	2168.0	2154.2
22.5°	2147.3	2123.2	2106.0	2119.8	2109.5
25°	2085.4	2064.7	2054.4	2078.5	2068.2
27.5°	2016.6	1995.9	1999.4	2023.5	2020.0
30°	1940.9	1927.1	1940.9	1971.8	1968.4
32.5°	1861.7	1854.8	1878.9	1920.2	1920.2
35°	1786.0	1779.1	1817.0	1868.6	1868.6
37.5°	1700.0	1703.4	1755.0	1813.5	1823.9
40°	1613.9	1627.7	1689.7	1761.9	1779.1
42.5°	1524.5	1548.6	1627.7	1706.9	1730.9
45°	1431.6	1472.9	1565.8	1655.2	1679.3
47.5°	1342.1	1393.7	1503.8	1607.1	1638.0
50°	1249.2	1311.1	1441.9	1555.4	1589.9
52.5°	1163.1	1235.4	1376.5	1503.8	1545.1
55°	1063.3	1159.7	1321.4	1452.2	1493.5
57.5°	967.0	1080.6	1259.5	1400.6	1445.3
60°	881.0	1001.4	1197.6	1352.4	1400.6
62.5°	788.0	925.7	1139.1	1300.8	1349.0
65°	695.1	853.4	1080.6	1249.2	1300.8
67.5°	609.1	777.7	1025.5	1201.0	1259.5
70°	519.6	708.9	970.4	1152.8	1207.9
72.5°	433.6	640.1	915.4	1101.2	1163.1
75°	347.6	574.7	860.3	1056.5	1115.0
77.5°	265.0	512.7	808.7	1008.3	1070.2
80°	189.3	454.2	760.5	960.1	1022.1
82.5°	120.4	399.2	712.3	911.9	973.9
85°	65.4	354.4	664.2	863.8	929.1
87.5°	24.1	306.3	619.4	822.5	887.8
90°	0.0	271.9	578.1	777.7	843.1
92.5°	0.0	237.4	540.3	736.4	798.4
95°	0.0	209.9	505.9	698.6	757.1
97.5°	0.0	185.8	471.5	660.7	722.7
100°	0.0	165.2	437.0	619.4	681.4
102.5°	0.0	144.5	402.6	581.6	640.1
105°	0.0	130.8	371.7	543.7	598.8
107.5°	0.0	117.0	344.1	512.7	560.9
110°	0.0	103.2	316.6	474.9	526.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	92.9	292.5	443.9	485.2
115°	0.0	79.1	265.0	409.5	450.8
117.5°	0.0	72.3	244.3	378.5	416.4
120°	0.0	61.9	220.2	347.6	385.4
122.5°	0.0	55.1	199.6	316.6	354.4
125°	0.0	48.2	178.9	289.1	323.5
127.5°	0.0	41.3	161.7	261.5	292.5
130°	0.0	34.4	141.1	234.0	261.5
132.5°	0.0	27.5	123.9	206.5	234.0
135°	0.0	24.1	110.1	182.4	203.0
137.5°	0.0	17.2	92.9	158.3	178.9
140°	0.0	13.8	79.1	137.6	151.4
142.5°	0.0	10.3	61.9	113.6	130.8
145°	0.0	6.9	48.2	92.9	106.7
147.5°	0.0	3.4	34.4	75.7	82.6
150°	0.0	3.4	24.1	58.5	61.9
152.5°	0.0	0.0	17.2	41.3	41.3
155°	0.0	0.0	6.9	24.1	24.1
157.5°	3.4	0.0	3.4	10.3	10.3
160°	3.4	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)