

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: P218626

Luminaire Tested: **8TSNLED-LD5-160HL-RW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35747)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8TSNLED-LD5-160HL-RW-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14778.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 0.85 / 0.95  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')  
CIE Type: Direct

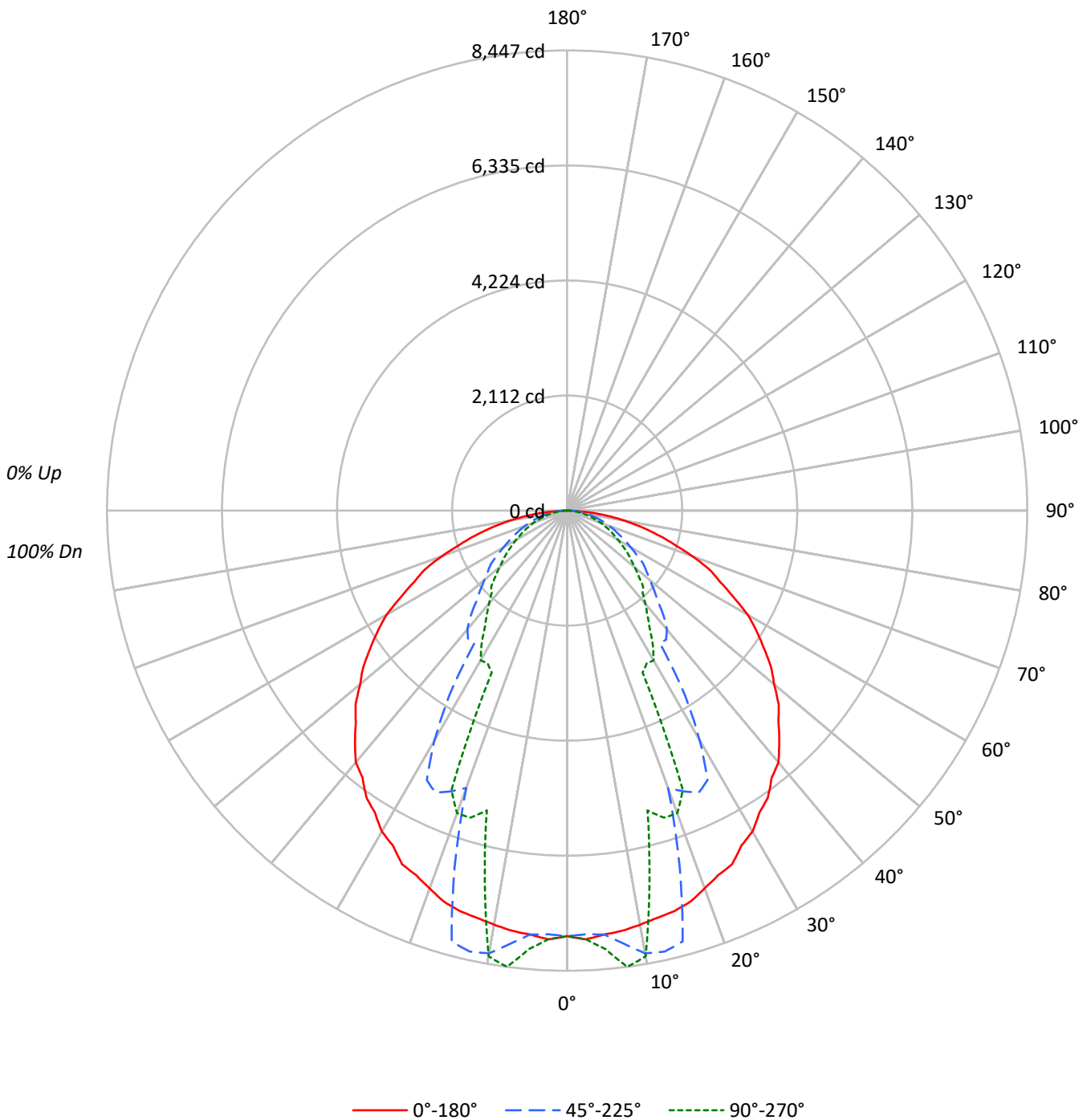
Input Watts (W): 123.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88					85				
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75					73				
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65					63				
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37					36				
9	61	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34					33				
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32					30				

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

	0°	45°	90°
0°	62944	62944	62944
5°	63069	59414	60093
10°	62910	59899	57793
15°	63122	57245	37480
20°	62802	36790	37158
25°	63076	37998	19876
30°	62529	31960	18726
35°	62275	19435	15282
40°	62356	18659	12791
45°	61229	15605	11243
50°	60652	13357	9278
55°	60188	11797	7823
60°	59559	9651	6410
65°	56579	7980	5252
70°	54391	6468	4116
75°	49776	5025	2931
80°	44436	3607	1894
85°	33421	2293	820



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	762.5	5.2
10°-20°	2042.4	13.8
20°-30°	2642.3	17.9
30°-40°	2509.1	17.0
40°-50°	2415.3	16.3
50°-60°	1918.9	13.0
60°-70°	1396.4	9.4
70°-80°	812.4	5.5
80°-90°	278.6	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5447.2	36.9
0°-40°	7956.4	53.8
0°-60°	12290.6	83.2
0°-90°	14778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14778.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7812	7812	7812	7812	7812	
5°	7812	7794	7810	7995	8080	743
15°	7610	7968	8191	6395	5697	2146
25°	7164	7599	5713	4613	3278	3282
35°	6424	4946	2975	2763	2642	4009
45°	5486	4665	2358	1998	1973	4251
55°	4413	2655	1706	1388	1352	3949
65°	3101	1643	1067	898	866	3097
75°	1724	866	596	488	446	1829
85°	448	362	230	151	110	522
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7812.5	7812.5	7812.5	7812.5	7812.5
2.5°	7877.8	7817.0	7783.3	7787.8	7875.6
5°	7812.5	7794.5	7810.3	7994.8	8080.3
7.5°	7778.8	7740.5	8019.6	8336.8	8447.1
10°	7718.0	7823.8	8253.6	8384.1	8309.8
12.5°	7655.0	7886.8	8289.6	7441.3	6975.5
15°	7610.0	7967.8	8190.6	6394.9	5697.4
17.5°	7526.8	8019.6	6881.0	5679.4	5911.2
20°	7380.5	7994.8	5418.4	5922.4	5911.2
22.5°	7245.5	7855.3	5578.1	5807.7	5548.9
25°	7164.5	7598.8	5713.2	4612.8	3278.5
27.5°	6930.5	6971.0	5580.4	3202.0	3163.7
30°	6802.2	6358.9	4867.1	3143.5	3175.0
32.5°	6572.7	5654.6	4032.3	3028.7	2927.5
35°	6424.2	4945.8	2974.7	2763.2	2641.7
37.5°	6172.2	4981.8	2983.7	2533.7	2418.9
40°	6032.7	5013.4	2848.7	2313.2	2236.7
42.5°	5764.9	4894.1	2623.7	2133.1	2049.9
45°	5485.9	4664.6	2358.2	1998.1	1973.4
47.5°	5265.4	4018.8	2162.4	1869.9	1779.9
50°	4959.3	3195.2	1982.4	1698.9	1622.4
52.5°	4718.6	2720.4	1836.1	1550.4	1478.4
55°	4412.6	2655.2	1705.6	1388.3	1352.3
57.5°	4124.5	2430.2	1512.1	1260.1	1203.8
60°	3829.8	2151.2	1347.8	1136.3	1086.8
62.5°	3445.0	1860.9	1203.8	1010.3	963.1
65°	3100.7	1642.6	1066.6	897.8	866.3
67.5°	2832.9	1473.9	942.8	787.6	744.8
70°	2441.4	1284.8	819.1	681.8	654.8
72.5°	2054.4	1048.6	704.3	587.3	537.8
75°	1723.6	866.3	596.3	488.3	445.5
77.5°	1399.6	724.6	495.0	400.5	355.5
80°	1071.1	589.5	396.0	312.8	272.3
82.5°	758.3	470.3	310.5	227.3	191.3
85°	447.8	362.3	229.5	150.8	110.3
87.5°	177.8	272.3	150.8	74.3	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)