

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: P218366

Luminaire Tested: **8TSNLED-LD5-54SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35687)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8TSNLED-LD5-54SL-LW-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6305.0 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

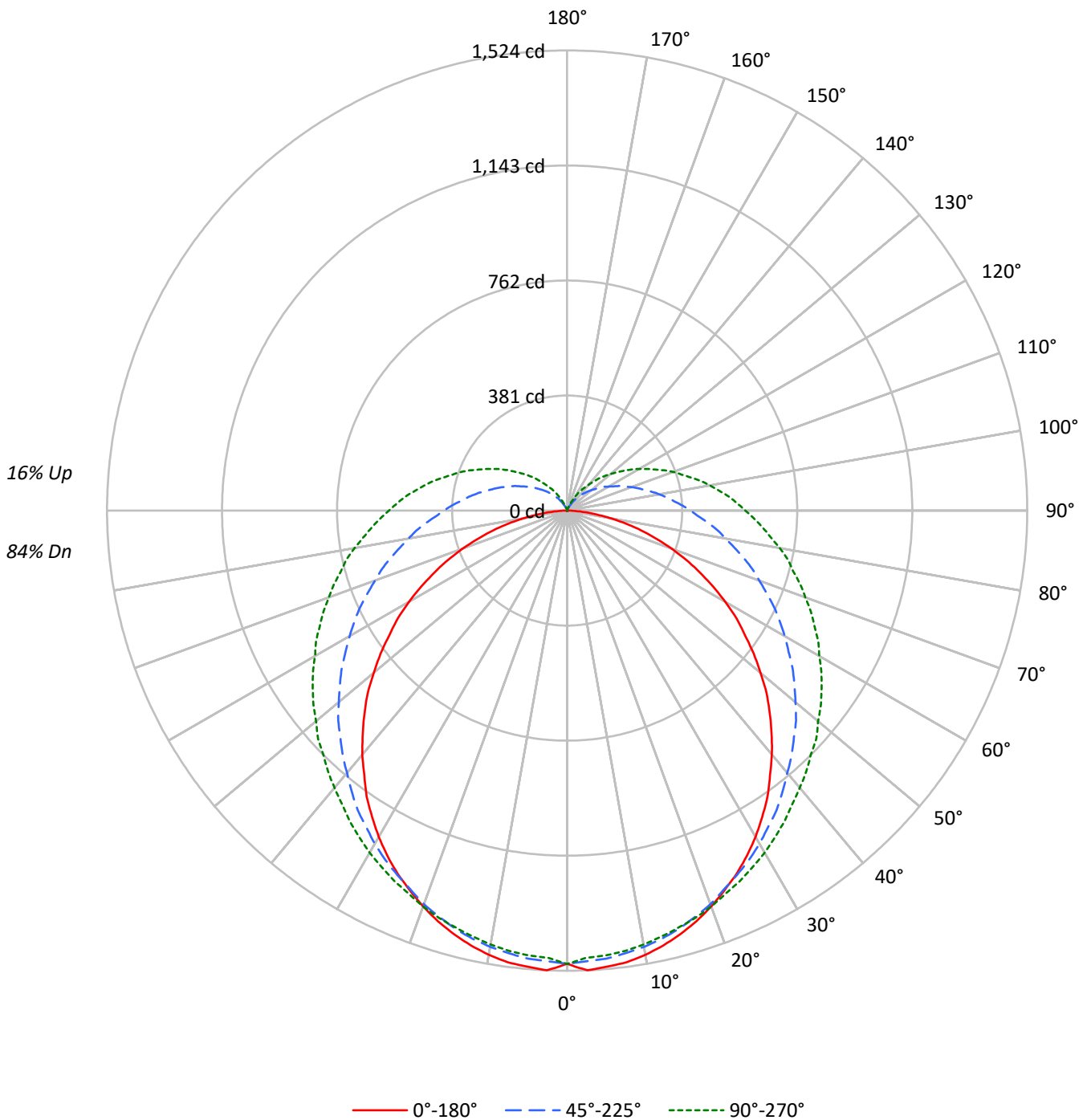
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84
1	102	96	91	86	98	93	88	83	85	81	78	79	76	73	73	70	68	64
2	92	83	75	68	88	79	72	66	73	67	62	67	63	58	62	58	55	52
3	83	72	63	56	79	69	61	54	64	57	51	59	53	48	54	49	45	42
4	76	63	54	46	72	61	52	45	56	49	43	52	46	41	48	43	38	36
5	70	56	46	39	66	54	45	39	50	42	37	46	40	35	43	37	33	30
6	64	50	41	34	61	48	40	33	45	37	32	42	35	30	39	33	29	26
7	59	45	36	30	57	44	35	29	41	33	28	38	31	27	35	30	25	23
8	55	41	32	26	53	40	32	26	37	30	25	35	28	24	32	27	23	21
9	51	38	29	24	49	36	29	23	34	27	22	32	26	21	30	24	20	18
10	48	35	27	21	46	34	26	21	32	25	20	30	24	19	28	22	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12095	12095	12095
5°	12241	11333	10996
10°	12174	10647	10151
15°	12044	10016	9402
20°	11873	9422	8771
25°	11685	8852	8207
30°	11470	8368	7716
35°	11217	7905	7262
40°	10905	7430	6855
45°	10593	7031	6506
50°	10221	6650	6206
55°	9799	6303	5950
60°	9409	5957	5687
65°	8832	5659	5479
70°	8172	5345	5276
75°	7315	5098	5100
80°	5962	4857	4971
85°	4232	4686	4837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	2.3
10°-20°	406.5	6.4
20°-30°	617.9	9.8
30°-40°	756.2	12.0
40°-50°	816.5	12.9
50°-60°	801.6	12.7
60°-70°	721.9	11.5
70°-80°	597.8	9.5
80°-90°	459.8	7.3
90°-100°	346.6	5.5
100°-110°	255.0	4.0
110°-120°	176.0	2.8
120°-130°	111.6	1.8
130°-140°	61.8	1.0
140°-150°	26.8	0.4
150°-160°	6.7	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1166.6	18.5
0°-40°	1922.9	30.5
0°-60°	3540.9	56.2
0°-90°	5320.5	84.4
90°-120°	777.6	12.3
90°-150°	977.7	15.5
90°-180°	985.0	15.6
0°-180°	6305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1516	1509	1490	1490	1478	144
15°	1452	1448	1433	1441	1429	409
25°	1327	1327	1331	1358	1354	611
35°	1157	1168	1210	1248	1255	722
45°	949	991	1062	1127	1142	732
55°	718	798	911	1002	1028	645
65°	484	594	756	870	904	480
75°	253	405	605	734	775	269
85°	57	250	469	609	650	65
90°	0	193	408	548	590	3
95°	4	151	355	492	537	1
105°	0	94	265	386	424	0
115°	0	60	193	291	321	0
125°	0	38	132	208	231	0
135°	0	23	83	136	151	0
145°	0	8	42	76	83	0
155°	0	4	11	23	26	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.2	1501.2	1501.2	1501.2	1501.2
2.5°	1523.9	1512.5	1493.6	1493.6	1482.3
5°	1516.3	1508.7	1489.8	1489.8	1478.5
7.5°	1508.7	1501.2	1478.5	1482.3	1470.9
10°	1493.6	1486.0	1467.1	1470.9	1459.6
12.5°	1474.7	1467.1	1452.0	1455.8	1444.5
15°	1452.0	1448.2	1433.1	1440.7	1429.3
17.5°	1425.5	1421.8	1410.4	1421.8	1414.2
20°	1395.3	1395.3	1387.7	1402.9	1395.3
22.5°	1361.3	1361.3	1357.5	1380.2	1372.6
25°	1327.2	1327.2	1331.0	1357.5	1353.7
27.5°	1289.4	1293.2	1304.5	1334.8	1331.0
30°	1247.8	1255.4	1274.3	1308.3	1308.3
32.5°	1202.5	1210.0	1240.3	1281.9	1281.9
35°	1157.1	1168.4	1210.0	1247.8	1255.4
37.5°	1104.1	1123.0	1172.2	1217.6	1225.1
40°	1055.0	1081.4	1134.4	1187.3	1198.7
42.5°	1002.0	1036.1	1100.4	1160.9	1172.2
45°	949.1	990.7	1062.5	1126.8	1142.0
47.5°	896.2	941.5	1028.5	1096.6	1119.3
50°	835.7	892.4	986.9	1066.3	1085.2
52.5°	778.9	843.2	949.1	1032.3	1058.8
55°	718.4	797.9	911.3	1002.0	1028.5
57.5°	665.5	744.9	869.7	971.8	998.3
60°	605.0	692.0	831.9	934.0	964.2
62.5°	544.5	646.6	794.1	903.7	937.8
65°	484.0	593.7	756.3	869.7	903.7
67.5°	427.3	544.5	714.7	835.7	873.5
70°	366.8	495.3	676.9	801.6	839.4
72.5°	310.1	450.0	642.8	767.6	809.2
75°	253.3	404.6	605.0	733.6	775.2
77.5°	200.4	363.0	567.2	703.3	748.7
80°	143.7	321.4	533.2	669.3	714.7
82.5°	98.3	283.6	502.9	639.0	680.6
85°	56.7	249.6	468.9	608.8	650.4
87.5°	22.7	219.3	434.8	574.8	620.1
90°	0.0	192.8	408.4	548.3	589.9
92.5°	0.0	170.2	381.9	518.0	563.4
95°	3.8	151.3	355.4	491.6	536.9
97.5°	0.0	132.3	332.8	465.1	506.7
100°	0.0	121.0	310.1	438.6	480.2
102.5°	0.0	105.9	287.4	412.2	453.8
105°	0.0	94.5	264.7	385.7	423.5
107.5°	0.0	87.0	245.8	363.0	397.0
110°	0.0	75.6	226.9	340.3	374.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	68.1	208.0	313.8	347.9
115°	0.0	60.5	192.8	291.2	321.4
117.5°	0.0	56.7	173.9	268.5	298.7
120°	0.0	49.2	158.8	249.6	276.0
122.5°	0.0	45.4	147.5	226.9	253.3
125°	0.0	37.8	132.3	208.0	230.7
127.5°	0.0	34.0	117.2	189.1	208.0
130°	0.0	30.3	105.9	170.2	189.1
132.5°	0.0	26.5	94.5	151.3	170.2
135°	0.0	22.7	83.2	136.1	151.3
137.5°	0.0	18.9	71.8	117.2	132.3
140°	0.0	15.1	60.5	102.1	113.4
142.5°	0.0	11.3	52.9	87.0	98.3
145°	0.0	7.6	41.6	75.6	83.2
147.5°	0.0	7.6	34.0	60.5	68.1
150°	0.0	3.8	22.7	49.2	52.9
152.5°	0.0	3.8	18.9	37.8	37.8
155°	0.0	3.8	11.3	22.7	26.5
157.5°	0.0	0.0	7.6	15.1	15.1
160°	0.0	0.0	3.8	7.6	11.3
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)