

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: P1213840

Luminaire Tested: 4SNLED-LD5-60HL-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213840
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-LD5-60HL-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

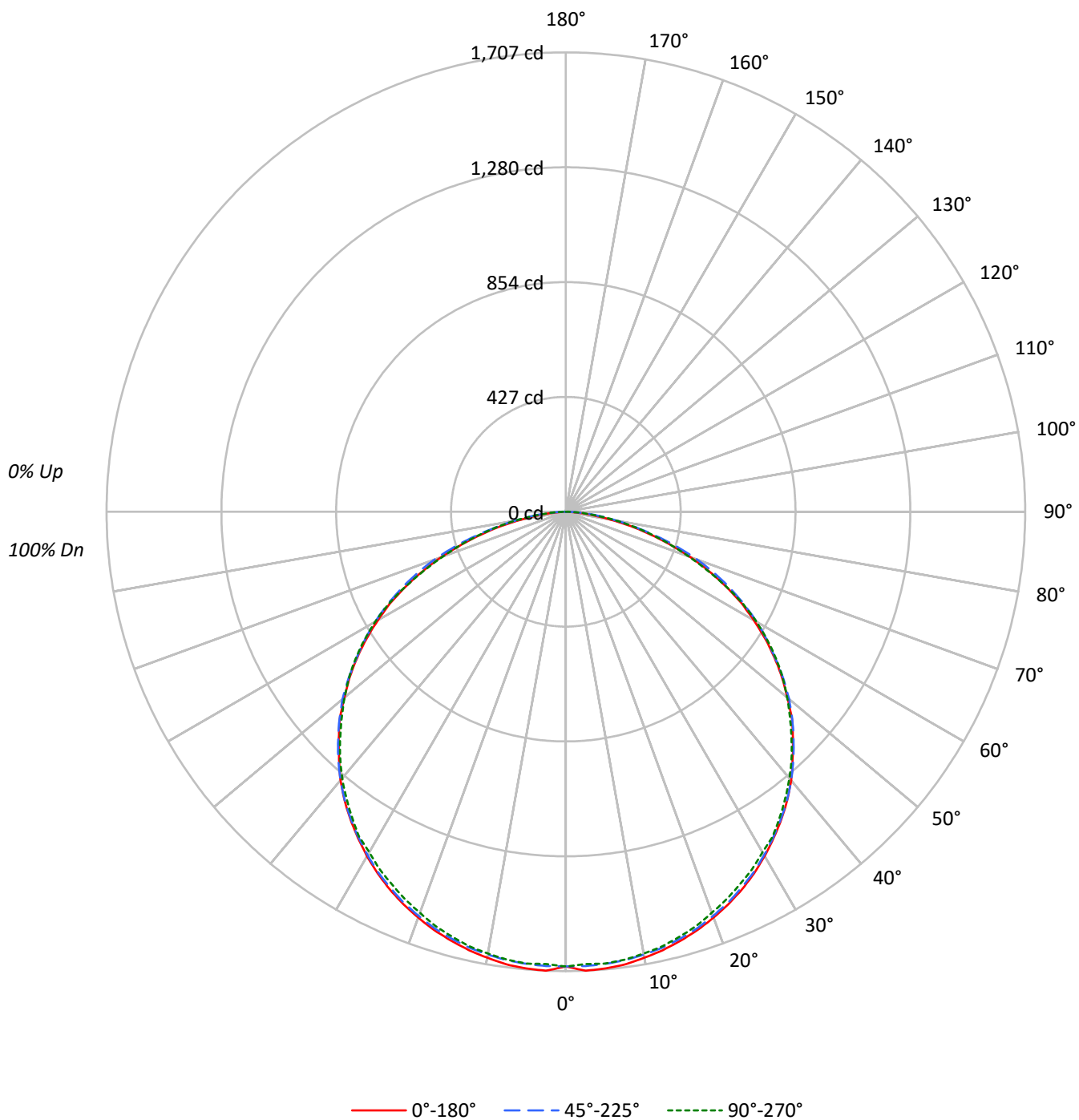
Lumens per Lamp: N/A
Luminaire Lumens: 5068.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 39
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°	13652	13652	13652
5°	13776	13342	13235
10°	13732	13049	12827
15°	13688	12756	12425
20°	13648	12443	11997
25°	13610	12129	11597
30°	13544	11792	11204
35°	13476	11442	10826
40°	13395	11068	10373
45°	13226	10624	9854
50°	13025	10141	9326
55°	12775	9494	8757
60°	12362	8836	8013
65°	11759	7982	6970
70°	10719	6859	5651
75°	9104	5234	4343
80°	6803	3446	2848
85°	3518	1679	1271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	3.2
10°-20°	462.4	9.1
20°-30°	707.8	14.0
30°-40°	867.3	17.1
40°-50°	917.3	18.1
50°-60°	846.7	16.7
60°-70°	653.5	12.9
70°-80°	362.7	7.2
80°-90°	89.9	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°	1330.6	26.3
0°-40°	2197.9	43.4
0°-60°	3961.9	78.2
0°-90°	5068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1689	1689	1689	1689	1689	
5°	1703	1681	1686	1682	1685	162
15°	1650	1630	1642	1636	1635	466
25°	1549	1530	1543	1529	1528	714
35°	1396	1381	1393	1378	1386	873
45°	1194	1182	1197	1184	1186	921
55°	947	940	951	950	955	845
65°	656	650	675	670	658	647
75°	326	345	348	347	334	345
85°	52	76	78	78	72	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1689.4	1689.4	1689.4	1689.4	1689.4
2.5°	1707.1	1685.2	1689.4	1686.9	1681.8
5°	1702.9	1681.0	1686.1	1681.8	1685.2
7.5°	1696.2	1672.6	1681.0	1675.1	1678.5
10°	1682.7	1662.4	1670.9	1664.1	1666.7
12.5°	1668.3	1647.3	1659.1	1650.6	1654.0
15°	1649.8	1630.4	1642.2	1636.3	1634.6
17.5°	1629.5	1611.0	1622.8	1616.1	1613.5
20°	1605.1	1587.4	1598.3	1588.2	1585.7
22.5°	1578.1	1560.4	1573.0	1558.7	1559.5
25°	1548.6	1530.0	1542.7	1529.2	1528.3
27.5°	1514.8	1497.1	1510.6	1496.3	1498.0
30°	1477.7	1460.0	1473.5	1459.2	1460.9
32.5°	1437.2	1422.9	1434.7	1421.2	1430.5
35°	1395.9	1380.7	1393.4	1378.2	1385.8
37.5°	1351.2	1336.9	1350.4	1333.5	1340.2
40°	1303.1	1290.5	1302.3	1287.1	1293.0
42.5°	1247.5	1239.9	1251.7	1236.5	1241.6
45°	1193.5	1182.5	1196.9	1184.2	1185.9
47.5°	1139.5	1127.7	1141.2	1130.2	1129.4
50°	1074.6	1070.3	1083.0	1074.6	1073.7
52.5°	1013.0	1004.5	1018.0	1013.8	1016.4
55°	947.2	939.6	950.6	949.7	954.8
57.5°	878.9	871.3	885.6	883.9	888.2
60°	806.3	800.4	819.0	814.8	818.1
62.5°	735.5	724.5	748.1	744.8	743.1
65°	656.2	649.5	674.8	670.5	657.9
67.5°	574.4	571.9	598.0	589.6	568.5
70°	492.6	494.3	519.6	503.5	485.8
72.5°	406.5	419.2	434.4	422.6	409.9
75°	325.6	345.0	347.5	346.7	334.0
77.5°	246.3	270.7	264.8	270.7	260.6
80°	172.1	199.1	194.8	199.9	191.5
82.5°	106.3	130.7	131.6	135.0	127.4
85°	51.5	75.9	77.6	78.4	72.5
87.5°	11.0	35.4	36.3	33.7	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)