

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: P218271

Luminaire Tested: **8TSNLED-LD5-130HL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8TSNLED-LD5-130HL-LN-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10819.9 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.04 / 1.17  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')  
CIE Type: Direct

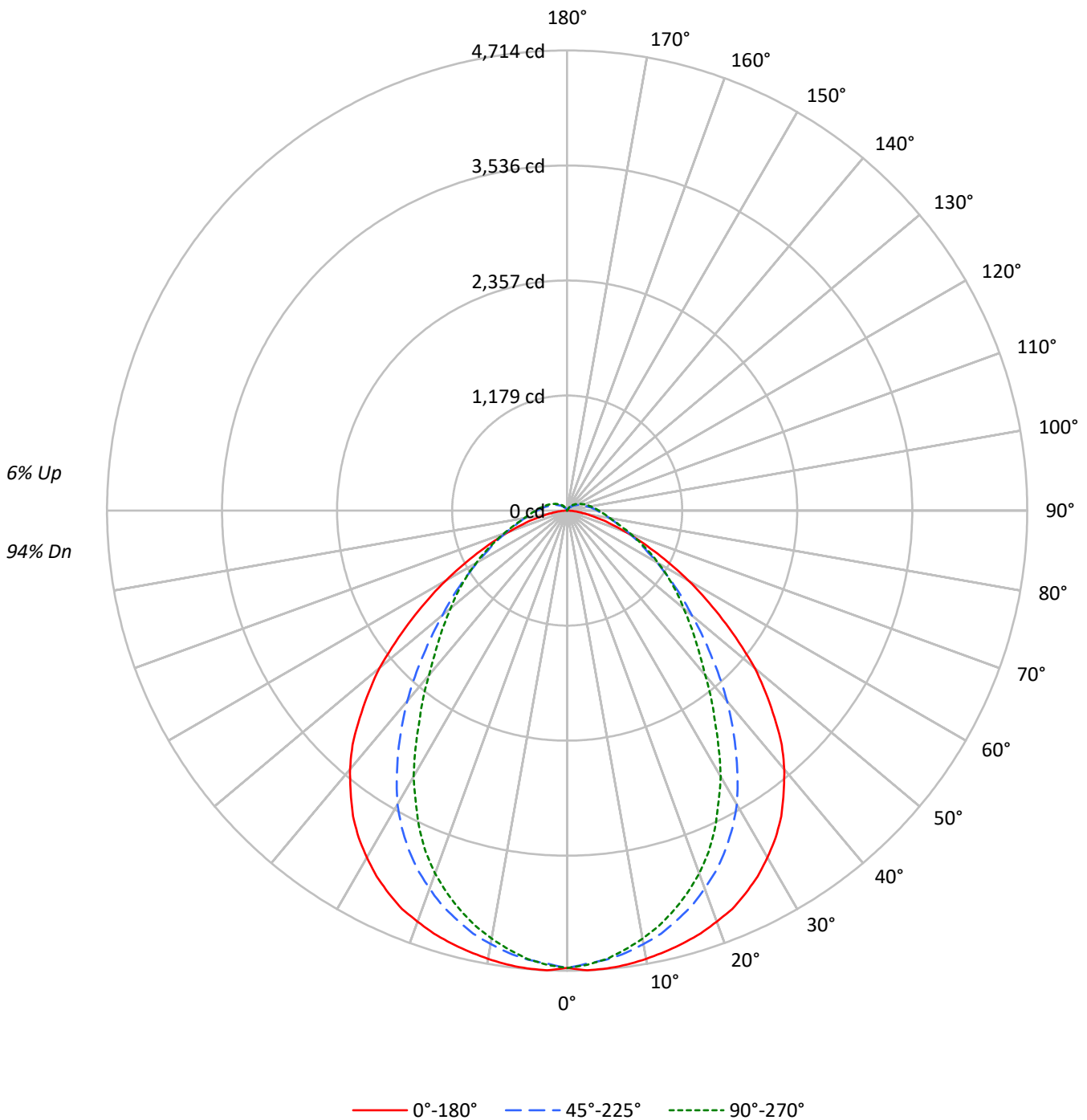
Input Watts (W): 85.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	108	103	99	95	105	100	97	93	95	92	89	90	88	86	86	84	82	80
2	99	91	85	79	96	89	83	78	84	79	75	80	76	73	77	73	70	68
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45
6	72	59	51	45	70	58	50	44	56	49	44	54	47	43	52	46	42	40
7	67	54	46	40	65	53	45	40	51	44	39	49	43	38	47	42	38	36
8	63	50	42	36	61	49	41	36	47	40	35	45	39	35	44	38	34	32
9	59	46	38	33	57	45	38	33	43	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	35	30	40	34	29	39	33	29	38	32	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	37753	37753	37753
5°	38013	35126	34298
10°	38009	32725	30964
15°	38064	30360	27863
20°	38127	27985	24869
25°	38092	25516	21739
30°	37729	22834	18559
35°	37080	19702	15269
40°	35767	16691	12584
45°	33530	13731	10555
50°	30676	11216	8900
55°	26515	9265	7585
60°	22340	7592	6355
65°	17891	6312	5253
70°	14098	5312	4336
75°	10864	4516	3600
80°	7804	3998	3092
85°	5105	3645	2798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.5	4.1
10°-20°	1236.4	11.4
20°-30°	1790.4	16.5
30°-40°	1948.6	18.0
40°-50°	1730.6	16.0
50°-60°	1317.3	12.2
60°-70°	874.6	8.1
70°-80°	532.9	4.9
80°-90°	330.2	3.1
90°-100°	225.5	2.1
100°-110°	158.3	1.5
110°-120°	107.8	1.0
120°-130°	68.4	0.6
130°-140°	38.9	0.4
140°-150°	18.3	0.2
150°-160°	1.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3467.3	32.0
0°-40°	5415.9	50.1
0°-60°	8463.8	78.2
0°-90°	10201.5	94.3
90°-120°	491.6	4.5
90°-150°	617.1	5.7
90°-180°	618.0	5.7
0°-180°	10819.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4686	4686	4686	4686	4686	
5°	4709	4680	4618	4640	4612	448
15°	4589	4509	4344	4292	4236	1297
25°	4327	4133	3836	3683	3586	1992
35°	3825	3483	3016	2753	2639	2383
45°	3004	2554	2075	1898	1853	2314
55°	1944	1579	1340	1317	1311	1744
65°	980	844	844	878	866	989
75°	376	428	536	564	547	407
85°	68	217	365	388	376	81
90°	0	160	308	336	325	5
95°	0	125	262	291	285	0
105°	0	80	188	217	217	0
115°	0	51	137	165	160	0
125°	0	34	91	114	114	0
135°	0	23	63	80	80	0
145°	0	11	34	46	46	0
155°	0	0	0	0	0	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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CATALOG NUMBER: 8TSNLED-LD5-130HL-LN-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4685.9	4685.9	4685.9	4685.9	4685.9
2.5°	4714.4	4691.6	4646.0	4674.5	4657.4
5°	4708.7	4680.2	4617.5	4640.3	4611.8
7.5°	4691.6	4657.4	4571.9	4583.3	4537.7
10°	4663.1	4617.5	4509.2	4497.8	4452.2
12.5°	4628.9	4571.9	4440.8	4400.9	4355.2
15°	4589.0	4509.2	4343.8	4292.5	4235.5
17.5°	4543.4	4435.1	4246.9	4167.1	4104.4
20°	4480.7	4349.5	4121.5	4024.6	3956.2
22.5°	4418.0	4246.9	3990.4	3859.3	3785.2
25°	4326.7	4132.9	3836.5	3682.6	3585.7
27.5°	4224.1	4001.8	3665.5	3466.0	3357.6
30°	4104.4	3847.9	3477.4	3243.6	3146.7
32.5°	3973.3	3676.9	3249.3	2998.5	2890.2
35°	3825.1	3483.1	3015.6	2753.4	2639.4
37.5°	3642.7	3272.1	2781.9	2514.0	2422.7
40°	3460.3	3049.8	2548.2	2297.3	2200.4
42.5°	3255.0	2804.7	2308.7	2080.7	2012.3
45°	3004.2	2553.9	2075.0	1898.3	1852.7
47.5°	2759.1	2297.3	1864.1	1738.7	1698.8
50°	2508.3	2046.5	1664.6	1584.8	1556.3
52.5°	2217.5	1801.4	1499.3	1447.9	1436.5
55°	1943.9	1579.1	1339.6	1316.8	1311.1
57.5°	1681.7	1368.1	1191.4	1208.5	1197.1
60°	1436.5	1174.3	1060.3	1083.1	1077.4
62.5°	1197.1	997.6	940.6	986.2	974.8
65°	980.5	843.7	843.7	877.9	866.5
67.5°	792.4	718.3	752.5	786.7	775.3
70°	632.8	604.3	672.7	701.2	689.8
72.5°	490.3	507.4	592.9	627.1	610.0
75°	376.2	427.5	535.9	564.4	547.3
77.5°	267.9	359.1	484.5	507.4	490.3
80°	188.1	302.1	438.9	461.7	444.6
82.5°	119.7	256.5	399.0	421.8	410.4
85°	68.4	216.6	364.8	387.6	376.2
87.5°	34.2	188.1	330.6	359.1	347.7
90°	0.0	159.6	307.8	336.3	324.9
92.5°	0.0	142.5	285.0	313.5	302.1
95°	0.0	125.4	262.2	290.7	285.0
97.5°	0.0	114.0	245.1	273.6	262.2
100°	0.0	96.9	222.3	250.8	245.1
102.5°	0.0	91.2	205.2	233.7	228.0
105°	0.0	79.8	188.1	216.6	216.6
107.5°	0.0	74.1	176.7	205.2	199.5
110°	0.0	62.7	159.6	188.1	188.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	57.0	148.2	176.7	171.0
115°	0.0	51.3	136.8	165.3	159.6
117.5°	0.0	51.3	125.4	148.2	148.2
120°	0.0	45.6	114.0	136.8	136.8
122.5°	0.0	39.9	102.6	125.4	125.4
125°	0.0	34.2	91.2	114.0	114.0
127.5°	0.0	34.2	85.5	108.3	108.3
130°	0.0	28.5	74.1	96.9	96.9
132.5°	0.0	22.8	68.4	85.5	85.5
135°	0.0	22.8	62.7	79.8	79.8
137.5°	0.0	17.1	51.3	68.4	68.4
140°	0.0	17.1	45.6	62.7	62.7
142.5°	0.0	11.4	39.9	57.0	51.3
145°	0.0	11.4	34.2	45.6	45.6
147.5°	0.0	5.7	28.5	39.9	39.9
150°	0.0	5.7	22.8	34.2	28.5
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	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)