

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: P218135

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218135  
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-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8022.0 lumens  
Efficiency: N/A  
Efficacy: 131.2 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

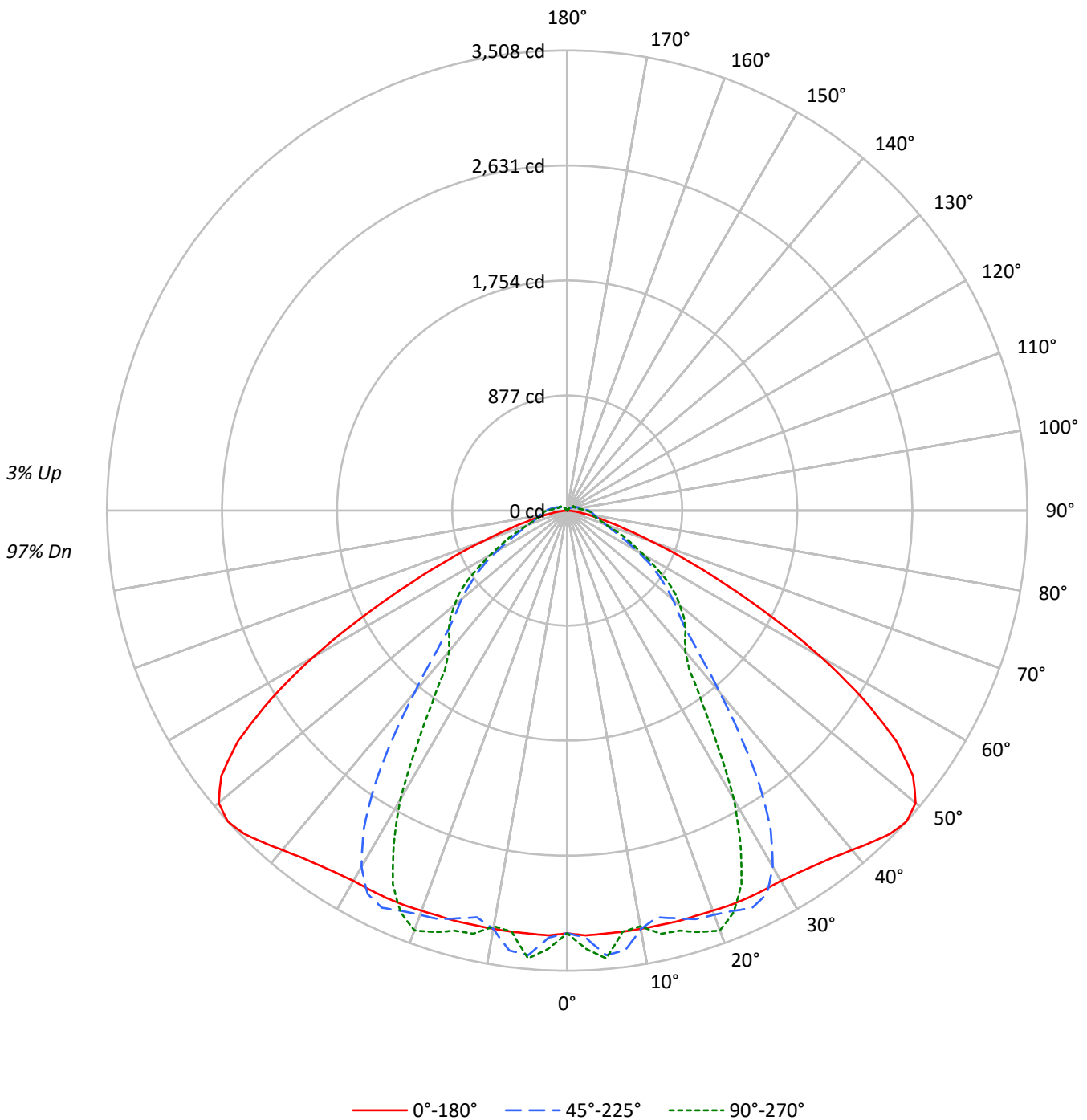
Input Watts (W): 61.16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	25953	25953	25953
5°	26137	25878	25483
10°	26391	23497	22375
15°	26890	22486	21812
20°	27620	22262	21409
25°	28685	22216	19057
30°	29951	20587	15006
35°	31982	16729	10398
40°	34908	11827	8002
45°	38884	8418	7271
50°	42407	7078	6407
55°	41755	5818	5341
60°	34843	4407	3994
65°	24260	3193	2936
70°	15268	2430	2012
75°	8771	2075	1593
80°	5107	1944	1370
85°	2448	1887	1374



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.6	3.9
10°-20°	932.6	11.6
20°-30°	1481.9	18.5
30°-40°	1597.8	19.9
40°-50°	1377.1	17.2
50°-60°	1042.6	13.0
60°-70°	563.2	7.0
70°-80°	267.5	3.3
80°-90°	168.0	2.1
90°-100°	106.9	1.3
100°-110°	68.4	0.9
110°-120°	45.8	0.6
120°-130°	30.2	0.4
130°-140°	14.8	0.2
140°-150°	6.3	0.1
150°-160°	2.3	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	2731.0	34.0
0°-40°	4328.8	54.0
0°-60°	6748.5	84.1
0°-90°	7747.2	96.6
90°-120°	221.1	2.8
90°-150°	272.3	3.4
90°-180°	275.0	3.4
0°-180°	8022.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3221	3221	3221	3221	3221	
5°	3238	3308	3402	3447	3426	309
15°	3242	3328	3217	3328	3316	919
25°	3258	3197	3340	3250	3143	1507
35°	3299	3176	2561	1957	1797	2078
45°	3484	2183	1272	1260	1276	2682
55°	3061	944	841	919	923	2663
65°	1330	402	427	480	484	1365
75°	304	209	246	246	242	358
85°	33	127	189	189	185	47
90°	0	98	164	160	148	2
95°	0	78	131	119	111	0
105°	0	49	90	82	74	0
115°	0	29	62	62	62	0
125°	0	16	41	53	49	0
135°	0	8	25	29	29	0
145°	0	4	12	16	12	0
155°	0	4	4	8	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°	3221.3	3221.3	3221.3	3221.3	3221.3
2.5°	3241.8	3245.9	3258.2	3319.8	3344.4
5°	3237.7	3307.5	3401.8	3447.0	3426.5
7.5°	3237.7	3381.3	3381.3	3295.1	3237.7
10°	3237.7	3422.4	3237.7	3221.3	3217.2
12.5°	3237.7	3397.7	3176.1	3291.0	3303.4
15°	3241.8	3328.0	3217.2	3328.0	3315.7
17.5°	3241.8	3245.9	3266.4	3352.6	3369.0
20°	3245.9	3192.6	3278.7	3418.2	3405.9
22.5°	3254.1	3184.3	3303.4	3389.5	3315.7
25°	3258.2	3196.7	3340.3	3250.0	3143.3
27.5°	3258.2	3213.1	3295.1	3036.6	2860.2
30°	3258.2	3221.3	3135.1	2741.2	2544.2
32.5°	3274.6	3213.1	2888.9	2355.4	2142.0
35°	3299.2	3176.1	2560.6	1957.4	1797.4
37.5°	3332.1	3077.7	2174.9	1637.3	1530.6
40°	3377.2	2864.3	1805.6	1432.1	1399.3
42.5°	3430.6	2552.4	1501.9	1329.5	1329.5
45°	3483.9	2183.1	1272.1	1259.8	1276.2
47.5°	3508.5	1822.0	1144.9	1190.0	1206.4
50°	3467.5	1485.5	1050.5	1112.1	1120.3
52.5°	3323.9	1185.9	943.8	1017.7	1038.2
55°	3061.2	943.8	841.2	919.2	923.3
57.5°	2679.6	750.9	734.5	796.1	792.0
60°	2240.5	607.3	615.5	677.1	677.1
62.5°	1768.6	492.4	517.0	570.4	566.3
65°	1329.5	402.1	426.8	480.1	484.2
67.5°	980.7	332.4	361.1	398.0	389.8
70°	685.3	279.0	307.8	328.3	320.1
72.5°	455.5	238.0	270.8	279.0	274.9
75°	303.7	209.3	246.2	246.2	242.1
77.5°	197.0	184.7	229.8	225.7	217.5
80°	123.1	164.1	213.4	205.2	197.0
82.5°	73.9	143.6	201.1	192.9	184.7
85°	32.8	127.2	188.8	188.8	184.7
87.5°	12.3	114.9	176.5	180.6	172.3
90°	0.0	98.5	164.1	160.0	147.7
92.5°	0.0	90.3	147.7	135.4	127.2
95°	0.0	78.0	131.3	119.0	110.8
97.5°	0.0	69.8	119.0	106.7	98.5
100°	0.0	61.6	106.7	94.4	86.2
102.5°	0.0	53.3	98.5	86.2	82.1
105°	0.0	49.2	90.3	82.1	73.9
107.5°	0.0	45.1	82.1	73.9	69.8
110°	0.0	36.9	73.9	69.8	65.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	32.8	65.7	65.7	65.7
115°	0.0	28.7	61.6	61.6	61.6
117.5°	0.0	24.6	53.3	61.6	61.6
120°	0.0	24.6	49.2	57.4	57.4
122.5°	0.0	20.5	45.1	57.4	57.4
125°	0.0	16.4	41.0	53.3	49.2
127.5°	0.0	12.3	36.9	45.1	45.1
130°	0.0	12.3	32.8	41.0	36.9
132.5°	0.0	8.2	28.7	32.8	32.8
135°	0.0	8.2	24.6	28.7	28.7
137.5°	0.0	8.2	20.5	24.6	20.5
140°	0.0	4.1	16.4	20.5	16.4
142.5°	0.0	4.1	16.4	20.5	16.4
145°	0.0	4.1	12.3	16.4	12.3
147.5°	0.0	4.1	8.2	12.3	12.3
150°	0.0	4.1	8.2	12.3	8.2
152.5°	0.0	4.1	8.2	8.2	4.1
155°	0.0	4.1	4.1	8.2	4.1
157.5°	0.0	4.1	4.1	4.1	4.1
160°	4.1	4.1	4.1	4.1	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)