

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: P218213

Luminaire Tested: **4SNLED-LD5-50HL-LN-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35686)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-50HL-LN-UNV-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5164.0 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.04 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

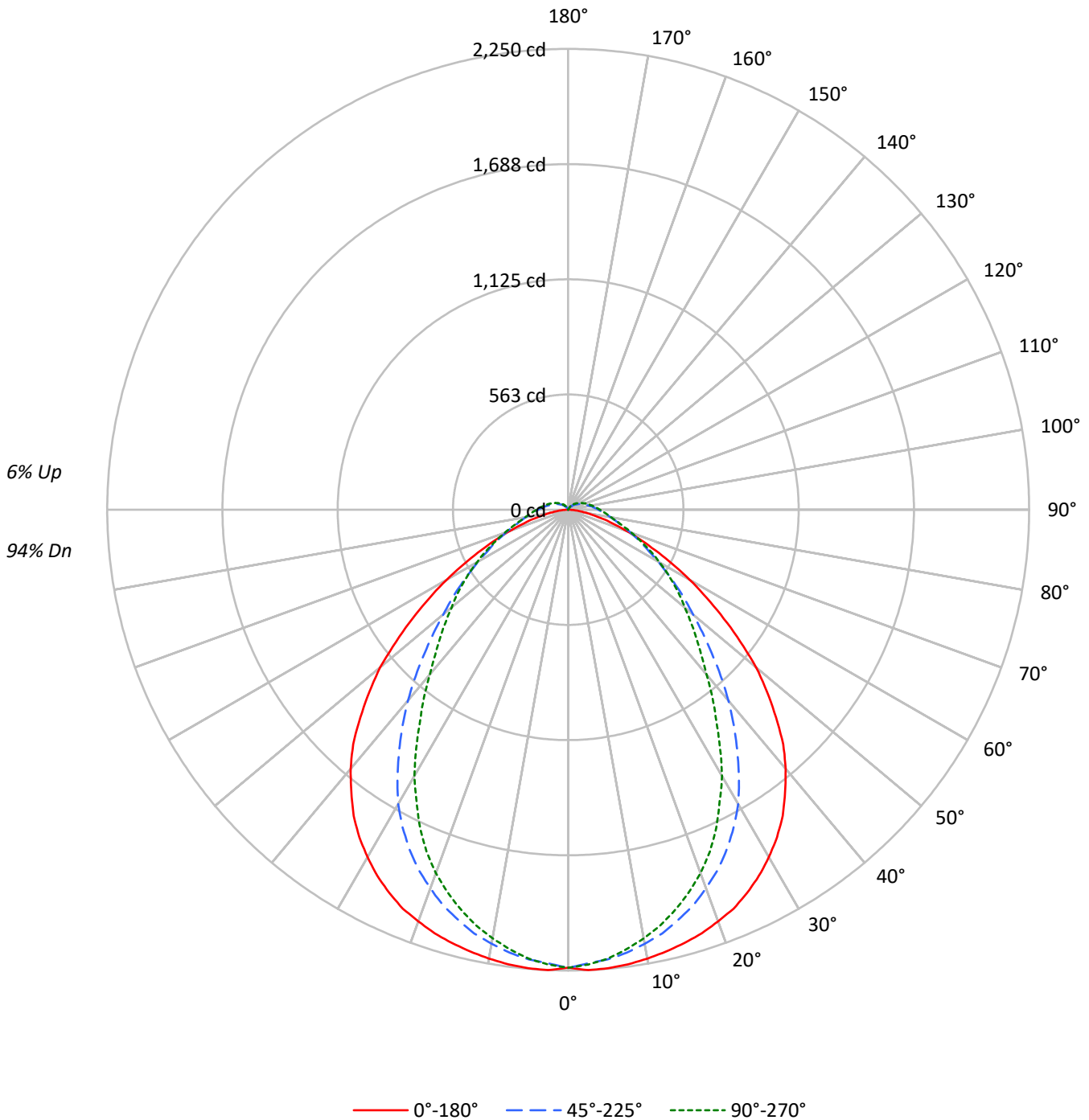
Input Watts (W): 37
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	108	103	99	95	105	100	97	93	95	92	89	90	88	86	86	84	82	80
2	99	91	85	79	96	89	83	78	84	79	75	80	76	73	77	73	70	68
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45
6	72	59	51	45	70	58	50	44	56	49	44	54	47	43	52	46	42	40
7	67	54	46	40	65	53	45	40	51	44	39	49	43	38	47	42	38	36
8	63	50	42	36	61	49	41	36	47	40	35	45	39	35	44	38	34	32
9	59	46	38	33	57	45	38	33	43	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	35	30	40	34	29	39	33	29	38	32	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36037	36037	36037
5°	36218	33489	32737
10°	36148	31165	29556
15°	36133	28884	26596
20°	36122	26600	23738
25°	36013	24231	20750
30°	35590	21665	17715
35°	34892	18677	14575
40°	33563	15809	12012
45°	31364	12995	10075
50°	28587	10605	8495
55°	24598	8754	7240
60°	20605	7165	6066
65°	16378	5952	5014
70°	12764	5001	4139
75°	9674	4246	3437
80°	6738	3755	2952
85°	4080	3417	2671



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	4.1
10°-20°	590.1	11.4
20°-30°	854.5	16.5
30°-40°	930.0	18.0
40°-50°	826.0	16.0
50°-60°	628.7	12.2
60°-70°	417.4	8.1
70°-80°	254.3	4.9
80°-90°	157.6	3.1
90°-100°	107.7	2.1
100°-110°	75.5	1.5
110°-120°	51.5	1.0
120°-130°	32.6	0.6
130°-140°	18.6	0.4
140°-150°	8.7	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1654.8	32.0
0°-40°	2584.8	50.1
0°-60°	4039.5	78.2
0°-90°	4868.8	94.3
90°-120°	234.6	4.5
90°-150°	294.6	5.7
90°-180°	295.0	5.7
0°-180°	5164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2236	2236	2236	2236	2236	
5°	2247	2234	2204	2215	2201	214
15°	2190	2152	2073	2049	2022	619
25°	2065	1972	1831	1758	1711	951
35°	1826	1662	1439	1314	1260	1137
45°	1434	1219	990	906	884	1104
55°	928	754	639	628	626	832
65°	468	403	403	419	414	472
75°	180	204	256	269	261	194
85°	33	103	174	185	180	39
90°	0	76	147	160	155	2
95°	0	60	125	139	136	0
105°	0	38	90	103	103	0
115°	0	24	65	79	76	0
125°	0	16	44	54	54	0
135°	0	11	30	38	38	0
145°	0	5	16	22	22	0
155°	0	0	0	0	0	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°	2236.4	2236.4	2236.4	2236.4	2236.4
2.5°	2250.0	2239.1	2217.4	2231.0	2222.8
5°	2247.3	2233.7	2203.8	2214.6	2201.0
7.5°	2239.1	2222.8	2182.0	2187.4	2165.7
10°	2225.5	2203.8	2152.1	2146.6	2124.9
12.5°	2209.2	2182.0	2119.4	2100.4	2078.6
15°	2190.2	2152.1	2073.2	2048.7	2021.5
17.5°	2168.4	2116.7	2026.9	1988.8	1958.9
20°	2138.5	2075.9	1967.1	1920.8	1888.2
22.5°	2108.5	2026.9	1904.5	1841.9	1806.5
25°	2065.0	1972.5	1831.0	1757.6	1711.3
27.5°	2016.0	1909.9	1749.4	1654.2	1602.5
30°	1958.9	1836.5	1659.6	1548.1	1501.8
32.5°	1896.3	1754.8	1550.8	1431.1	1379.4
35°	1825.6	1662.3	1439.2	1314.1	1259.7
37.5°	1738.5	1561.7	1327.7	1199.8	1156.3
40°	1651.5	1455.6	1216.1	1096.4	1050.2
42.5°	1553.5	1338.6	1101.9	993.1	960.4
45°	1433.8	1218.9	990.3	906.0	884.2
47.5°	1316.8	1096.4	889.7	829.8	810.8
50°	1197.1	976.7	794.4	756.4	742.7
52.5°	1058.3	859.7	715.5	691.1	685.6
55°	927.8	753.6	639.4	628.5	625.8
57.5°	802.6	653.0	568.6	576.8	571.3
60°	685.6	560.5	506.0	516.9	514.2
62.5°	571.3	476.1	448.9	470.7	465.2
65°	468.0	402.7	402.7	419.0	413.5
67.5°	378.2	342.8	359.1	375.5	370.0
70°	302.0	288.4	321.0	334.6	329.2
72.5°	234.0	242.1	283.0	299.3	291.1
75°	179.6	204.1	255.7	269.3	261.2
77.5°	127.9	171.4	231.3	242.1	234.0
80°	89.8	144.2	209.5	220.4	212.2
82.5°	57.1	122.4	190.4	201.3	195.9
85°	32.6	103.4	174.1	185.0	179.6
87.5°	16.3	89.8	157.8	171.4	166.0
90°	0.0	76.2	146.9	160.5	155.1
92.5°	0.0	68.0	136.0	149.6	144.2
95°	0.0	59.9	125.2	138.8	136.0
97.5°	0.0	54.4	117.0	130.6	125.2
100°	0.0	46.3	106.1	119.7	117.0
102.5°	0.0	43.5	97.9	111.5	108.8
105°	0.0	38.1	89.8	103.4	103.4
107.5°	0.0	35.4	84.3	97.9	95.2
110°	0.0	29.9	76.2	89.8	89.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	27.2	70.7	84.3	81.6
115°	0.0	24.5	65.3	78.9	76.2
117.5°	0.0	24.5	59.9	70.7	70.7
120°	0.0	21.8	54.4	65.3	65.3
122.5°	0.0	19.0	49.0	59.9	59.9
125°	0.0	16.3	43.5	54.4	54.4
127.5°	0.0	16.3	40.8	51.7	51.7
130°	0.0	13.6	35.4	46.3	46.3
132.5°	0.0	10.9	32.6	40.8	40.8
135°	0.0	10.9	29.9	38.1	38.1
137.5°	0.0	8.2	24.5	32.6	32.6
140°	0.0	8.2	21.8	29.9	29.9
142.5°	0.0	5.4	19.0	27.2	24.5
145°	0.0	5.4	16.3	21.8	21.8
147.5°	0.0	2.7	13.6	19.0	19.0
150°	0.0	2.7	10.9	16.3	13.6
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	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)