

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: P218255

Luminaire Tested: **8TSNLED-LD5-83SL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218255
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-LD5-83SL-LN-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7788.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

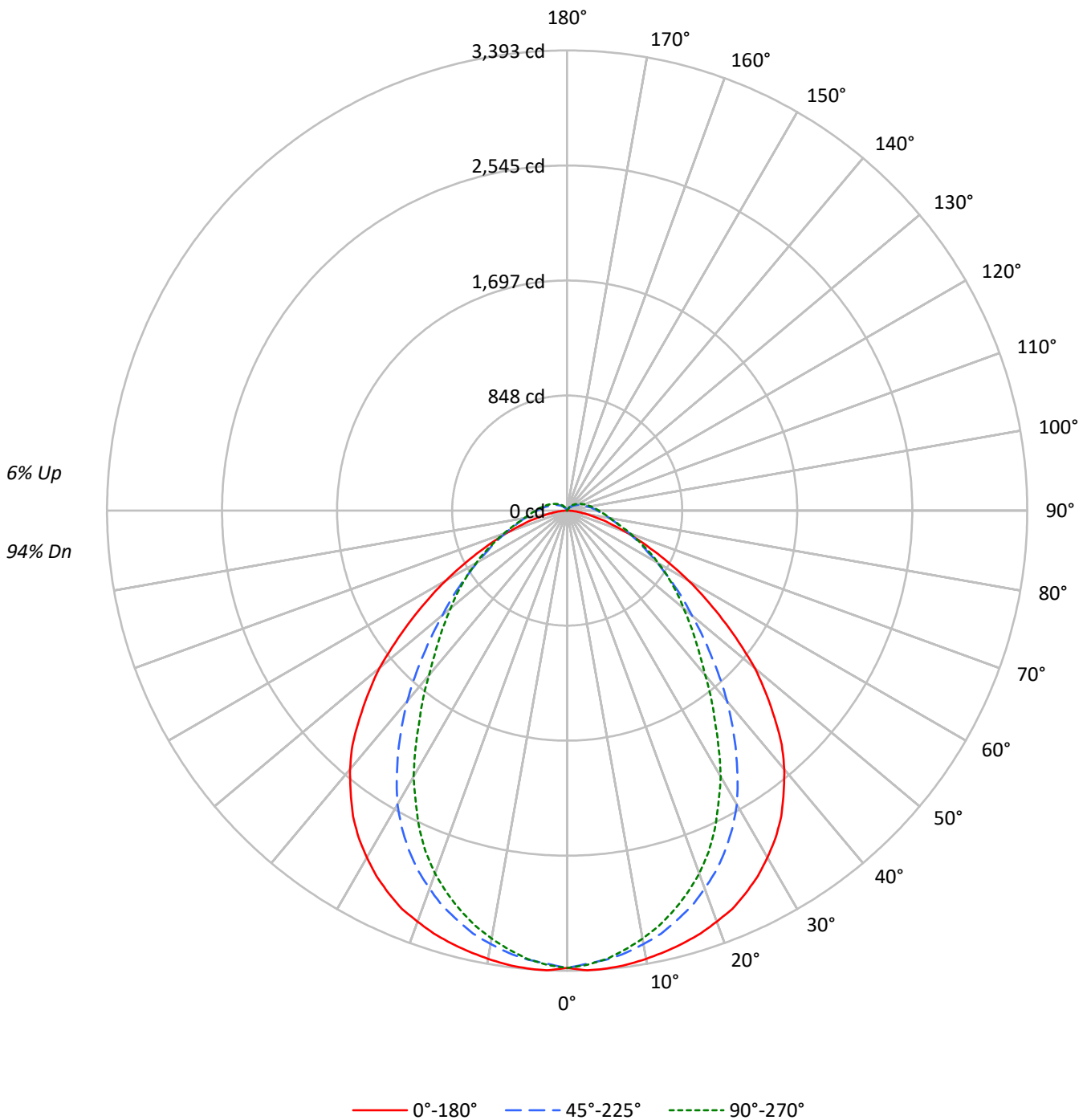
Input Watts (W): 61.16
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	27174	27174	27174
5°	27361	25283	24687
10°	27358	23554	22287
15°	27397	21852	20055
20°	27443	20143	17900
25°	27418	18366	15647
30°	27157	16435	13358
35°	26689	14181	10990
40°	25744	12013	9057
45°	24135	9883	7597
50°	22080	8073	6406
55°	19085	6669	5459
60°	16080	5465	4574
65°	12877	4544	3781
70°	10148	3823	3121
75°	7821	3250	2591
80°	5617	2877	2226
85°	3672	2624	2014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.1	4.1
10°-20°	889.9	11.4
20°-30°	1288.7	16.5
30°-40°	1402.5	18.0
40°-50°	1245.6	16.0
50°-60°	948.2	12.2
60°-70°	629.5	8.1
70°-80°	383.6	4.9
80°-90°	237.7	3.1
90°-100°	162.4	2.1
100°-110°	113.9	1.5
110°-120°	77.6	1.0
120°-130°	49.2	0.6
130°-140°	28.0	0.4
140°-150°	13.1	0.2
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2495.7	32.0
0°-40°	3898.2	50.1
0°-60°	6092.0	78.2
0°-90°	7342.8	94.3
90°-120°	353.9	4.5
90°-150°	444.2	5.7
90°-180°	445.0	5.7
0°-180°	7788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3373	3373	3373	3373	3373	
5°	3389	3369	3324	3340	3320	322
15°	3303	3246	3127	3090	3049	933
25°	3114	2975	2761	2651	2581	1434
35°	2753	2507	2171	1982	1900	1715
45°	2162	1838	1494	1366	1334	1665
55°	1399	1137	964	948	944	1255
65°	706	607	607	632	624	712
75°	271	308	386	406	394	293
85°	49	156	263	279	271	59
90°	0	115	222	242	234	3
95°	0	90	189	209	205	0
105°	0	57	135	156	156	0
115°	0	37	98	119	115	0
125°	0	25	66	82	82	0
135°	0	16	45	57	57	0
145°	0	8	25	33	33	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3372.8	3372.8	3372.8	3372.8	3372.8
2.5°	3393.3	3376.9	3344.1	3364.6	3352.3
5°	3389.2	3368.7	3323.6	3340.0	3319.5
7.5°	3376.9	3352.3	3290.7	3298.9	3266.1
10°	3356.4	3323.6	3245.6	3237.4	3204.6
12.5°	3331.8	3290.7	3196.4	3167.6	3134.8
15°	3303.0	3245.6	3126.6	3089.7	3048.6
17.5°	3270.2	3192.3	3056.9	2999.4	2954.3
20°	3225.1	3130.7	2966.6	2896.8	2847.6
22.5°	3179.9	3056.9	2872.2	2777.8	2724.5
25°	3114.3	2974.8	2761.4	2650.6	2580.9
27.5°	3040.4	2880.4	2638.3	2494.7	2416.8
30°	2954.3	2769.6	2502.9	2334.7	2264.9
32.5°	2859.9	2646.5	2338.8	2158.3	2080.3
35°	2753.2	2507.0	2170.6	1981.8	1899.8
37.5°	2621.9	2355.2	2002.3	1809.5	1743.8
40°	2490.6	2195.2	1834.1	1653.6	1583.8
42.5°	2342.9	2018.8	1661.8	1497.7	1448.4
45°	2162.4	1838.2	1493.5	1366.4	1333.5
47.5°	1985.9	1653.6	1341.7	1251.5	1222.7
50°	1805.4	1473.0	1198.1	1140.7	1120.2
52.5°	1596.1	1296.6	1079.1	1042.2	1034.0
55°	1399.2	1136.6	964.2	947.8	943.7
57.5°	1210.4	984.8	857.6	869.9	861.7
60°	1034.0	845.3	763.2	779.6	775.5
62.5°	861.7	718.1	677.0	709.8	701.6
65°	705.7	607.3	607.3	631.9	623.7
67.5°	570.3	517.0	541.6	566.2	558.0
70°	455.5	434.9	484.2	504.7	496.5
72.5°	352.9	365.2	426.7	451.3	439.0
75°	270.8	307.7	385.7	406.2	393.9
77.5°	192.8	258.5	348.8	365.2	352.9
80°	135.4	217.5	315.9	332.4	320.0
82.5°	86.2	184.6	287.2	303.6	295.4
85°	49.2	155.9	262.6	279.0	270.8
87.5°	24.6	135.4	238.0	258.5	250.3
90°	0.0	114.9	221.6	242.1	233.9
92.5°	0.0	102.6	205.2	225.7	217.5
95°	0.0	90.3	188.7	209.3	205.2
97.5°	0.0	82.1	176.4	197.0	188.7
100°	0.0	69.8	160.0	180.5	176.4
102.5°	0.0	65.7	147.7	168.2	164.1
105°	0.0	57.4	135.4	155.9	155.9
107.5°	0.0	53.3	127.2	147.7	143.6
110°	0.0	45.1	114.9	135.4	135.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	41.0	106.7	127.2	123.1
115°	0.0	36.9	98.5	119.0	114.9
117.5°	0.0	36.9	90.3	106.7	106.7
120°	0.0	32.8	82.1	98.5	98.5
122.5°	0.0	28.7	73.9	90.3	90.3
125°	0.0	24.6	65.7	82.1	82.1
127.5°	0.0	24.6	61.5	78.0	78.0
130°	0.0	20.5	53.3	69.8	69.8
132.5°	0.0	16.4	49.2	61.5	61.5
135°	0.0	16.4	45.1	57.4	57.4
137.5°	0.0	12.3	36.9	49.2	49.2
140°	0.0	12.3	32.8	45.1	45.1
142.5°	0.0	8.2	28.7	41.0	36.9
145°	0.0	8.2	24.6	32.8	32.8
147.5°	0.0	4.1	20.5	28.7	28.7
150°	0.0	4.1	16.4	24.6	20.5
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)