

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: P1213888

Luminaire Tested: 4SNLED-LD5-80SL-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213888
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-LD5-80SL-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

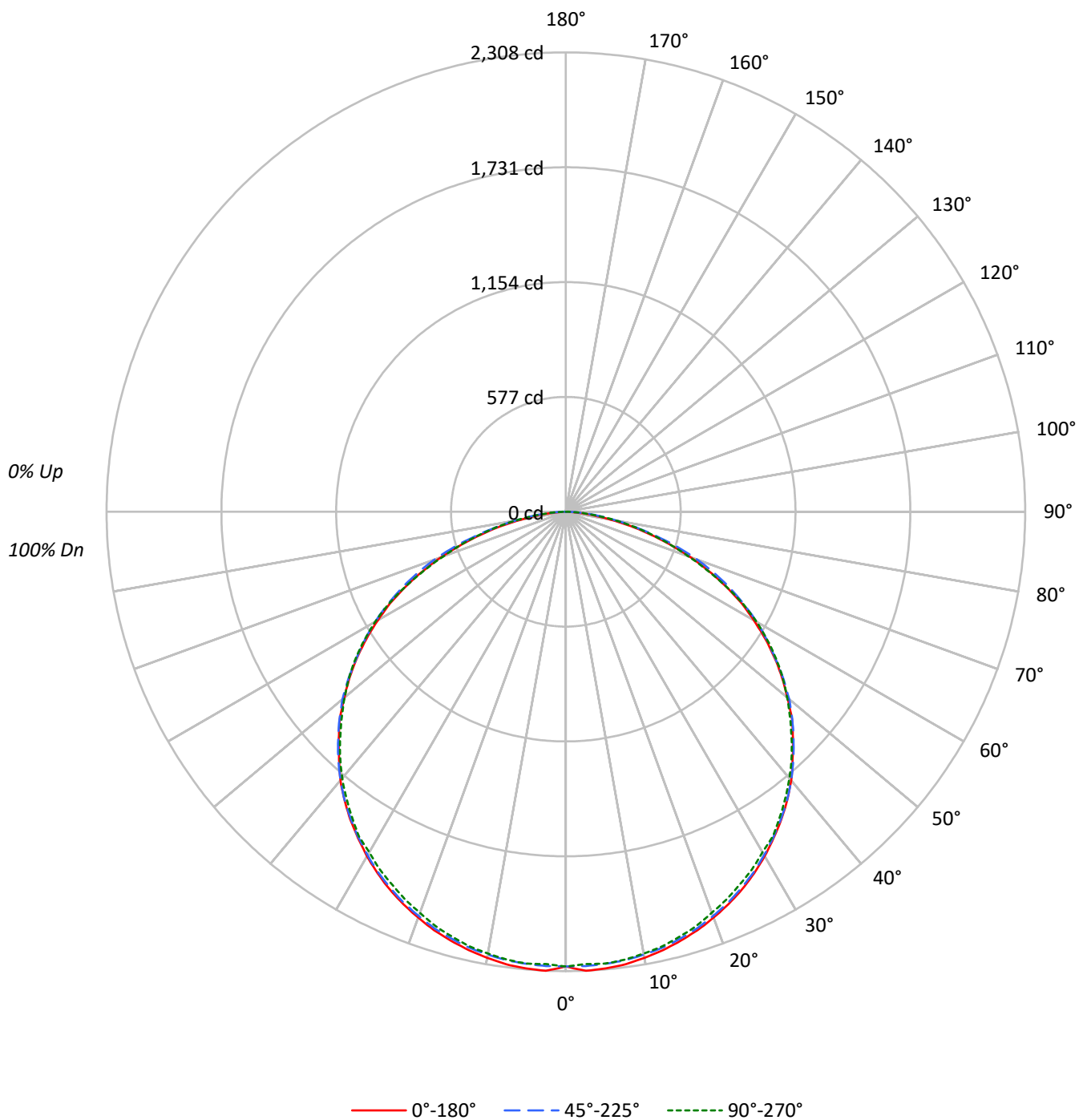
Lumens per Lamp: N/A
Luminaire Lumens: 6853.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 70
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°	18461	18461	18461
5°	18628	18040	17898
10°	18568	17645	17345
15°	18509	17249	16802
20°	18455	16826	16223
25°	18403	16401	15682
30°	18315	15945	15150
35°	18223	15472	14639
40°	18113	14966	14026
45°	17884	14365	13325
50°	17611	13712	12611
55°	17274	12838	11842
60°	16717	11948	10835
65°	15901	10792	9424
70°	14494	9274	7641
75°	12309	7077	5873
80°	9199	4661	3851
85°	4755	2269	1719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17884 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	3.2
10°-20°	625.3	9.1
20°-30°	957.2	14.0
30°-40°	1172.7	17.1
40°-50°	1240.4	18.1
50°-60°	1144.9	16.7
60°-70°	883.7	12.9
70°-80°	490.5	7.2
80°-90°	121.5	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°	1799.3	26.3
0°-40°	2972.0	43.4
0°-60°	5357.3	78.2
0°-90°	6853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2284	2284	2284	2284	2284	
5°	2303	2273	2280	2274	2279	219
15°	2231	2205	2221	2213	2210	630
25°	2094	2069	2086	2068	2067	965
35°	1888	1867	1884	1864	1874	1181
45°	1614	1599	1618	1601	1604	1245
55°	1281	1270	1285	1284	1291	1143
65°	887	878	912	907	890	875
75°	440	466	470	469	452	467
85°	70	103	105	106	98	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2284.5	2284.5	2284.5	2284.5	2284.5
2.5°	2308.4	2278.8	2284.5	2281.0	2274.2
5°	2302.7	2273.1	2279.9	2274.2	2278.8
7.5°	2293.6	2261.7	2273.1	2265.1	2269.6
10°	2275.3	2248.0	2259.4	2250.2	2253.7
12.5°	2256.0	2227.4	2243.4	2232.0	2236.6
15°	2230.9	2204.6	2220.6	2212.6	2210.3
17.5°	2203.5	2178.4	2194.4	2185.2	2181.8
20°	2170.4	2146.5	2161.3	2147.6	2144.2
22.5°	2133.9	2110.0	2127.1	2107.7	2108.8
25°	2094.0	2068.9	2086.0	2067.8	2066.6
27.5°	2048.4	2024.4	2042.7	2023.3	2025.6
30°	1998.2	1974.2	1992.5	1973.1	1975.4
32.5°	1943.4	1924.1	1940.0	1921.8	1934.3
35°	1887.6	1867.0	1884.1	1863.6	1873.9
37.5°	1827.1	1807.7	1826.0	1803.2	1812.3
40°	1762.1	1745.0	1761.0	1740.4	1748.4
42.5°	1686.8	1676.6	1692.5	1672.0	1678.8
45°	1613.8	1599.0	1618.4	1601.3	1603.6
47.5°	1540.8	1524.9	1543.1	1528.3	1527.2
50°	1453.0	1447.3	1464.4	1453.0	1451.9
52.5°	1369.8	1358.4	1376.6	1370.9	1374.3
55°	1280.8	1270.5	1285.4	1284.2	1291.1
57.5°	1188.4	1178.2	1197.5	1195.3	1201.0
60°	1090.3	1082.4	1107.4	1101.7	1106.3
62.5°	994.5	979.7	1011.6	1007.1	1004.8
65°	887.3	878.2	912.4	906.7	889.6
67.5°	776.7	773.3	808.6	797.2	768.7
70°	666.1	668.3	702.6	680.9	656.9
72.5°	549.7	566.8	587.4	571.4	554.3
75°	440.2	466.5	469.9	468.8	451.6
77.5°	333.0	366.1	358.1	366.1	352.4
80°	232.7	269.2	263.5	270.3	258.9
82.5°	143.7	176.8	177.9	182.5	172.2
85°	69.6	102.6	104.9	106.1	98.1
87.5°	14.8	47.9	49.0	45.6	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)