

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: P218267

Luminaire Tested: **8TSNLED-LD5-106SL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218267
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-LD5-106SL-LN-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10146.0 lumens
Efficiency: N/A
Efficacy: 118.5 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

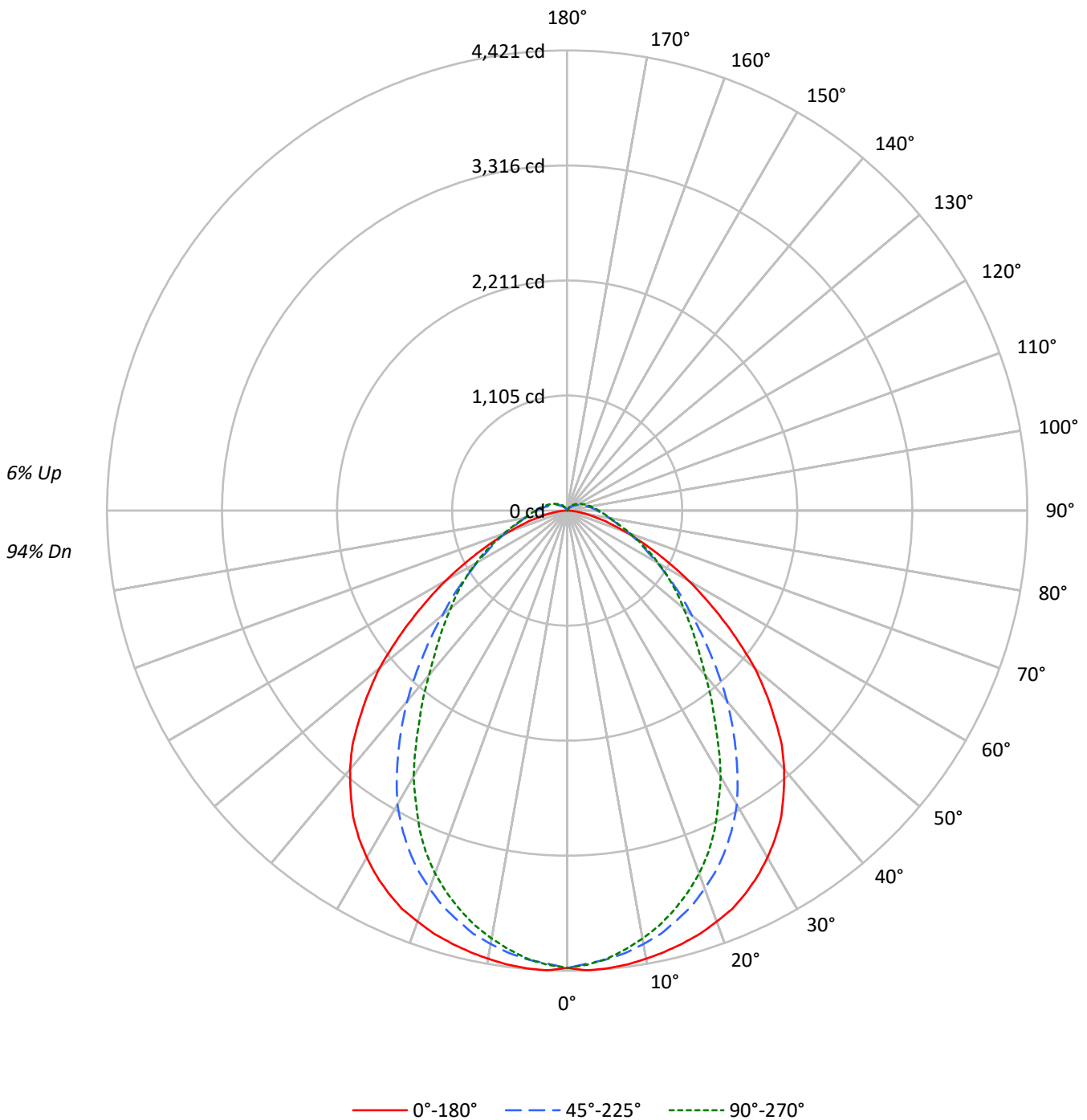
Input Watts (W): 85.64
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218267

CATALOG NUMBER: 8TSNLED-LD5-106SL-LN-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218267

CATALOG NUMBER: 8TSNLED-LD5-106SL-LN-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	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°	35402	35402	35402
5°	35645	32938	32161
10°	35642	30686	29035
15°	35693	28469	26127
20°	35752	26242	23320
25°	35720	23927	20384
30°	35379	21411	17403
35°	34770	18475	14318
40°	33538	15651	11800
45°	31442	12876	9897
50°	28765	10517	8345
55°	24863	8688	7113
60°	20949	7120	5959
65°	16776	5919	4926
70°	13218	4981	4066
75°	10189	4234	3376
80°	7318	3749	2899
85°	4784	3418	2624



TEST NUMBER: P218267

CATALOG NUMBER: 8TSNLED-LD5-106SL-LN-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.1	4.1
10°-20°	1159.4	11.4
20°-30°	1678.9	16.5
30°-40°	1827.2	18.0
40°-50°	1622.8	16.0
50°-60°	1235.2	12.2
60°-70°	820.1	8.1
70°-80°	499.7	4.9
80°-90°	309.7	3.1
90°-100°	211.5	2.1
100°-110°	148.4	1.5
110°-120°	101.1	1.0
120°-130°	64.1	0.6
130°-140°	36.4	0.4
140°-150°	17.1	0.2
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3251.3	32.0
0°-40°	5078.5	50.1
0°-60°	7936.5	78.2
0°-90°	9566.1	94.3
90°-120°	461.0	4.5
90°-150°	578.8	5.7
90°-180°	580.0	5.7
0°-180°	10146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4394	4394	4394	4394	4394	
5°	4415	4389	4330	4351	4324	420
15°	4303	4228	4073	4025	3972	1216
25°	4057	3876	3598	3453	3362	1868
35°	3587	3266	2828	2582	2475	2234
45°	2817	2395	1946	1780	1737	2169
55°	1823	1481	1256	1235	1230	1635
65°	919	791	791	823	812	927
75°	353	401	502	529	513	381
85°	64	203	342	364	353	76
90°	0	150	289	315	305	4
95°	0	118	246	273	267	0
105°	0	75	176	203	203	0
115°	0	48	128	155	150	0
125°	0	32	86	107	107	0
135°	0	21	59	75	75	0
145°	0	11	32	43	43	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: P218267

CATALOG NUMBER: 8TSNLED-LD5-106SL-LN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4394.0	4394.0	4394.0	4394.0	4394.0
2.5°	4420.7	4399.3	4356.6	4383.3	4367.3
5°	4415.4	4388.6	4329.8	4351.2	4324.5
7.5°	4399.3	4367.3	4287.1	4297.8	4255.0
10°	4372.6	4329.8	4228.3	4217.6	4174.8
12.5°	4340.5	4287.1	4164.1	4126.7	4083.9
15°	4303.1	4228.3	4073.3	4025.1	3971.7
17.5°	4260.3	4158.8	3982.4	3907.5	3848.7
20°	4201.5	4078.6	3864.8	3773.9	3709.8
22.5°	4142.7	3982.4	3741.8	3618.9	3549.4
25°	4057.2	3875.5	3597.5	3453.2	3362.3
27.5°	3961.0	3752.5	3437.1	3250.1	3148.5
30°	3848.7	3608.2	3260.7	3041.6	2950.7
32.5°	3725.8	3447.8	3046.9	2811.7	2710.2
35°	3586.8	3266.1	2827.8	2581.9	2475.0
37.5°	3415.8	3068.3	2608.6	2357.4	2271.8
40°	3244.7	2859.8	2389.4	2154.2	2063.4
42.5°	3052.3	2630.0	2164.9	1951.1	1887.0
45°	2817.1	2394.8	1945.8	1780.0	1737.3
47.5°	2587.2	2154.2	1748.0	1630.4	1593.0
50°	2352.0	1919.0	1560.9	1486.0	1459.3
52.5°	2079.4	1689.2	1405.9	1357.8	1347.1
55°	1822.8	1480.7	1256.2	1234.8	1229.5
57.5°	1576.9	1282.9	1117.2	1133.2	1122.6
60°	1347.1	1101.2	994.3	1015.6	1010.3
62.5°	1122.6	935.5	882.0	924.8	914.1
65°	919.4	791.1	791.1	823.2	812.5
67.5°	743.0	673.5	705.6	737.7	727.0
70°	593.3	566.6	630.8	657.5	646.8
72.5°	459.7	475.7	555.9	588.0	572.0
75°	352.8	400.9	502.5	529.2	513.2
77.5°	251.2	336.8	454.4	475.7	459.7
80°	176.4	283.3	411.6	433.0	416.9
82.5°	112.3	240.5	374.2	395.6	384.9
85°	64.1	203.1	342.1	363.5	352.8
87.5°	32.1	176.4	310.0	336.8	326.1
90°	0.0	149.7	288.7	315.4	304.7
92.5°	0.0	133.6	267.3	294.0	283.3
95°	0.0	117.6	245.9	272.6	267.3
97.5°	0.0	106.9	229.9	256.6	245.9
100°	0.0	90.9	208.5	235.2	229.9
102.5°	0.0	85.5	192.4	219.2	213.8
105°	0.0	74.8	176.4	203.1	203.1
107.5°	0.0	69.5	165.7	192.4	187.1
110°	0.0	58.8	149.7	176.4	176.4



TEST NUMBER: P218267

CATALOG NUMBER: 8TSNLED-LD5-106SL-LN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	53.5	139.0	165.7	160.4
115°	0.0	48.1	128.3	155.0	149.7
117.5°	0.0	48.1	117.6	139.0	139.0
120°	0.0	42.8	106.9	128.3	128.3
122.5°	0.0	37.4	96.2	117.6	117.6
125°	0.0	32.1	85.5	106.9	106.9
127.5°	0.0	32.1	80.2	101.6	101.6
130°	0.0	26.7	69.5	90.9	90.9
132.5°	0.0	21.4	64.1	80.2	80.2
135°	0.0	21.4	58.8	74.8	74.8
137.5°	0.0	16.0	48.1	64.1	64.1
140°	0.0	16.0	42.8	58.8	58.8
142.5°	0.0	10.7	37.4	53.5	48.1
145°	0.0	10.7	32.1	42.8	42.8
147.5°	0.0	5.3	26.7	37.4	37.4
150°	0.0	5.3	21.4	32.1	26.7
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)