

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: P218123

Luminaire Tested: **8TSNLED-LD5-60SL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218123  
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-LD5-60SL-LC-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6023.0 lumens  
Efficiency: N/A  
Efficacy: 136.6 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

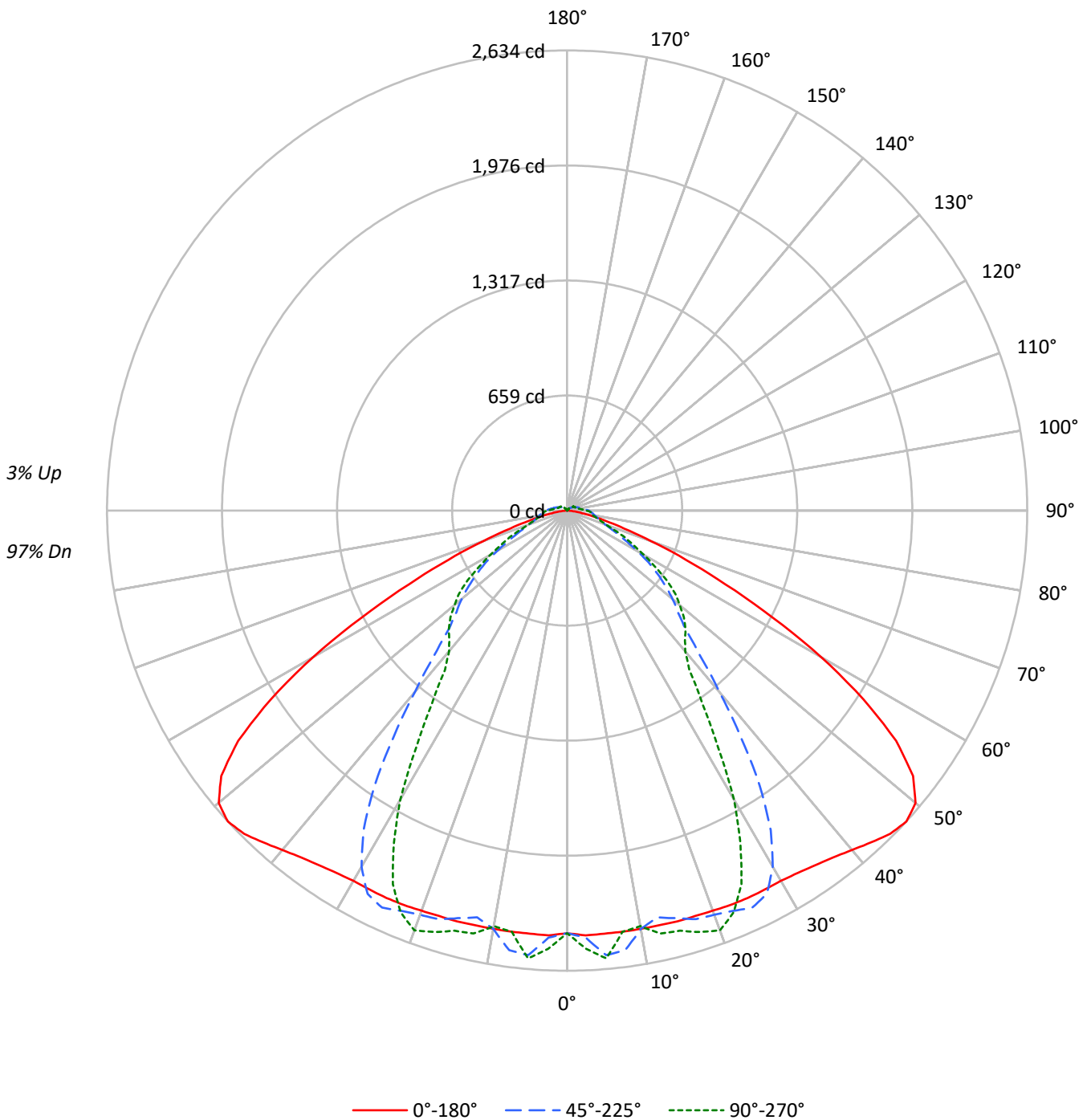
Input Watts (W): 44.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P218123

CATALOG NUMBER: 8TSNLED-LD5-60SL-LC-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P218123

CATALOG NUMBER: 8TSNLED-LD5-60SL-LC-UNV-L830-CD1-U

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

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

	0°	45°	90°
0°	19486	19486	19486
5°	19624	19429	19132
10°	19815	17642	16799
15°	20189	16882	16376
20°	20738	16715	16075
25°	21537	16680	14308
30°	22487	15457	11266
35°	24013	12560	7807
40°	26209	8879	6008
45°	29195	6320	5459
50°	31839	5314	4810
55°	31350	4368	4010
60°	26161	3309	2999
65°	18214	2397	2204
70°	11462	1825	1511
75°	6584	1558	1196
80°	3833	1459	1029
85°	1836	1416	1031



TEST NUMBER: P218123

CATALOG NUMBER: 8TSNLED-LD5-60SL-LC-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.7	3.9
10°-20°	700.2	11.6
20°-30°	1112.6	18.5
30°-40°	1199.6	19.9
40°-50°	1034.0	17.2
50°-60°	782.8	13.0
60°-70°	422.9	7.0
70°-80°	200.8	3.3
80°-90°	126.1	2.1
90°-100°	80.2	1.3
100°-110°	51.4	0.9
110°-120°	34.4	0.6
120°-130°	22.7	0.4
130°-140°	11.1	0.2
140°-150°	4.7	0.1
150°-160°	1.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	2050.5	34.0
0°-40°	3250.1	54.0
0°-60°	5066.9	84.1
0°-90°	5816.7	96.6
90°-120°	166.0	2.8
90°-150°	204.5	3.4
90°-180°	206.0	3.4
0°-180°	6023.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2419	2419	2419	2419	2419	
5°	2431	2483	2554	2588	2573	232
15°	2434	2499	2416	2499	2489	690
25°	2446	2400	2508	2440	2360	1132
35°	2477	2385	1922	1470	1350	1560
45°	2616	1639	955	946	958	2014
55°	2298	709	632	690	693	1999
65°	998	302	320	360	364	1025
75°	228	157	185	185	182	269
85°	25	96	142	142	139	36
90°	0	74	123	120	111	1
95°	0	58	99	89	83	0
105°	0	37	68	62	56	0
115°	0	22	46	46	46	0
125°	0	12	31	40	37	0
135°	0	6	18	22	22	0
145°	0	3	9	12	9	0
155°	0	3	3	6	3	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P218123

CATALOG NUMBER: 8TSNLED-LD5-60SL-LC-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2418.6	2418.6	2418.6	2418.6	2418.6
2.5°	2434.0	2437.1	2446.3	2492.5	2511.0
5°	2430.9	2483.3	2554.1	2588.0	2572.6
7.5°	2430.9	2538.7	2538.7	2474.0	2430.9
10°	2430.9	2569.5	2430.9	2418.6	2415.5
12.5°	2430.9	2551.1	2384.7	2470.9	2480.2
15°	2434.0	2498.7	2415.5	2498.7	2489.4
17.5°	2434.0	2437.1	2452.5	2517.2	2529.5
20°	2437.1	2397.0	2461.7	2566.5	2557.2
22.5°	2443.2	2390.8	2480.2	2544.9	2489.4
25°	2446.3	2400.1	2507.9	2440.1	2360.0
27.5°	2446.3	2412.4	2474.0	2279.9	2147.4
30°	2446.3	2418.6	2353.9	2058.1	1910.2
32.5°	2458.6	2412.4	2169.0	1768.5	1608.3
35°	2477.1	2384.7	1922.5	1469.6	1349.5
37.5°	2501.8	2310.7	1632.9	1229.3	1149.2
40°	2535.6	2150.5	1355.6	1075.3	1050.6
42.5°	2575.7	1916.4	1127.6	998.2	998.2
45°	2615.8	1639.1	955.1	945.9	958.2
47.5°	2634.2	1368.0	859.6	893.5	905.8
50°	2603.4	1115.3	788.7	834.9	841.1
52.5°	2495.6	890.4	708.6	764.1	779.5
55°	2298.4	708.6	631.6	690.1	693.2
57.5°	2011.9	563.8	551.5	597.7	594.6
60°	1682.2	456.0	462.1	508.4	508.4
62.5°	1327.9	369.7	388.2	428.3	425.2
65°	998.2	301.9	320.4	360.5	363.6
67.5°	736.4	249.6	271.1	298.9	292.7
70°	514.5	209.5	231.1	246.5	240.3
72.5°	342.0	178.7	203.3	209.5	206.4
75°	228.0	157.1	184.9	184.9	181.8
77.5°	147.9	138.6	172.5	169.5	163.3
80°	92.4	123.2	160.2	154.0	147.9
82.5°	55.5	107.8	151.0	144.8	138.6
85°	24.6	95.5	141.7	141.7	138.6
87.5°	9.2	86.3	132.5	135.6	129.4
90°	0.0	73.9	123.2	120.2	110.9
92.5°	0.0	67.8	110.9	101.7	95.5
95°	0.0	58.5	98.6	89.3	83.2
97.5°	0.0	52.4	89.3	80.1	73.9
100°	0.0	46.2	80.1	70.9	64.7
102.5°	0.0	40.1	73.9	64.7	61.6
105°	0.0	37.0	67.8	61.6	55.5
107.5°	0.0	33.9	61.6	55.5	52.4
110°	0.0	27.7	55.5	52.4	49.3



TEST NUMBER: P218123

CATALOG NUMBER: 8TSNLED-LD5-60SL-LC-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	24.6	49.3	49.3	49.3
115°	0.0	21.6	46.2	46.2	46.2
117.5°	0.0	18.5	40.1	46.2	46.2
120°	0.0	18.5	37.0	43.1	43.1
122.5°	0.0	15.4	33.9	43.1	43.1
125°	0.0	12.3	30.8	40.1	37.0
127.5°	0.0	9.2	27.7	33.9	33.9
130°	0.0	9.2	24.6	30.8	27.7
132.5°	0.0	6.2	21.6	24.6	24.6
135°	0.0	6.2	18.5	21.6	21.6
137.5°	0.0	6.2	15.4	18.5	15.4
140°	0.0	3.1	12.3	15.4	12.3
142.5°	0.0	3.1	12.3	15.4	12.3
145°	0.0	3.1	9.2	12.3	9.2
147.5°	0.0	3.1	6.2	9.2	9.2
150°	0.0	3.1	6.2	9.2	6.2
152.5°	0.0	3.1	6.2	6.2	3.1
155°	0.0	3.1	3.1	6.2	3.1
157.5°	0.0	3.1	3.1	3.1	3.1
160°	3.1	3.1	3.1	3.1	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)