

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: P218363

Luminaire Tested: **8TSNLED-LD5-54SL-LW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218363
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-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5379.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

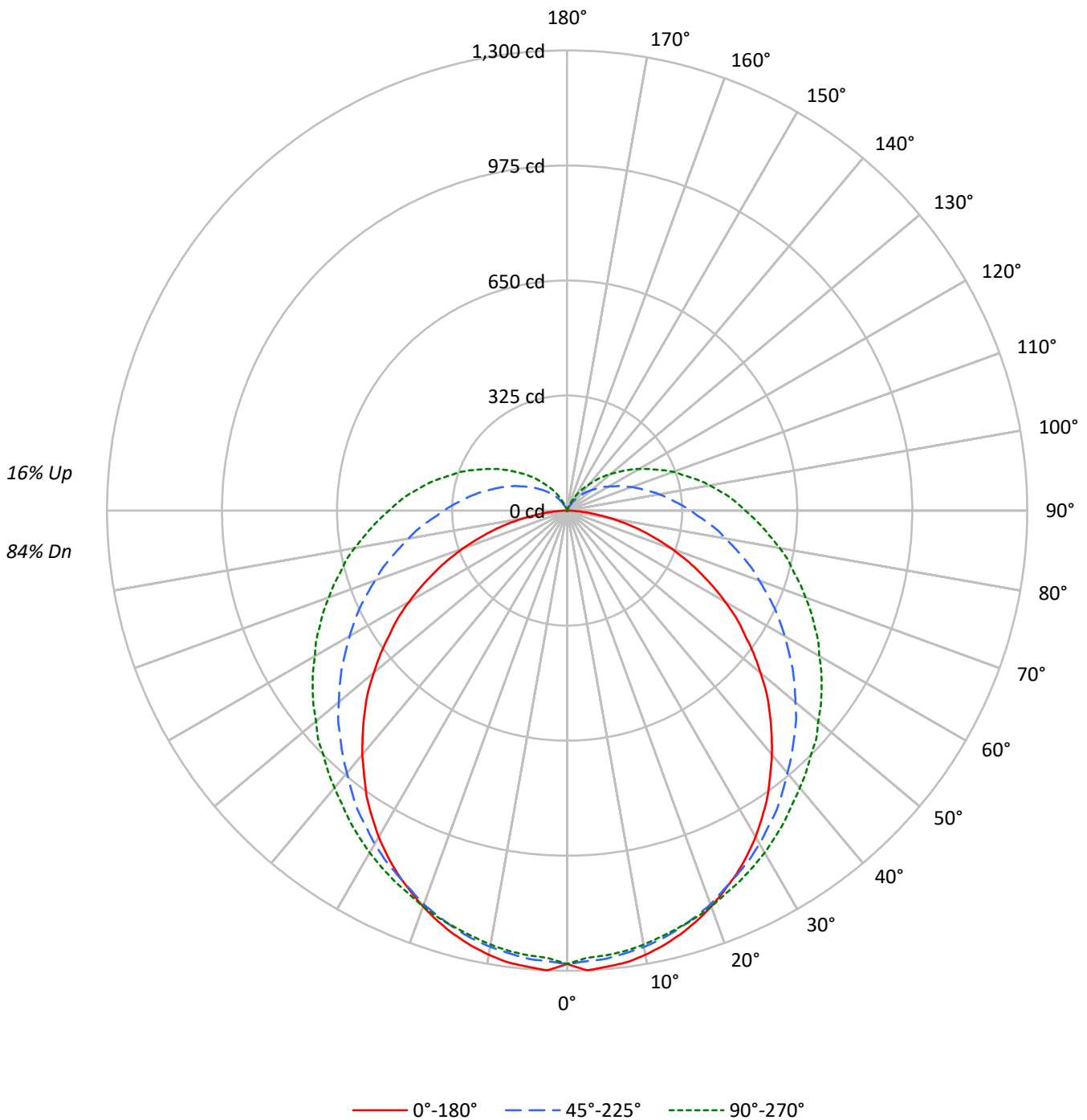
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65
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°	10318	10318	10318
5°	10443	9669	9380
10°	10386	9084	8660
15°	10275	8545	8022
20°	10129	8039	7483
25°	9969	7552	7002
30°	9786	7138	6583
35°	9569	6744	6196
40°	9303	6339	5848
45°	9037	5999	5550
50°	8719	5673	5294
55°	8360	5377	5076
60°	8028	5082	4852
65°	7534	4827	4674
70°	6971	4559	4502
75°	6241	4350	4350
80°	5086	4143	4240
85°	3612	3997	4127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	2.3
10°-20°	346.8	6.4
20°-30°	527.2	9.8
30°-40°	645.2	12.0
40°-50°	696.6	12.9
50°-60°	683.9	12.7
60°-70°	615.9	11.4
70°-80°	510.0	9.5
80°-90°	392.3	7.3
90°-100°	295.7	5.5
100°-110°	217.6	4.0
110°-120°	150.1	2.8
120°-130°	95.2	1.8
130°-140°	52.7	1.0
140°-150°	22.8	0.4
150°-160°	5.7	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	995.3	18.5
0°-40°	1640.5	30.5
0°-60°	3020.9	56.2
0°-90°	4539.1	84.4
90°-120°	663.4	12.3
90°-150°	834.1	15.5
90°-180°	840.0	15.6
0°-180°	5379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1294	1287	1271	1271	1261	123
15°	1239	1236	1223	1229	1219	349
25°	1132	1132	1136	1158	1155	521
35°	987	997	1032	1065	1071	616
45°	810	845	906	961	974	624
55°	613	681	778	855	878	550
65°	413	506	645	742	771	410
75°	216	345	516	626	661	229
85°	48	213	400	519	555	55
90°	0	164	348	468	503	3
95°	3	129	303	419	458	1
105°	0	81	226	329	361	0
115°	0	52	164	248	274	0
125°	0	32	113	177	197	0
135°	0	19	71	116	129	0
145°	0	6	36	64	71	0
155°	0	3	10	19	23	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°	1280.7	1280.7	1280.7	1280.7	1280.7
2.5°	1300.1	1290.4	1274.2	1274.2	1264.6
5°	1293.6	1287.2	1271.0	1271.0	1261.3
7.5°	1287.2	1280.7	1261.3	1264.6	1254.9
10°	1274.2	1267.8	1251.7	1254.9	1245.2
12.5°	1258.1	1251.7	1238.8	1242.0	1232.3
15°	1238.8	1235.5	1222.6	1229.1	1219.4
17.5°	1216.2	1213.0	1203.3	1213.0	1206.5
20°	1190.4	1190.4	1183.9	1196.8	1190.4
22.5°	1161.3	1161.3	1158.1	1177.5	1171.0
25°	1132.3	1132.3	1135.5	1158.1	1154.9
27.5°	1100.0	1103.3	1113.0	1138.8	1135.5
30°	1064.6	1071.0	1087.1	1116.2	1116.2
32.5°	1025.9	1032.3	1058.1	1093.6	1093.6
35°	987.1	996.8	1032.3	1064.6	1071.0
37.5°	942.0	958.1	1000.0	1038.8	1045.2
40°	900.0	922.6	967.8	1012.9	1022.6
42.5°	854.9	883.9	938.7	990.4	1000.0
45°	809.7	845.2	906.5	961.3	974.2
47.5°	764.5	803.3	877.5	935.5	954.9
50°	712.9	761.3	842.0	909.7	925.8
52.5°	664.5	719.4	809.7	880.7	903.3
55°	612.9	680.7	777.5	854.9	877.5
57.5°	567.8	635.5	742.0	829.1	851.6
60°	516.2	590.3	709.7	796.8	822.6
62.5°	464.5	551.6	677.4	771.0	800.0
65°	412.9	506.5	645.2	742.0	771.0
67.5°	364.5	464.5	609.7	712.9	745.2
70°	312.9	422.6	577.4	683.9	716.2
72.5°	264.5	383.9	548.4	654.9	690.4
75°	216.1	345.2	516.2	625.8	661.3
77.5°	171.0	309.7	483.9	600.0	638.7
80°	122.6	274.2	454.9	571.0	609.7
82.5°	83.9	241.9	429.1	545.2	580.7
85°	48.4	212.9	400.0	519.4	554.9
87.5°	19.4	187.1	371.0	490.3	529.1
90°	0.0	164.5	348.4	467.8	503.2
92.5°	0.0	145.2	325.8	442.0	480.7
95°	3.2	129.0	303.2	419.4	458.1
97.5°	0.0	112.9	283.9	396.8	432.3
100°	0.0	103.2	264.5	374.2	409.7
102.5°	0.0	90.3	245.2	351.6	387.1
105°	0.0	80.6	225.8	329.0	361.3
107.5°	0.0	74.2	209.7	309.7	338.7
110°	0.0	64.5	193.6	290.3	319.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	58.1	177.4	267.8	296.8
115°	0.0	51.6	164.5	248.4	274.2
117.5°	0.0	48.4	148.4	229.0	254.8
120°	0.0	41.9	135.5	212.9	235.5
122.5°	0.0	38.7	125.8	193.6	216.1
125°	0.0	32.3	112.9	177.4	196.8
127.5°	0.0	29.0	100.0	161.3	177.4
130°	0.0	25.8	90.3	145.2	161.3
132.5°	0.0	22.6	80.6	129.0	145.2
135°	0.0	19.4	71.0	116.1	129.0
137.5°	0.0	16.1	61.3	100.0	112.9
140°	0.0	12.9	51.6	87.1	96.8
142.5°	0.0	9.7	45.2	74.2	83.9
145°	0.0	6.5	35.5	64.5	71.0
147.5°	0.0	6.5	29.0	51.6	58.1
150°	0.0	3.2	19.4	41.9	45.2
152.5°	0.0	3.2	16.1	32.3	32.3
155°	0.0	3.2	9.7	19.4	22.6
157.5°	0.0	0.0	6.5	12.9	12.9
160°	0.0	0.0	3.2	6.5	9.7
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)