

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: P1212981

Luminaire Tested: 2SNLED-LD5-23SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212981
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: 2SNLED-LD5-23SL-SLW-UNV-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

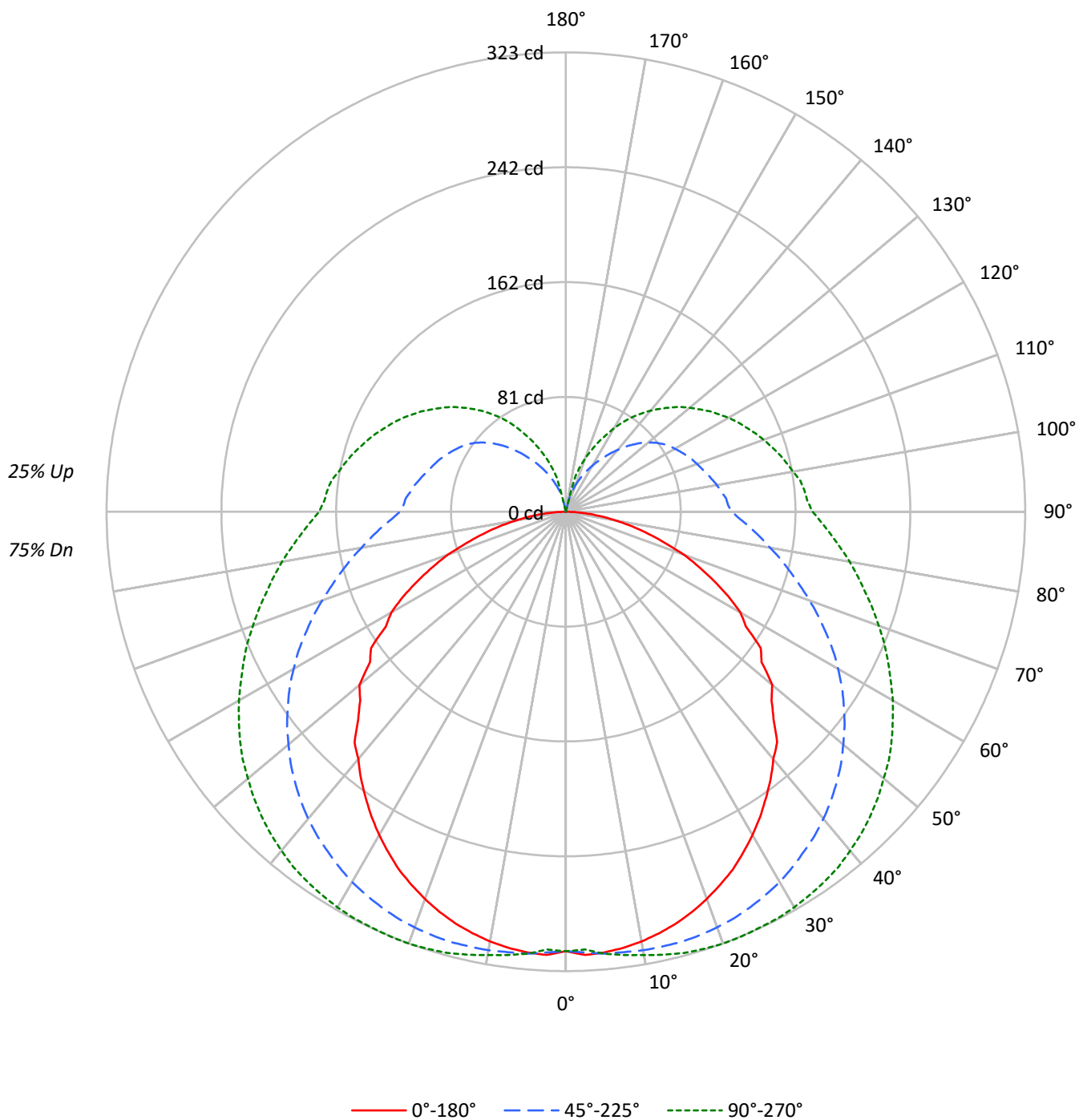
Lumens per Lamp: N/A
Luminaire Lumens: 1779.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 21
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°	4992	4992	4992
5°	5018	4927	4899
10°	4980	4872	4872
15°	4932	4838	4882
20°	4872	4807	4889
25°	4810	4781	4897
30°	4728	4759	4925
35°	4639	4731	4957
40°	4551	4719	4990
45°	4442	4698	5030
50°	4432	4676	5069
55°	4325	4664	5131
60°	4133	4652	5201
65°	3861	4640	5297
70°	3557	4655	5446
75°	3048	4737	5665
80°	2474	4927	6030
85°	1677	5327	6565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 7470 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	1.7
10°-20°	88.0	4.9
20°-30°	139.9	7.9
30°-40°	179.5	10.1
40°-50°	202.7	11.4
50°-60°	206.8	11.6
60°-70°	191.6	10.8
70°-80°	162.2	9.1
80°-90°	129.5	7.3
90°-100°	110.0	6.2
100°-110°	98.0	5.5
110°-120°	83.4	4.7
120°-130°	66.3	3.7
130°-140°	47.0	2.6
140°-150°	28.1	1.6
150°-160°	13.1	0.7
160°-170°	3.1	0.2
170°-180°	0.0	0.0
0°-30°	257.6	14.5
0°-40°	437.1	24.6
0°-60°	846.7	47.6
0°-90°	1330.1	74.8
90°-120°	291.4	16.4
90°-150°	432.8	24.3
90°-180°	449.0	25.2
0°-180°	1779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	309	309	309	309	309	
5°	311	308	312	312	312	30
15°	300	302	313	319	321	85
25°	278	287	307	318	323	128
35°	245	263	292	310	317	154
45°	206	234	269	293	303	160
55°	167	195	239	268	280	147
65°	114	153	202	237	250	114
75°	60	107	164	204	218	64
85°	16	69	130	173	187	17
90°	1	56	117	159	174	1
95°	0	53	113	154	168	0
105°	0	48	103	142	156	0
115°	0	45	94	128	140	0
125°	0	39	83	112	123	0
135°	0	29	67	95	104	0
145°	0	19	47	71	81	0
155°	0	12	29	44	54	0
165°	0	6	13	18	26	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°	308.9	308.9	308.9	308.9	308.9
2.5°	311.9	308.5	310.2	309.8	308.1
5°	311.0	308.5	311.9	311.9	311.9
7.5°	309.3	307.7	312.3	313.9	314.4
10°	306.8	306.8	313.1	315.6	316.5
12.5°	303.5	304.7	313.1	316.9	319.0
15°	299.7	302.2	313.1	319.0	321.1
17.5°	295.1	299.3	312.3	319.4	322.3
20°	289.7	296.0	311.0	319.4	323.1
22.5°	283.8	291.8	309.3	318.5	323.1
25°	277.6	286.8	306.8	317.7	322.7
27.5°	270.1	281.8	303.9	316.5	322.3
30°	262.5	275.9	300.6	314.8	321.1
32.5°	254.2	269.6	296.4	312.3	319.4
35°	245.4	263.4	291.8	309.8	317.3
37.5°	236.6	255.8	287.2	306.4	314.8
40°	227.0	248.3	281.8	302.2	311.0
42.5°	219.9	240.4	275.9	298.1	307.3
45°	206.5	234.5	269.2	292.6	302.7
47.5°	196.1	223.2	262.5	287.2	297.6
50°	189.4	214.0	254.6	280.9	291.8
52.5°	173.5	207.8	247.1	274.6	286.4
55°	167.2	195.2	238.7	268.0	279.7
57.5°	150.1	186.4	230.3	260.4	272.6
60°	141.7	174.3	221.1	252.9	265.5
62.5°	128.8	163.9	211.9	244.6	257.5
65°	114.5	152.6	201.9	236.6	250.0
67.5°	101.2	141.3	192.3	228.2	242.5
70°	88.2	129.6	182.3	219.9	234.1
72.5°	73.2	117.9	172.6	211.9	226.2
75°	60.2	106.6	163.5	203.6	217.8
77.5°	47.7	95.7	154.7	196.1	210.3
80°	36.0	85.3	145.9	188.1	202.7
82.5°	25.1	76.5	138.0	180.6	194.8
85°	15.5	68.6	130.4	172.6	187.3
87.5°	7.1	61.5	122.9	165.1	180.2
90°	0.8	56.0	116.6	158.9	173.5
92.5°	0.4	54.3	114.1	155.9	170.1
95°	0.0	52.7	112.9	154.3	168.5
97.5°	0.0	51.0	109.9	151.7	166.4
100°	0.0	50.2	107.9	148.0	162.2
102.5°	0.0	48.9	105.3	144.6	158.9
105°	0.0	48.5	102.8	141.7	155.5
107.5°	0.0	47.7	100.3	138.0	151.7
110°	0.0	46.8	98.2	134.6	148.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	46.0	96.1	131.3	144.2
115°	0.0	45.1	93.6	127.5	140.0
117.5°	0.0	43.9	91.1	123.7	136.3
120°	0.0	42.2	88.6	120.4	132.1
122.5°	0.0	40.5	86.1	116.2	127.5
125°	0.0	38.9	83.2	112.5	123.3
127.5°	0.0	36.4	79.8	108.3	118.3
130°	0.0	33.9	75.7	104.1	113.7
132.5°	0.4	31.4	71.5	99.5	109.1
135°	0.0	28.8	66.9	94.9	103.7
137.5°	0.0	26.8	61.9	89.9	98.2
140°	0.0	24.2	56.9	84.0	92.8
142.5°	0.0	21.3	51.8	77.8	87.0
145°	0.0	18.8	46.8	71.1	81.1
147.5°	0.4	16.7	42.2	64.0	74.8
150°	0.4	15.0	37.6	56.9	67.7
152.5°	0.4	13.4	33.0	50.2	60.6
155°	0.4	11.7	28.8	43.5	53.9
157.5°	0.4	10.0	24.2	36.8	46.8
160°	0.4	8.8	20.1	30.9	40.1
162.5°	0.4	7.5	16.3	24.2	33.0
165°	0.4	6.3	13.0	18.0	25.5
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)