

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: P218269

Luminaire Tested: **8TSNLED-LD5-106SL-LN-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218269  
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-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10994.0 lumens  
Efficiency: N/A  
Efficacy: 128.4 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

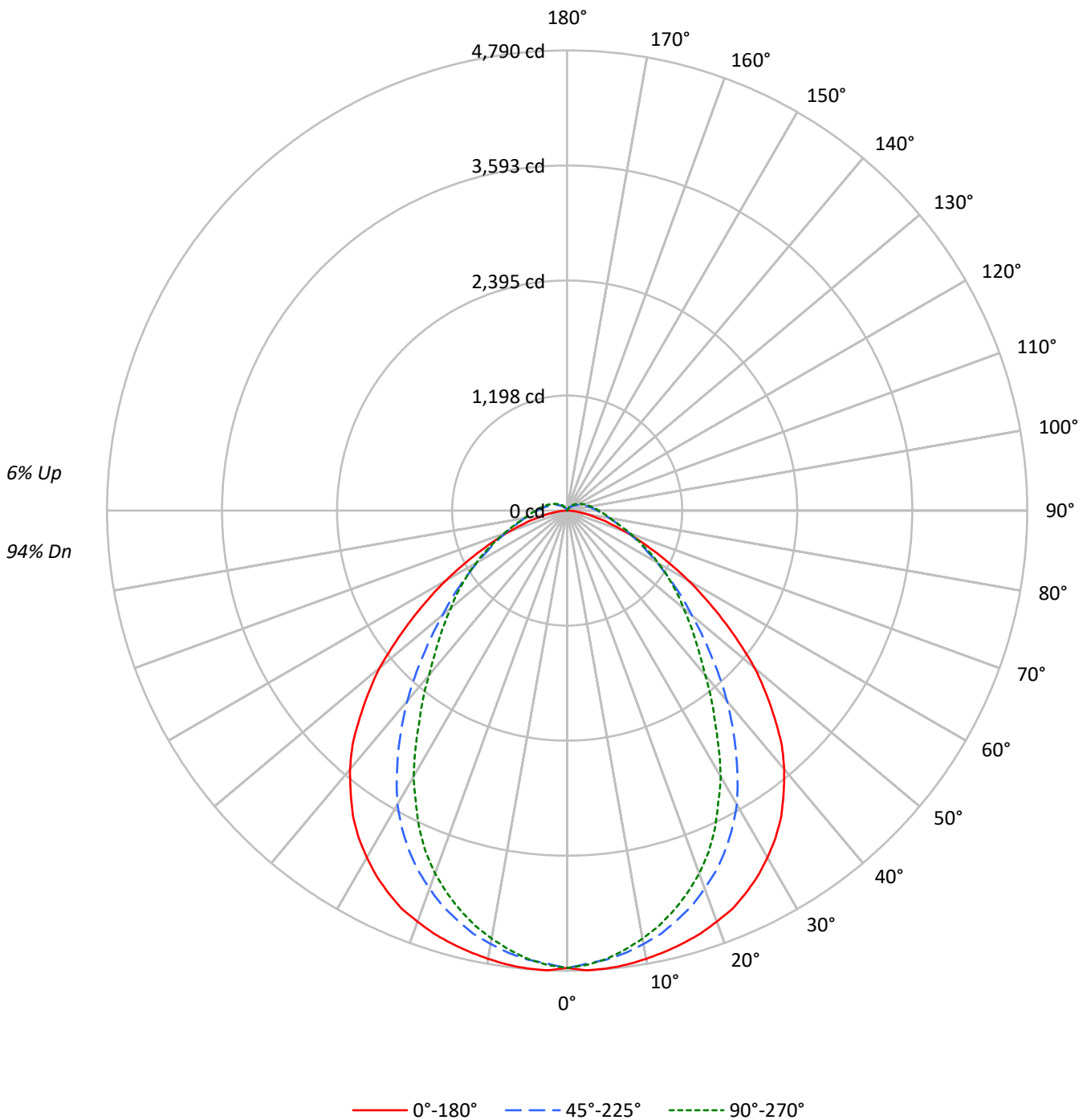
Input Watts (W): 85.64  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	38360	38360	38360
5°	38624	35691	34849
10°	38621	33251	31462
15°	38676	30848	28311
20°	38740	28435	25268
25°	38705	25927	22088
30°	38336	23201	18858
35°	37676	20019	15514
40°	36342	16959	12786
45°	34069	13952	10725
50°	31169	11396	9043
55°	26942	9415	7707
60°	22699	7715	6457
65°	18180	6414	5338
70°	14323	5397	4406
75°	11041	4588	3658
80°	7928	4062	3142
85°	5187	3704	2843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.6	4.1
10°-20°	1256.3	11.4
20°-30°	1819.2	16.5
30°-40°	1979.9	18.0
40°-50°	1758.4	16.0
50°-60°	1338.5	12.2
60°-70°	888.7	8.1
70°-80°	541.5	4.9
80°-90°	335.6	3.1
90°-100°	229.2	2.1
100°-110°	160.8	1.5
110°-120°	109.5	1.0
120°-130°	69.5	0.6
130°-140°	39.5	0.4
140°-150°	18.6	0.2
150°-160°	1.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3523.0	32.0
0°-40°	5503.0	50.1
0°-60°	8599.9	78.2
0°-90°	10365.6	94.3
90°-120°	499.6	4.5
90°-150°	627.1	5.7
90°-180°	628.0	5.7
0°-180°	10994.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4761	4761	4761	4761	4761	
5°	4784	4755	4692	4715	4686	455
15°	4663	4582	4414	4362	4304	1317
25°	4396	4199	3898	3742	3643	2024
35°	3887	3539	3064	2798	2682	2421
45°	3052	2595	2108	1929	1882	2351
55°	1975	1604	1361	1338	1332	1772
65°	996	857	857	892	880	1005
75°	382	434	544	573	556	413
85°	70	220	371	394	382	83
90°	0	162	313	342	330	5
95°	0	127	266	295	290	0
105°	0	81	191	220	220	0
115°	0	52	139	168	162	0
125°	0	35	93	116	116	0
135°	0	23	64	81	81	0
145°	0	12	35	46	46	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4761.2	4761.2	4761.2	4761.2	4761.2
2.5°	4790.2	4767.0	4720.7	4749.7	4732.3
5°	4784.4	4755.4	4691.7	4714.9	4685.9
7.5°	4767.0	4732.3	4645.4	4657.0	4610.6
10°	4738.1	4691.7	4581.7	4570.1	4523.8
12.5°	4703.3	4645.4	4512.2	4471.6	4425.3
15°	4662.8	4581.7	4413.7	4361.6	4303.6
17.5°	4616.4	4506.4	4315.2	4234.1	4170.4
20°	4552.7	4419.5	4187.8	4089.3	4019.8
22.5°	4489.0	4315.2	4054.6	3921.4	3846.1
25°	4396.3	4199.4	3898.2	3741.8	3643.3
27.5°	4292.1	4066.2	3724.4	3521.7	3411.6
30°	4170.4	3909.8	3533.3	3295.8	3197.3
32.5°	4037.2	3736.0	3301.6	3046.7	2936.7
35°	3886.6	3539.1	3064.1	2797.7	2681.8
37.5°	3701.3	3324.8	2826.6	2554.4	2461.7
40°	3515.9	3098.9	2589.1	2334.3	2235.8
42.5°	3307.4	2849.8	2345.9	2114.2	2044.7
45°	3052.5	2594.9	2108.4	1928.8	1882.5
47.5°	2803.5	2334.3	1894.1	1766.6	1726.1
50°	2548.6	2079.4	1691.3	1610.2	1581.3
52.5°	2253.2	1830.4	1523.4	1471.2	1459.6
55°	1975.2	1604.5	1361.2	1338.0	1332.2
57.5°	1708.7	1390.1	1210.6	1228.0	1216.4
60°	1459.6	1193.2	1077.4	1100.5	1094.7
62.5°	1216.4	1013.6	955.7	1002.1	990.5
65°	996.3	857.3	857.3	892.0	880.4
67.5°	805.1	729.8	764.6	799.3	787.7
70°	642.9	614.0	683.5	712.4	700.9
72.5°	498.1	515.5	602.4	637.1	619.8
75°	382.3	434.4	544.5	573.4	556.1
77.5°	272.2	364.9	492.3	515.5	498.1
80°	191.1	307.0	446.0	469.2	451.8
82.5°	121.6	260.7	405.5	428.6	417.0
85°	69.5	220.1	370.7	393.9	382.3
87.5°	34.8	191.1	336.0	364.9	353.3
90°	0.0	162.2	312.8	341.7	330.2
92.5°	0.0	144.8	289.6	318.6	307.0
95°	0.0	127.4	266.4	295.4	289.6
97.5°	0.0	115.8	249.1	278.0	266.4
100°	0.0	98.5	225.9	254.9	249.1
102.5°	0.0	92.7	208.5	237.5	231.7
105°	0.0	81.1	191.1	220.1	220.1
107.5°	0.0	75.3	179.6	208.5	202.7
110°	0.0	63.7	162.2	191.1	191.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	57.9	150.6	179.6	173.8
115°	0.0	52.1	139.0	168.0	162.2
117.5°	0.0	52.1	127.4	150.6	150.6
120°	0.0	46.3	115.8	139.0	139.0
122.5°	0.0	40.5	104.3	127.4	127.4
125°	0.0	34.8	92.7	115.8	115.8
127.5°	0.0	34.8	86.9	110.1	110.1
130°	0.0	29.0	75.3	98.5	98.5
132.5°	0.0	23.2	69.5	86.9	86.9
135°	0.0	23.2	63.7	81.1	81.1
137.5°	0.0	17.4	52.1	69.5	69.5
140°	0.0	17.4	46.3	63.7	63.7
142.5°	0.0	11.6	40.5	57.9	52.1
145°	0.0	11.6	34.8	46.3	46.3
147.5°	0.0	5.8	29.0	40.5	40.5
150°	0.0	5.8	23.2	34.8	29.0
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)