

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: P1213896

Luminaire Tested: 4SNLED-LD5-90SL-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213896
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

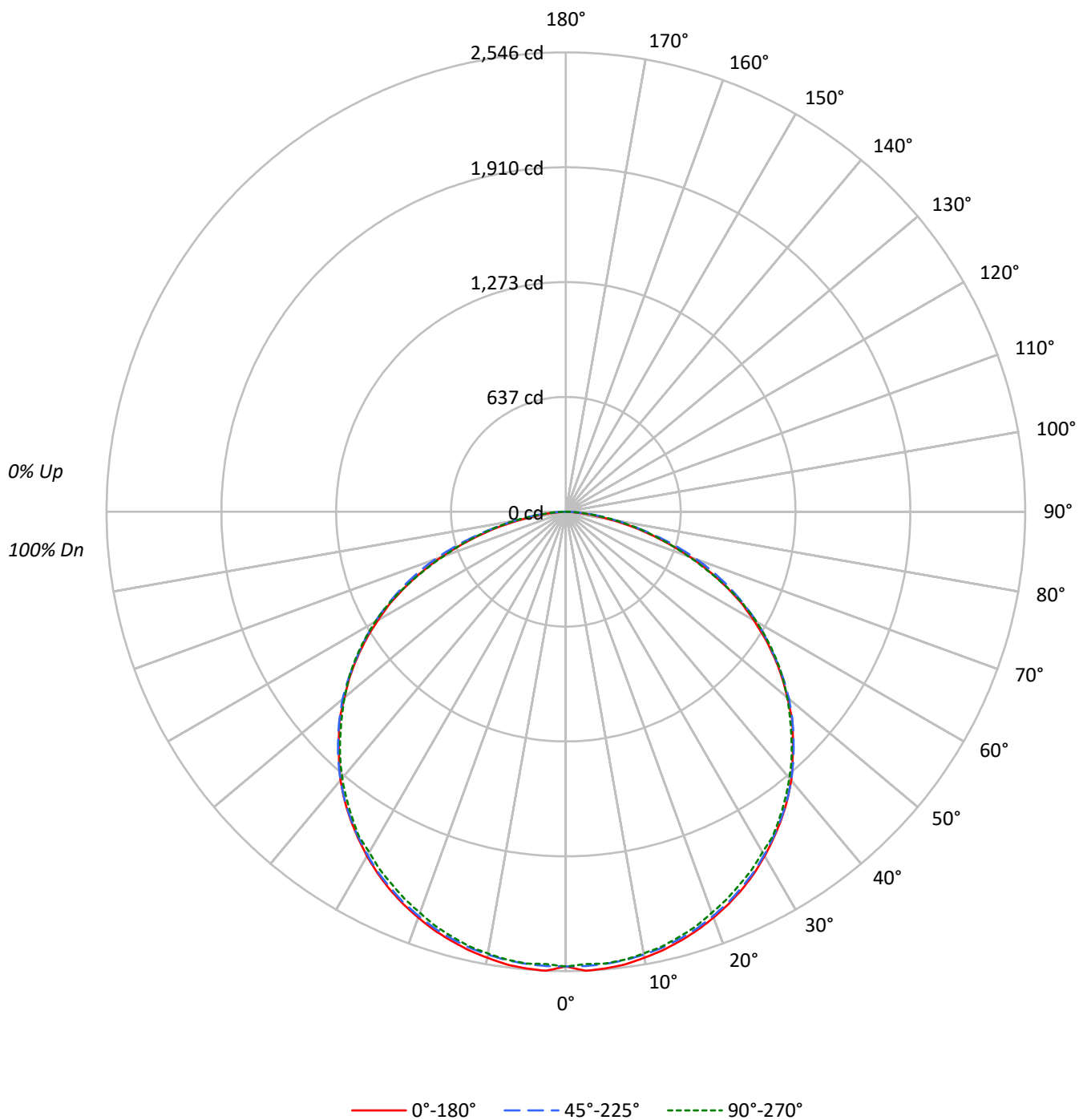
Lumens per Lamp: N/A
Luminaire Lumens: 7559.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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°	20363	20363	20363
5°	20547	19899	19741
10°	20481	19463	19131
15°	20415	19026	18532
20°	20356	18559	17894
25°	20298	18090	17297
30°	20201	17588	16710
35°	20099	17066	16146
40°	19979	16508	15471
45°	19727	15845	14697
50°	19425	15125	13911
55°	19054	14160	13062
60°	18440	13179	11952
65°	17539	11904	10395
70°	15986	10229	8428
75°	13578	7806	6479
80°	10144	5141	4248
85°	5240	2503	1896

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19727 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.2	3.2
10°-20°	689.7	9.1
20°-30°	1055.8	14.0
30°-40°	1293.5	17.1
40°-50°	1368.2	18.1
50°-60°	1262.9	16.7
60°-70°	974.7	12.9
70°-80°	541.0	7.2
80°-90°	134.0	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°	1984.6	26.3
0°-40°	3278.1	43.4
0°-60°	5909.2	78.2
0°-90°	7559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2520	2520	2520	2520	2520	
5°	2540	2507	2515	2508	2514	241
15°	2461	2432	2449	2441	2438	695
25°	2310	2282	2301	2281	2280	1065
35°	2082	2059	2078	2056	2067	1303
45°	1780	1764	1785	1766	1769	1374
55°	1413	1401	1418	1416	1424	1261
65°	979	969	1006	1000	981	965
75°	486	514	518	517	498	515
85°	77	113	116	117	108	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2519.8	2519.8	2519.8	2519.8	2519.8
2.5°	2546.2	2513.5	2519.8	2516.0	2508.5
5°	2539.9	2507.2	2514.8	2508.5	2513.5
7.5°	2529.9	2494.7	2507.2	2498.4	2503.5
10°	2509.7	2479.6	2492.1	2482.1	2485.8
12.5°	2488.4	2456.9	2474.5	2461.9	2467.0
15°	2460.7	2431.8	2449.4	2440.6	2438.0
17.5°	2430.5	2402.8	2420.4	2410.4	2406.6
20°	2394.0	2367.6	2383.9	2368.8	2365.1
22.5°	2353.8	2327.3	2346.2	2324.8	2326.1
25°	2309.7	2282.0	2300.9	2280.8	2279.5
27.5°	2259.4	2233.0	2253.1	2231.7	2234.2
30°	2204.0	2177.6	2197.8	2176.4	2178.9
32.5°	2143.7	2122.3	2139.9	2119.8	2133.6
35°	2082.0	2059.4	2078.2	2055.6	2066.9
37.5°	2015.3	1994.0	2014.1	1988.9	1999.0
40°	1943.6	1924.8	1942.4	1919.7	1928.5
42.5°	1860.6	1849.3	1866.9	1844.3	1851.8
45°	1780.1	1763.7	1785.1	1766.3	1768.8
47.5°	1699.6	1682.0	1702.1	1685.7	1684.5
50°	1602.7	1596.4	1615.3	1602.7	1601.5
52.5°	1510.9	1498.3	1518.4	1512.1	1515.9
55°	1412.8	1401.4	1417.8	1416.5	1424.1
57.5°	1310.9	1299.5	1320.9	1318.4	1324.7
60°	1202.7	1193.9	1221.5	1215.2	1220.3
62.5°	1097.0	1080.6	1115.9	1110.8	1108.3
65°	978.7	968.7	1006.4	1000.1	981.3
67.5°	856.7	852.9	891.9	879.4	847.9
70°	734.7	737.2	774.9	751.0	724.6
72.5°	606.4	625.2	647.9	630.3	611.4
75°	485.6	514.5	518.3	517.0	498.2
77.5°	367.3	403.8	395.0	403.8	388.7
80°	256.6	296.9	290.6	298.2	285.6
82.5°	158.5	195.0	196.3	201.3	190.0
85°	76.7	113.2	115.7	117.0	108.2
87.5°	16.4	52.8	54.1	50.3	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)