

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: P1213194

Luminaire Tested: 4SNLED-LD5-90SL-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213194
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-LD5-90SL-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

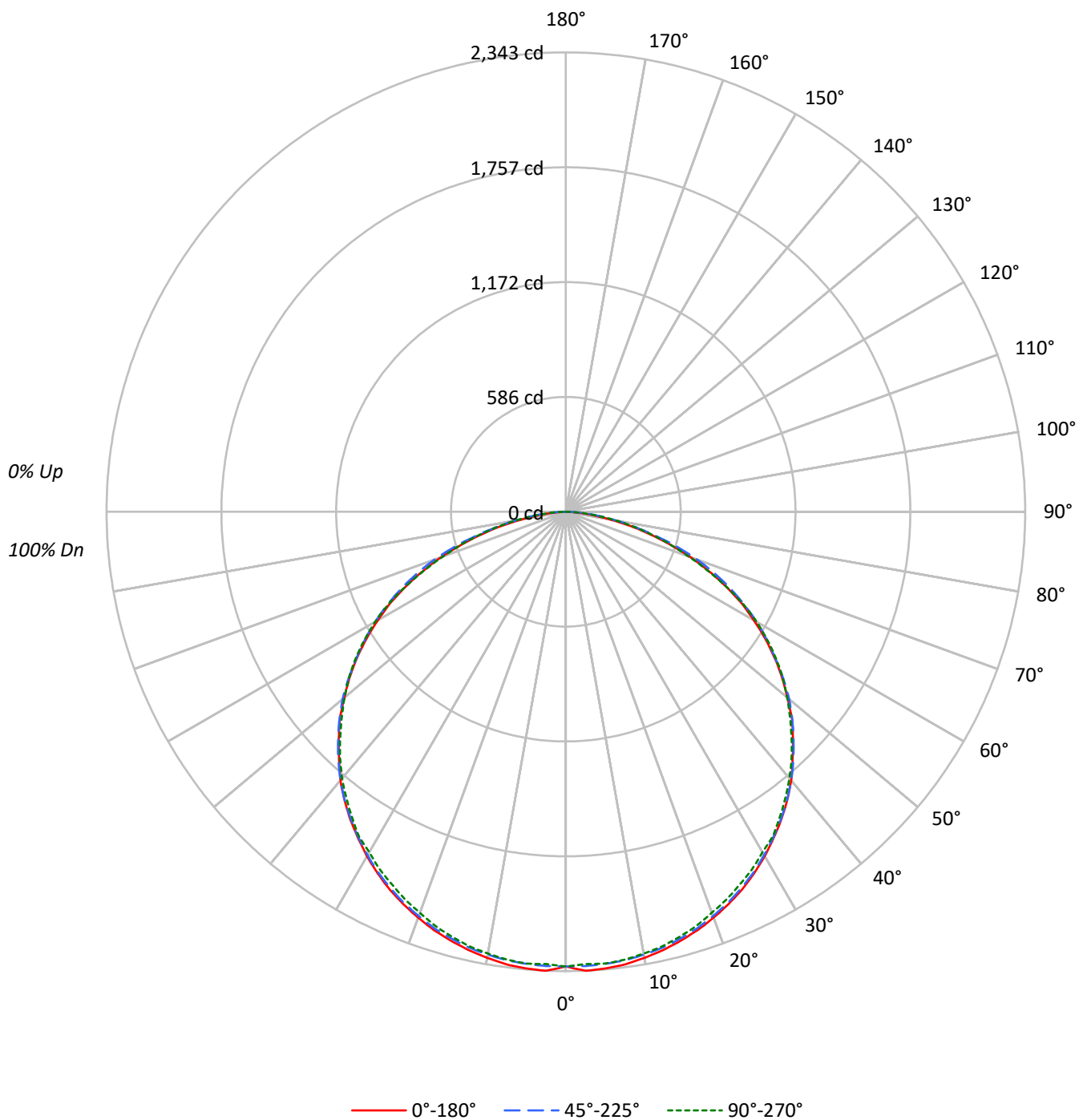
Lumens per Lamp: N/A
Luminaire Lumens: 6957.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 85
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°	18741	18741	18741
5°	18911	18314	18169
10°	18850	17913	17608
15°	18789	17511	17057
20°	18735	17081	16469
25°	18682	16650	15920
30°	18593	16187	15380
35°	18499	15707	14860
40°	18388	15193	14239
45°	18156	14584	13527
50°	17879	13921	12802
55°	17536	13033	12022
60°	16971	12130	11000
65°	16143	10956	9567
70°	14714	9414	7757
75°	12496	7184	5963
80°	9337	4732	3909
85°	4823	2304	1746

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18156 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	3.2
10°-20°	634.8	9.1
20°-30°	971.7	14.0
30°-40°	1190.5	17.1
40°-50°	1259.2	18.1
50°-60°	1162.3	16.7
60°-70°	897.1	12.9
70°-80°	497.9	7.2
80°-90°	123.3	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°	1826.6	26.3
0°-40°	3017.1	43.4
0°-60°	5438.6	78.2
0°-90°	6957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2319	2319	2319	2319	2319	
5°	2338	2308	2314	2309	2313	222
15°	2265	2238	2254	2246	2244	640
25°	2126	2100	2118	2099	2098	980
35°	1916	1895	1913	1892	1902	1199
45°	1638	1623	1643	1626	1628	1264
55°	1300	1290	1305	1304	1311	1161
65°	901	892	926	920	903	888
75°	447	474	477	476	458	474
85°	71	104	106	108	100	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2319.1	2319.1	2319.1	2319.1	2319.1
2.5°	2343.4	2313.3	2319.1	2315.7	2308.7
5°	2337.7	2307.6	2314.5	2308.7	2313.3
7.5°	2328.4	2296.0	2307.6	2299.5	2304.1
10°	2309.9	2282.1	2293.7	2284.4	2287.9
12.5°	2290.2	2261.2	2277.5	2265.9	2270.5
15°	2264.7	2238.1	2254.3	2246.2	2243.9
17.5°	2236.9	2211.5	2227.7	2218.4	2214.9
20°	2203.4	2179.0	2194.1	2180.2	2176.7
22.5°	2166.3	2142.0	2159.4	2139.7	2140.8
25°	2125.8	2100.3	2117.7	2099.1	2098.0
27.5°	2079.5	2055.1	2073.7	2054.0	2056.3
30°	2028.5	2004.2	2022.7	2003.0	2005.4
32.5°	1972.9	1953.3	1969.5	1950.9	1963.7
35°	1916.2	1895.4	1912.7	1891.9	1902.3
37.5°	1854.8	1835.2	1853.7	1830.5	1839.8
40°	1788.8	1771.5	1787.7	1766.8	1775.0
42.5°	1712.4	1702.0	1718.2	1697.4	1704.3
45°	1638.3	1623.3	1643.0	1625.6	1627.9
47.5°	1564.2	1548.0	1566.5	1551.5	1550.3
50°	1475.1	1469.3	1486.7	1475.1	1473.9
52.5°	1390.6	1379.0	1397.5	1391.7	1395.2
55°	1300.2	1289.8	1304.9	1303.7	1310.7
57.5°	1206.5	1196.0	1215.7	1213.4	1219.2
60°	1106.9	1098.8	1124.3	1118.5	1123.1
62.5°	1009.6	994.6	1027.0	1022.4	1020.0
65°	900.8	891.5	926.3	920.5	903.1
67.5°	788.5	785.0	820.9	809.3	780.4
70°	676.2	678.5	713.2	691.2	666.9
72.5°	558.1	575.4	596.3	580.1	562.7
75°	446.9	473.6	477.0	475.9	458.5
77.5°	338.1	371.7	363.6	371.7	357.8
80°	236.2	273.2	267.5	274.4	262.8
82.5°	145.9	179.5	180.6	185.3	174.8
85°	70.6	104.2	106.5	107.7	99.6
87.5°	15.1	48.6	49.8	46.3	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)