

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: P1213729

Luminaire Tested: 4SNLED-LD5-23SL-SLW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213729
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

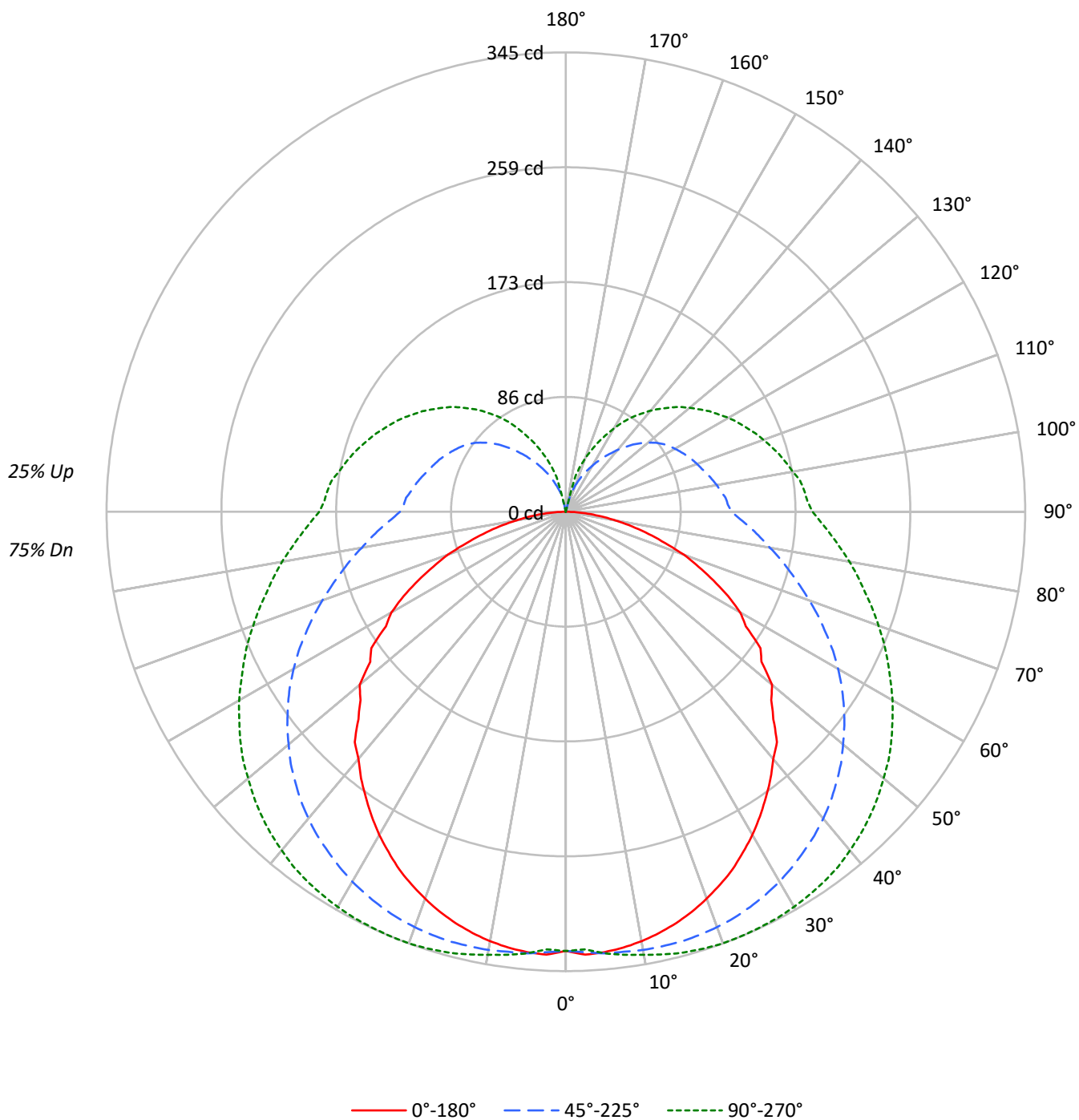
Lumens per Lamp: N/A
Luminaire Lumens: 1899.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 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°	2665	2665	2665
5°	2686	2634	2615
10°	2673	2610	2600
15°	2654	2596	2605
20°	2629	2585	2609
25°	2604	2575	2614
30°	2568	2567	2628
35°	2528	2558	2646
40°	2491	2556	2663
45°	2442	2551	2685
50°	2450	2545	2706
55°	2407	2545	2738
60°	2320	2547	2776
65°	2192	2549	2826
70°	2050	2569	2907
75°	1798	2628	3024
80°	1518	2754	3219
85°	1127	3011	3503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 3987 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	1.7
10°-20°	93.9	4.9
20°-30°	149.3	7.9
30°-40°	191.6	10.1
40°-50°	216.4	11.4
50°-60°	220.8	11.6
60°-70°	204.6	10.8
70°-80°	173.2	9.1
80°-90°	138.3	7.3
90°-100°	117.4	6.2
100°-110°	104.6	5.5
110°-120°	89.1	4.7
120°-130°	70.8	3.7
130°-140°	50.2	2.6
140°-150°	30.0	1.6
150°-160°	14.0	0.7
160°-170°	3.3	0.2
170°-180°	0.0	0.0
0°-30°	274.9	14.5
0°-40°	466.6	24.6
0°-60°	903.8	47.6
0°-90°	1419.8	74.8
90°-120°	311.1	16.4
90°-150°	462.0	24.3
90°-180°	479.0	25.2
0°-180°	1899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	330	330	330	330	330	
5°	332	329	333	333	333	32
15°	320	323	334	340	343	90
25°	296	306	328	339	344	136
35°	262	281	312	331	339	164
45°	220	250	287	312	323	171
55°	178	208	255	286	298	157
65°	122	163	216	253	267	121
75°	64	114	174	217	232	68
85°	16	73	139	184	200	18
90°	1	60	124	170	185	1
95°	0	56	120	165	180	0
105°	0	52	110	151	166	0
115°	0	48	100	136	150	0
125°	0	42	89	120	132	0
135°	0	31	71	101	111	0
145°	0	20	50	76	87	0
155°	0	12	31	46	58	0
165°	0	7	14	19	27	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°	329.8	329.8	329.8	329.8	329.8
2.5°	332.9	329.3	331.1	330.7	328.9
5°	332.0	329.3	332.9	332.9	332.9
7.5°	330.2	328.4	333.3	335.1	335.6
10°	327.5	327.5	334.2	336.9	337.8
12.5°	324.0	325.3	334.2	338.2	340.5
15°	319.9	322.6	334.2	340.5	342.7
17.5°	315.0	319.5	333.3	340.9	344.0
20°	309.2	315.9	332.0	340.9	344.9
22.5°	303.0	311.5	330.2	340.0	344.9
25°	296.3	306.1	327.5	339.1	344.5
27.5°	288.3	300.8	324.4	337.8	344.0
30°	280.2	294.5	320.8	336.0	342.7
32.5°	271.3	287.8	316.4	333.3	340.9
35°	261.9	281.1	311.5	330.7	338.7
37.5°	252.6	273.1	306.6	327.1	336.0
40°	242.3	265.1	300.8	322.6	332.0
42.5°	234.7	256.6	294.5	318.2	328.0
45°	220.4	250.3	287.4	312.4	323.1
47.5°	209.3	238.3	280.2	306.6	317.7
50°	202.1	228.5	271.8	299.9	311.5
52.5°	185.2	221.8	263.7	293.2	305.7
55°	178.5	208.4	254.8	286.0	298.5
57.5°	160.2	199.0	245.9	278.0	290.9
60°	151.3	186.1	236.1	270.0	283.4
62.5°	137.4	174.9	226.2	261.0	274.9
65°	122.3	162.9	215.5	252.6	266.8
67.5°	108.0	150.8	205.3	243.6	258.8
70°	94.2	138.3	194.6	234.7	249.9
72.5°	78.1	125.8	184.3	226.2	241.4
75°	64.3	113.8	174.5	217.3	232.5
77.5°	50.9	102.2	165.1	209.3	224.5
80°	38.4	91.0	155.7	200.8	216.4
82.5°	26.8	81.7	147.3	192.8	207.9
85°	16.5	73.2	139.2	184.3	199.9
87.5°	7.6	65.6	131.2	176.3	192.3
90°	0.9	59.8	124.5	169.6	185.2
92.5°	0.4	58.0	121.8	166.4	181.6
95°	0.0	56.2	120.5	164.7	179.8
97.5°	0.0	54.4	117.4	162.0	177.6
100°	0.0	53.5	115.1	158.0	173.1
102.5°	0.0	52.2	112.5	154.4	169.6
105°	0.0	51.8	109.8	151.3	166.0
107.5°	0.0	50.9	107.1	147.3	162.0
110°	0.0	50.0	104.9	143.7	158.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	49.1	102.6	140.1	154.0
115°	0.0	48.2	100.0	136.1	149.5
117.5°	0.0	46.9	97.3	132.1	145.5
120°	0.0	45.1	94.6	128.5	141.0
122.5°	0.0	43.3	91.9	124.1	136.1
125°	0.0	41.5	88.8	120.0	131.6
127.5°	0.0	38.8	85.2	115.6	126.3
130°	0.0	36.1	80.8	111.1	121.4
132.5°	0.4	33.5	76.3	106.2	116.5
135°	0.0	30.8	71.4	101.3	110.7
137.5°	0.0	28.6	66.0	95.9	104.9
140°	0.0	25.9	60.7	89.7	99.1
142.5°	0.0	22.8	55.3	83.0	92.8
145°	0.0	20.1	50.0	75.9	86.6
147.5°	0.4	17.8	45.1	68.3	79.9
150°	0.4	16.1	40.2	60.7	72.3
152.5°	0.4	14.3	35.3	53.5	64.7
155°	0.4	12.5	30.8	46.4	57.6
157.5°	0.4	10.7	25.9	39.3	50.0
160°	0.4	9.4	21.4	33.0	42.8
162.5°	0.4	8.0	17.4	25.9	35.3
165°	0.4	6.7	13.8	19.2	27.2
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)