

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: P218342

Luminaire Tested: **4SNLED-LD5-48HL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218342
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-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5242.0 lumens
Efficiency: N/A
Efficacy: 131.0 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

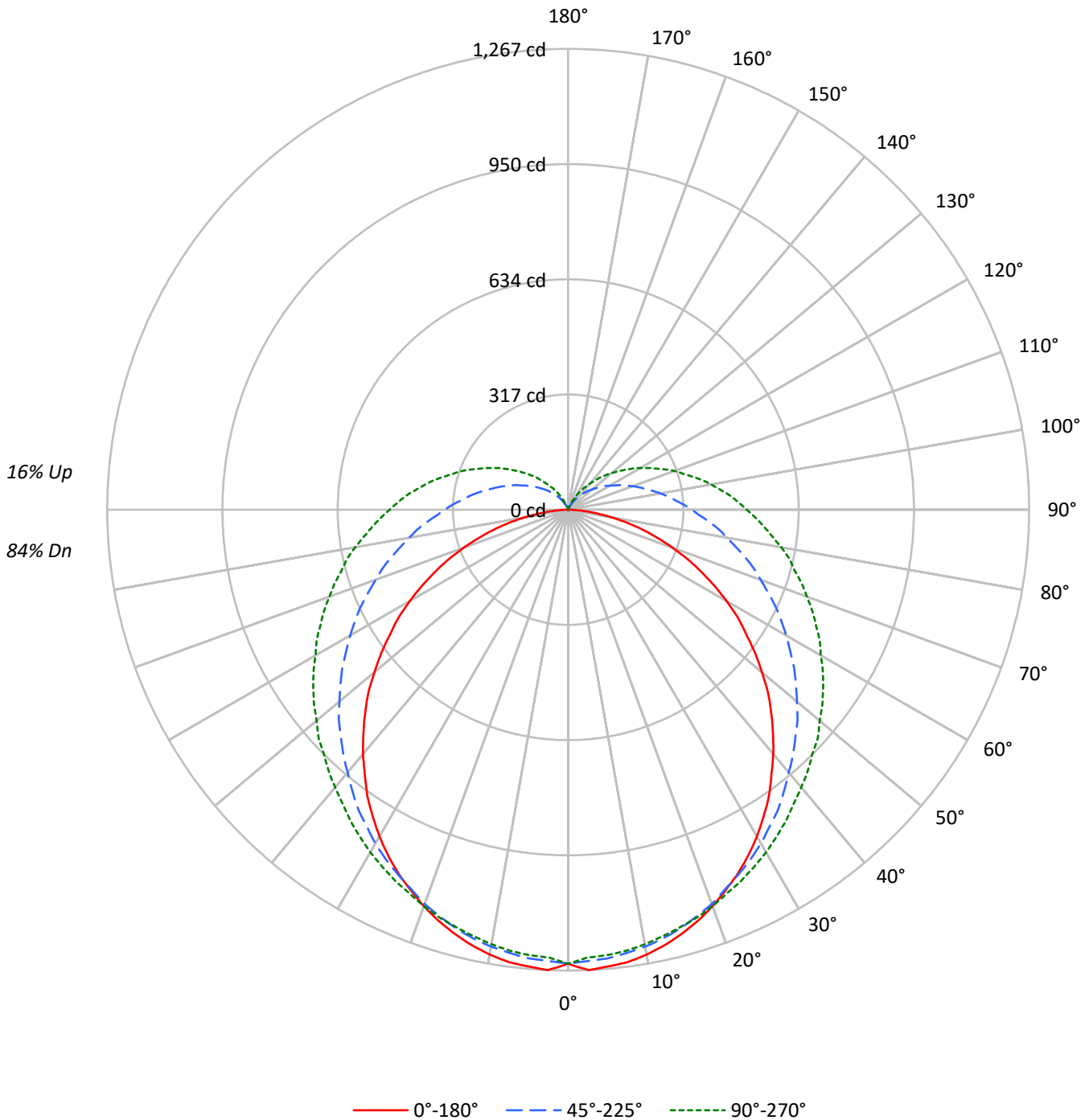
Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20111	20111	20111
5°	20318	18822	18283
10°	20170	17664	16879
15°	19916	16600	15634
20°	19595	15602	14585
25°	19245	14644	13647
30°	18848	13831	12831
35°	18386	13055	12075
40°	17825	12260	11399
45°	17261	11592	10818
50°	16592	10953	10320
55°	15836	10373	9893
60°	15117	9793	9457
65°	14082	9294	9111
70°	12887	8767	8774
75°	11344	8353	8480
80°	8966	7945	8265
85°	5907	7651	8042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	2.3
10°-20°	338.0	6.4
20°-30°	513.7	9.8
30°-40°	628.7	12.0
40°-50°	678.8	12.9
50°-60°	666.5	12.7
60°-70°	600.2	11.5
70°-80°	497.0	9.5
80°-90°	382.2	7.3
90°-100°	288.2	5.5
100°-110°	212.0	4.0
110°-120°	146.3	2.8
120°-130°	92.8	1.8
130°-140°	51.4	1.0
140°-150°	22.2	0.4
150°-160°	5.5	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	969.9	18.5
0°-40°	1598.7	30.5
0°-60°	2944.0	56.2
0°-90°	4423.4	84.4
90°-120°	646.5	12.3
90°-150°	812.8	15.5
90°-180°	819.0	15.6
0°-180°	5242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1261	1254	1239	1239	1229	120
15°	1207	1204	1192	1198	1188	340
25°	1104	1104	1107	1129	1126	508
35°	962	971	1006	1037	1044	601
45°	789	824	883	937	949	609
55°	597	663	758	833	855	536
65°	402	494	629	723	751	399
75°	211	336	503	610	644	223
85°	47	208	390	506	541	54
90°	0	160	340	456	490	3
95°	3	126	296	409	446	1
105°	0	79	220	321	352	0
115°	0	50	160	242	267	0
125°	0	31	110	173	192	0
135°	0	19	69	113	126	0
145°	0	6	35	63	69	0
155°	0	3	9	19	22	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°	1248.1	1248.1	1248.1	1248.1	1248.1
2.5°	1266.9	1257.5	1241.8	1241.8	1232.4
5°	1260.7	1254.4	1238.6	1238.6	1229.2
7.5°	1254.4	1248.1	1229.2	1232.4	1222.9
10°	1241.8	1235.5	1219.8	1222.9	1213.5
12.5°	1226.1	1219.8	1207.2	1210.4	1200.9
15°	1207.2	1204.1	1191.5	1197.8	1188.3
17.5°	1185.2	1182.1	1172.6	1182.1	1175.8
20°	1160.1	1160.1	1153.8	1166.3	1160.1
22.5°	1131.8	1131.8	1128.6	1147.5	1141.2
25°	1103.5	1103.5	1106.6	1128.6	1125.5
27.5°	1072.0	1075.2	1084.6	1109.8	1106.6
30°	1037.4	1043.7	1059.5	1087.7	1087.7
32.5°	999.7	1006.0	1031.2	1065.7	1065.7
35°	962.0	971.4	1006.0	1037.4	1043.7
37.5°	918.0	933.7	974.6	1012.3	1018.6
40°	877.1	899.1	943.1	987.1	996.6
42.5°	833.1	861.4	914.8	965.1	974.6
45°	789.1	823.7	883.4	936.8	949.4
47.5°	745.1	782.8	855.1	911.7	930.6
50°	694.8	741.9	820.5	886.5	902.3
52.5°	647.6	701.1	789.1	858.3	880.3
55°	597.3	663.3	757.7	833.1	855.1
57.5°	553.3	619.3	723.1	808.0	830.0
60°	503.0	575.3	691.6	776.5	801.7
62.5°	452.7	537.6	660.2	751.4	779.7
65°	402.4	493.6	628.8	723.1	751.4
67.5°	355.2	452.7	594.2	694.8	726.2
70°	304.9	411.8	562.7	666.5	697.9
72.5°	257.8	374.1	534.4	638.2	672.8
75°	210.6	336.4	503.0	609.9	644.5
77.5°	166.6	301.8	471.6	584.7	622.5
80°	119.5	267.2	443.3	556.4	594.2
82.5°	81.7	235.8	418.1	531.3	565.9
85°	47.2	207.5	389.8	506.1	540.7
87.5°	18.9	182.3	361.5	477.9	515.6
90°	0.0	160.3	339.5	455.8	490.4
92.5°	0.0	141.5	317.5	430.7	468.4
95°	3.1	125.8	295.5	408.7	446.4
97.5°	0.0	110.0	276.7	386.7	421.3
100°	0.0	100.6	257.8	364.7	399.3
102.5°	0.0	88.0	238.9	342.7	377.3
105°	0.0	78.6	220.1	320.7	352.1
107.5°	0.0	72.3	204.3	301.8	330.1
110°	0.0	62.9	188.6	282.9	311.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	56.6	172.9	260.9	289.2
115°	0.0	50.3	160.3	242.1	267.2
117.5°	0.0	47.2	144.6	223.2	248.4
120°	0.0	40.9	132.0	207.5	229.5
122.5°	0.0	37.7	122.6	188.6	210.6
125°	0.0	31.4	110.0	172.9	191.8
127.5°	0.0	28.3	97.5	157.2	172.9
130°	0.0	25.2	88.0	141.5	157.2
132.5°	0.0	22.0	78.6	125.8	141.5
135°	0.0	18.9	69.2	113.2	125.8
137.5°	0.0	15.7	59.7	97.5	110.0
140°	0.0	12.6	50.3	84.9	94.3
142.5°	0.0	9.4	44.0	72.3	81.7
145°	0.0	6.3	34.6	62.9	69.2
147.5°	0.0	6.3	28.3	50.3	56.6
150°	0.0	3.1	18.9	40.9	44.0
152.5°	0.0	3.1	15.7	31.4	31.4
155°	0.0	3.1	9.4	18.9	22.0
157.5°	0.0	0.0	6.3	12.6	12.6
160°	0.0	0.0	3.1	6.3	9.4
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)