

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-LD5-54SL-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-LD5-54SL-LW-UNV-L850-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

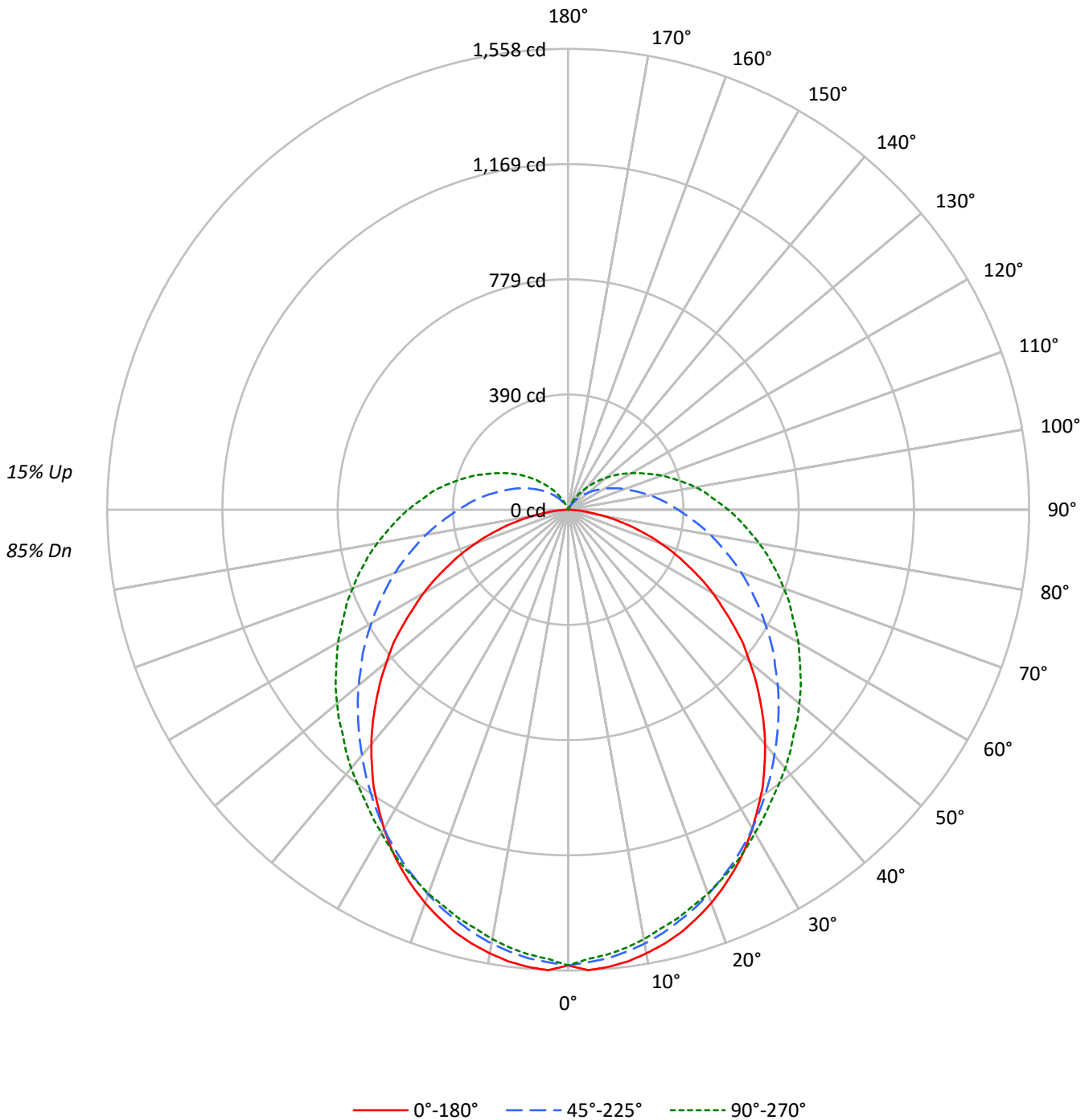
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5927.0 lumens
Efficiency: N/A
Efficacy: 147.1 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): 40.3
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	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°	9044	9044	9044
5°	9126	8608	8406
10°	9042	8178	7864
15°	8933	7748	7375
20°	8766	7343	6946
25°	8573	6954	6555
30°	8329	6585	6180
35°	8081	6226	5856
40°	7784	5894	5608
45°	7454	5605	5365
50°	7124	5342	5190
55°	6761	5114	5022
60°	6383	4890	4895
65°	5905	4707	4770
70°	5384	4566	4696
75°	4661	4439	4650
80°	3636	4380	4636
85°	2241	4366	4657



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	2.4
10°-20°	409.0	6.9
20°-30°	610.9	10.3
30°-40°	732.1	12.4
40°-50°	774.5	13.1
50°-60°	747.9	12.6
60°-70°	665.3	11.2
70°-80°	547.0	9.2
80°-90°	418.3	7.1
90°-100°	314.6	5.3
100°-110°	229.6	3.9
110°-120°	157.3	2.7
120°-130°	98.1	1.7
130°-140°	52.4	0.9
140°-150°	21.0	0.4
150°-160°	4.0	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1164.9	19.7
0°-40°	1897.0	32.0
0°-60°	3419.4	57.7
0°-90°	5050.0	85.2
90°-120°	701.5	11.8
90°-150°	873.0	14.7
90°-180°	877.0	14.8
0°-180°	5927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1540	1540	1540	1540	1540	
5°	1552	1543	1523	1521	1510	147
15°	1479	1463	1441	1441	1430	416
25°	1337	1324	1318	1333	1326	615
35°	1145	1141	1165	1198	1198	715
45°	918	945	1004	1062	1077	709
55°	682	744	848	931	958	610
65°	446	547	693	801	834	443
75°	223	369	552	678	715	237
85°	42	227	426	554	596	51
90°	0	174	371	499	541	2
95°	0	135	324	448	486	0
105°	0	84	238	349	384	0
115°	0	51	170	263	289	0
125°	0	31	115	185	207	0
135°	0	15	71	117	130	0
145°	0	4	31	60	68	0
155°	0	0	4	15	15	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#

CATALOG NUMBER: 8SRL-LD5-54SL-LW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1540.4	1540.4	1540.4	1540.4	1540.4
2.5°	1558.1	1549.3	1531.6	1529.4	1520.6
5°	1551.5	1542.6	1522.8	1520.6	1509.5
7.5°	1540.4	1529.4	1507.3	1505.1	1494.1
10°	1522.8	1511.7	1489.7	1487.5	1474.2
12.5°	1502.9	1491.9	1467.6	1465.4	1449.9
15°	1478.6	1463.2	1441.1	1441.1	1430.1
17.5°	1447.7	1434.5	1414.6	1416.8	1403.6
20°	1414.6	1401.4	1383.7	1390.4	1381.5
22.5°	1377.1	1361.7	1350.6	1359.5	1352.8
25°	1337.4	1324.1	1317.5	1333.0	1326.4
27.5°	1293.3	1280.0	1282.2	1297.7	1295.5
30°	1244.7	1235.9	1244.7	1264.6	1262.4
32.5°	1193.9	1189.5	1205.0	1231.5	1231.5
35°	1145.4	1141.0	1165.2	1198.4	1198.4
37.5°	1090.2	1092.4	1125.5	1163.0	1169.7
40°	1035.0	1043.9	1083.6	1129.9	1141.0
42.5°	977.7	993.1	1043.9	1094.6	1110.1
45°	918.1	944.6	1004.1	1061.5	1077.0
47.5°	860.7	893.8	964.4	1030.6	1050.5
50°	801.1	840.8	924.7	997.5	1019.6
52.5°	745.9	792.3	882.8	964.4	990.9
55°	681.9	743.7	847.5	931.3	957.8
57.5°	620.1	693.0	807.7	898.2	926.9
60°	565.0	642.2	768.0	867.3	898.2
62.5°	505.4	593.7	730.5	834.2	865.1
65°	445.8	547.3	693.0	801.1	834.2
67.5°	390.6	498.8	657.7	770.2	807.7
70°	333.2	454.6	622.3	739.3	774.6
72.5°	278.1	410.5	587.0	706.2	745.9
75°	222.9	368.6	551.7	677.5	715.0
77.5°	169.9	328.8	518.6	646.6	686.3
80°	121.4	291.3	487.7	615.7	655.5
82.5°	77.2	256.0	456.8	584.8	624.6
85°	41.9	227.3	425.9	553.9	595.9
87.5°	15.4	196.4	397.2	527.5	569.4
90°	0.0	174.3	370.8	498.8	540.7
92.5°	0.0	152.3	346.5	472.3	512.0
95°	0.0	134.6	324.4	448.0	485.5
97.5°	0.0	119.2	302.3	423.7	463.5
100°	0.0	105.9	280.3	397.2	437.0
102.5°	0.0	92.7	258.2	373.0	410.5
105°	0.0	83.9	238.3	348.7	384.0
107.5°	0.0	75.0	220.7	328.8	359.7
110°	0.0	66.2	203.0	304.6	337.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	59.6	187.6	284.7	311.2
115°	0.0	50.8	169.9	262.6	289.1
117.5°	0.0	46.3	156.7	242.8	267.0
120°	0.0	39.7	141.2	222.9	247.2
122.5°	0.0	35.3	128.0	203.0	227.3
125°	0.0	30.9	114.8	185.4	207.4
127.5°	0.0	26.5	103.7	167.7	187.6
130°	0.0	22.1	90.5	150.1	167.7
132.5°	0.0	17.7	79.4	132.4	150.1
135°	0.0	15.4	70.6	117.0	130.2
137.5°	0.0	11.0	59.6	101.5	114.8
140°	0.0	8.8	50.8	88.3	97.1
142.5°	0.0	6.6	39.7	72.8	83.9
145°	0.0	4.4	30.9	59.6	68.4
147.5°	0.0	2.2	22.1	48.6	53.0
150°	0.0	2.2	15.4	37.5	39.7
152.5°	0.0	0.0	11.0	26.5	26.5
155°	0.0	0.0	4.4	15.4	15.4
157.5°	2.2	0.0	2.2	6.6	6.6
160°	2.2	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)