Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1213165

Luminaire Tested: 4SNLED-LD5-70HL-UNV-L930-CD1-U

Issue Date: 3/29/2018

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1213165
	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-L930-CD1-U
Description:	4FT LINEAR SNLED LED FIXTURE
	OPEN LED STIP
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5568.0 lumens
Efficiency:	N/A
Efficacy:	116.0 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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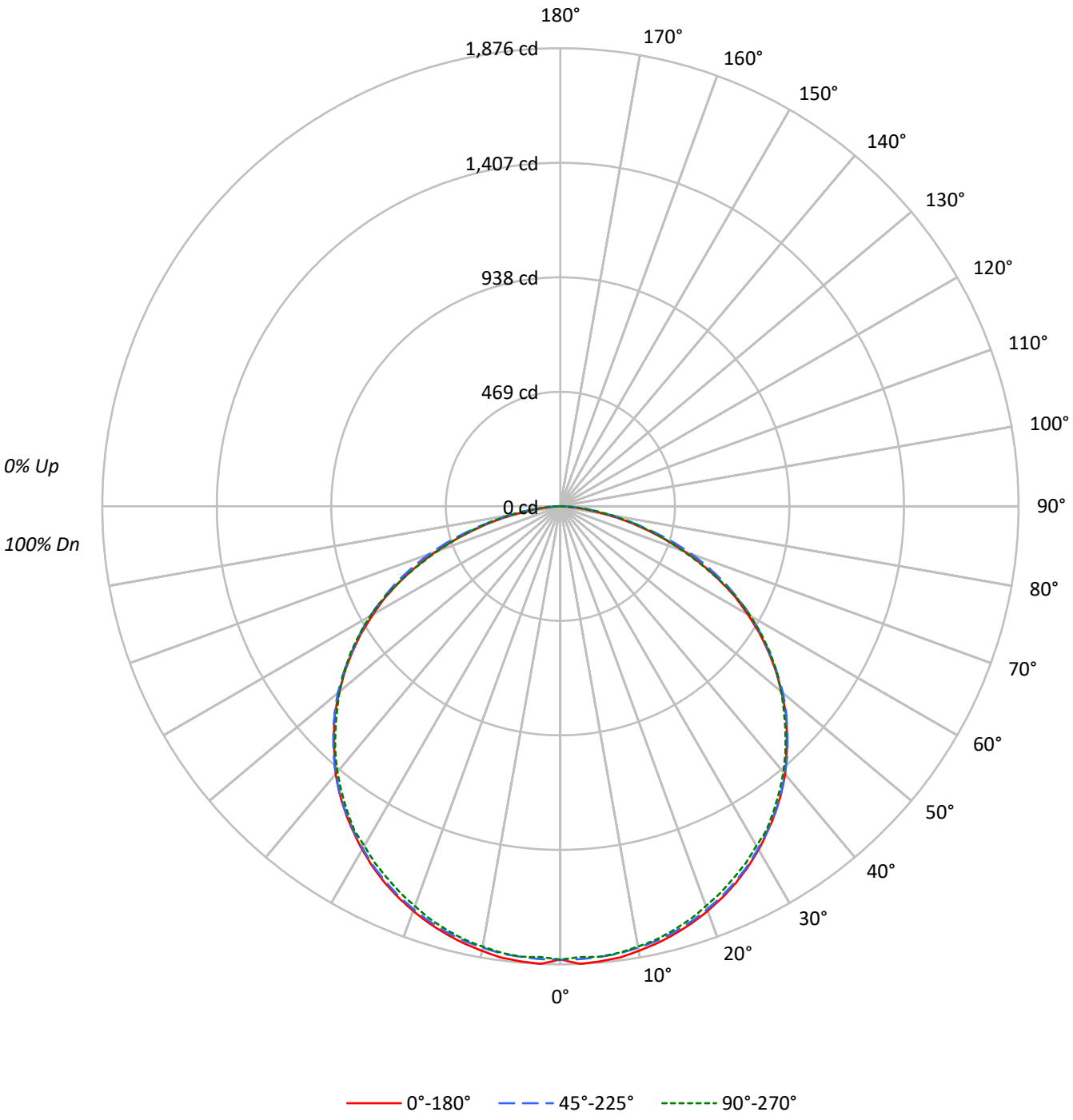
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	14999	14999	14999
5°	15135	14658	14542
10°	15087	14336	14093
15°	15038	14014	13652
20°	14994	13670	13181
25°	14953	13326	12741
30°	14881	12956	12309
35°	14805	12571	11894
40°	14717	12160	11396
45°	14531	11671	10826
50°	14309	11141	10246
55°	14034	10430	9621
60°	13583	9708	8804
65°	12919	8768	7657
70°	11776	7534	6209
75°	10002	5750	4773
80°	7471	3787	3129
85°	3860	1845	1397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 14531 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	3.2
10°-20°	508.0	9.1
20°-30°	777.7	14.0
30°-40°	952.8	17.1
40°-50°	1007.8	18.1
50°-60°	930.2	16.7
60°-70°	718.0	12.9
70°-80°	398.5	7.2
80°-90°	98.7	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°	1461.9	26.3
0°-40°	2414.7	43.4
0°-60°	4352.7	78.2
0°-90°	5568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1856	1856	1856	1856	1856	
5°	1871	1847	1852	1848	1852	178
15°	1813	1791	1804	1798	1796	512
25°	1701	1681	1695	1680	1679	784
35°	1534	1517	1531	1514	1522	960
45°	1311	1299	1315	1301	1303	1012
55°	1041	1032	1044	1043	1049	929
65°	721	714	741	737	723	711
75°	358	379	382	381	367	380
85°	56	83	85	86	80	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1856.1*	1856.1	1856.1	1856.1	1856.1
2.5°	*1875.6*	*1851.5*	*1856.1*	*1853.3*	*1847.8*
5°	*1870.9*	1846.8	1852.4	1847.8	1851.5
7.5°	*1863.5*	1837.6	1846.8	1840.4	1844.1
10°	*1848.7*	1826.5	1835.7	1828.3	1831.1
12.5°	*1832.9*	1809.8	1822.7	1813.5	1817.2
15°	*1812.6*	1791.2	1804.2	1797.7	1795.9
17.5°	*1790.3*	1769.9	1782.9	1775.5	1772.7
20°	*1763.4*	1744.0	1756.0	1744.9	1742.1
22.5°	*1733.8*	1714.3	1728.2	1712.5	1713.4
25°	*1701.4*	1681.0	1694.9	1680.0	1679.1
27.5°	*1664.3*	1644.8	1659.7	1643.9	1645.8
30°	*1623.5*	1604.1	1618.9	1603.1	1605.0
32.5°	*1579.0*	1563.3	1576.3	1561.4	1571.6
35°	*1533.6*	1516.9	1530.8	1514.2	1522.5
37.5°	*1484.5*	1468.8	1483.6	1465.1	1472.5
40°	*1431.7*	1417.8	1430.8	1414.1	1420.6
42.5°	*1370.5*	1362.2	1375.2	1358.5	1364.0
45°	*1311.2*	1299.2	1314.9	1301.0	1302.9
47.5°	*1251.9*	1238.9	1253.8	1241.7	1240.8
50°	*1180.6*	1175.9	1189.8	1180.6	1179.6
52.5°	*1112.9*	1103.7	1118.5	1113.8	1116.6
55°	*1040.6*	1032.3	1044.3	1043.4	1049.0
57.5°	*965.6*	957.2	973.0	971.1	975.8
60°	*885.9*	879.4	899.8	895.2	898.9
62.5°	*808.1*	796.0	822.0	818.2	816.4
65°	*720.9*	713.5	741.3	736.7	722.8
67.5°	*631.1*	628.3	657.0	647.7	624.6
70°	*541.2*	543.0	570.8	553.2	533.8
72.5°	*446.7*	460.6	477.2	464.3	450.4
75°	*357.7*	379.0	381.8	380.9	367.0
77.5°	*270.6*	297.5	291.0	297.5	286.3
80°	*189.0*	218.7	214.1	219.6	210.4
82.5°	*116.8*	143.6	144.6	148.3	139.9
85°	*56.5*	83.4	85.3	86.2	79.7
87.5°	*12.0*	38.9	39.8	37.1	32.4
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)