

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: P1213138

Luminaire Tested: 4SNLED-LD5-60HL-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213138
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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

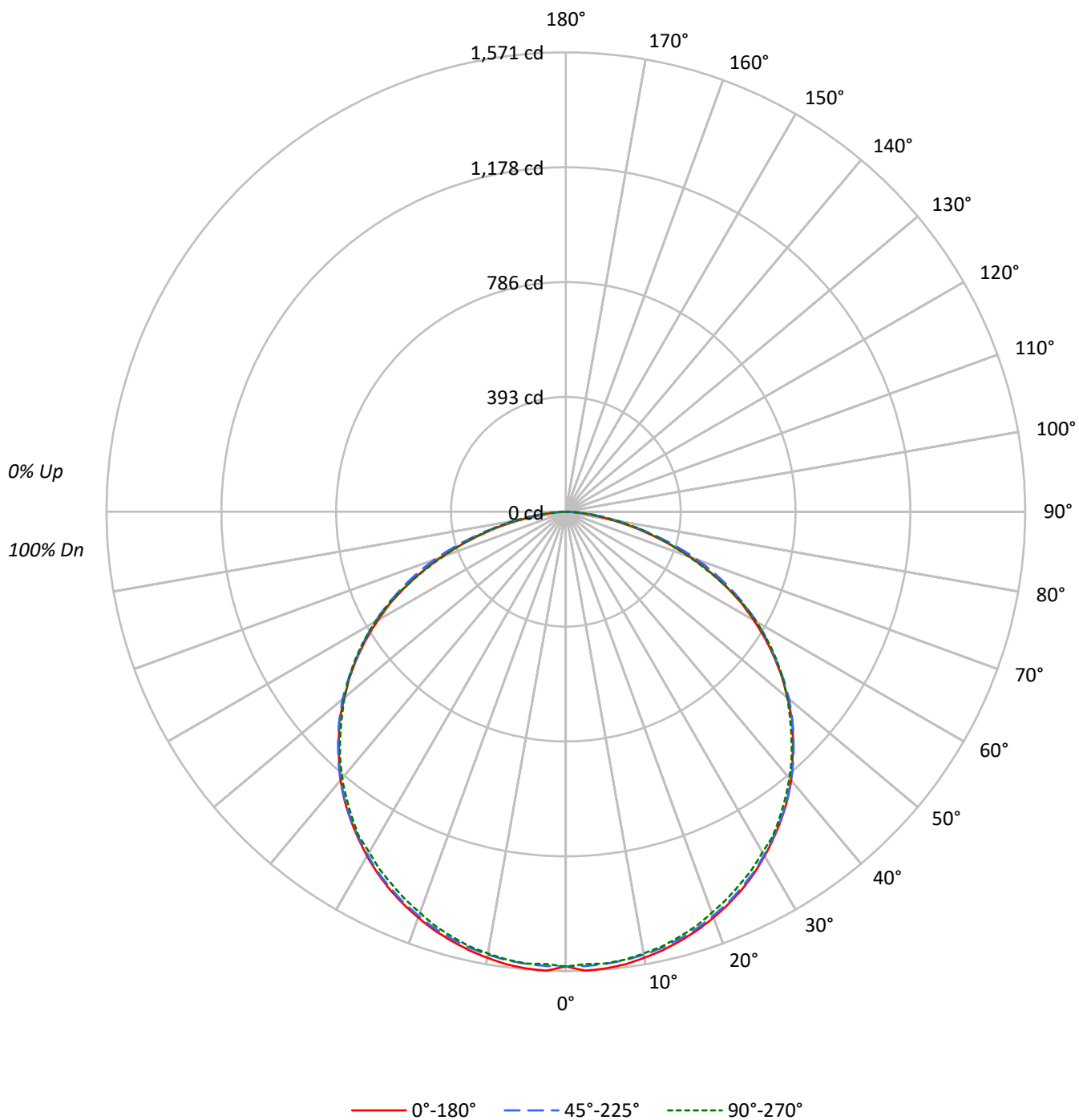
Lumens per Lamp: N/A
Luminaire Lumens: 4664.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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
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°	12564	12564	12564
5°	12678	12278	12181
10°	12637	12009	11805
15°	12597	11739	11435
20°	12560	11451	11041
25°	12524	11162	10673
30°	12465	10852	10310
35°	12401	10530	9962
40°	12328	10186	9546
45°	12171	9776	9069
50°	11986	9332	8583
55°	11757	8737	8059
60°	11378	8132	7374
65°	10822	7345	6413
70°	9863	6311	5200
75°	8377	4817	3998
80°	6258	3172	2621
85°	3231	1544	1171

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	3.2
10°-20°	425.6	9.1
20°-30°	651.4	14.0
30°-40°	798.1	17.1
40°-50°	844.2	18.1
50°-60°	779.2	16.7
60°-70°	601.4	12.9
70°-80°	333.8	7.2
80°-90°	82.7	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°	1224.5	26.3
0°-40°	2022.7	43.4
0°-60°	3646.1	78.2
0°-90°	4664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1567	1547	1552	1548	1551	149
15°	1518	1500	1511	1506	1504	429
25°	1425	1408	1420	1407	1406	657
35°	1285	1271	1282	1268	1275	804
45°	1098	1088	1101	1090	1091	848
55°	872	865	875	874	879	778
65°	604	598	621	617	605	595
75°	300	318	320	319	307	318
85°	47	70	71	72	67	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.8	1554.8	1554.8	1554.8	1554.8
2.5°	1571.1	1550.9	1554.8	1552.4	1547.8
5°	1567.2	1547.0	1551.7	1547.8	1550.9
7.5°	1561.0	1539.2	1547.0	1541.6	1544.7
10°	1548.5	1529.9	1537.7	1531.5	1533.8
12.5°	1535.4	1515.9	1526.8	1519.1	1522.2
15°	1518.3	1500.4	1511.3	1505.9	1504.3
17.5°	1499.6	1482.6	1493.4	1487.2	1484.9
20°	1477.1	1460.8	1470.9	1461.6	1459.3
22.5°	1452.3	1436.0	1447.6	1434.4	1435.2
25°	1425.1	1408.1	1419.7	1407.3	1406.5
27.5°	1394.1	1377.8	1390.2	1377.0	1378.6
30°	1359.9	1343.6	1356.0	1342.8	1344.4
32.5°	1322.7	1309.5	1320.3	1307.9	1316.5
35°	1284.6	1270.7	1282.3	1268.3	1275.3
37.5°	1243.5	1230.3	1242.7	1227.2	1233.4
40°	1199.3	1187.6	1198.5	1184.5	1189.9
42.5°	1148.0	1141.0	1151.9	1137.9	1142.6
45°	1098.3	1088.3	1101.4	1089.8	1091.4
47.5°	1048.7	1037.8	1050.2	1040.1	1039.4
50°	988.9	985.0	996.7	988.9	988.1
52.5°	932.2	924.5	936.9	933.0	935.3
55°	871.7	864.7	874.8	874.0	878.7
57.5°	808.8	801.8	815.0	813.5	817.4
60°	742.1	736.6	753.7	749.8	752.9
62.5°	676.9	666.8	688.5	685.4	683.8
65°	603.9	597.7	621.0	617.1	605.4
67.5°	528.6	526.3	550.3	542.6	523.2
70°	453.3	454.9	478.1	463.4	447.1
72.5°	374.1	385.8	399.8	388.9	377.2
75°	299.6	317.5	319.8	319.0	307.4
77.5°	226.7	249.2	243.7	249.2	239.9
80°	158.3	183.2	179.3	184.0	176.2
82.5°	97.8	120.3	121.1	124.2	117.2
85°	47.3	69.9	71.4	72.2	66.8
87.5°	10.1	32.6	33.4	31.0	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)