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: P1213867

Luminaire Tested: 4SNLED-LD5-70HL-UNV-L940-CD1-U

Issue Date: 3/29/2018

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1213867
	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-L940-CD1-U
Description:	4FT LINEAR SNLED LED FIXTURE
	OPEN LED STIP
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6050.0 lumens
Efficiency:	N/A
Efficacy:	126.0 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

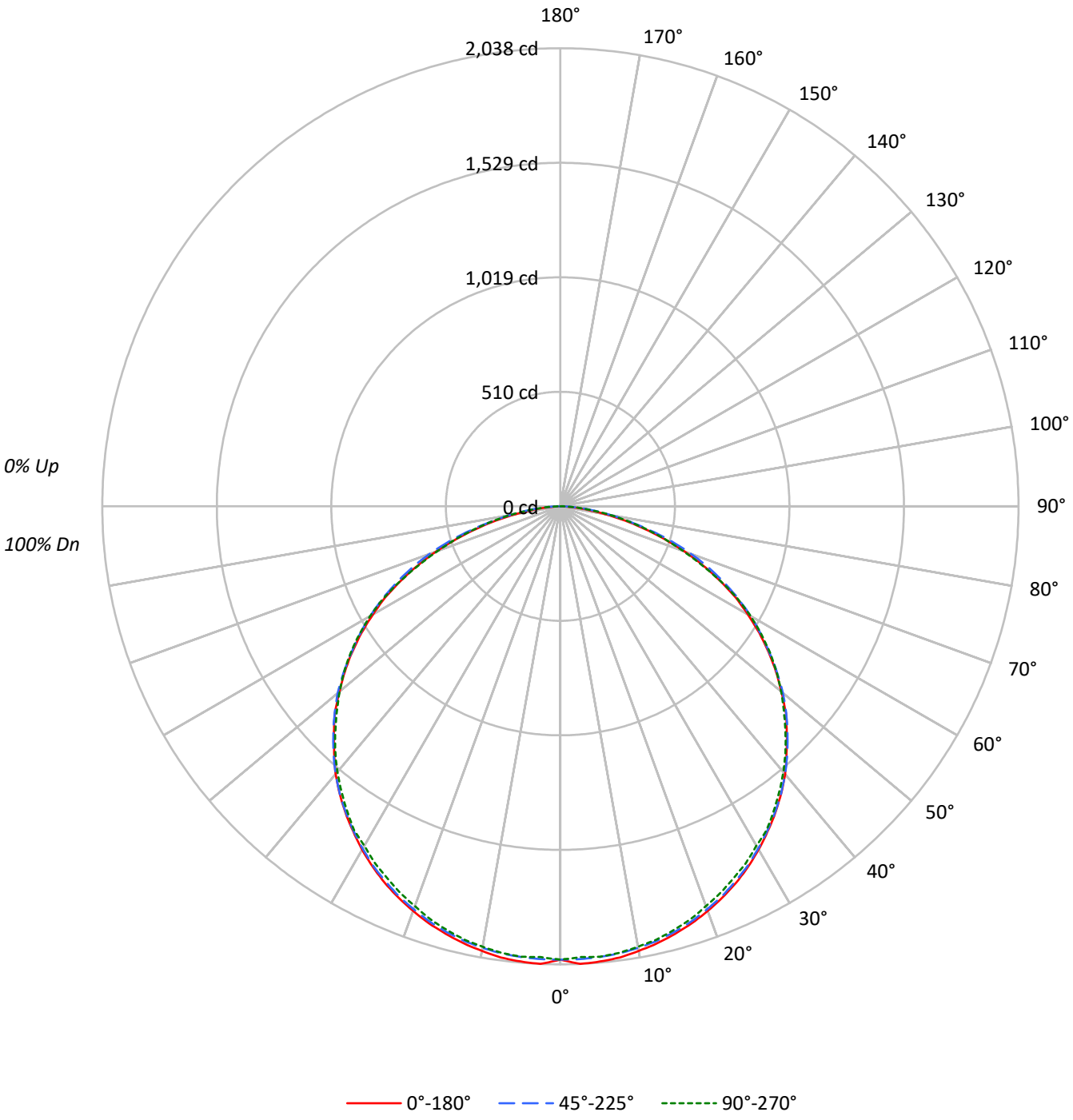
Input Watts (W):	48
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

TEST NUMBER: P1213867
CATALOG NUMBER: 4SNLED-LD5-70HL-UNV-L940-CD1-U

Luminous Intensity Polar Plot



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

Scaled Data Report

TEST NUMBER: P1213867
CATALOG NUMBER: 4SNLED-LD5-70HL-UNV-L940-CD1-U

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°	16298	16298	16298
5°	16446	15927	15800
10°	16392	15577	15313
15°	16340	15228	14833
20°	16292	14854	14322
25°	16246	14479	13845
30°	16169	14077	13374
35°	16087	13660	12923
40°	15991	13212	12382
45°	15788	12682	11763
50°	15548	12105	11134
55°	15250	11334	10454
60°	14759	10548	9566
65°	14039	9528	8320
70°	12794	8187	6746
75°	10869	6247	5185
80°	8120	4115	3400
85°	4195	2003	1518

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 15788 cd/sqm

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

Scaled Data Report

TEST NUMBER: P1213867
CATALOG NUMBER: 4SNLED-LD5-70HL-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	3.2
10°-20°	552.0	9.1
20°-30°	845.0	14.0
30°-40°	1035.3	17.1
40°-50°	1095.0	18.1
50°-60°	1010.8	16.7
60°-70°	780.2	12.9
70°-80°	433.0	7.2
80°-90°	107.3	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°	1588.4	26.3
0°-40°	2623.7	43.4
0°-60°	4729.5	78.2
0°-90°	6050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2017	2017	2017	2017	2017	
5°	2033	2007	2013	2008	2012	193
15°	1970	1946	1960	1953	1951	556
25°	1849	1826	1842	1826	1824	852
35°	1666	1648	1663	1645	1654	1043
45°	1425	1412	1429	1414	1416	1099
55°	1131	1122	1135	1134	1140	1009
65°	783	775	806	800	785	772
75°	389	412	415	414	399	412
85°	61	91	93	94	87	83
90°	0	0	0	0	0	

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

Scaled Data Report

TEST NUMBER: P1213867
CATALOG NUMBER: 4SNLED-LD5-70HL-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2016.8*	2016.8	2016.8	2016.8	2016.8
2.5°	*2037.9*	*2011.7*	*2016.8*	*2013.8*	*2007.7*
5°	*2032.9*	2006.7	2012.8	2007.7	2011.7
7.5°	*2024.8*	1996.6	2006.7	1999.7	2003.7
10°	*2008.7*	1984.6	1994.6	1986.6	1989.6
12.5°	*1991.6*	1966.4	1980.5	1970.5	1974.5
15°	*1969.5*	1946.3	1960.4	1953.3	1951.3
17.5°	*1945.3*	1923.1	1937.2	1929.2	1926.2
20°	*1916.1*	1894.9	1908.0	1896.0	1892.9
22.5°	*1883.9*	1862.7	1877.8	1860.7	1861.7
25°	*1848.6*	1826.5	1841.6	1825.5	1824.5
27.5°	*1808.4*	1787.2	1803.3	1786.2	1788.2
30°	*1764.1*	1742.9	1759.0	1741.9	1743.9
32.5°	*1715.7*	1698.6	1712.7	1696.6	1707.7
35°	*1666.4*	1648.3	1663.4	1645.2	1654.3
37.5°	*1613.0*	1595.9	1612.0	1591.9	1599.9
40°	*1555.6*	1540.5	1554.6	1536.5	1543.5
42.5°	*1489.2*	1480.1	1494.2	1476.1	1482.1
45°	*1424.7*	1411.6	1428.8	1413.7	1415.7
47.5°	*1360.3*	1346.2	1362.3	1349.2	1348.2
50°	*1282.8*	1277.7	1292.8	1282.8	1281.8
52.5°	*1209.3*	1199.2	1215.3	1210.3	1213.3
55°	*1130.7*	1121.7	1134.8	1133.7	1139.8
57.5°	*1049.2*	1040.1	1057.2	1055.2	1060.2
60°	*962.6*	955.5	977.7	972.6	976.7
62.5°	*878.0*	864.9	893.1	889.1	887.1
65°	*783.4*	775.3	805.5	800.5	785.4
67.5°	*685.7*	682.7	713.9	703.8	678.6
70°	*588.0*	590.0	620.2	601.1	580.0
72.5°	*485.3*	500.4	518.5	504.4	489.3
75°	*388.7*	411.8	414.8	413.8	398.7
77.5°	*294.0*	323.2	316.2	323.2	311.1
80°	*205.4*	237.6	232.6	238.6	228.6
82.5°	*126.9*	156.1	157.1	161.1	152.0
85°	*61.4*	90.6	92.6	93.6	86.6
87.5°	*13.1*	42.3	43.3	40.3	35.2
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)