

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: P218137

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35685)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8TSNLED-LD5-83SL-LC-UNV-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8691.9 lumens  
Efficiency: N/A  
Efficacy: 142.1 lumens/watt  
Spacing Criteria (0/90/45): 1.59 / 1.17 / 1.18  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')  
CIE Type: Direct

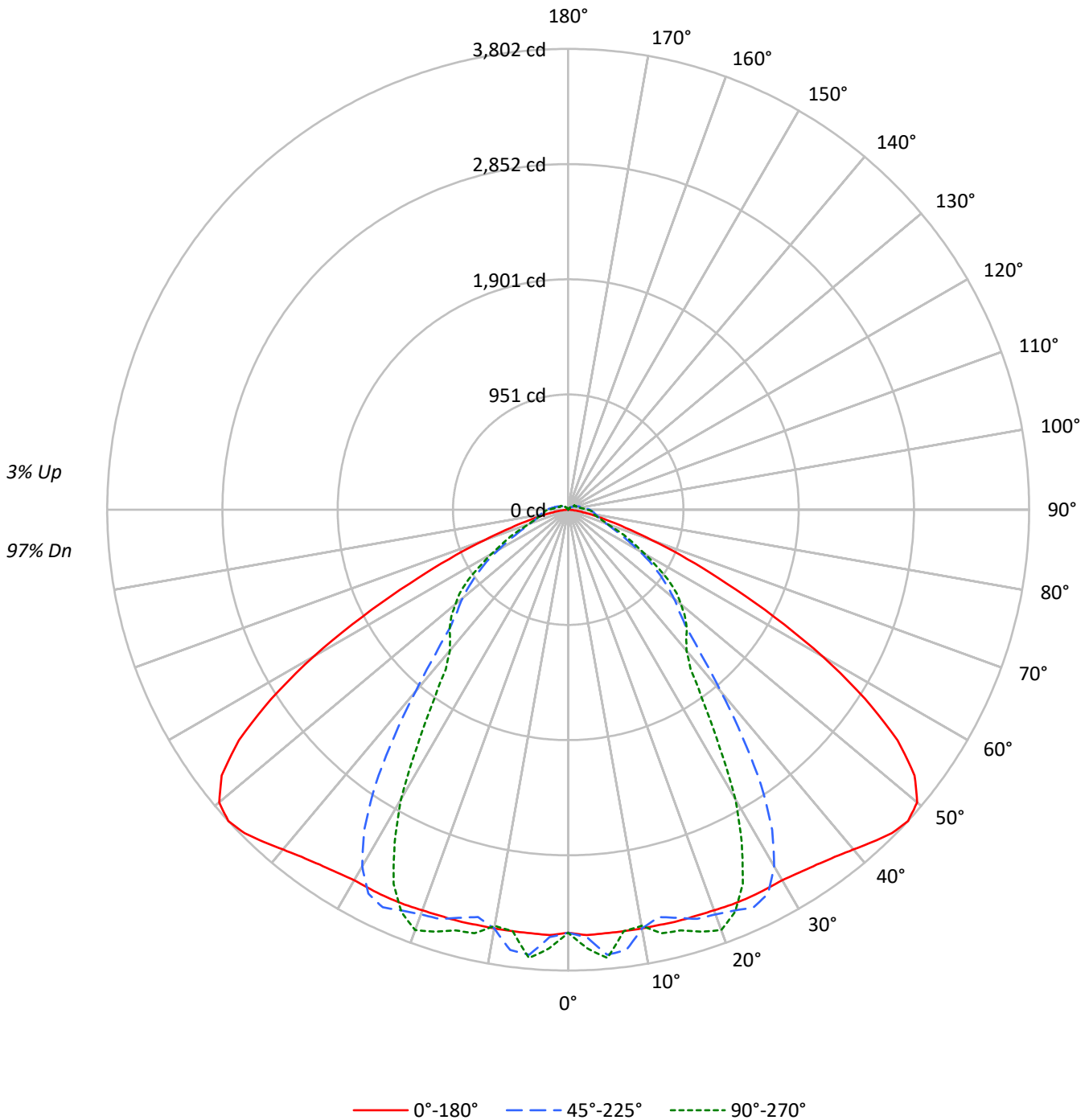
Input Watts (W): 61.16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	99	99	97		
1	109	105	101	98	106	102	99	96	97	95	92	93	91	89	89	87	85	85	85	85	85	85	85	83		
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	74	74	74	74	74	74	72		
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	64	64	64	64	64	64	62		
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	65	60	57	57	57	57	57	57	57	54		
5	79	67	59	53	77	66	58	53	64	57	52	61	55	51	59	54	50	50	50	50	50	50	50	48		
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	54	49	45	45	45	45	45	45	45	43		
7	68	56	48	42	66	55	47	42	53	46	41	51	45	41	50	44	40	40	40	40	40	40	40	38		
8	64	51	43	38	62	50	43	37	49	42	37	47	41	37	46	40	36	36	36	36	36	36	36	34		
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	33	33	33	31		
10	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	30	30	30	28		

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

	0°	45°	90°
0°	28121	28121	28121
5°	28320	28040	27610
10°	28595	25460	24244
15°	29136	24364	23633
20°	29927	24122	23198
25°	31081	24072	20648
30°	32452	22306	16259
35°	34654	18127	11266
40°	37824	12814	8671
45°	42132	9121	7878
50°	45949	7669	6941
55°	45243	6304	5787
60°	37754	4775	4327
65°	26287	3460	3181
70°	16542	2633	2180
75°	9501	2248	1726
80°	5534	2106	1484
85°	2657	2043	1488



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.1	3.9
10°-20°	1010.5	11.6
20°-30°	1605.6	18.5
30°-40°	1731.2	19.9
40°-50°	1492.1	17.2
50°-60°	1129.7	13.0
60°-70°	610.3	7.0
70°-80°	289.8	3.3
80°-90°	182.0	2.1
90°-100°	115.8	1.3
100°-110°	74.1	0.9
110°-120°	49.6	0.6
120°-130°	32.7	0.4
130°-140°	16.0	0.2
140°-150°	6.8	0.1
150°-160°	2.5	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	2959.1	34.0
0°-40°	4690.4	54.0
0°-60°	7312.1	84.1
0°-90°	8394.2	96.6
90°-120°	239.5	2.8
90°-150°	295.1	3.4
90°-180°	298.0	3.4
0°-180°	8691.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3490	3490	3490	3490	3490	
5°	3508	3584	3686	3735	3713	335
15°	3513	3606	3486	3606	3593	996
25°	3530	3464	3619	3521	3406	1633
35°	3575	3441	2774	2121	1948	2252
45°	3775	2365	1378	1365	1383	2906
55°	3317	1023	912	996	1000	2885
65°	1441	436	462	520	525	1479
75°	329	227	267	267	262	387
85°	36	138	204	204	200	51
90°	0	107	178	173	160	2
95°	0	84	142	129	120	0
105°	0	53	98	89	80	0
115°	0	31	67	67	67	0
125°	0	18	44	58	53	0
135°	0	9	27	31	31	0
145°	0	4	13	18	13	0
155°	0	4	4	9	4	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°	3490.3	3490.3	3490.3	3490.3	3490.3
2.5°	3512.6	3517.0	3530.3	3597.0	3623.7
5°	3508.1	3583.7	3686.0	3734.9	3712.6
7.5°	3508.1	3663.7	3663.7	3570.4	3508.1
10°	3508.1	3708.2	3508.1	3490.3	3485.9
12.5°	3508.1	3681.5	3441.4	3565.9	3579.2
15°	3512.6	3605.9	3485.9	3605.9	3592.6
17.5°	3512.6	3517.0	3539.2	3632.6	3650.4
20°	3517.0	3459.2	3552.6	3703.7	3690.4
22.5°	3525.9	3450.3	3579.2	3672.6	3592.6
25°	3530.3	3463.6	3619.3	3521.4	3405.8
27.5°	3530.3	3481.4	3570.4	3290.2	3099.0
30°	3530.3	3490.3	3396.9	2970.1	2756.7
32.5°	3548.1	3481.4	3130.2	2552.2	2321.0
35°	3574.8	3441.4	2774.5	2120.9	1947.5
37.5°	3610.4	3334.7	2356.5	1774.1	1658.5
40°	3659.3	3103.5	1956.4	1551.7	1516.2
42.5°	3717.1	2765.6	1627.3	1440.6	1440.6
45°	3774.9	2365.4	1378.3	1365.0	1382.8
47.5°	3801.6	1974.1	1240.5	1289.4	1307.2
50°	3757.1	1609.5	1138.2	1204.9	1213.8
52.5°	3601.5	1285.0	1022.6	1102.7	1124.9
55°	3316.9	1022.6	911.5	996.0	1000.4
57.5°	2903.4	813.7	795.9	862.6	858.1
60°	2427.7	658.0	666.9	733.6	733.6
62.5°	1916.3	533.6	560.2	618.0	613.6
65°	1440.6	435.7	462.4	520.2	524.7
67.5°	1062.7	360.1	391.3	431.3	422.4
70°	742.5	302.3	333.5	355.7	346.8
72.5°	493.5	257.9	293.5	302.3	297.9
75°	329.0	226.8	266.8	266.8	262.3
77.5°	213.4	200.1	249.0	244.5	235.7
80°	133.4	177.9	231.2	222.3	213.4
82.5°	80.0	155.6	217.9	209.0	200.1
85°	35.6	137.8	204.5	204.5	200.1
87.5°	13.3	124.5	191.2	195.6	186.7
90°	0.0	106.7	177.9	173.4	160.1
92.5°	0.0	97.8	160.1	146.7	137.8
95°	0.0	84.5	142.3	128.9	120.0
97.5°	0.0	75.6	128.9	115.6	106.7
100°	0.0	66.7	115.6	102.3	93.4
102.5°	0.0	57.8	106.7	93.4	88.9
105°	0.0	53.4	97.8	88.9	80.0
107.5°	0.0	48.9	88.9	80.0	75.6
110°	0.0	40.0	80.0	75.6	71.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	35.6	71.1	71.1	71.1
115°	0.0	31.1	66.7	66.7	66.7
117.5°	0.0	26.7	57.8	66.7	66.7
120°	0.0	26.7	53.4	62.2	62.2
122.5°	0.0	22.2	48.9	62.2	62.2
125°	0.0	17.8	44.5	57.8	53.4
127.5°	0.0	13.3	40.0	48.9	48.9
130°	0.0	13.3	35.6	44.5	40.0
132.5°	0.0	8.9	31.1	35.6	35.6
135°	0.0	8.9	26.7	31.1	31.1
137.5°	0.0	8.9	22.2	26.7	22.2
140°	0.0	4.4	17.8	22.2	17.8
142.5°	0.0	4.4	17.8	22.2	17.8
145°	0.0	4.4	13.3	17.8	13.3
147.5°	0.0	4.4	8.9	13.3	13.3
150°	0.0	4.4	8.9	13.3	8.9
152.5°	0.0	4.4	8.9	8.9	4.4
155°	0.0	4.4	4.4	8.9	4.4
157.5°	0.0	4.4	4.4	4.4	4.4
160°	4.4	4.4	4.4	4.4	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)