

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: P218141

Luminaire Tested: **8TSNLED-LD5-90SL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218141  
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-LD5-90SL-LC-UNV-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9604.0 lumens  
Efficiency: N/A  
Efficacy: 138.8 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

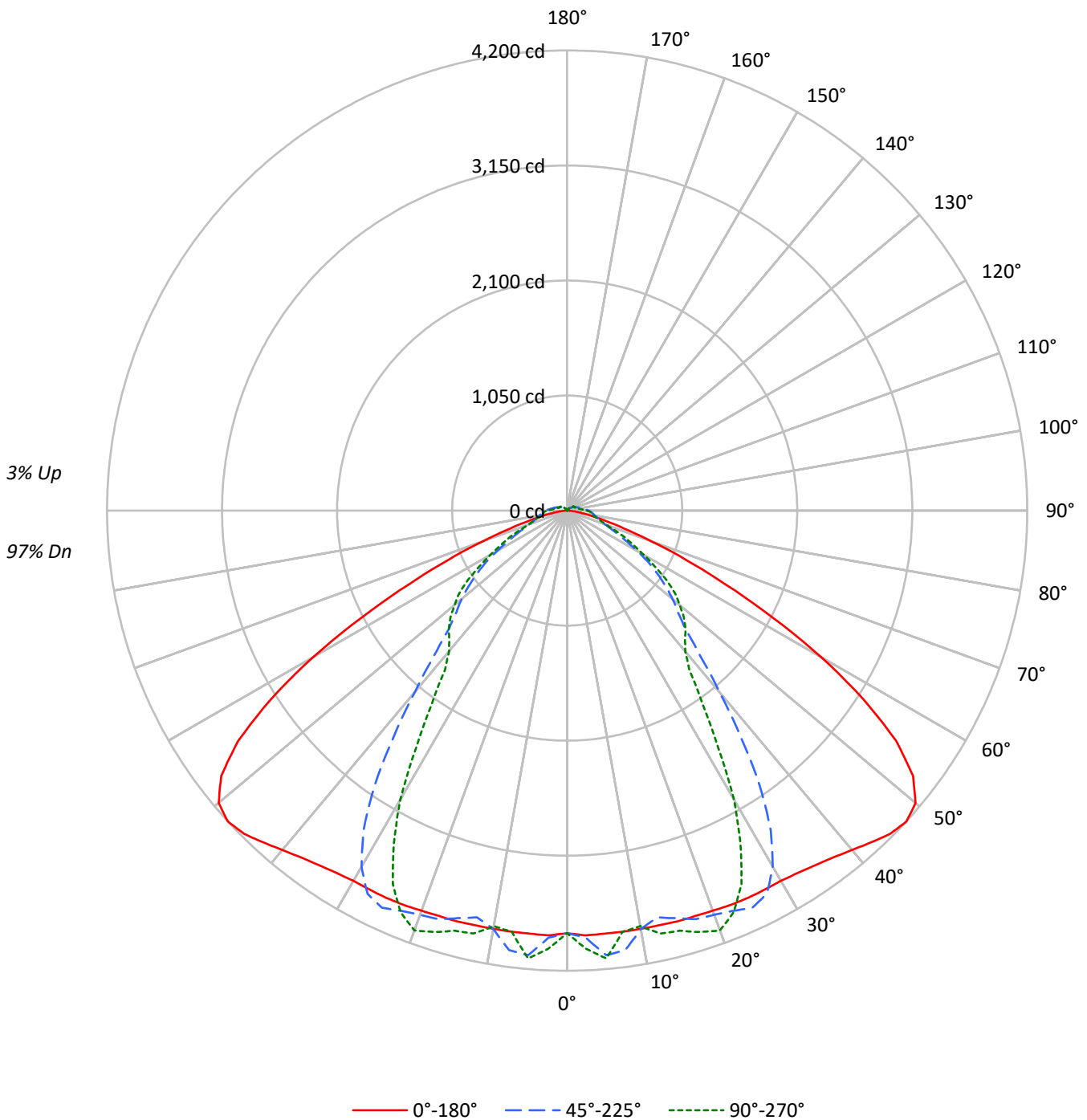
Input Watts (W): 69.18  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	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	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	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	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	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	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	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	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	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	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	40	34	30	28		

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

	0°	45°	90°
0°	31071	31071	31071
5°	31292	30982	30508
10°	31595	28131	26787
15°	32192	26919	26113
20°	33067	26652	25632
25°	34343	26597	22815
30°	35858	24647	17965
35°	38290	20028	12448
40°	41792	14158	9581
45°	46553	10078	8704
50°	50770	8474	7670
55°	49989	6965	6395
60°	41715	5277	4781
65°	29044	3822	3515
70°	18278	2910	2409
75°	10498	2484	1907
80°	6115	2327	1640
85°	2933	2258	1644



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.1	3.9
10°-20°	1116.5	11.6
20°-30°	1774.1	18.5
30°-40°	1912.9	19.9
40°-50°	1648.7	17.2
50°-60°	1248.2	13.0
60°-70°	674.3	7.0
70°-80°	320.3	3.3
80°-90°	201.1	2.1
90°-100°	128.0	1.3
100°-110°	81.9	0.9
110°-120°	54.8	0.6
120°-130°	36.2	0.4
130°-140°	17.7	0.2
140°-150°	7.5	0.1
150°-160°	2.7	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	3269.6	34.0
0°-40°	5182.5	54.0
0°-60°	8079.4	84.1
0°-90°	9275.0	96.6
90°-120°	264.7	2.8
90°-150°	326.1	3.4
90°-180°	329.0	3.4
0°-180°	9604.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3856	3856	3856	3856	3856	
5°	3876	3960	4073	4127	4102	370
15°	3881	3984	3852	3984	3970	1100
25°	3901	3827	3999	3891	3763	1804
35°	3950	3802	3066	2343	2152	2488
45°	4171	2614	1523	1508	1528	3211
55°	3665	1130	1007	1100	1105	3188
65°	1592	482	511	575	580	1635
75°	364	251	295	295	290	428
85°	39	152	226	226	221	57
90°	0	118	196	192	177	2
95°	0	93	157	142	133	0
105°	0	59	108	98	88	0
115°	0	34	74	74	74	0
125°	0	20	49	64	59	0
135°	0	10	30	34	34	0
145°	0	5	15	20	15	0
155°	0	5	5	10	5	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°	3856.5	3856.5	3856.5	3856.5	3856.5
2.5°	3881.1	3886.0	3900.8	3974.4	4003.9
5°	3876.2	3959.7	4072.7	4126.7	4102.2
7.5°	3876.2	4048.1	4048.1	3945.0	3876.2
10°	3876.2	4097.3	3876.2	3856.5	3851.6
12.5°	3876.2	4067.8	3802.5	3940.1	3954.8
15°	3881.1	3984.3	3851.6	3984.3	3969.5
17.5°	3881.1	3886.0	3910.6	4013.7	4033.4
20°	3886.0	3822.2	3925.3	4092.4	4077.6
22.5°	3895.8	3812.3	3954.8	4058.0	3969.5
25°	3900.8	3827.1	3999.0	3890.9	3763.2
27.5°	3900.8	3846.7	3945.0	3635.5	3424.2
30°	3900.8	3856.5	3753.4	3281.7	3045.9
32.5°	3920.4	3846.7	3458.6	2819.9	2564.5
35°	3949.9	3802.5	3065.6	2343.4	2151.8
37.5°	3989.2	3684.6	2603.8	1960.2	1832.5
40°	4043.2	3429.1	2161.6	1714.6	1675.3
42.5°	4107.1	3055.8	1798.1	1591.7	1591.7
45°	4171.0	2613.6	1523.0	1508.2	1527.9
47.5°	4200.4	2181.3	1370.7	1424.7	1444.4
50°	4151.3	1778.4	1257.7	1331.4	1341.2
52.5°	3979.4	1419.8	1129.9	1218.4	1242.9
55°	3664.9	1129.9	1007.1	1100.5	1105.4
57.5°	3208.1	899.0	879.4	953.1	948.2
60°	2682.4	727.1	736.9	810.6	810.6
62.5°	2117.4	589.5	619.0	682.9	678.0
65°	1591.7	481.5	510.9	574.8	579.7
67.5°	1174.2	397.9	432.3	476.5	466.7
70°	820.4	334.1	368.5	393.0	383.2
72.5°	545.3	284.9	324.2	334.1	329.2
75°	363.5	250.6	294.8	294.8	289.9
77.5°	235.8	221.1	275.1	270.2	260.4
80°	147.4	196.5	255.5	245.6	235.8
82.5°	88.4	171.9	240.7	230.9	221.1
85°	39.3	152.3	226.0	226.0	221.1
87.5°	14.7	137.6	211.2	216.2	206.3
90°	0.0	117.9	196.5	191.6	176.9
92.5°	0.0	108.1	176.9	162.1	152.3
95°	0.0	93.3	157.2	142.5	132.6
97.5°	0.0	83.5	142.5	127.7	117.9
100°	0.0	73.7	127.7	113.0	103.2
102.5°	0.0	63.9	117.9	103.2	98.3
105°	0.0	59.0	108.1	98.3	88.4
107.5°	0.0	54.0	98.3	88.4	83.5
110°	0.0	44.2	88.4	83.5	78.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	39.3	78.6	78.6	78.6
115°	0.0	34.4	73.7	73.7	73.7
117.5°	0.0	29.5	63.9	73.7	73.7
120°	0.0	29.5	59.0	68.8	68.8
122.5°	0.0	24.6	54.0	68.8	68.8
125°	0.0	19.7	49.1	63.9	59.0
127.5°	0.0	14.7	44.2	54.0	54.0
130°	0.0	14.7	39.3	49.1	44.2
132.5°	0.0	9.8	34.4	39.3	39.3
135°	0.0	9.8	29.5	34.4	34.4
137.5°	0.0	9.8	24.6	29.5	24.6
140°	0.0	4.9	19.7	24.6	19.7
142.5°	0.0	4.9	19.7	24.6	19.7
145°	0.0	4.9	14.7	19.7	14.7
147.5°	0.0	4.9	9.8	14.7	14.7
150°	0.0	4.9	9.8	14.7	9.8
152.5°	0.0	4.9	9.8	9.8	4.9
155°	0.0	4.9	4.9	9.8	4.9
157.5°	0.0	4.9	4.9	4.9	4.9
160°	4.9	4.9	4.9	4.9	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)