

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: P1213062

Luminaire Tested: 4SNLED-LD5-37SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213062
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-LD5-37SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

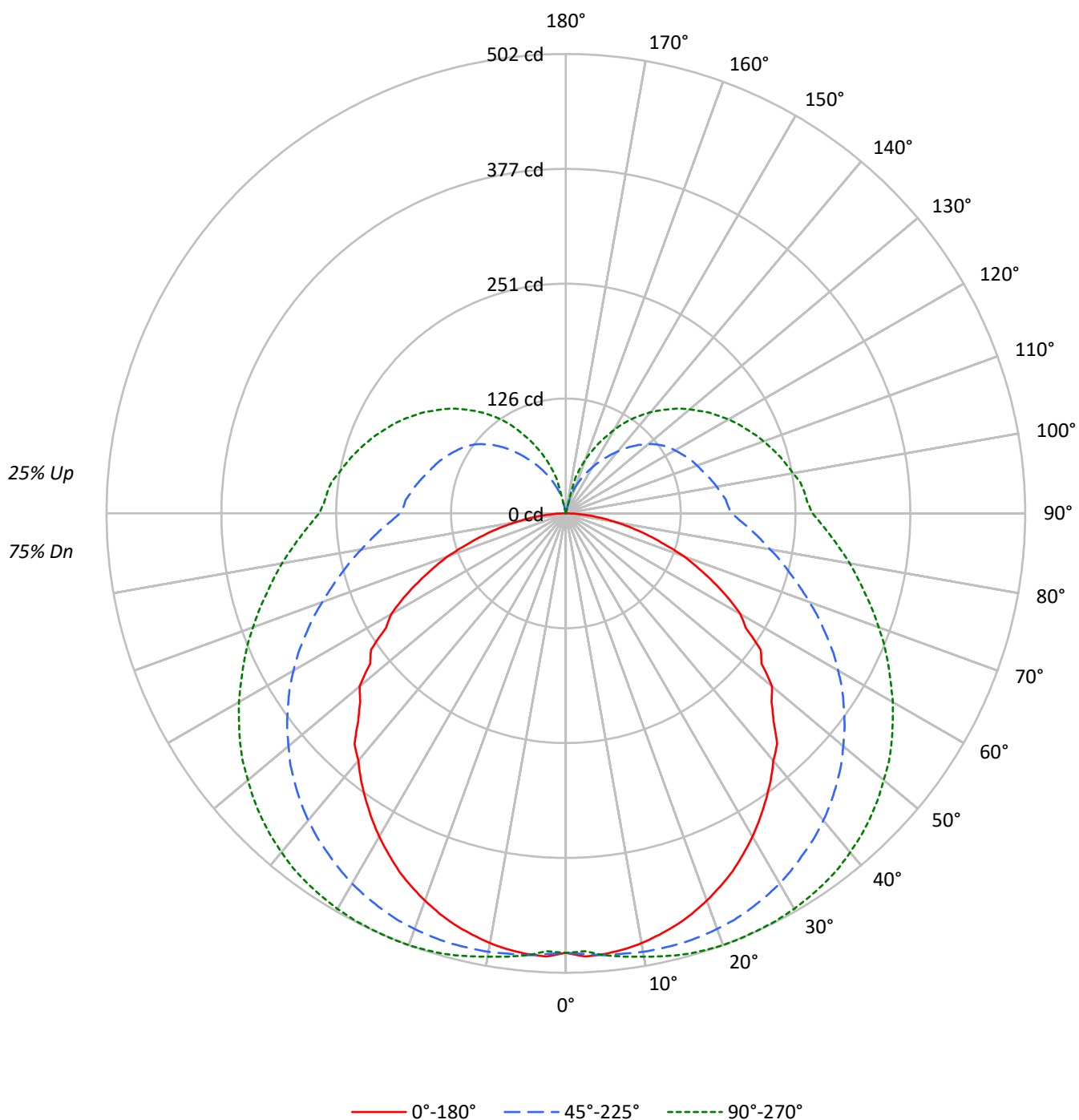
Lumens per Lamp: N/A
Luminaire Lumens: 2765.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 31
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			0
RW	70	50	30	10	70	50	30	10	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	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3881	3881	3881
5°	3911	3835	3807
10°	3892	3800	3785
15°	3865	3780	3793
20°	3829	3763	3800
25°	3791	3750	3806
30°	3740	3739	3827
35°	3682	3724	3852
40°	3627	3722	3878
45°	3557	3714	3909
50°	3567	3705	3939
55°	3505	3705	3987
60°	3378	3708	4041
65°	3190	3712	4116
70°	2983	3740	4232
75°	2617	3826	4402
80°	2210	4012	4687
85°	1640	4385	5102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 5804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	1.7
10°-20°	136.8	4.9
20°-30°	217.4	7.9
30°-40°	279.0	10.1
40°-50°	315.1	11.4
50°-60°	321.5	11.6
60°-70°	297.8	10.8
70°-80°	252.2	9.1
80°-90°	201.3	7.3
90°-100°	170.9	6.2
100°-110°	152.3	5.5
110°-120°	129.7	4.7
120°-130°	103.0	3.7
130°-140°	73.1	2.6
140°-150°	43.6	1.6
150°-160°	20.3	0.7
160°-170°	4.8	0.2
170°-180°	0.0	0.0
0°-30°	400.3	14.5
0°-40°	679.3	24.6
0°-60°	1315.9	47.6
0°-90°	2067.2	74.8
90°-120°	452.9	16.4
90°-150°	672.6	24.3
90°-180°	698.0	25.2
0°-180°	2765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	480	480	480	480	480	
5°	483	480	485	485	485	46
15°	466	470	487	496	499	131
25°	431	446	477	494	502	199
35°	381	409	454	481	493	239
45°	321	364	418	455	470	249
55°	260	303	371	416	435	228
65°	178	237	314	368	388	177
75°	94	166	254	316	338	100
85°	24	107	203	268	291	26
90°	1	87	181	247	270	2
95°	0	82	175	240	262	0
105°	0	75	160	220	242	0
115°	0	70	146	198	218	0
125°	0	60	129	175	192	0
135°	0	45	104	148	161	0
145°	0	29	73	110	126	0
155°	1	18	45	68	84	0
165°	1	10	20	28	40	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°	480.2	480.2	480.2	480.2	480.2
2.5°	484.7	479.5	482.1	481.4	478.9
5°	483.4	479.5	484.7	484.7	484.7
7.5°	480.8	478.2	485.3	487.9	488.6
10°	476.9	476.9	486.6	490.5	491.8
12.5°	471.7	473.7	486.6	492.5	495.7
15°	465.9	469.8	486.6	495.7	499.0
17.5°	458.7	465.2	485.3	496.4	500.9
20°	450.3	460.0	483.4	496.4	502.2
22.5°	441.2	453.5	480.8	495.1	502.2
25°	431.4	445.7	476.9	493.8	501.6
27.5°	419.7	437.9	472.4	491.8	500.9
30°	408.0	428.8	467.2	489.2	499.0
32.5°	395.0	419.1	460.7	485.3	496.4
35°	381.4	409.3	453.5	481.4	493.1
37.5°	367.7	397.6	446.4	476.3	489.2
40°	352.8	385.9	437.9	469.8	483.4
42.5°	341.8	373.6	428.8	463.3	477.6
45°	321.0	364.5	418.4	454.8	470.4
47.5°	304.7	347.0	408.0	446.4	462.6
50°	294.3	332.7	395.7	436.6	453.5
52.5°	269.6	322.9	384.0	426.9	445.1
55°	259.9	303.4	371.0	416.5	434.7
57.5°	233.3	289.8	358.0	404.8	423.6
60°	220.3	270.9	343.7	393.1	412.6
62.5°	200.1	254.7	329.4	380.1	400.2
65°	178.0	237.2	313.8	367.7	388.5
67.5°	157.2	219.6	298.9	354.8	376.8
70°	137.1	201.4	283.3	341.8	363.8
72.5°	113.7	183.2	268.3	329.4	351.5
75°	93.6	165.7	254.0	316.4	338.5
77.5°	74.1	148.8	240.4	304.7	326.8
80°	55.9	132.5	226.8	292.4	315.1
82.5°	39.0	118.9	214.4	280.7	302.8
85°	24.0	106.6	202.7	268.3	291.1
87.5°	11.0	95.5	191.0	256.6	280.0
90°	1.3	87.1	181.3	246.9	269.6
92.5°	0.6	84.5	177.4	242.3	264.4
95°	0.0	81.9	175.4	239.8	261.8
97.5°	0.0	79.3	170.9	235.9	258.6
100°	0.0	78.0	167.6	230.0	252.1
102.5°	0.0	76.0	163.7	224.8	246.9
105°	0.0	75.4	159.8	220.3	241.7
107.5°	0.0	74.1	155.9	214.4	235.9
110°	0.0	72.8	152.7	209.2	230.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	71.5	149.4	204.0	224.2
115°	0.0	70.2	145.5	198.2	217.7
117.5°	0.0	68.2	141.6	192.3	211.8
120°	0.0	65.6	137.7	187.1	205.3
122.5°	0.0	63.0	133.8	180.6	198.2
125°	0.0	60.4	129.3	174.8	191.7
127.5°	0.0	56.5	124.1	168.3	183.9
130°	0.0	52.6	117.6	161.8	176.7
132.5°	0.6	48.7	111.1	154.6	169.6
135°	0.0	44.8	104.0	147.5	161.1
137.5°	0.0	41.6	96.2	139.7	152.7
140°	0.0	37.7	88.4	130.6	144.2
142.5°	0.0	33.1	80.6	120.8	135.1
145°	0.0	29.2	72.8	110.5	126.0
147.5°	0.6	26.0	65.6	99.4	116.3
150°	0.6	23.4	58.5	88.4	105.3
152.5°	0.6	20.8	51.3	78.0	94.2
155°	0.6	18.2	44.8	67.6	83.8
157.5°	0.6	15.6	37.7	57.2	72.8
160°	0.6	13.6	31.2	48.1	62.4
162.5°	0.6	11.7	25.3	37.7	51.3
165°	0.6	9.7	20.1	27.9	39.6
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)