

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: P218341

Luminaire Tested: **4SNLED-LD5-48HL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35687)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-48HL-LW-UNV-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4846.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

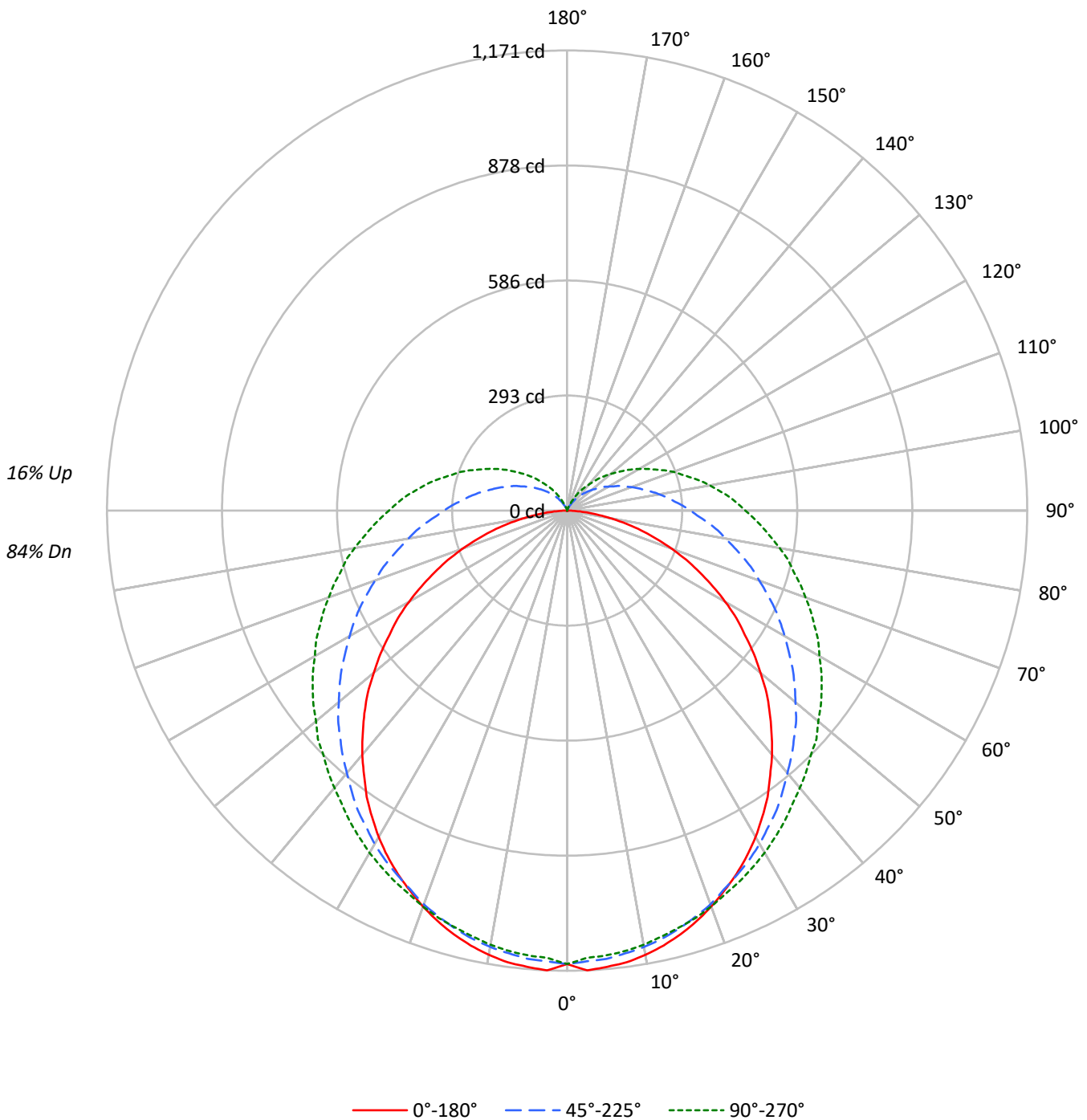
Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84
1	102	96	91	86	98	93	88	83	85	81	78	79	76	73	73	70	68	65
2	92	83	75	68	88	79	72	66	73	67	62	67	63	58	62	58	55	52
3	83	72	63	56	79	69	61	54	64	57	51	59	53	48	54	49	45	42
4	76	63	54	46	72	61	52	45	56	49	43	52	46	41	48	43	38	36
5	70	56	46	39	66	54	45	39	50	42	37	46	40	35	43	37	33	30
6	64	50	41	34	61	48	40	33	45	37	32	42	35	30	39	33	29	26
7	59	45	36	30	57	44	35	29	41	33	28	38	31	27	35	30	25	23
8	55	41	32	26	53	40	32	26	37	30	25	35	28	24	32	27	23	21
9	51	38	29	24	49	36	29	23	34	27	22	32	26	21	30	24	20	18
10	48	35	27	21	46	34	26	21	32	25	20	30	24	19	28	22	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18592	18592	18592
5°	18782	17401	16903
10°	18647	16329	15604
15°	18411	15346	14454
20°	18114	14423	13482
25°	17790	13538	12616
30°	17425	12786	11862
35°	16997	12069	11164
40°	16480	11334	10537
45°	15958	10717	10001
50°	15338	10125	9540
55°	14640	9589	9146
60°	13975	9054	8742
65°	13018	8592	8422
70°	11915	8105	8111
75°	10488	7722	7839
80°	8283	7345	7641
85°	5457	7074	7435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	2.3
10°-20°	312.5	6.4
20°-30°	474.9	9.8
30°-40°	581.2	12.0
40°-50°	627.5	12.9
50°-60°	616.1	12.7
60°-70°	554.9	11.5
70°-80°	459.5	9.5
80°-90°	353.4	7.3
90°-100°	266.4	5.5
100°-110°	196.0	4.0
110°-120°	135.2	2.8
120°-130°	85.8	1.8
130°-140°	47.5	1.0
140°-150°	20.6	0.4
150°-160°	5.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	896.7	18.5
0°-40°	1477.9	30.5
0°-60°	2721.6	56.2
0°-90°	4089.3	84.4
90°-120°	597.6	12.3
90°-150°	751.4	15.5
90°-180°	757.0	15.6
0°-180°	4846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1165	1160	1145	1145	1136	111
15°	1116	1113	1102	1107	1099	315
25°	1020	1020	1023	1043	1040	470
35°	889	898	930	959	965	555
45°	730	761	817	866	878	563
55°	552	613	700	770	790	496
65°	372	456	581	668	695	369
75°	195	311	465	564	596	206
85°	44	192	360	468	500	50
90°	0	148	314	421	453	2
95°	3	116	273	378	413	1
105°	0	73	203	296	326	0
115°	0	46	148	224	247	0
125°	0	29	102	160	177	0
135°	0	17	64	105	116	0
145°	0	6	32	58	64	0
155°	0	3	9	17	20	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°	1153.8	1153.8	1153.8	1153.8	1153.8
2.5°	1171.2	1162.5	1148.0	1148.0	1139.3
5°	1165.4	1159.6	1145.1	1145.1	1136.4
7.5°	1159.6	1153.8	1136.4	1139.3	1130.5
10°	1148.0	1142.2	1127.6	1130.5	1121.8
12.5°	1133.5	1127.6	1116.0	1118.9	1110.2
15°	1116.0	1113.1	1101.5	1107.3	1098.6
17.5°	1095.7	1092.8	1084.0	1092.8	1087.0
20°	1072.4	1072.4	1066.6	1078.2	1072.4
22.5°	1046.3	1046.3	1043.4	1060.8	1055.0
25°	1020.1	1020.1	1023.0	1043.4	1040.5
27.5°	991.0	994.0	1002.7	1025.9	1023.0
30°	959.1	964.9	979.4	1005.6	1005.6
32.5°	924.2	930.0	953.3	985.2	985.2
35°	889.3	898.0	930.0	959.1	964.9
37.5°	848.6	863.2	900.9	935.8	941.6
40°	810.9	831.2	871.9	912.6	921.3
42.5°	770.2	796.3	845.7	892.2	900.9
45°	729.5	761.4	816.7	866.1	877.7
47.5°	688.8	723.7	790.5	842.8	860.3
50°	642.3	685.9	758.5	819.6	834.1
52.5°	598.7	648.1	729.5	793.4	813.8
55°	552.2	613.2	700.4	770.2	790.5
57.5°	511.5	572.5	668.4	746.9	767.3
60°	465.0	531.9	639.4	717.9	741.1
62.5°	418.5	497.0	610.3	694.6	720.8
65°	372.0	456.3	581.3	668.4	694.6
67.5°	328.4	418.5	549.3	642.3	671.4
70°	281.9	380.7	520.2	616.1	645.2
72.5°	238.3	345.8	494.1	590.0	621.9
75°	194.7	311.0	465.0	563.8	595.8
77.5°	154.0	279.0	435.9	540.6	575.4
80°	110.4	247.0	409.8	514.4	549.3
82.5°	75.6	218.0	386.5	491.2	523.1
85°	43.6	191.8	360.4	467.9	499.9
87.5°	17.4	168.6	334.2	441.8	476.6
90°	0.0	148.2	313.9	421.4	453.4
92.5°	0.0	130.8	293.5	398.2	433.0
95°	2.9	116.3	273.2	377.8	412.7
97.5°	0.0	101.7	255.8	357.5	389.4
100°	0.0	93.0	238.3	337.1	369.1
102.5°	0.0	81.4	220.9	316.8	348.8
105°	0.0	72.7	203.4	296.4	325.5
107.5°	0.0	66.8	188.9	279.0	305.2
110°	0.0	58.1	174.4	261.6	287.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	52.3	159.8	241.2	267.4
115°	0.0	46.5	148.2	223.8	247.0
117.5°	0.0	43.6	133.7	206.3	229.6
120°	0.0	37.8	122.1	191.8	212.2
122.5°	0.0	34.9	113.3	174.4	194.7
125°	0.0	29.1	101.7	159.8	177.3
127.5°	0.0	26.2	90.1	145.3	159.8
130°	0.0	23.3	81.4	130.8	145.3
132.5°	0.0	20.3	72.7	116.3	130.8
135°	0.0	17.4	63.9	104.6	116.3
137.5°	0.0	14.5	55.2	90.1	101.7
140°	0.0	11.6	46.5	78.5	87.2
142.5°	0.0	8.7	40.7	66.8	75.6
145°	0.0	5.8	32.0	58.1	63.9
147.5°	0.0	5.8	26.2	46.5	52.3
150°	0.0	2.9	17.4	37.8	40.7
152.5°	0.0	2.9	14.5	29.1	29.1
155°	0.0	2.9	8.7	17.4	20.3
157.5°	0.0	0.0	5.8	11.6	11.6
160°	0.0	0.0	2.9	5.8	8.7
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)