

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: P1213683

Luminaire Tested: 2SNLED-LD5-23SL-SLW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213683
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-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

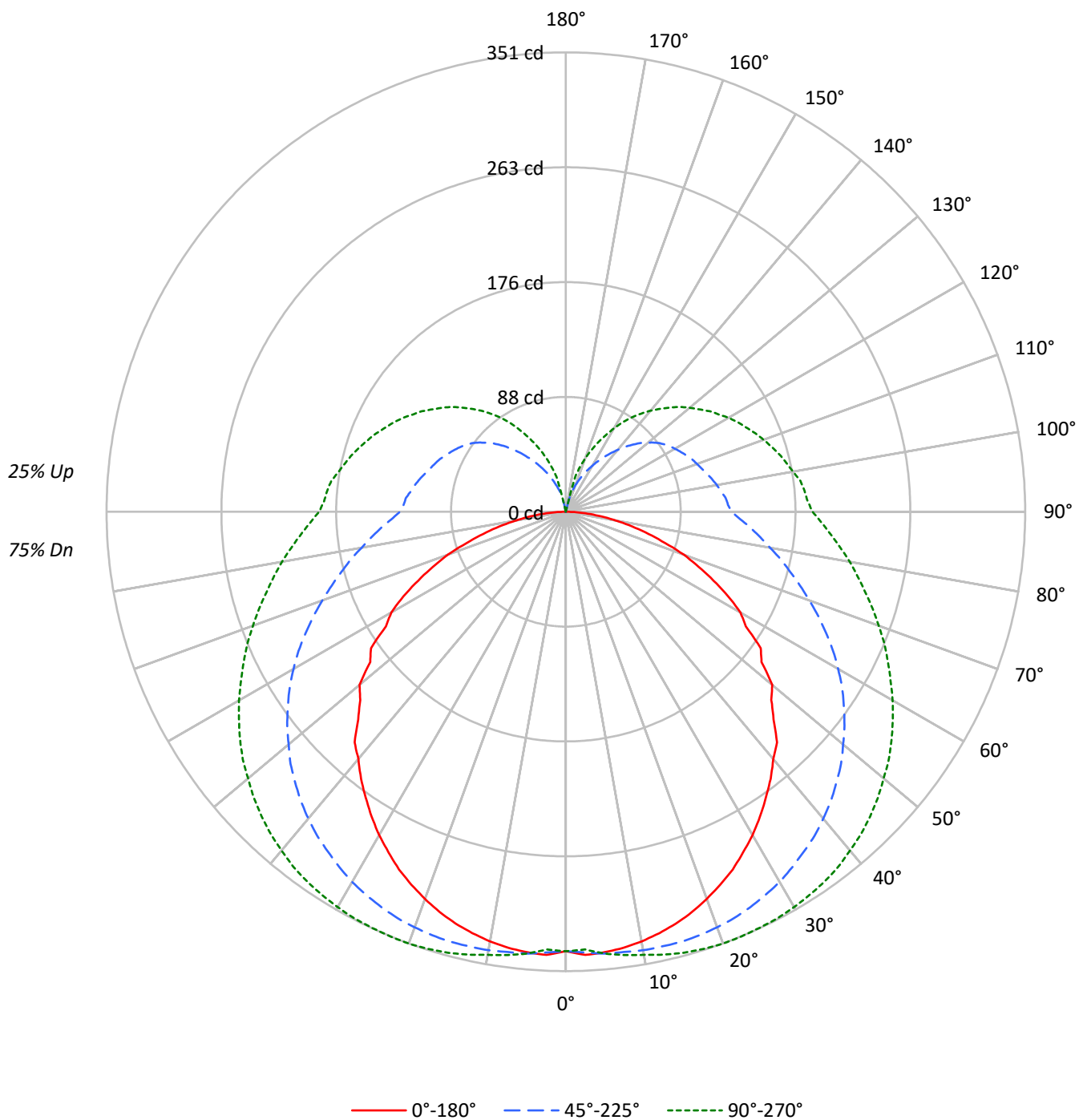
Lumens per Lamp: N/A
Luminaire Lumens: 1933.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

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°	5426	5426	5426
5°	5452	5353	5323
10°	5412	5294	5292
15°	5360	5256	5303
20°	5294	5223	5313
25°	5226	5195	5322
30°	5139	5171	5350
35°	5040	5140	5387
40°	4944	5126	5421
45°	4827	5105	5466
50°	4816	5080	5507
55°	4700	5068	5575
60°	4492	5056	5649
65°	4198	5042	5754
70°	3864	5056	5918
75°	3312	5145	6156
80°	2687	5353	6553
85°	1817	5789	7133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 8116 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	1.7
10°-20°	95.6	4.9
20°-30°	152.0	7.9
30°-40°	195.1	10.1
40°-50°	220.3	11.4
50°-60°	224.8	11.6
60°-70°	208.2	10.8
70°-80°	176.3	9.1
80°-90°	140.7	7.3
90°-100°	119.5	6.2
100°-110°	106.5	5.5
110°-120°	90.7	4.7
120°-130°	72.0	3.7
130°-140°	51.1	2.6
140°-150°	30.5	1.6
150°-160°	14.2	0.7
160°-170°	3.4	0.2
170°-180°	0.0	0.0
0°-30°	279.9	14.5
0°-40°	474.9	24.6
0°-60°	920.0	47.6
0°-90°	1445.2	74.8
90°-120°	316.6	16.4
90°-150°	470.2	24.3
90°-180°	488.0	25.2
0°-180°	1933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	336	336	336	336	336	
5°	338	335	339	339	339	32
15°	326	328	340	347	349	92
25°	302	312	333	345	351	139
35°	267	286	317	337	345	167
45°	224	255	292	318	329	174
55°	182	212	259	291	304	160
65°	124	166	219	257	272	124
75°	65	116	178	221	237	70
85°	17	74	142	188	204	18
90°	1	61	127	173	188	1
95°	0	57	123	168	183	0
105°	0	53	112	154	169	0
115°	0	49	102	138	152	0
125°	0	42	90	122	134	0
135°	0	31	73	103	113	0
145°	0	20	51	77	88	0
155°	0	13	31	47	59	0
165°	0	7	14	20	28	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°	335.7	335.7	335.7	335.7	335.7
2.5°	338.9	335.2	337.0	336.6	334.8
5°	337.9	335.2	338.9	338.9	338.9
7.5°	336.1	334.3	339.3	341.1	341.6
10°	333.4	333.4	340.2	342.9	343.8
12.5°	329.8	331.1	340.2	344.3	346.6
15°	325.7	328.4	340.2	346.6	348.8
17.5°	320.7	325.2	339.3	347.0	350.2
20°	314.8	321.6	337.9	347.0	351.1
22.5°	308.4	317.0	336.1	346.1	351.1
25°	301.6	311.6	333.4	345.2	350.7
27.5°	293.4	306.1	330.2	343.8	350.2
30°	285.3	299.8	326.6	342.0	348.8
32.5°	276.2	293.0	322.0	339.3	347.0
35°	266.6	286.2	317.0	336.6	344.8
37.5°	257.1	278.0	312.1	332.9	342.0
40°	246.6	269.8	306.1	328.4	337.9
42.5°	238.9	261.2	299.8	323.9	333.9
45°	224.4	254.8	292.5	318.0	328.9
47.5°	213.0	242.6	285.3	312.1	323.4
50°	205.8	232.6	276.6	305.2	317.0
52.5°	188.5	225.7	268.4	298.4	311.1
55°	181.7	212.1	259.4	291.2	303.9
57.5°	163.1	202.6	250.3	283.0	296.2
60°	154.0	189.4	240.3	274.8	288.4
62.5°	139.9	178.1	230.3	265.7	279.8
65°	124.5	165.8	219.4	257.1	271.6
67.5°	109.9	153.5	208.9	248.0	263.4
70°	95.8	140.8	198.0	238.9	254.4
72.5°	79.5	128.1	187.6	230.3	245.7
75°	65.4	115.8	177.6	221.2	236.7
77.5°	51.8	104.0	168.1	213.0	228.5
80°	39.1	92.7	158.5	204.4	220.3
82.5°	27.3	83.1	149.9	196.2	211.7
85°	16.8	74.5	141.7	187.6	203.5
87.5°	7.7	66.8	133.5	179.4	195.8
90°	0.9	60.9	126.7	172.6	188.5
92.5°	0.5	59.0	124.0	169.4	184.9
95°	0.0	57.2	122.6	167.6	183.1
97.5°	0.0	55.4	119.5	164.9	180.8
100°	0.0	54.5	117.2	160.8	176.2
102.5°	0.0	53.1	114.5	157.2	172.6
105°	0.0	52.7	111.7	154.0	169.0
107.5°	0.0	51.8	109.0	149.9	164.9
110°	0.0	50.9	106.7	146.3	160.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	50.0	104.5	142.6	156.7
115°	0.0	49.1	101.7	138.5	152.2
117.5°	0.0	47.7	99.0	134.5	148.1
120°	0.0	45.9	96.3	130.8	143.5
122.5°	0.0	44.1	93.6	126.3	138.5
125°	0.0	42.2	90.4	122.2	134.0
127.5°	0.0	39.5	86.8	117.6	128.5
130°	0.0	36.8	82.2	113.1	123.5
132.5°	0.5	34.1	77.7	108.1	118.6
135°	0.0	31.3	72.7	103.1	112.6
137.5°	0.0	29.1	67.2	97.7	106.7
140°	0.0	26.3	61.8	91.3	100.8
142.5°	0.0	23.2	56.3	84.5	94.5
145°	0.0	20.4	50.9	77.2	88.1
147.5°	0.5	18.2	45.9	69.5	81.3
150°	0.5	16.4	40.9	61.8	73.6
152.5°	0.5	14.5	35.9	54.5	65.9
155°	0.5	12.7	31.3	47.2	58.6
157.5°	0.5	10.9	26.3	40.0	50.9
160°	0.5	9.5	21.8	33.6	43.6
162.5°	0.5	8.2	17.7	26.3	35.9
165°	0.5	6.8	14.1	19.5	27.7
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)