

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1214218

Luminaire Tested: 4SNLED-LD5-70HL-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27410)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-70HL-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

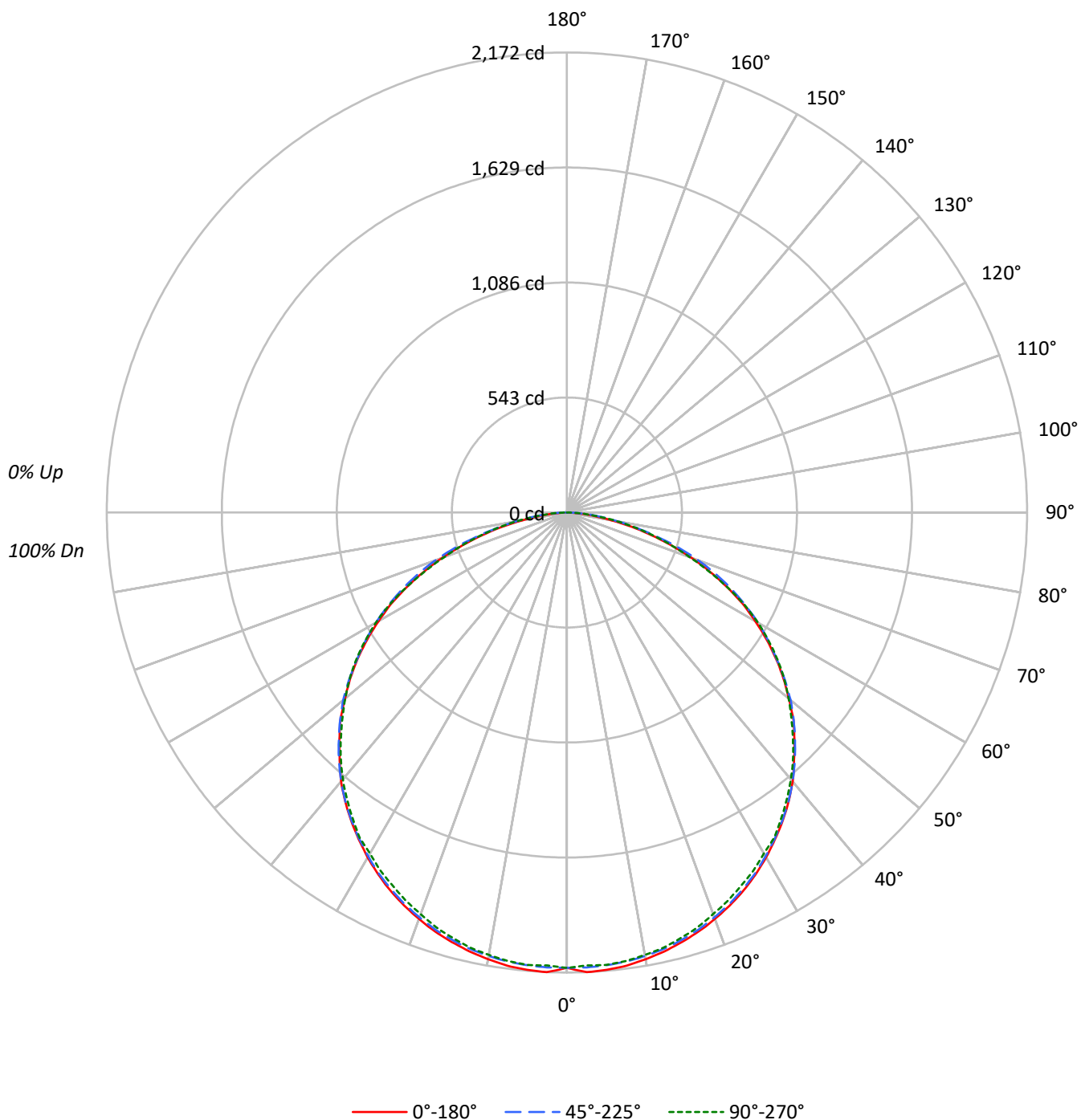
Lumens per Lamp: N/A
Luminaire Lumens: 6449.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 48
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: 24 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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91		93	91	88		90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46		57	50	45		55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17373	17373	17373
5°	17531	16977	16842
10°	17474	16605	16322
15°	17417	16232	15811
20°	17367	15834	15267
25°	17318	15434	14757
30°	17235	15005	14256
35°	17148	14560	13775
40°	17045	14084	13199
45°	16830	13518	12539
50°	16573	12904	11868
55°	16256	12081	11144
60°	15732	11244	10197
65°	14964	10156	8869
70°	13639	8726	7191
75°	11584	6660	5527
80°	8657	4385	3623
85°	4475	2135	1618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16830 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	3.2
10°-20°	588.4	9.1
20°-30°	900.7	14.0
30°-40°	1103.6	17.1
40°-50°	1167.3	18.1
50°-60°	1077.4	16.7
60°-70°	831.6	12.9
70°-80°	461.6	7.2
80°-90°	114.3	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1693.2	26.3
0°-40°	2796.8	43.4
0°-60°	5041.5	78.2
0°-90°	6449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2150	2150	2150	2150	2150	
5°	2167	2139	2146	2140	2144	206
15°	2099	2075	2090	2082	2080	593
25°	1971	1947	1963	1946	1945	908
35°	1776	1757	1773	1754	1763	1111
45°	1519	1505	1523	1507	1509	1172
55°	1205	1196	1210	1208	1215	1076
65°	835	826	859	853	837	823
75°	414	439	442	441	425	440
85°	66	97	99	100	92	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2149.8	2149.8	2149.8	2149.8	2149.8
2.5°	2172.3	2144.4	2149.8	2146.6	2140.1
5°	2167.0	2139.1	2145.5	2140.1	2144.4
7.5°	2158.4	2128.3	2139.1	2131.5	2135.8
10°	2141.2	2115.4	2126.2	2117.6	2120.8
12.5°	2123.0	2096.1	2111.2	2100.4	2104.7
15°	2099.3	2074.7	2089.7	2082.2	2080.0
17.5°	2073.6	2050.0	2065.0	2056.4	2053.2
20°	2042.5	2019.9	2033.9	2021.0	2017.8
22.5°	2008.1	1985.6	2001.7	1983.4	1984.5
25°	1970.6	1946.9	1963.0	1945.9	1944.8
27.5°	1927.6	1905.1	1922.3	1904.0	1906.2
30°	1880.4	1857.9	1875.0	1856.8	1858.9
32.5°	1828.9	1810.6	1825.7	1808.5	1820.3
35°	1776.3	1757.0	1773.1	1753.7	1763.4
37.5°	1719.4	1701.2	1718.3	1696.9	1705.5
40°	1658.2	1642.1	1657.2	1637.8	1645.3
42.5°	1587.4	1577.7	1592.8	1573.4	1579.9
45°	1518.7	1504.7	1523.0	1506.9	1509.0
47.5°	1450.0	1435.0	1452.2	1438.2	1437.1
50°	1367.4	1362.0	1378.1	1367.4	1366.3
52.5°	1289.0	1278.3	1295.5	1290.1	1293.3
55°	1205.3	1195.6	1209.6	1208.5	1215.0
57.5°	1118.4	1108.7	1126.9	1124.8	1130.2
60°	1026.1	1018.5	1042.2	1036.8	1041.1
62.5°	935.9	922.0	952.0	947.7	945.6
65°	835.0	826.4	858.6	853.3	837.2
67.5°	730.9	727.7	761.0	750.2	723.4
70°	626.8	628.9	661.1	640.8	618.2
72.5°	517.3	533.4	552.7	537.7	521.6
75°	414.3	439.0	442.2	441.1	425.0
77.5°	313.4	344.5	337.0	344.5	331.6
80°	219.0	253.3	247.9	254.4	243.6
82.5°	135.2	166.4	167.4	171.7	162.1
85°	65.5	96.6	98.7	99.8	92.3
87.5°	14.0	45.1	46.2	42.9	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)