

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: P1213163

Luminaire Tested: 4SNLED-LD5-68SL-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213163
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-LD5-68SL-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

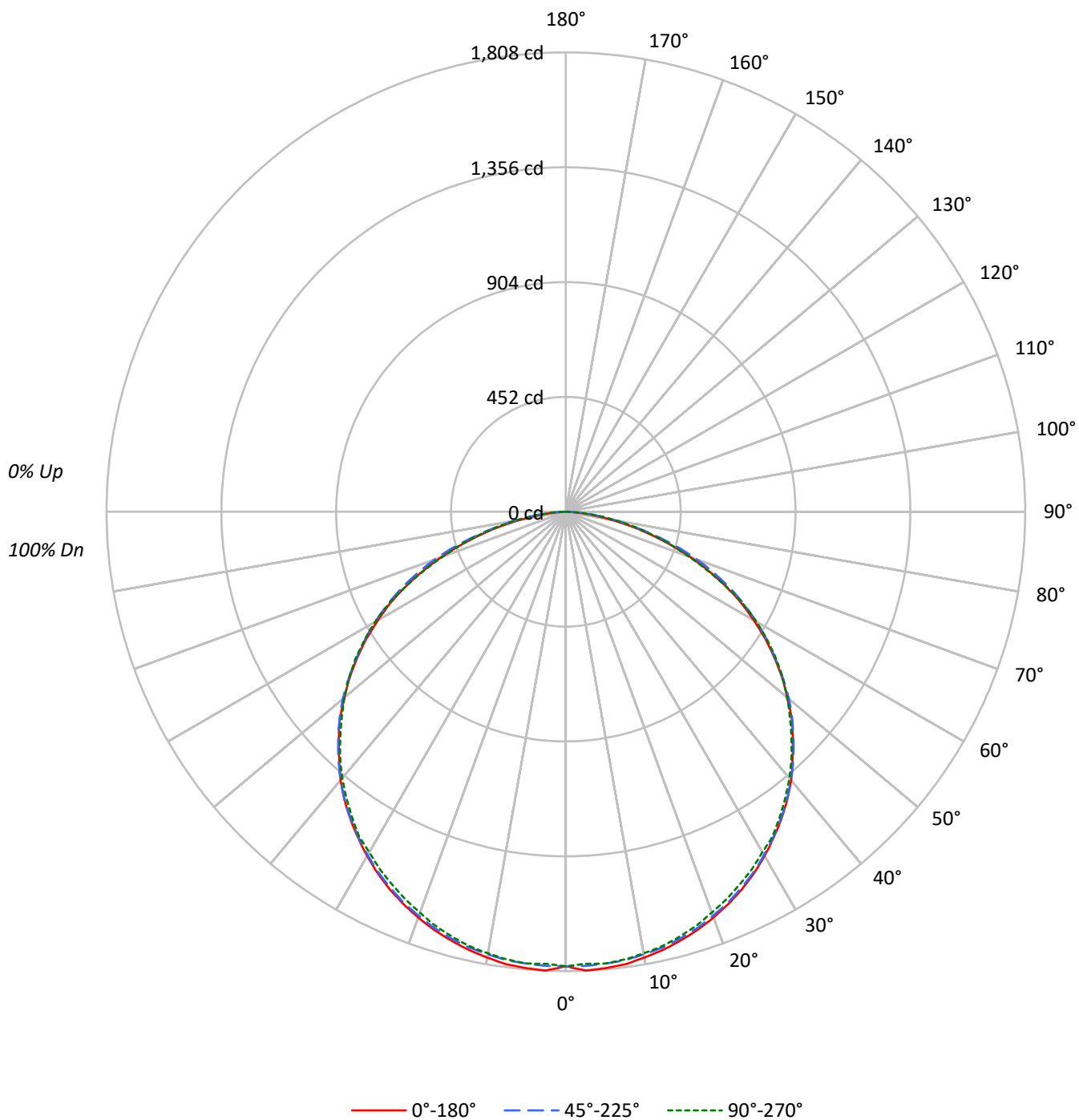
Lumens per Lamp: N/A
Luminaire Lumens: 5366.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 55
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

TEST NUMBER: P1213163

CATALOG NUMBER: 4SNLED-LD5-68SL-UNV-L930-CD1-U

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	96	106	101	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	52	46	59	51	46		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14455	14455	14455
5°	14587	14126	14014
10°	14539	13816	13582
15°	14493	13506	13156
20°	14451	13174	12702
25°	14409	12842	12279
30°	14341	12485	11863
35°	14268	12115	11462
40°	14184	11719	10982
45°	14004	11248	10433
50°	13789	10737	9874
55°	13526	10053	9272
60°	13091	9355	8485
65°	12451	8450	7379
70°	11347	7261	5983
75°	9638	5541	4598
80°	7203	3649	3015
85°	3723	1778	1346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14004 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	3.2
10°-20°	489.6	9.1
20°-30°	749.5	14.0
30°-40°	918.3	17.1
40°-50°	971.2	18.1
50°-60°	896.5	16.7
60°-70°	692.0	12.9
70°-80°	384.1	7.2
80°-90°	95.1	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°	1408.8	26.3
0°-40°	2327.1	43.4
0°-60°	4194.8	78.2
0°-90°	5366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1789	1789	1789	1789	1789	
5°	1803	1780	1785	1781	1784	171
15°	1747	1726	1739	1732	1731	493
25°	1640	1620	1633	1619	1618	756
35°	1478	1462	1475	1459	1467	925
45°	1264	1252	1267	1254	1256	975
55°	1003	995	1006	1006	1011	895
65°	695	688	714	710	697	685
75°	345	365	368	367	354	366
85°	54	80	82	83	77	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1788.8	1788.8	1788.8	1788.8	1788.8
2.5°	1807.5	1784.3	1788.8	1786.1	1780.7
5°	1803.1	1779.8	1785.2	1780.7	1784.3
7.5°	1795.9	1770.9	1779.8	1773.6	1777.2
10°	1781.6	1760.2	1769.1	1762.0	1764.7
12.5°	1766.4	1744.1	1756.6	1747.7	1751.3
15°	1746.8	1726.3	1738.8	1732.5	1730.7
17.5°	1725.4	1705.7	1718.2	1711.1	1708.4
20°	1699.5	1680.7	1692.3	1681.6	1678.9
22.5°	1670.9	1652.1	1665.5	1650.3	1651.2
25°	1639.6	1620.0	1633.4	1619.1	1618.2
27.5°	1603.9	1585.2	1599.4	1584.3	1586.0
30°	1564.6	1545.9	1560.1	1545.0	1546.8
32.5°	1521.7	1506.6	1519.1	1504.8	1514.6
35°	1478.0	1461.9	1475.3	1459.2	1467.3
37.5°	1430.7	1415.5	1429.8	1411.9	1419.0
40°	1379.8	1366.4	1378.9	1362.8	1369.0
42.5°	1320.8	1312.8	1325.3	1309.2	1314.6
45°	1263.7	1252.0	1267.2	1253.8	1255.6
47.5°	1206.5	1194.0	1208.3	1196.7	1195.8
50°	1137.7	1133.3	1146.7	1137.7	1136.8
52.5°	1072.5	1063.6	1077.9	1073.4	1076.1
55°	1002.9	994.9	1006.5	1005.6	1010.9
57.5°	930.6	922.5	937.7	935.9	940.4
60°	853.8	847.5	867.1	862.7	866.3
62.5°	778.7	767.1	792.1	788.6	786.8
65°	694.8	687.6	714.4	710.0	696.6
67.5°	608.2	605.5	633.2	624.2	601.9
70°	521.5	523.3	550.1	533.1	514.4
72.5°	430.4	443.8	459.9	447.4	434.0
75°	344.7	365.3	367.9	367.0	353.6
77.5°	260.8	286.7	280.4	286.7	276.0
80°	182.2	210.8	206.3	211.7	202.7
82.5°	112.5	138.4	139.3	142.9	134.8
85°	54.5	80.4	82.2	83.1	76.8
87.5°	11.6	37.5	38.4	35.7	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)