

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: P218211

Luminaire Tested: **4SNLED-LD5-50HL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218211
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-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4766.0 lumens
Efficiency: N/A
Efficacy: 128.8 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

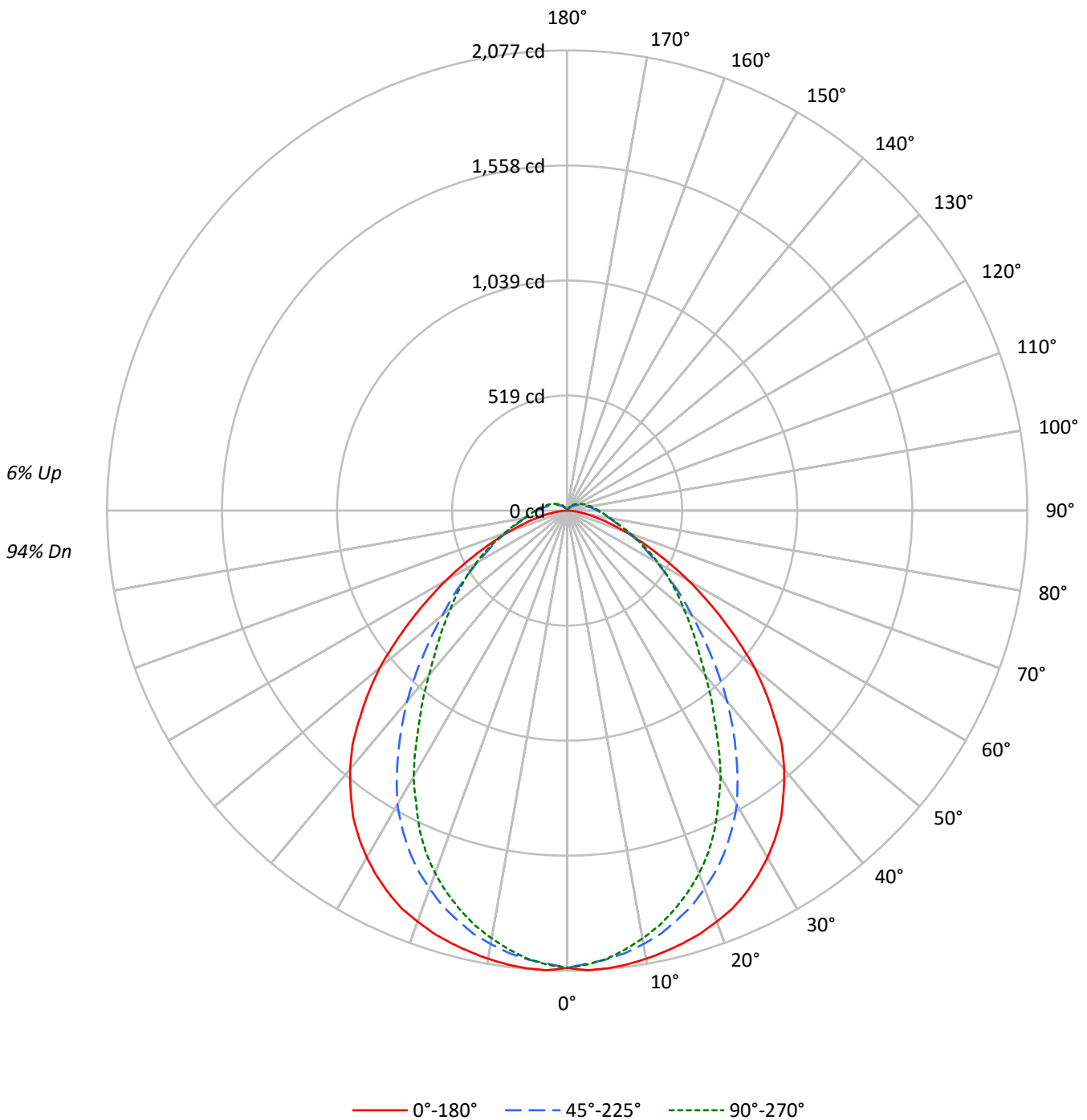
Input Watts (W): 37
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	33259	33259	33259
5°	33427	30907	30215
10°	33362	28763	27278
15°	33348	26658	24547
20°	33336	24550	21908
25°	33237	22364	19151
30°	32847	19996	16350
35°	32202	17238	13451
40°	30976	14591	11085
45°	28947	11994	9299
50°	26383	9788	7840
55°	22700	8079	6682
60°	19018	6613	5598
65°	15114	5492	4628
70°	11779	4616	3819
75°	8925	3919	3172
80°	6220	3464	2725
85°	3767	3154	2465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	4.1
10°-20°	544.6	11.4
20°-30°	788.6	16.5
30°-40°	858.3	18.0
40°-50°	762.3	16.0
50°-60°	580.2	12.2
60°-70°	385.3	8.1
70°-80°	234.7	4.9
80°-90°	145.5	3.1
90°-100°	99.3	2.1
100°-110°	69.7	1.5
110°-120°	47.5	1.0
120°-130°	30.1	0.6
130°-140°	17.1	0.4
140°-150°	8.0	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1527.3	32.0
0°-40°	2385.6	50.1
0°-60°	3728.1	78.2
0°-90°	4493.6	94.3
90°-120°	216.6	4.5
90°-150°	271.9	5.7
90°-180°	272.0	5.7
0°-180°	4766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2064	2064	2064	2064	2064	
5°	2074	2062	2034	2044	2031	197
15°	2021	1986	1913	1891	1866	571
25°	1906	1820	1690	1622	1579	878
35°	1685	1534	1328	1213	1163	1050
45°	1323	1125	914	836	816	1019
55°	856	696	590	580	578	768
65°	432	372	372	387	382	435
75°	166	188	236	249	241	179
85°	30	95	161	171	166	36
90°	0	70	136	148	143	2
95°	0	55	116	128	126	0
105°	0	35	83	95	95	0
115°	0	23	60	73	70	0
125°	0	15	40	50	50	0
135°	0	10	28	35	35	0
145°	0	5	15	20	20	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°	2064.0	2064.0	2064.0	2064.0	2064.0
2.5°	2076.6	2066.5	2046.5	2059.0	2051.5
5°	2074.1	2061.5	2033.9	2044.0	2031.4
7.5°	2066.5	2051.5	2013.8	2018.8	1998.8
10°	2054.0	2033.9	1986.2	1981.2	1961.1
12.5°	2038.9	2013.8	1956.1	1938.5	1918.4
15°	2021.4	1986.2	1913.4	1890.8	1865.7
17.5°	2001.3	1953.6	1870.7	1835.5	1807.9
20°	1973.6	1915.9	1815.5	1772.8	1742.6
22.5°	1946.0	1870.7	1757.7	1699.9	1667.3
25°	1905.8	1820.5	1689.9	1622.1	1579.4
27.5°	1860.6	1762.7	1614.6	1526.7	1479.0
30°	1807.9	1694.9	1531.7	1428.8	1386.1
32.5°	1750.2	1619.6	1431.3	1320.8	1273.1
35°	1684.9	1534.2	1328.3	1212.8	1162.6
37.5°	1604.5	1441.3	1225.4	1107.3	1067.2
40°	1524.2	1343.4	1122.4	1011.9	969.2
42.5°	1433.8	1235.4	1017.0	916.5	886.4
45°	1323.3	1124.9	914.0	836.2	816.1
47.5°	1215.3	1011.9	821.1	765.9	748.3
50°	1104.8	901.4	733.2	698.1	685.5
52.5°	976.8	793.5	660.4	637.8	632.8
55°	856.2	695.5	590.1	580.0	577.5
57.5°	740.7	602.6	524.8	532.3	527.3
60°	632.8	517.3	467.0	477.1	474.6
62.5°	527.3	439.4	414.3	434.4	429.4
65°	431.9	371.6	371.6	386.7	381.7
67.5°	349.0	316.4	331.5	346.5	341.5
70°	278.7	266.2	296.3	308.9	303.8
72.5°	215.9	223.5	261.1	276.2	268.7
75°	165.7	188.3	236.0	248.6	241.1
77.5°	118.0	158.2	213.4	223.5	215.9
80°	82.9	133.1	193.3	203.4	195.9
82.5°	52.7	113.0	175.8	185.8	180.8
85°	30.1	95.4	160.7	170.7	165.7
87.5°	15.1	82.9	145.6	158.2	153.2
90°	0.0	70.3	135.6	148.1	143.1
92.5°	0.0	62.8	125.5	138.1	133.1
95°	0.0	55.2	115.5	128.1	125.5
97.5°	0.0	50.2	108.0	120.5	115.5
100°	0.0	42.7	97.9	110.5	108.0
102.5°	0.0	40.2	90.4	103.0	100.4
105°	0.0	35.2	82.9	95.4	95.4
107.5°	0.0	32.6	77.8	90.4	87.9
110°	0.0	27.6	70.3	82.9	82.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	25.1	65.3	77.8	75.3
115°	0.0	22.6	60.3	72.8	70.3
117.5°	0.0	22.6	55.2	65.3	65.3
120°	0.0	20.1	50.2	60.3	60.3
122.5°	0.0	17.6	45.2	55.2	55.2
125°	0.0	15.1	40.2	50.2	50.2
127.5°	0.0	15.1	37.7	47.7	47.7
130°	0.0	12.6	32.6	42.7	42.7
132.5°	0.0	10.0	30.1	37.7	37.7
135°	0.0	10.0	27.6	35.2	35.2
137.5°	0.0	7.5	22.6	30.1	30.1
140°	0.0	7.5	20.1	27.6	27.6
142.5°	0.0	5.0	17.6	25.1	22.6
145°	0.0	5.0	15.1	20.1	20.1
147.5°	0.0	2.5	12.6	17.6	17.6
150°	0.0	2.5	10.0	15.1	12.6
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)