

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: P1213779

Luminaire Tested: 4SNLED-LD5-44SL-SLW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213779
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-LD5-44SL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

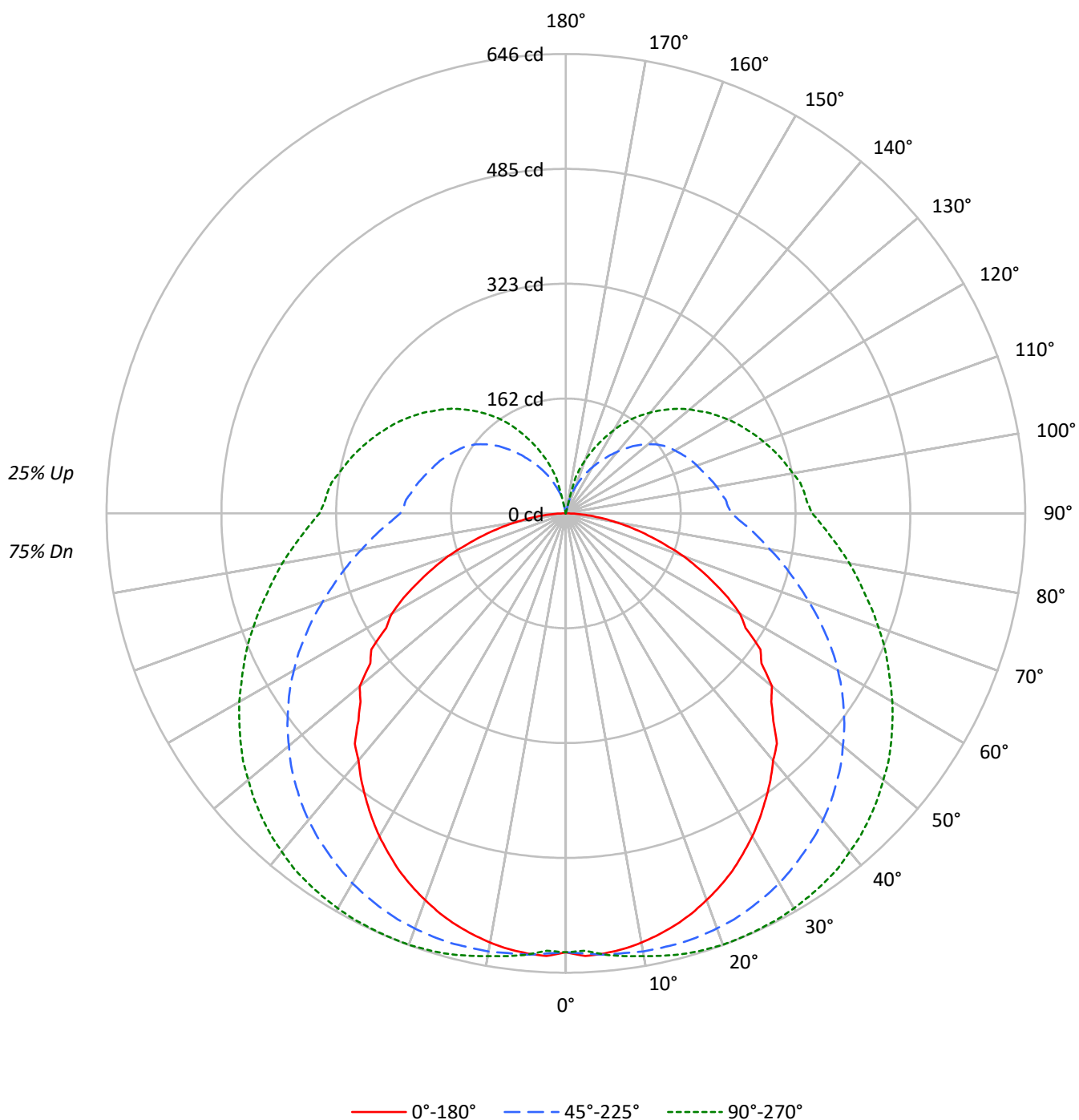
Lumens per Lamp: N/A
Luminaire Lumens: 3554.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 38
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	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°	4988	4988	4988
5°	5026	4930	4893
10°	5003	4885	4866
15°	4968	4859	4876
20°	4921	4837	4885
25°	4873	4820	4892
30°	4807	4806	4919
35°	4732	4787	4952
40°	4662	4784	4984
45°	4572	4774	5024
50°	4585	4762	5063
55°	4506	4763	5124
60°	4341	4767	5194
65°	4100	4771	5290
70°	3834	4806	5440
75°	3364	4917	5658
80°	2838	5157	6024
85°	2111	5637	6556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 7462 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.7
10°-20°	175.8	4.9
20°-30°	279.4	7.9
30°-40°	358.6	10.1
40°-50°	405.0	11.4
50°-60°	413.2	11.6
60°-70°	382.8	10.8
70°-80°	324.1	9.1
80°-90°	258.7	7.3
90°-100°	219.7	6.2
100°-110°	195.7	5.5
110°-120°	166.7	4.7
120°-130°	132.4	3.7
130°-140°	93.9	2.6
140°-150°	56.1	1.6
150°-160°	26.1	0.7
160°-170°	6.2	0.2
170°-180°	0.0	0.0
0°-30°	514.6	14.5
0°-40°	873.2	24.6
0°-60°	1691.4	47.6
0°-90°	2657.1	74.8
90°-120°	582.1	16.4
90°-150°	864.6	24.3
90°-180°	897.0	25.2
0°-180°	3554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	621	616	623	623	623	59
15°	599	604	626	637	641	169
25°	554	573	613	635	645	255
35°	490	526	583	619	634	307
45°	413	468	538	585	605	320
55°	334	390	477	535	559	293
65°	229	305	403	473	499	227
75°	120	213	326	407	435	128
85°	31	137	261	345	374	34
90°	2	112	233	317	347	3
95°	0	105	226	308	337	0
105°	0	97	205	283	311	0
115°	0	90	187	255	280	0
125°	0	78	166	225	246	0
135°	0	58	134	190	207	0
145°	0	38	94	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

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	617.2	617.2	617.2	617.2	617.2
2.5°	623.0	616.3	619.7	618.8	615.5
5°	621.3	616.3	623.0	623.0	623.0
7.5°	618.0	614.7	623.8	627.2	628.0
10°	613.0	613.0	625.5	630.5	632.2
12.5°	606.3	608.8	625.5	633.0	637.2
15°	598.8	603.8	625.5	637.2	641.4
17.5°	589.6	598.0	623.8	638.0	643.9
20°	578.7	591.3	621.3	638.0	645.6
22.5°	567.1	582.9	618.0	636.4	645.6
25°	554.5	572.9	613.0	634.7	644.7
27.5°	539.5	562.9	607.1	632.2	643.9
30°	524.5	551.2	600.5	628.9	641.4
32.5°	507.8	538.7	592.1	623.8	638.0
35°	490.2	526.1	582.9	618.8	633.9
37.5°	472.7	511.1	573.7	612.2	628.9
40°	453.5	496.1	562.9	603.8	621.3
42.5°	439.3	480.2	551.2	595.4	613.8
45°	412.6	468.5	537.8	584.6	604.6
47.5°	391.7	446.0	524.5	573.7	594.6
50°	378.3	427.6	508.6	561.2	582.9
52.5°	346.6	415.1	493.6	548.7	572.1
55°	334.1	390.0	476.9	535.3	558.7
57.5°	299.8	372.5	460.2	520.3	544.5
60°	283.1	348.3	441.8	505.3	530.3
62.5°	257.2	327.4	423.4	488.6	514.4
65°	228.8	304.8	403.4	472.7	499.4
67.5°	202.1	282.3	384.2	456.0	484.4
70°	176.2	258.9	364.1	439.3	467.7
72.5°	146.1	235.5	344.9	423.4	451.8
75°	120.3	213.0	326.5	406.7	435.1
77.5°	95.2	191.2	309.0	391.7	420.1
80°	71.8	170.4	291.5	375.8	405.0
82.5°	50.1	152.8	275.6	360.8	389.2
85°	30.9	137.0	260.6	344.9	374.1
87.5°	14.2	122.8	245.5	329.9	359.9
90°	1.7	111.9	233.0	317.4	346.6
92.5°	0.8	108.6	228.0	311.5	339.9
95°	0.0	105.2	225.5	308.2	336.6
97.5°	0.0	101.9	219.6	303.2	332.4
100°	0.0	100.2	215.5	295.6	324.0
102.5°	0.0	97.7	210.5	289.0	317.4
105°	0.0	96.9	205.4	283.1	310.7
107.5°	0.0	95.2	200.4	275.6	303.2
110°	0.0	93.5	196.3	268.9	295.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	91.9	192.1	262.2	288.1
115°	0.0	90.2	187.1	254.7	279.8
117.5°	0.0	87.7	182.1	247.2	272.3
120°	0.0	84.3	177.0	240.5	263.9
122.5°	0.0	81.0	172.0	232.2	254.7
125°	0.0	77.7	166.2	224.7	246.4
127.5°	0.0	72.7	159.5	216.3	236.3
130°	0.0	67.6	151.2	207.9	227.2
132.5°	0.8	62.6	142.8	198.8	218.0
135°	0.0	57.6	133.6	189.6	207.1
137.5°	0.0	53.4	123.6	179.6	196.3
140°	0.0	48.4	113.6	167.9	185.4
142.5°	0.0	42.6	103.6	155.3	173.7
145°	0.0	37.6	93.5	142.0	162.0
147.5°	0.8	33.4	84.3	127.8	149.5
150°	0.8	30.1	75.2	113.6	135.3
152.5°	0.8	26.7	66.0	100.2	121.1
155°	0.8	23.4	57.6	86.9	107.7
157.5°	0.8	20.0	48.4	73.5	93.5
160°	0.8	17.5	40.1	61.8	80.2
162.5°	0.8	15.0	32.6	48.4	66.0
165°	0.8	12.5	25.9	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)