

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: P1214191

Luminaire Tested: 4SNLED-LD5-60HL-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214191
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

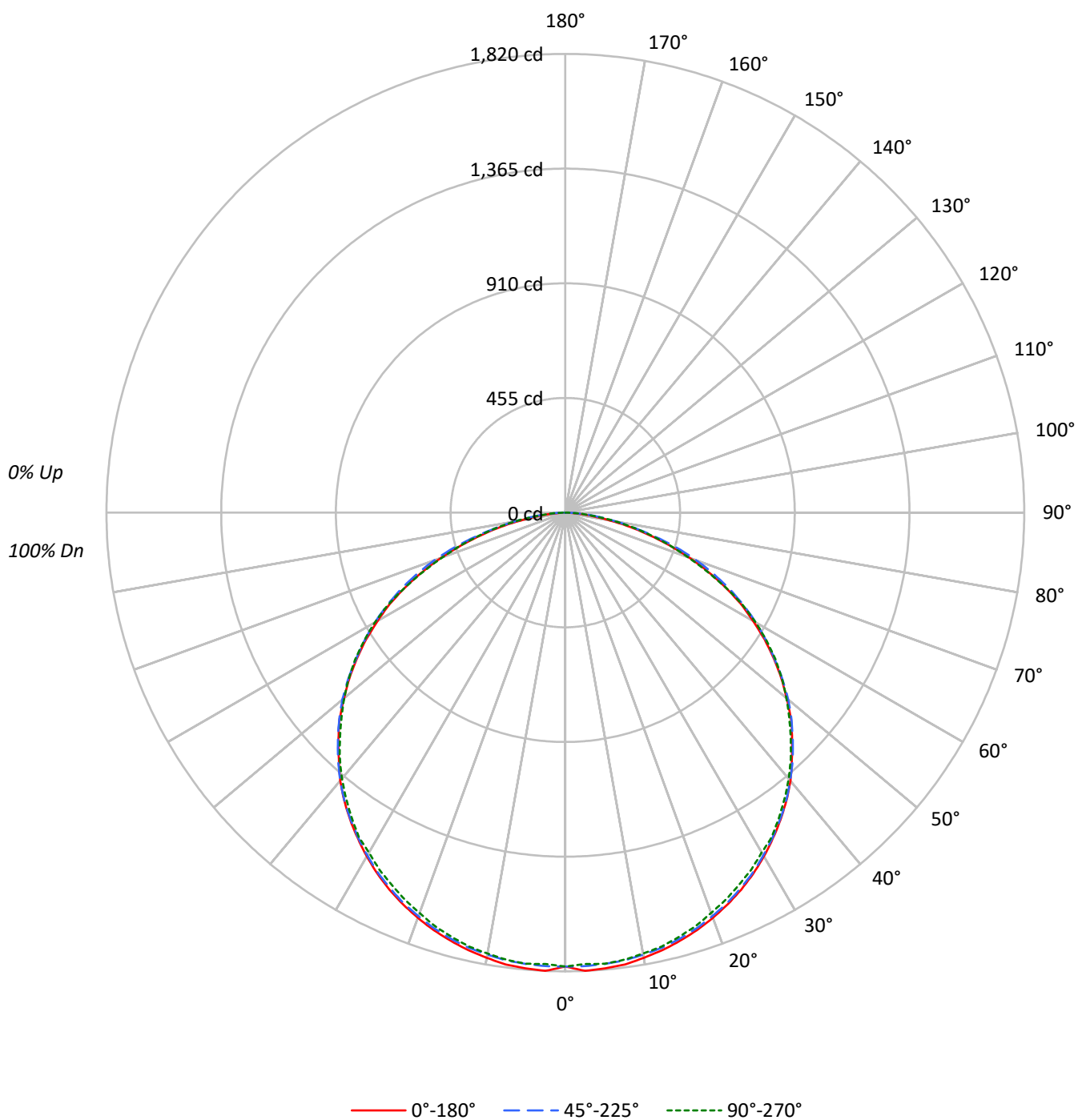
Lumens per Lamp: N/A
Luminaire Lumens: 5402.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	30	10	50	30	10
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°	14552	14552	14552
5°	14685	14221	14108
10°	14637	13909	13672
15°	14590	13596	13244
20°	14548	13263	12788
25°	14506	12928	12362
30°	14437	12569	11942
35°	14364	12196	11539
40°	14278	11797	11056
45°	14097	11323	10503
50°	13883	10809	9941
55°	13616	10119	9334
60°	13178	9419	8541
65°	12535	8507	7428
70°	11424	7310	6023
75°	9703	5579	4630
80°	7250	3674	3036
85°	3744	1789	1355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14097 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	3.2
10°-20°	492.9	9.1
20°-30°	754.5	14.0
30°-40°	924.4	17.1
40°-50°	977.8	18.1
50°-60°	902.5	16.7
60°-70°	696.6	12.9
70°-80°	386.6	7.2
80°-90°	95.8	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°	1418.3	26.3
0°-40°	2342.7	43.4
0°-60°	4223.0	78.2
0°-90°	5402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1801	1801	1801	1801	1801	
5°	1815	1792	1797	1793	1796	173
15°	1758	1738	1750	1744	1742	497
25°	1651	1631	1644	1630	1629	761
35°	1488	1472	1485	1469	1477	931
45°	1272	1260	1276	1262	1264	982
55°	1010	1002	1013	1012	1018	901
65°	700	692	719	715	701	690
75°	347	368	370	370	356	368
85°	55	81	83	84	77	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1800.8	1800.8	1800.8	1800.8	1800.8
2.5°	1819.6	1796.3	1800.8	1798.1	1792.7
5°	1815.2	1791.8	1797.2	1792.7	1796.3
7.5°	1808.0	1782.8	1791.8	1785.5	1789.1
10°	1793.6	1772.0	1781.0	1773.8	1776.5
12.5°	1778.3	1755.8	1768.4	1759.4	1763.0
15°	1758.5	1737.8	1750.4	1744.1	1742.3
17.5°	1736.9	1717.2	1729.7	1722.6	1719.9
20°	1710.9	1692.0	1703.7	1692.9	1690.2
22.5°	1682.1	1663.2	1676.7	1661.4	1662.3
25°	1650.6	1630.9	1644.3	1630.0	1629.1
27.5°	1614.7	1595.8	1610.2	1594.9	1596.7
30°	1575.1	1556.2	1570.6	1555.3	1557.1
32.5°	1532.0	1516.7	1529.3	1514.9	1524.8
35°	1487.9	1471.7	1485.2	1469.0	1477.1
37.5°	1440.3	1425.0	1439.4	1421.4	1428.6
40°	1389.0	1375.5	1388.1	1371.9	1378.2
42.5°	1329.7	1321.6	1334.2	1318.0	1323.4
45°	1272.1	1260.4	1275.7	1262.2	1264.0
47.5°	1214.6	1202.0	1216.4	1204.7	1203.8
50°	1145.4	1140.9	1154.4	1145.4	1144.5
52.5°	1079.7	1070.8	1085.1	1080.6	1083.3
55°	1009.6	1001.5	1013.2	1012.3	1017.7
57.5°	936.8	928.7	944.0	942.2	946.7
60°	859.5	853.2	873.0	868.5	872.1
62.5°	784.0	772.3	797.4	793.8	792.1
65°	699.5	692.3	719.2	714.7	701.2
67.5°	612.2	609.5	637.4	628.4	606.0
70°	525.0	526.8	553.8	536.7	517.8
72.5°	433.3	446.8	463.0	450.4	436.9
75°	347.0	367.7	370.4	369.5	356.0
77.5°	262.5	288.6	282.3	288.6	277.8
80°	183.4	212.2	207.7	213.1	204.1
82.5°	113.3	139.4	140.2	143.8	135.8
85°	54.8	80.9	82.7	83.6	77.3
87.5°	11.7	37.8	38.7	36.0	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)