

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: P218157

Luminaire Tested: **8TSNLED-LD5-170HL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218157
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-LD5-170HL-LC-UNV-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15704.9 lumens
Efficiency: N/A
Efficacy: 127.1 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

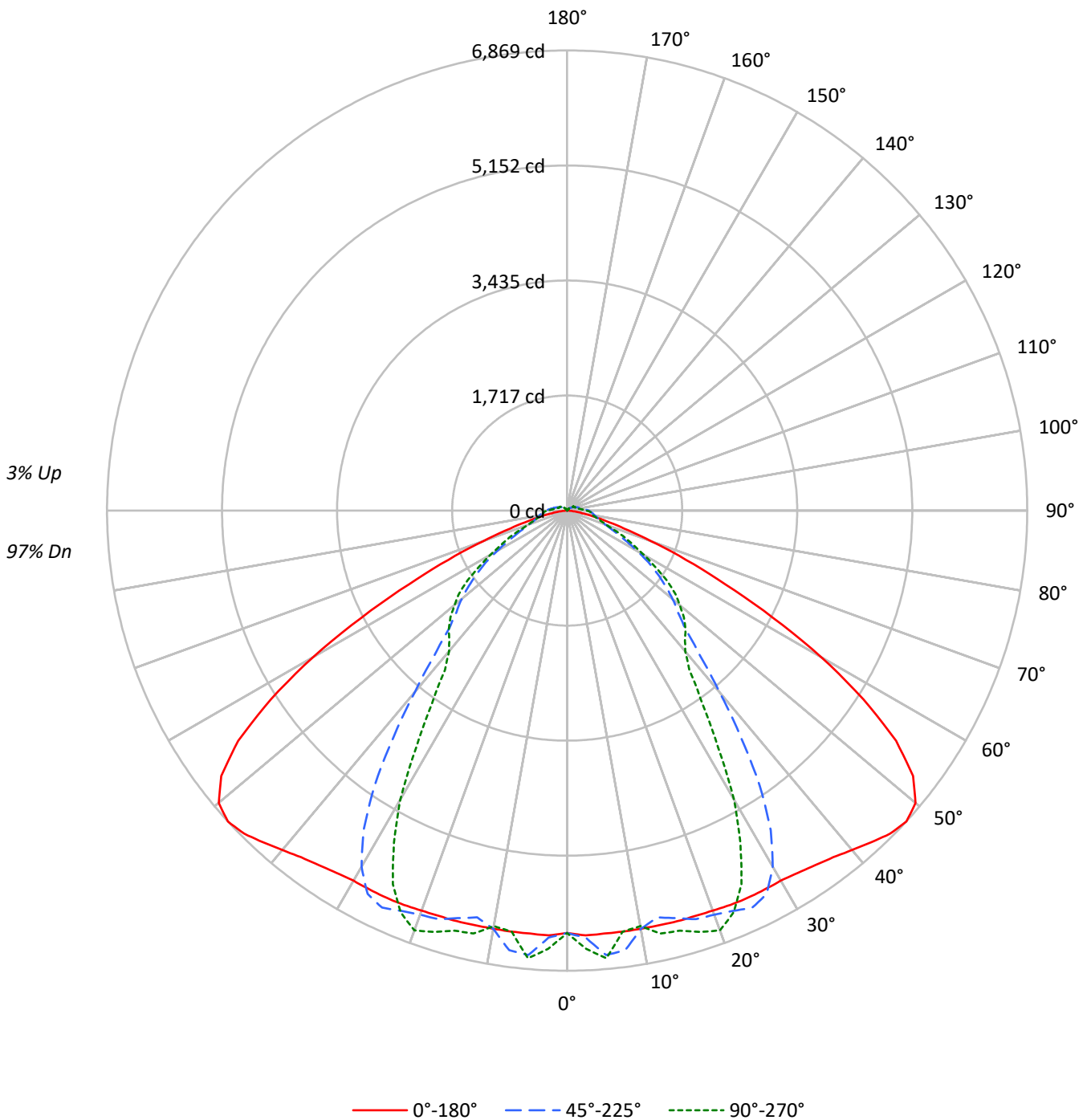
Input Watts (W): 123.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218157

CATALOG NUMBER: 8TSNLED-LD5-170HL-LC-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218157

CATALOG NUMBER: 8TSNLED-LD5-170HL-LC-UNV-L840-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	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	109	105	101	98	106	102	99	96	97	95	92	93	91	89	89	87	85	83
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	72
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	62
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	65	60	56	54
5	79	67	59	53	77	66	58	53	64	57	52	61	55	51	59	54	50	48
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	54	49	45	43
7	68	56	48	42	66	55	47	42	53	46	41	51	45	41	50	44	40	38
8	64	51	43	38	62	50	43	37	49	42	37	47	41	37	46	40	36	34
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	50810	50810	50810
5°	51171	50663	49888
10°	51667	46002	43804
15°	52643	44021	42702
20°	54073	43584	41914
25°	56158	43493	37308
30°	58636	40303	29377
35°	62614	32751	20355
40°	68341	23153	15667
45°	76125	16480	14234
50°	83023	13857	12542
55°	81746	11391	10457
60°	68214	8629	7818
65°	47496	6251	5747
70°	29889	4757	3939
75°	17169	4062	3118
80°	9998	3805	2682
85°	4799	3692	2688



TEST NUMBER: P218157

CATALOG NUMBER: 8TSNLED-LD5-170HL-LC-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.9	3.9
10°-20°	1825.7	11.6
20°-30°	2901.1	18.5
30°-40°	3128.0	19.9
40°-50°	2696.0	17.2
50°-60°	2041.1	13.0
60°-70°	1102.7	7.0
70°-80°	523.7	3.3
80°-90°	328.8	2.1
90°-100°	209.2	1.3
100°-110°	133.9	0.9
110°-120°	89.6	0.6
120°-130°	59.2	0.4
130°-140°	28.9	0.2
140°-150°	12.3	0.1
150°-160°	4.5	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	5346.7	34.0
0°-40°	8474.7	54.0
0°-60°	13211.9	84.1
0°-90°	15167.0	96.6
90°-120°	432.8	2.8
90°-150°	533.2	3.4
90°-180°	538.0	3.4
0°-180°	15704.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6306	6306	6306	6306	6306	
5°	6339	6475	6660	6748	6708	605
15°	6347	6515	6298	6515	6491	1799
25°	6379	6258	6539	6363	6154	2950
35°	6459	6218	5013	3832	3519	4069
45°	6821	4274	2490	2466	2498	5250
55°	5993	1848	1647	1800	1808	5213
65°	2603	787	836	940	948	2673
75°	594	410	482	482	474	700
85°	64	249	370	370	362	93
90°	0	193	321	313	289	3
95°	0	153	257	233	217	0
105°	0	96	177	161	145	0
115°	0	56	120	120	120	0
125°	0	32	80	104	96	0
135°	0	16	48	56	56	0
145°	0	8	24	32	24	0
155°	0	8	8	16	8	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P218157

CATALOG NUMBER: 8TSNLED-LD5-170HL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6306.4	6306.4	6306.4	6306.4	6306.4
2.5°	6346.6	6354.6	6378.7	6499.2	6547.4
5°	6338.6	6475.1	6659.9	6748.3	6708.1
7.5°	6338.6	6619.7	6619.7	6451.0	6338.6
10°	6338.6	6700.1	6338.6	6306.4	6298.4
12.5°	6338.6	6651.9	6218.1	6443.0	6467.1
15°	6346.6	6515.3	6298.4	6515.3	6491.2
17.5°	6346.6	6354.6	6394.8	6563.5	6595.6
20°	6354.6	6250.2	6418.9	6692.0	6667.9
22.5°	6370.7	6234.1	6467.1	6635.8	6491.2
25°	6378.7	6258.2	6539.4	6362.7	6153.8
27.5°	6378.7	6290.4	6451.0	5944.9	5599.5
30°	6378.7	6306.4	6137.7	5366.5	4980.9
32.5°	6410.9	6290.4	5655.7	4611.3	4193.6
35°	6459.1	6218.1	5013.0	3832.1	3518.7
37.5°	6523.3	6025.3	4257.8	3205.4	2996.6
40°	6611.7	5607.5	3534.8	2803.8	2739.5
42.5°	6716.1	4996.9	2940.3	2602.9	2602.9
45°	6820.6	4273.9	2490.4	2466.3	2498.5
47.5°	6868.8	3566.9	2241.4	2329.8	2361.9
50°	6788.5	2908.2	2056.6	2177.1	2193.2
52.5°	6507.3	2321.7	1847.7	1992.4	2032.5
55°	5993.1	1847.7	1646.9	1799.5	1807.6
57.5°	5246.0	1470.2	1438.0	1558.5	1550.5
60°	4386.4	1189.0	1205.1	1325.6	1325.6
62.5°	3462.5	964.0	1012.2	1116.7	1108.6
65°	2602.9	787.3	835.5	939.9	948.0
67.5°	1920.0	650.7	707.0	779.3	763.2
70°	1341.6	546.3	602.5	642.7	626.6
72.5°	891.7	466.0	530.2	546.3	538.3
75°	594.5	409.7	482.0	482.0	474.0
77.5°	385.6	361.5	449.9	441.9	425.8
80°	241.0	321.3	417.8	401.7	385.6
82.5°	144.6	281.2	393.6	377.6	361.5
85°	64.3	249.0	369.5	369.5	361.5
87.5°	24.1	224.9	345.4	353.5	337.4
90°	0.0	192.8	321.3	313.3	289.2
92.5°	0.0	176.7	289.2	265.1	249.0
95°	0.0	152.6	257.1	233.0	216.9
97.5°	0.0	136.6	233.0	208.9	192.8
100°	0.0	120.5	208.9	184.8	168.7
102.5°	0.0	104.4	192.8	168.7	160.7
105°	0.0	96.4	176.7	160.7	144.6
107.5°	0.0	88.4	160.7	144.6	136.6
110°	0.0	72.3	144.6	136.6	128.5



TEST NUMBER: P218157

CATALOG NUMBER: 8TSNLED-LD5-170HL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	64.3	128.5	128.5	128.5
115°	0.0	56.2	120.5	120.5	120.5
117.5°	0.0	48.2	104.4	120.5	120.5
120°	0.0	48.2	96.4	112.5	112.5
122.5°	0.0	40.2	88.4	112.5	112.5
125°	0.0	32.1	80.3	104.4	96.4
127.5°	0.0	24.1	72.3	88.4	88.4
130°	0.0	24.1	64.3	80.3	72.3
132.5°	0.0	16.1	56.2	64.3	64.3
135°	0.0	16.1	48.2	56.2	56.2
137.5°	0.0	16.1	40.2	48.2	40.2
140°	0.0	8.0	32.1	40.2	32.1
142.5°	0.0	8.0	32.1	40.2	32.1
145°	0.0	8.0	24.1	32.1	24.1
147.5°	0.0	8.0	16.1	24.1	24.1
150°	0.0	8.0	16.1	24.1	16.1
152.5°	0.0	8.0	16.1	16.1	8.0
155°	0.0	8.0	8.0	16.1	8.0
157.5°	0.0	8.0	8.0	8.0	8.0
160°	8.0	8.0	8.0	8.0	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)