

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: P1214034

Luminaire Tested: 2SNLED-LD5-23SL-SLW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214034
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-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

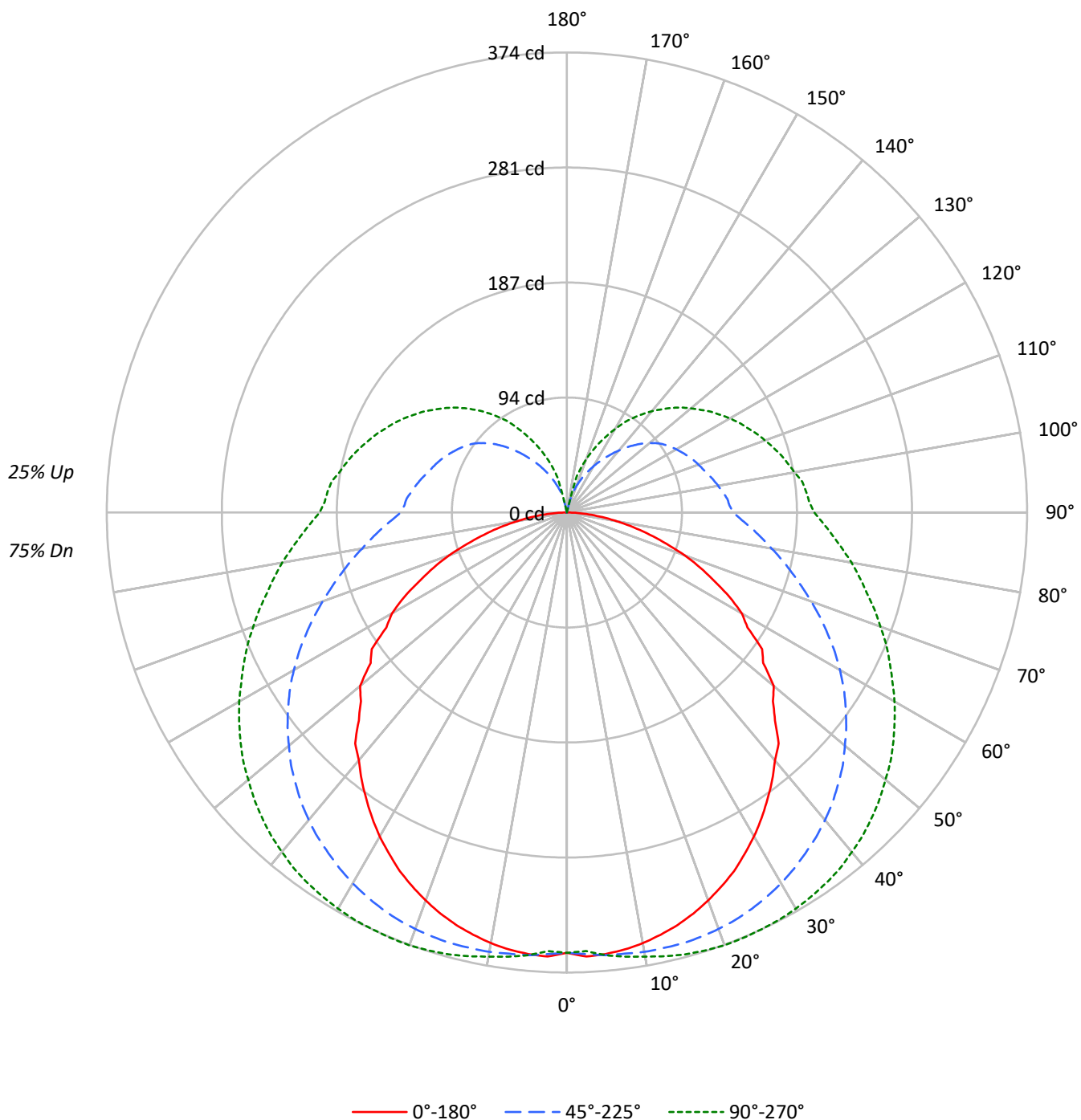
Lumens per Lamp: N/A
Luminaire Lumens: 2061.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

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°	5784	5784	5784
5°	5814	5707	5675
10°	5771	5644	5643
15°	5714	5604	5654
20°	5644	5569	5665
25°	5573	5540	5674
30°	5478	5513	5704
35°	5374	5481	5743
40°	5272	5466	5781
45°	5146	5444	5826
50°	5134	5416	5872
55°	5011	5402	5943
60°	4789	5391	6023
65°	4475	5376	6136
70°	4122	5393	6309
75°	3529	5487	6562
80°	2859	5707	6988
85°	1936	6173	7606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 8654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	1.7
10°-20°	102.0	4.9
20°-30°	162.0	7.9
30°-40°	208.0	10.1
40°-50°	234.8	11.4
50°-60°	239.6	11.6
60°-70°	222.0	10.8
70°-80°	188.0	9.1
80°-90°	150.0	7.3
90°-100°	127.4	6.2
100°-110°	113.5	5.5
110°-120°	96.7	4.7
120°-130°	76.8	3.7
130°-140°	54.5	2.6
140°-150°	32.5	1.6
150°-160°	15.2	0.7
160°-170°	3.6	0.2
170°-180°	0.0	0.0
0°-30°	298.4	14.5
0°-40°	506.4	24.6
0°-60°	980.9	47.6
0°-90°	1540.8	74.8
90°-120°	337.6	16.4
90°-150°	501.4	24.3
90°-180°	520.0	25.2
0°-180°	2061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	358	358	358	358	358	
5°	360	357	361	361	361	34
15°	347	350	363	370	372	98
25°	322	332	356	368	374	148
35°	284	305	338	359	368	178
45°	239	272	312	339	351	186
55°	194	226	276	310	324	170
65°	133	177	234	274	290	132
75°	70	124	189	236	252	74
85°	18	79	151	200	217	20
90°	1	65	135	184	201	1
95°	0	61	131	179	195	0
105°	0	56	119	164	180	0
115°	0	52	108	148	162	0
125°	0	45	96	130	143	0
135°	0	33	78	110	120	0
145°	0	22	54	82	94	0
155°	0	14	33	50	62	0
165°	0	7	15	21	30	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°	357.9	357.9	357.9	357.9	357.9
2.5°	361.3	357.4	359.4	358.9	356.9
5°	360.3	357.4	361.3	361.3	361.3
7.5°	358.4	356.4	361.8	363.7	364.2
10°	355.5	355.5	362.7	365.6	366.6
12.5°	351.6	353.1	362.7	367.1	369.5
15°	347.2	350.1	362.7	369.5	371.9
17.5°	341.9	346.8	361.8	370.0	373.4
20°	335.6	342.9	360.3	370.0	374.4
22.5°	328.8	338.0	358.4	369.0	374.4
25°	321.6	332.2	355.5	368.1	373.9
27.5°	312.9	326.4	352.1	366.6	373.4
30°	304.1	319.6	348.2	364.7	371.9
32.5°	294.5	312.4	343.4	361.8	370.0
35°	284.3	305.1	338.0	358.9	367.6
37.5°	274.1	296.4	332.7	355.0	364.7
40°	263.0	287.7	326.4	350.1	360.3
42.5°	254.7	278.5	319.6	345.3	356.0
45°	239.2	271.7	311.9	339.0	350.6
47.5°	227.1	258.6	304.1	332.7	344.8
50°	219.4	248.0	294.9	325.5	338.0
52.5°	201.0	240.7	286.2	318.2	331.7
55°	193.7	226.2	276.5	310.4	324.0
57.5°	173.9	216.0	266.9	301.7	315.8
60°	164.2	202.0	256.2	293.0	307.5
62.5°	149.2	189.8	245.5	283.3	298.3
65°	132.7	176.8	233.9	274.1	289.6
67.5°	117.2	163.7	222.8	264.4	280.9
70°	102.2	150.1	211.2	254.7	271.2
72.5°	84.8	136.6	200.0	245.5	262.0
75°	69.7	123.5	189.4	235.9	252.3
77.5°	55.2	110.9	179.2	227.1	243.6
80°	41.6	98.8	169.0	217.9	234.9
82.5°	29.1	88.6	159.8	209.2	225.7
85°	17.9	79.4	151.1	200.0	217.0
87.5°	8.2	71.2	142.4	191.3	208.7
90°	1.0	64.9	135.1	184.0	201.0
92.5°	0.5	63.0	132.2	180.6	197.1
95°	0.0	61.0	130.8	178.7	195.2
97.5°	0.0	59.1	127.4	175.8	192.8
100°	0.0	58.1	124.9	171.4	187.9
102.5°	0.0	56.7	122.0	167.6	184.0
105°	0.0	56.2	119.1	164.2	180.2
107.5°	0.0	55.2	116.2	159.8	175.8
110°	0.0	54.2	113.8	155.9	171.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	53.3	111.4	152.1	167.1
115°	0.0	52.3	108.5	147.7	162.2
117.5°	0.0	50.9	105.6	143.4	157.9
120°	0.0	48.9	102.7	139.5	153.0
122.5°	0.0	47.0	99.8	134.6	147.7
125°	0.0	45.0	96.4	130.3	142.9
127.5°	0.0	42.1	92.5	125.4	137.1
130°	0.0	39.2	87.7	120.6	131.7
132.5°	0.5	36.3	82.8	115.3	126.4
135°	0.0	33.4	77.5	109.9	120.1
137.5°	0.0	31.0	71.7	104.1	113.8
140°	0.0	28.1	65.9	97.3	107.5
142.5°	0.0	24.7	60.1	90.1	100.7
145°	0.0	21.8	54.2	82.3	94.0
147.5°	0.5	19.4	48.9	74.1	86.7
150°	0.5	17.4	43.6	65.9	78.5
152.5°	0.5	15.5	38.3	58.1	70.2
155°	0.5	13.6	33.4	50.4	62.5
157.5°	0.5	11.6	28.1	42.6	54.2
160°	0.5	10.2	23.2	35.8	46.5
162.5°	0.5	8.7	18.9	28.1	38.3
165°	0.5	7.3	15.0	20.8	29.5
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)