

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: P218257

Luminaire Tested: **8TSNLED-LD5-83SL-LN-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218257
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-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8439.0 lumens
Efficiency: N/A
Efficacy: 138.0 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

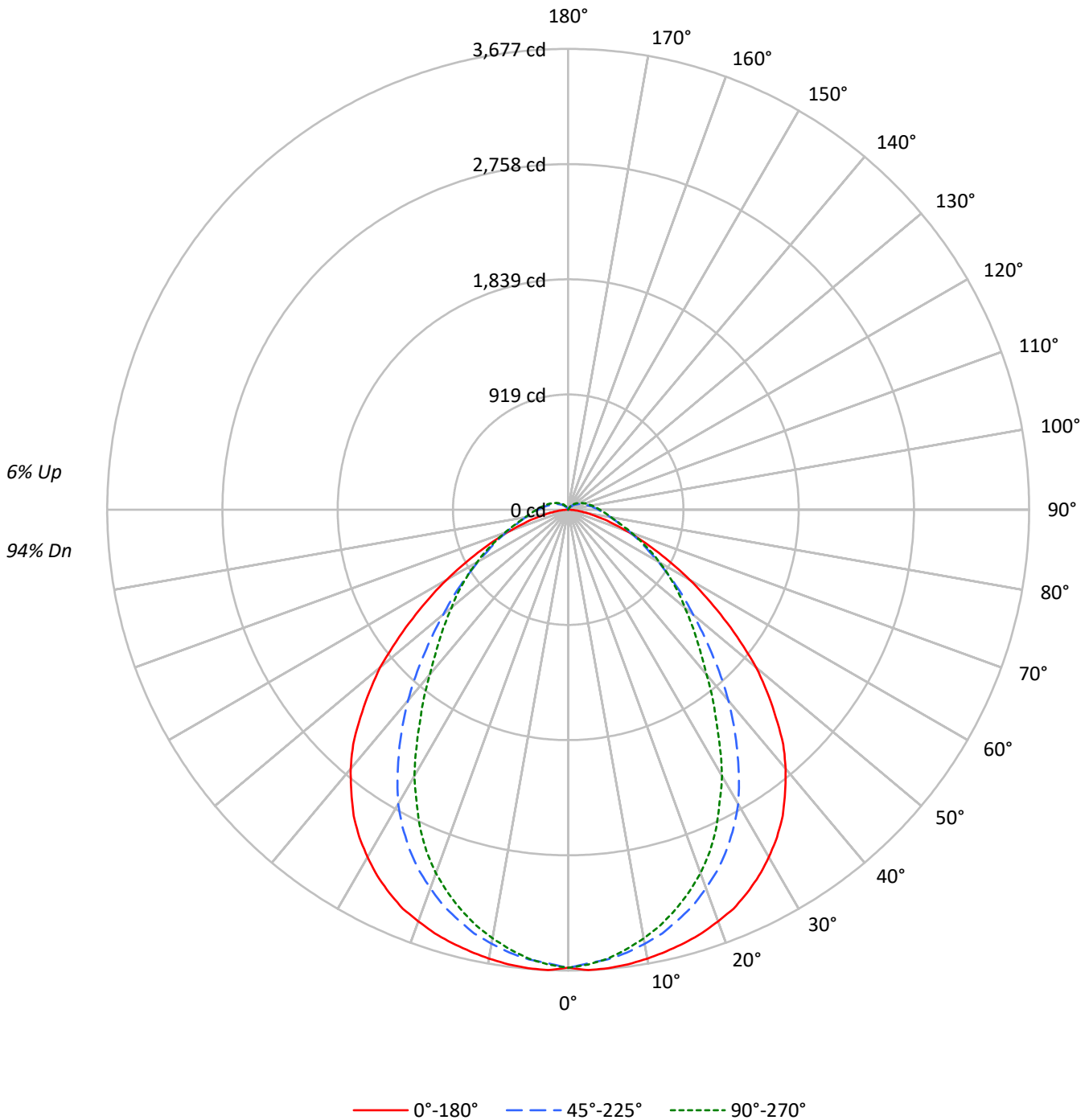
Input Watts (W): 61.16
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29445	29445	29445
5°	29648	27396	26750
10°	29645	25523	24150
15°	29687	23679	21732
20°	29737	21827	19396
25°	29710	19902	16955
30°	29427	17809	14475
35°	28921	15366	11909
40°	27896	13017	9815
45°	26152	10709	8232
50°	23925	8748	6941
55°	20680	7226	5916
60°	17424	5922	4956
65°	13954	4923	4097
70°	10995	4142	3382
75°	8473	3522	2808
80°	6086	3119	2412
85°	3985	2844	2182



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.6	4.1
10°-20°	964.3	11.4
20°-30°	1396.4	16.5
30°-40°	1519.8	18.0
40°-50°	1349.8	16.0
50°-60°	1027.4	12.2
60°-70°	682.2	8.1
70°-80°	415.6	4.9
80°-90°	257.6	3.1
90°-100°	175.9	2.1
100°-110°	123.5	1.5
110°-120°	84.1	1.0
120°-130°	53.3	0.6
130°-140°	30.3	0.4
140°-150°	14.2	0.2
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2704.3	32.0
0°-40°	4224.1	50.1
0°-60°	6601.3	78.2
0°-90°	7956.6	94.3
90°-120°	383.5	4.5
90°-150°	481.4	5.7
90°-180°	482.0	5.7
0°-180°	8439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3655	3655	3655	3655	3655	
5°	3672	3650	3601	3619	3597	349
15°	3579	3517	3388	3348	3304	1011
25°	3375	3224	2992	2872	2797	1554
35°	2983	2717	2352	2148	2059	1859
45°	2343	1992	1618	1481	1445	1804
55°	1516	1232	1045	1027	1023	1360
65°	765	658	658	685	676	771
75°	293	334	418	440	427	317
85°	53	169	285	302	293	63
90°	0	124	240	262	253	4
95°	0	98	204	227	222	0
105°	0	62	147	169	169	0
115°	0	40	107	129	124	0
125°	0	27	71	89	89	0
135°	0	18	49	62	62	0
145°	0	9	27	36	36	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°	3654.7	3654.7	3654.7	3654.7	3654.7
2.5°	3677.0	3659.2	3623.6	3645.8	3632.5
5°	3672.5	3650.3	3601.4	3619.2	3596.9
7.5°	3659.2	3632.5	3565.8	3574.7	3539.1
10°	3636.9	3601.4	3516.9	3508.0	3472.4
12.5°	3610.3	3565.8	3463.5	3432.4	3396.9
15°	3579.1	3516.9	3388.0	3347.9	3303.5
17.5°	3543.6	3459.1	3312.4	3250.1	3201.2
20°	3494.7	3392.4	3214.6	3139.0	3085.6
22.5°	3445.8	3312.4	3112.3	3010.0	2952.2
25°	3374.6	3223.5	2992.3	2872.2	2796.6
27.5°	3294.6	3121.2	2858.9	2703.3	2618.8
30°	3201.2	3001.1	2712.1	2529.9	2454.3
32.5°	3099.0	2867.8	2534.3	2338.7	2254.2
35°	2983.4	2716.6	2352.0	2147.5	2058.6
37.5°	2841.1	2552.1	2169.7	1960.7	1889.6
40°	2698.8	2378.7	1987.4	1791.8	1716.2
42.5°	2538.7	2187.5	1800.7	1622.8	1569.5
45°	2343.1	1991.9	1618.4	1480.6	1445.0
47.5°	2151.9	1791.8	1453.9	1356.1	1324.9
50°	1956.3	1596.2	1298.3	1236.0	1213.8
52.5°	1729.5	1405.0	1169.3	1129.3	1120.4
55°	1516.1	1231.6	1044.8	1027.1	1022.6
57.5°	1311.6	1067.1	929.2	942.6	933.7
60°	1120.4	915.9	827.0	844.8	840.3
62.5°	933.7	778.1	733.6	769.2	760.3
65°	764.7	658.0	658.0	684.7	675.8
67.5°	618.0	560.2	586.9	613.6	604.7
70°	493.5	471.3	524.6	546.9	538.0
72.5°	382.4	395.7	462.4	489.1	475.7
75°	293.4	333.5	417.9	440.2	426.8
77.5°	209.0	280.1	377.9	395.7	382.4
80°	146.7	235.6	342.4	360.1	346.8
82.5°	93.4	200.1	311.2	329.0	320.1
85°	53.4	169.0	284.6	302.3	293.4
87.5°	26.7	146.7	257.9	280.1	271.2
90°	0.0	124.5	240.1	262.3	253.4
92.5°	0.0	111.2	222.3	244.5	235.6
95°	0.0	97.8	204.5	226.8	222.3
97.5°	0.0	88.9	191.2	213.4	204.5
100°	0.0	75.6	173.4	195.6	191.2
102.5°	0.0	71.1	160.1	182.3	177.8
105°	0.0	62.2	146.7	169.0	169.0
107.5°	0.0	57.8	137.8	160.1	155.6
110°	0.0	48.9	124.5	146.7	146.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	44.5	115.6	137.8	133.4
115°	0.0	40.0	106.7	128.9	124.5
117.5°	0.0	40.0	97.8	115.6	115.6
120°	0.0	35.6	88.9	106.7	106.7
122.5°	0.0	31.1	80.0	97.8	97.8
125°	0.0	26.7	71.1	88.9	88.9
127.5°	0.0	26.7	66.7	84.5	84.5
130°	0.0	22.2	57.8	75.6	75.6
132.5°	0.0	17.8	53.4	66.7	66.7
135°	0.0	17.8	48.9	62.2	62.2
137.5°	0.0	13.3	40.0	53.4	53.4
140°	0.0	13.3	35.6	48.9	48.9
142.5°	0.0	8.9	31.1	44.5	40.0
145°	0.0	8.9	26.7	35.6	35.6
147.5°	0.0	4.4	22.2	31.1	31.1
150°	0.0	4.4	17.8	26.7	22.2
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)