

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: P1213102

Luminaire Tested: 4SNLED-LD5-50SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-50SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

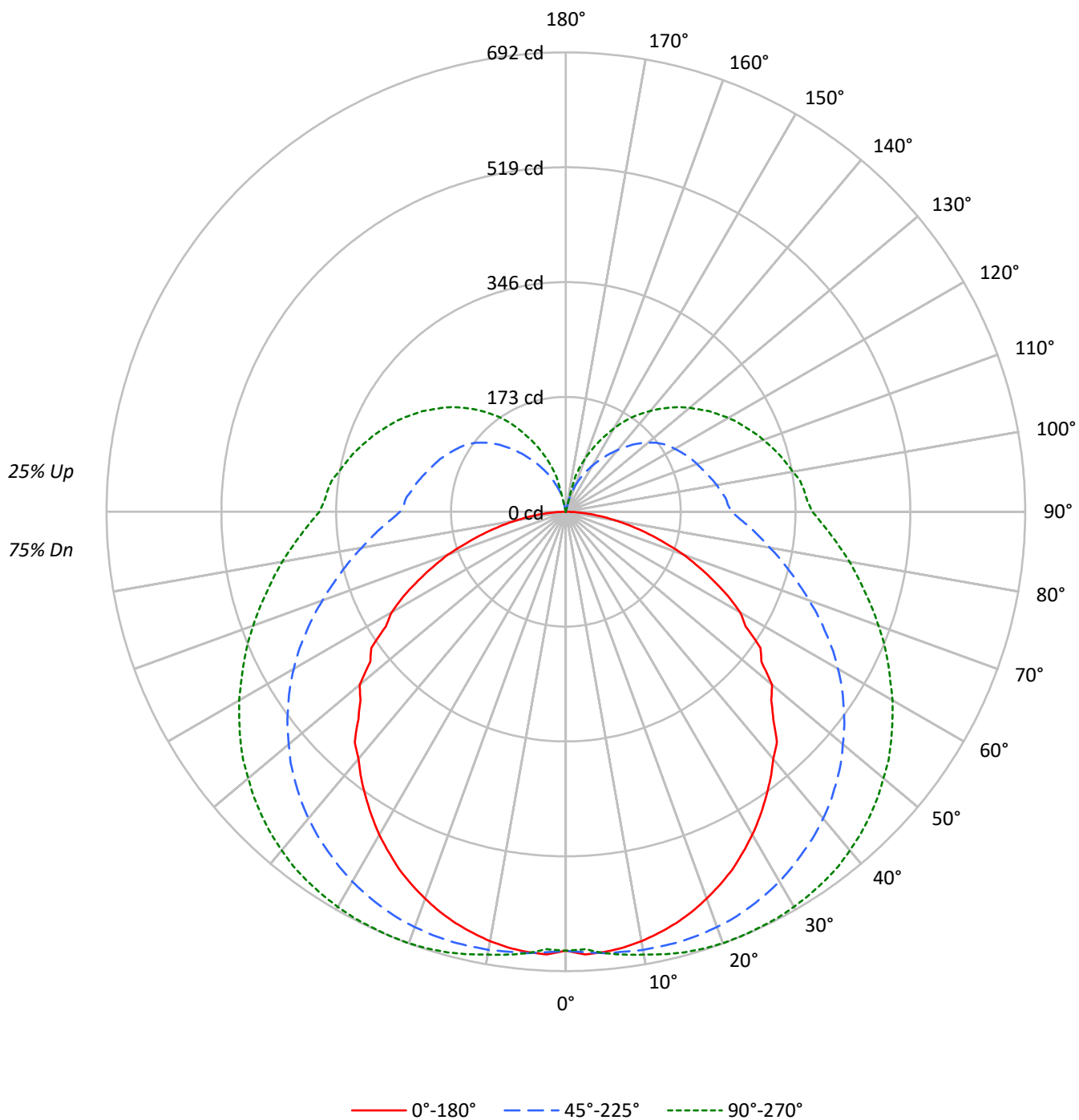
Lumens per Lamp: N/A
Luminaire Lumens: 3808.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 46
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

TEST NUMBER: P1213102

CATALOG NUMBER: 4SNLED-LD5-50SL-SLW-UNV-L930-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213102

CATALOG NUMBER: 4SNLED-LD5-50SL-SLW-UNV-L930-CD1-U

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
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5344	5344	5344
5°	5385	5282	5243
10°	5360	5234	5213
15°	5323	5206	5224
20°	5273	5182	5233
25°	5222	5164	5242
30°	5150	5149	5270
35°	5071	5129	5306
40°	4995	5126	5340
45°	4898	5115	5383
50°	4914	5102	5425
55°	4827	5103	5490
60°	4650	5108	5565
65°	4394	5112	5669
70°	4108	5149	5829
75°	3604	5270	6063
80°	3044	5525	6455
85°	2261	6039	7026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 7993 cd/sqm

TEST NUMBER: P1213102

CATALOG NUMBER: 4SNLED-LD5-50SL-SLW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	1.7
10°-20°	188.4	4.9
20°-30°	299.4	7.9
30°-40°	384.3	10.1
40°-50°	433.9	11.4
50°-60°	442.8	11.6
60°-70°	410.2	10.8
70°-80°	347.3	9.1
80°-90°	277.2	7.3
90°-100°	235.4	6.2
100°-110°	209.7	5.5
110°-120°	178.6	4.7
120°-130°	141.9	3.7
130°-140°	100.6	2.6
140°-150°	60.1	1.6
150°-160°	28.0	0.7
160°-170°	6.6	0.2
170°-180°	0.0	0.0
0°-30°	551.3	14.5
0°-40°	935.6	24.6
0°-60°	1812.3	47.6
0°-90°	2847.0	74.8
90°-120°	623.7	16.4
90°-150°	926.4	24.3
90°-180°	961.0	25.2
0°-180°	3808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	666	660	668	668	668	63
15°	642	647	670	683	687	181
25°	594	614	657	680	691	274
35°	525	564	625	663	679	329
45°	442	502	576	626	648	343
55°	358	418	511	574	599	314
65°	245	327	432	506	535	243
75°	129	228	350	436	466	137
85°	33	147	279	370	401	36
90°	2	120	250	340	371	3
95°	0	113	242	330	361	0
105°	0	104	220	303	333	0
115°	0	97	200	273	300	0
125°	0	83	178	241	264	0
135°	0	62	143	203	222	0
145°	0	40	100	152	174	0
155°	1	25	62	93	115	0
165°	1	13	28	38	55	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213102

CATALOG NUMBER: 4SNLED-LD5-50SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	661.3	661.3	661.3	661.3	661.3
2.5°	667.5	660.4	664.0	663.1	659.5
5°	665.7	660.4	667.5	667.5	667.5
7.5°	662.2	658.6	668.4	672.0	672.9
10°	656.8	656.8	670.2	675.6	677.4
12.5°	649.6	652.3	670.2	678.3	682.7
15°	641.6	647.0	670.2	682.7	687.2
17.5°	631.7	640.7	668.4	683.6	689.9
20°	620.1	633.5	665.7	683.6	691.7
22.5°	607.6	624.6	662.2	681.9	691.7
25°	594.2	613.8	656.8	680.1	690.8
27.5°	578.1	603.1	650.5	677.4	689.9
30°	561.9	590.6	643.4	673.8	687.2
32.5°	544.0	577.2	634.4	668.4	683.6
35°	525.3	563.7	624.6	663.1	679.2
37.5°	506.5	547.6	614.7	655.9	673.8
40°	485.9	531.5	603.1	647.0	665.7
42.5°	470.7	514.5	590.6	638.0	657.7
45°	442.0	502.0	576.3	626.4	647.8
47.5°	419.7	477.8	561.9	614.7	637.1
50°	405.4	458.1	544.9	601.3	624.6
52.5°	371.3	444.7	528.8	587.9	613.0
55°	357.9	417.9	510.9	573.6	598.6
57.5°	321.2	399.1	493.0	557.5	583.4
60°	303.3	373.1	473.4	541.4	568.2
62.5°	275.6	350.8	453.7	523.5	551.2
65°	245.2	326.6	432.2	506.5	535.1
67.5°	216.5	302.4	411.6	488.6	519.0
70°	188.8	277.4	390.1	470.7	501.1
72.5°	156.6	252.3	369.6	453.7	484.1
75°	128.9	228.2	349.9	435.8	466.2
77.5°	102.0	204.9	331.1	419.7	450.1
80°	77.0	182.5	312.3	402.7	434.0
82.5°	53.7	163.8	295.3	386.6	417.0
85°	33.1	146.8	279.2	369.6	400.9
87.5°	15.2	131.5	263.1	353.5	385.7
90°	1.8	119.9	249.7	340.0	371.3
92.5°	0.9	116.3	244.3	333.8	364.2
95°	0.0	112.7	241.6	330.2	360.6
97.5°	0.0	109.2	235.3	324.8	356.1
100°	0.0	107.4	230.9	316.8	347.2
102.5°	0.0	104.7	225.5	309.6	340.0
105°	0.0	103.8	220.1	303.3	332.9
107.5°	0.0	102.0	214.8	295.3	324.8
110°	0.0	100.2	210.3	288.1	316.8

TEST NUMBER: P1213102

CATALOG NUMBER: 4SNLED-LD5-50SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	98.4	205.8	281.0	308.7
115°	0.0	96.6	200.4	272.9	299.8
117.5°	0.0	94.0	195.1	264.9	291.7
120°	0.0	90.4	189.7	257.7	282.8
122.5°	0.0	86.8	184.3	248.8	272.9
125°	0.0	83.2	178.1	240.7	264.0
127.5°	0.0	77.8	170.9	231.8	253.2
130°	0.0	72.5	162.0	222.8	243.4
132.5°	0.9	67.1	153.0	213.0	233.5
135°	0.0	61.7	143.2	203.1	221.9
137.5°	0.0	57.3	132.4	192.4	210.3
140°	0.0	51.9	121.7	179.9	198.6
142.5°	0.0	45.6	111.0	166.4	186.1
145°	0.0	40.3	100.2	152.1	173.6
147.5°	0.9	35.8	90.4	136.9	160.2
150°	0.9	32.2	80.5	121.7	145.0
152.5°	0.9	28.6	70.7	107.4	129.7
155°	0.9	25.1	61.7	93.1	115.4
157.5°	0.9	21.5	51.9	78.7	100.2
160°	0.9	18.8	43.0	66.2	85.9
162.5°	0.9	16.1	34.9	51.9	70.7
165°	0.9	13.4	27.7	38.5	54.6
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)