

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: P1213027

Luminaire Tested: 4SNLED-LD5-23SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213027
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-LD5-23SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

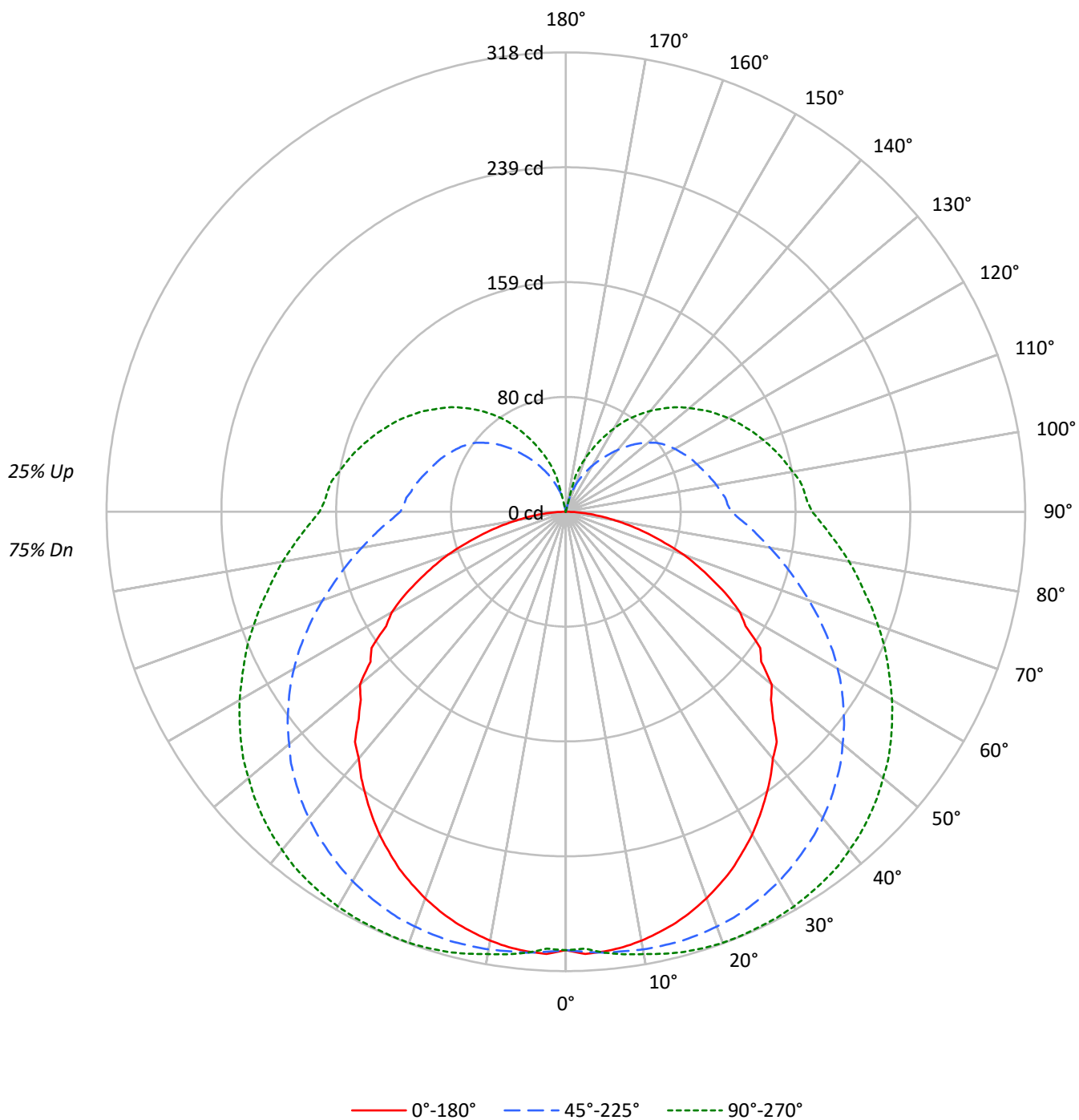
Lumens per Lamp: N/A
Luminaire Lumens: 1748.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 18
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°	2453	2453	2453
5°	2472	2424	2406
10°	2460	2403	2393
15°	2443	2390	2398
20°	2421	2379	2402
25°	2397	2370	2406
30°	2365	2363	2420
35°	2328	2354	2436
40°	2292	2352	2452
45°	2249	2348	2471
50°	2256	2342	2490
55°	2216	2342	2520
60°	2134	2344	2554
65°	2016	2347	2602
70°	1887	2364	2675
75°	1653	2419	2783
80°	1395	2537	2963
85°	1038	2773	3225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 3670 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	1.7
10°-20°	86.5	4.9
20°-30°	137.4	7.9
30°-40°	176.4	10.1
40°-50°	199.2	11.4
50°-60°	203.2	11.6
60°-70°	188.3	10.8
70°-80°	159.4	9.1
80°-90°	127.2	7.3
90°-100°	108.1	6.2
100°-110°	96.3	5.5
110°-120°	82.0	4.7
120°-130°	65.1	3.7
130°-140°	46.2	2.6
140°-150°	27.6	1.6
150°-160°	12.9	0.7
160°-170°	3.1	0.2
170°-180°	0.0	0.0
0°-30°	253.1	14.5
0°-40°	429.5	24.6
0°-60°	831.9	47.6
0°-90°	1306.8	74.8
90°-120°	286.3	16.4
90°-150°	425.2	24.3
90°-180°	441.0	25.2
0°-180°	1748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	306	303	306	306	306	29
15°	294	297	308	313	316	83
25°	273	282	302	312	317	126
35°	241	259	287	304	312	151
45°	203	230	264	288	297	158
55°	164	192	234	263	275	144
65°	112	150	198	232	246	112
75°	59	105	161	200	214	63
85°	15	67	128	170	184	17
90°	1	55	115	156	170	1
95°	0	52	111	152	166	0
105°	0	48	101	139	153	0
115°	0	44	92	125	138	0
125°	0	38	82	110	121	0
135°	0	28	66	93	102	0
145°	0	18	46	70	80	0
155°	0	12	28	43	53	0
165°	0	6	13	18	25	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°	303.5	303.5	303.5	303.5	303.5
2.5°	306.4	303.1	304.8	304.4	302.7
5°	305.6	303.1	306.4	306.4	306.4
7.5°	304.0	302.3	306.8	308.5	308.9
10°	301.5	301.5	307.7	310.1	310.9
12.5°	298.2	299.4	307.7	311.3	313.4
15°	294.5	297.0	307.7	313.4	315.5
17.5°	290.0	294.1	306.8	313.8	316.7
20°	284.7	290.8	305.6	313.8	317.5
22.5°	278.9	286.7	304.0	313.0	317.5
25°	272.7	281.8	301.5	312.2	317.1
27.5°	265.3	276.8	298.6	310.9	316.7
30°	258.0	271.1	295.3	309.3	315.5
32.5°	249.7	264.9	291.2	306.8	313.8
35°	241.1	258.8	286.7	304.4	311.8
37.5°	232.5	251.4	282.2	301.1	309.3
40°	223.0	244.0	276.8	297.0	305.6
42.5°	216.1	236.2	271.1	292.9	301.9
45°	202.9	230.4	264.5	287.5	297.4
47.5°	192.6	219.3	258.0	282.2	292.5
50°	186.1	210.3	250.1	276.0	286.7
52.5°	170.5	204.1	242.8	269.9	281.4
55°	164.3	191.8	234.5	263.3	274.8
57.5°	147.5	183.2	226.3	255.9	267.8
60°	139.2	171.3	217.3	248.5	260.8
62.5°	126.5	161.0	208.3	240.3	253.0
65°	112.5	149.9	198.4	232.5	245.6
67.5°	99.4	138.8	188.9	224.3	238.2
70°	86.7	127.3	179.1	216.1	230.0
72.5°	71.9	115.8	169.6	208.3	222.2
75°	59.1	104.7	160.6	200.0	214.0
77.5°	46.8	94.1	152.0	192.6	206.6
80°	35.3	83.8	143.4	184.8	199.2
82.5°	24.6	75.2	135.5	177.4	191.4
85°	15.2	67.4	128.2	169.6	184.0
87.5°	7.0	60.4	120.8	162.2	177.0
90°	0.8	55.0	114.6	156.1	170.5
92.5°	0.4	53.4	112.1	153.2	167.2
95°	0.0	51.8	110.9	151.6	165.5
97.5°	0.0	50.1	108.0	149.1	163.5
100°	0.0	49.3	106.0	145.4	159.4
102.5°	0.0	48.1	103.5	142.1	156.1
105°	0.0	47.6	101.0	139.2	152.8
107.5°	0.0	46.8	98.6	135.5	149.1
110°	0.0	46.0	96.5	132.3	145.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	45.2	94.5	129.0	141.7
115°	0.0	44.4	92.0	125.3	137.6
117.5°	0.0	43.1	89.5	121.6	133.9
120°	0.0	41.5	87.1	118.3	129.8
122.5°	0.0	39.8	84.6	114.2	125.3
125°	0.0	38.2	81.7	110.5	121.2
127.5°	0.0	35.7	78.5	106.4	116.2
130°	0.0	33.3	74.3	102.3	111.7
132.5°	0.4	30.8	70.2	97.8	107.2
135°	0.0	28.3	65.7	93.2	101.9
137.5°	0.0	26.3	60.8	88.3	96.5
140°	0.0	23.8	55.9	82.6	91.2
142.5°	0.0	20.9	50.9	76.4	85.4
145°	0.0	18.5	46.0	69.8	79.7
147.5°	0.4	16.4	41.5	62.8	73.5
150°	0.4	14.8	37.0	55.9	66.5
152.5°	0.4	13.1	32.4	49.3	59.6
155°	0.4	11.5	28.3	42.7	53.0
157.5°	0.4	9.9	23.8	36.1	46.0
160°	0.4	8.6	19.7	30.4	39.4
162.5°	0.4	7.4	16.0	23.8	32.4
165°	0.4	6.2	12.7	17.7	25.1
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)