

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: P218254

Luminaire Tested: **8TSNLED-LD5-75SL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218254
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-LD5-75SL-LN-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8385.0 lumens
Efficiency: N/A
Efficacy: 151.4 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

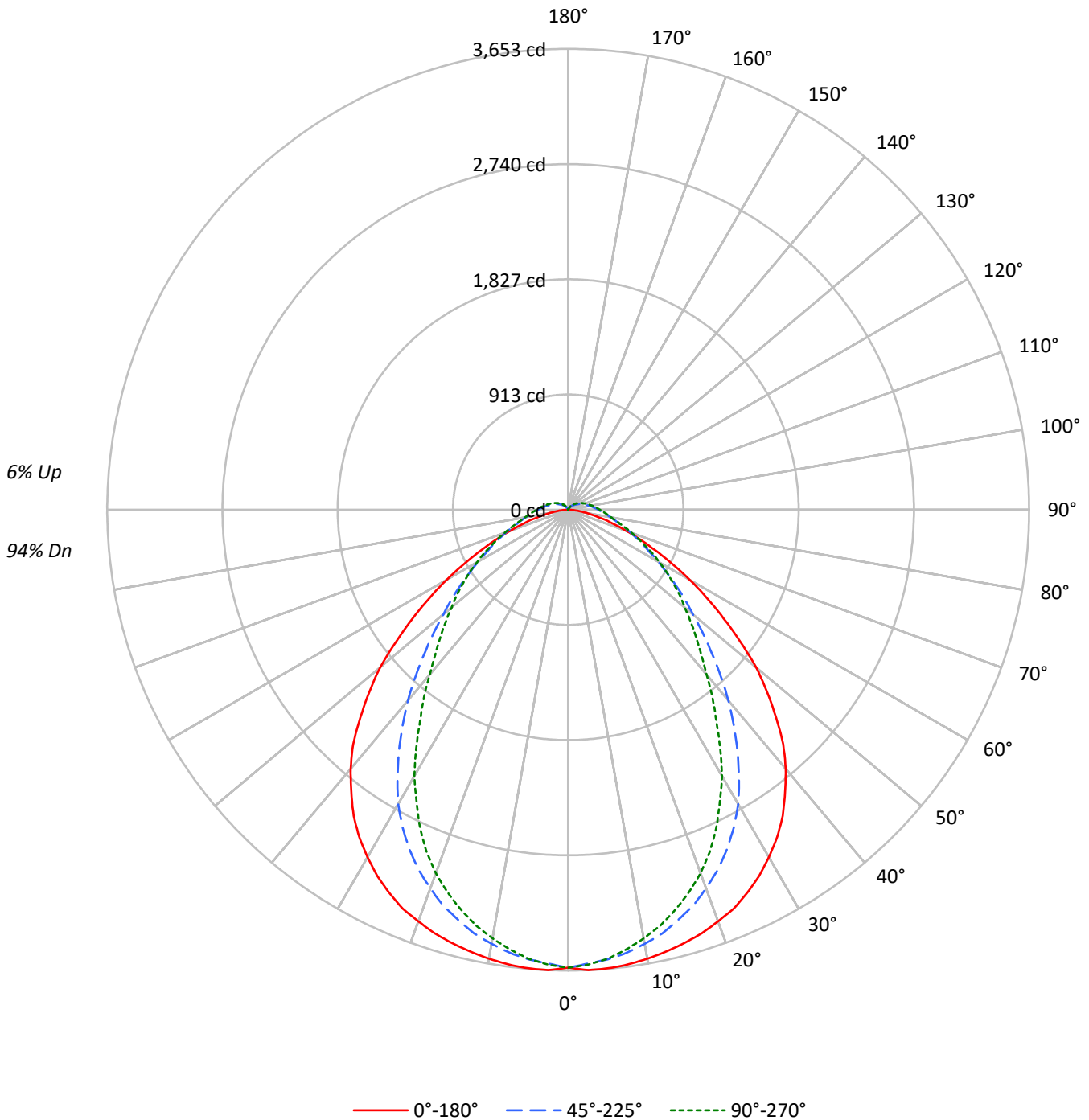
Input Watts (W): 55.38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218254

CATALOG NUMBER: 8TSNLED-LD5-75SL-LN-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218254

CATALOG NUMBER: 8TSNLED-LD5-75SL-LN-UNV-L850-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	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°	29257	29257	29257
5°	29458	27221	26579
10°	29456	25360	23995
15°	29497	23528	21592
20°	29547	21687	19272
25°	29520	19774	16846
30°	29238	17695	14383
35°	28736	15268	11832
40°	27717	12934	9752
45°	25984	10641	8179
50°	23773	8692	6897
55°	20547	7181	5878
60°	17313	5884	4924
65°	13864	4892	4071
70°	10926	4116	3360
75°	8421	3500	2790
80°	6049	3099	2397
85°	3956	2825	2169



TEST NUMBER: P218254

CATALOG NUMBER: 8TSNLED-LD5-75SL-LN-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	4.1
10°-20°	958.1	11.4
20°-30°	1387.5	16.5
30°-40°	1510.1	18.0
40°-50°	1341.1	16.0
50°-60°	1020.8	12.2
60°-70°	677.8	8.1
70°-80°	413.0	4.9
80°-90°	255.9	3.1
90°-100°	174.8	2.1
100°-110°	122.7	1.5
110°-120°	83.6	1.0
120°-130°	53.0	0.6
130°-140°	30.1	0.4
140°-150°	14.1	0.2
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2687.0	32.0
0°-40°	4197.1	50.1
0°-60°	6559.0	78.2
0°-90°	7905.7	94.3
90°-120°	381.0	4.5
90°-150°	478.3	5.7
90°-180°	479.0	5.7
0°-180°	8385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3631	3631	3631	3631	3631	
5°	3649	3627	3578	3596	3574	347
15°	3556	3494	3366	3326	3282	1005
25°	3353	3203	2973	2854	2779	1544
35°	2964	2699	2337	2134	2045	1847
45°	2328	1979	1608	1471	1436	1793
55°	1506	1224	1038	1020	1016	1351
65°	760	654	654	680	672	766
75°	292	331	415	437	424	315
85°	53	168	283	300	292	63
90°	0	124	239	261	252	4
95°	0	97	203	225	221	0
105°	0	62	146	168	168	0
115°	0	40	106	128	124	0
125°	0	26	71	88	88	0
135°	0	18	49	62	62	0
145°	0	9	26	35	35	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



TEST NUMBER: P218254

CATALOG NUMBER: 8TSNLED-LD5-75SL-LN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3631.3	3631.3	3631.3	3631.3	3631.3
2.5°	3653.4	3635.8	3600.4	3622.5	3609.3
5°	3649.0	3626.9	3578.3	3596.0	3573.9
7.5°	3635.8	3609.3	3543.0	3551.8	3516.5
10°	3613.7	3578.3	3494.4	3485.6	3450.2
12.5°	3587.2	3543.0	3441.4	3410.5	3375.1
15°	3556.2	3494.4	3366.3	3326.5	3282.3
17.5°	3520.9	3437.0	3291.2	3229.3	3180.7
20°	3472.3	3370.7	3194.0	3118.9	3065.9
22.5°	3423.7	3291.2	3092.4	2990.8	2933.3
25°	3353.0	3202.8	2973.1	2853.8	2778.7
27.5°	3273.5	3101.2	2840.6	2686.0	2602.0
30°	3180.7	2981.9	2694.8	2513.7	2438.6
32.5°	3079.1	2849.4	2518.1	2323.7	2239.8
35°	2964.3	2699.2	2337.0	2133.7	2045.4
37.5°	2822.9	2535.8	2155.8	1948.2	1877.5
40°	2681.5	2363.5	1974.7	1780.3	1705.2
42.5°	2522.5	2173.5	1789.2	1612.5	1559.4
45°	2328.1	1979.1	1608.0	1471.1	1435.7
47.5°	2138.2	1780.3	1444.6	1347.4	1316.5
50°	1943.8	1586.0	1290.0	1228.1	1206.0
52.5°	1718.5	1396.0	1161.9	1122.1	1113.3
55°	1506.4	1223.7	1038.2	1020.5	1016.1
57.5°	1303.2	1060.2	923.3	936.5	927.7
60°	1113.3	910.0	821.7	839.4	834.9
62.5°	927.7	773.1	728.9	764.3	755.4
65°	759.8	653.8	653.8	680.3	671.5
67.5°	614.1	556.6	583.1	609.6	600.8
70°	490.4	468.3	521.3	543.4	534.5
72.5°	379.9	393.2	459.4	485.9	472.7
75°	291.6	331.3	415.3	437.4	424.1
77.5°	207.6	278.3	375.5	393.2	379.9
80°	145.8	234.1	340.2	357.8	344.6
82.5°	92.8	198.8	309.2	326.9	318.1
85°	53.0	167.9	282.7	300.4	291.6
87.5°	26.5	145.8	256.2	278.3	269.5
90°	0.0	123.7	238.6	260.6	251.8
92.5°	0.0	110.4	220.9	243.0	234.1
95°	0.0	97.2	203.2	225.3	220.9
97.5°	0.0	88.4	190.0	212.0	203.2
100°	0.0	75.1	172.3	194.4	190.0
102.5°	0.0	70.7	159.0	181.1	176.7
105°	0.0	61.8	145.8	167.9	167.9
107.5°	0.0	57.4	136.9	159.0	154.6
110°	0.0	48.6	123.7	145.8	145.8



TEST NUMBER: P218254

CATALOG NUMBER: 8TSNLED-LD5-75SL-LN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	44.2	114.9	136.9	132.5
115°	0.0	39.8	106.0	128.1	123.7
117.5°	0.0	39.8	97.2	114.9	114.9
120°	0.0	35.3	88.4	106.0	106.0
122.5°	0.0	30.9	79.5	97.2	97.2
125°	0.0	26.5	70.7	88.4	88.4
127.5°	0.0	26.5	66.3	83.9	83.9
130°	0.0	22.1	57.4	75.1	75.1
132.5°	0.0	17.7	53.0	66.3	66.3
135°	0.0	17.7	48.6	61.8	61.8
137.5°	0.0	13.3	39.8	53.0	53.0
140°	0.0	13.3	35.3	48.6	48.6
142.5°	0.0	8.8	30.9	44.2	39.8
145°	0.0	8.8	26.5	35.3	35.3
147.5°	0.0	4.4	22.1	30.9	30.9
150°	0.0	4.4	17.7	26.5	22.1
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)