

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: P1213087

Luminaire Tested: 4SNLED-LD5-47SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213087
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-LD5-47SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

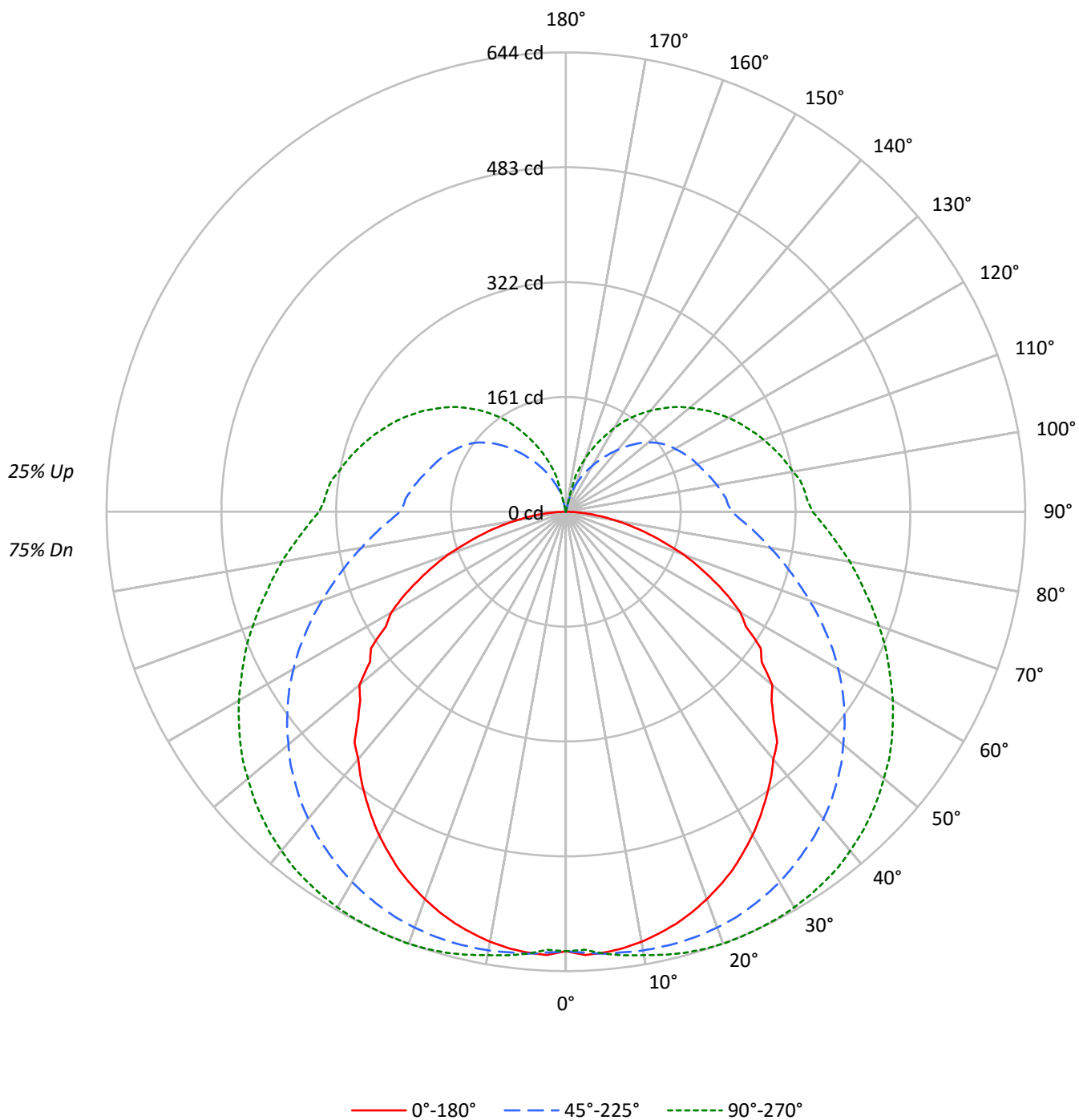
Lumens per Lamp: N/A
Luminaire Lumens: 3548.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 41
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: P1213087

CATALOG NUMBER: 4SNLED-LD5-47SL-SLW-UNV-L930-CD1-U

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
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°	4979	4979	4979
5°	5018	4922	4885
10°	4994	4877	4857
15°	4960	4851	4867
20°	4913	4829	4876
25°	4865	4812	4884
30°	4799	4797	4911
35°	4725	4778	4943
40°	4654	4775	4976
45°	4565	4766	5015
50°	4578	4754	5054
55°	4498	4755	5116
60°	4333	4758	5185
65°	4093	4763	5282
70°	3827	4798	5431
75°	3358	4910	5649
80°	2834	5148	6015
85°	2104	5626	6546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 7449 cd/sqm

TEST NUMBER: P1213087

CATALOG NUMBER: 4SNLED-LD5-47SL-SLW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	1.7
10°-20°	175.5	4.9
20°-30°	279.0	7.9
30°-40°	358.0	10.1
40°-50°	404.3	11.4
50°-60°	412.5	11.6
60°-70°	382.2	10.8
70°-80°	323.6	9.1
80°-90°	258.3	7.3
90°-100°	219.3	6.2
100°-110°	195.4	5.5
110°-120°	166.4	4.7
120°-130°	132.2	3.7
130°-140°	93.8	2.6
140°-150°	56.0	1.6
150°-160°	26.1	0.7
160°-170°	6.2	0.2
170°-180°	0.0	0.0
0°-30°	513.7	14.5
0°-40°	871.7	24.6
0°-60°	1688.6	47.6
0°-90°	2652.6	74.8
90°-120°	581.1	16.4
90°-150°	863.1	24.3
90°-180°	895.0	25.2
0°-180°	3548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	620	615	622	622	622	59
15°	598	603	624	636	640	169
25°	554	572	612	634	644	255
35°	489	525	582	618	633	306
45°	412	468	537	584	604	320
55°	334	389	476	534	558	293
65°	228	304	403	472	499	227
75°	120	213	326	406	434	128
85°	31	137	260	344	374	34
90°	2	112	233	317	346	3
95°	0	105	225	308	336	0
105°	0	97	205	283	310	0
115°	0	90	187	254	279	0
125°	0	78	166	224	246	0
135°	0	58	133	189	207	0
145°	0	38	93	142	162	0
155°	1	23	58	87	108	0
165°	1	12	26	36	51	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213087

CATALOG NUMBER: 4SNLED-LD5-47SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	616.1	616.1	616.1	616.1	616.1
2.5°	622.0	615.3	618.6	617.8	614.5
5°	620.3	615.3	622.0	622.0	622.0
7.5°	617.0	613.6	622.8	626.1	627.0
10°	612.0	612.0	624.5	629.5	631.1
12.5°	605.3	607.8	624.5	632.0	636.1
15°	597.8	602.8	624.5	636.1	640.3
17.5°	588.6	596.9	622.8	637.0	642.8
20°	577.8	590.3	620.3	637.0	644.5
22.5°	566.1	581.9	617.0	635.3	644.5
25°	553.6	571.9	612.0	633.6	643.6
27.5°	538.6	561.9	606.1	631.1	642.8
30°	523.6	550.3	599.4	627.8	640.3
32.5°	506.9	537.8	591.1	622.8	637.0
35°	489.4	525.2	581.9	617.8	632.8
37.5°	471.9	510.2	572.8	611.1	627.8
40°	452.7	495.2	561.9	602.8	620.3
42.5°	438.5	479.4	550.3	594.4	612.8
45°	411.9	467.7	536.9	583.6	603.6
47.5°	391.0	445.2	523.6	572.8	593.6
50°	377.7	426.9	507.7	560.3	581.9
52.5°	346.0	414.4	492.7	547.8	571.1
55°	333.5	389.3	476.1	534.4	557.8
57.5°	299.3	371.8	459.4	519.4	543.6
60°	282.6	347.7	441.0	504.4	529.4
62.5°	256.8	326.8	422.7	487.7	513.6
65°	228.4	304.3	402.7	471.9	498.6
67.5°	201.8	281.8	383.5	455.2	483.6
70°	175.9	258.5	363.5	438.5	466.9
72.5°	145.9	235.1	344.3	422.7	451.0
75°	120.1	212.6	326.0	406.0	434.4
77.5°	95.0	190.9	308.5	391.0	419.4
80°	71.7	170.1	291.0	375.2	404.4
82.5°	50.0	152.6	275.1	360.2	388.5
85°	30.8	136.7	260.1	344.3	373.5
87.5°	14.2	122.6	245.1	329.3	359.3
90°	1.7	111.7	232.6	316.8	346.0
92.5°	0.8	108.4	227.6	311.0	339.3
95°	0.0	105.0	225.1	307.6	336.0
97.5°	0.0	101.7	219.3	302.6	331.8
100°	0.0	100.0	215.1	295.1	323.5
102.5°	0.0	97.5	210.1	288.5	316.8
105°	0.0	96.7	205.1	282.6	310.1
107.5°	0.0	95.0	200.1	275.1	302.6
110°	0.0	93.4	195.9	268.5	295.1



TEST NUMBER: P1213087

CATALOG NUMBER: 4SNLED-LD5-47SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	91.7	191.8	261.8	287.6
115°	0.0	90.0	186.8	254.3	279.3
117.5°	0.0	87.5	181.8	246.8	271.8
120°	0.0	84.2	176.7	240.1	263.5
122.5°	0.0	80.9	171.7	231.8	254.3
125°	0.0	77.5	165.9	224.3	245.9
127.5°	0.0	72.5	159.2	215.9	235.9
130°	0.0	67.5	150.9	207.6	226.8
132.5°	0.8	62.5	142.6	198.4	217.6
135°	0.0	57.5	133.4	189.3	206.8
137.5°	0.0	53.4	123.4	179.3	195.9
140°	0.0	48.4	113.4	167.6	185.1
142.5°	0.0	42.5	103.4	155.1	173.4
145°	0.0	37.5	93.4	141.7	161.7
147.5°	0.8	33.3	84.2	127.6	149.2
150°	0.8	30.0	75.0	113.4	135.1
152.5°	0.8	26.7	65.9	100.0	120.9
155°	0.8	23.3	57.5	86.7	107.6
157.5°	0.8	20.0	48.4	73.4	93.4
160°	0.8	17.5	40.0	61.7	80.0
162.5°	0.8	15.0	32.5	48.4	65.9
165°	0.8	12.5	25.8	35.9	50.9
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)