

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: P1213378

Luminaire Tested: 4SNLED-LD5-23SL-SLW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213378
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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

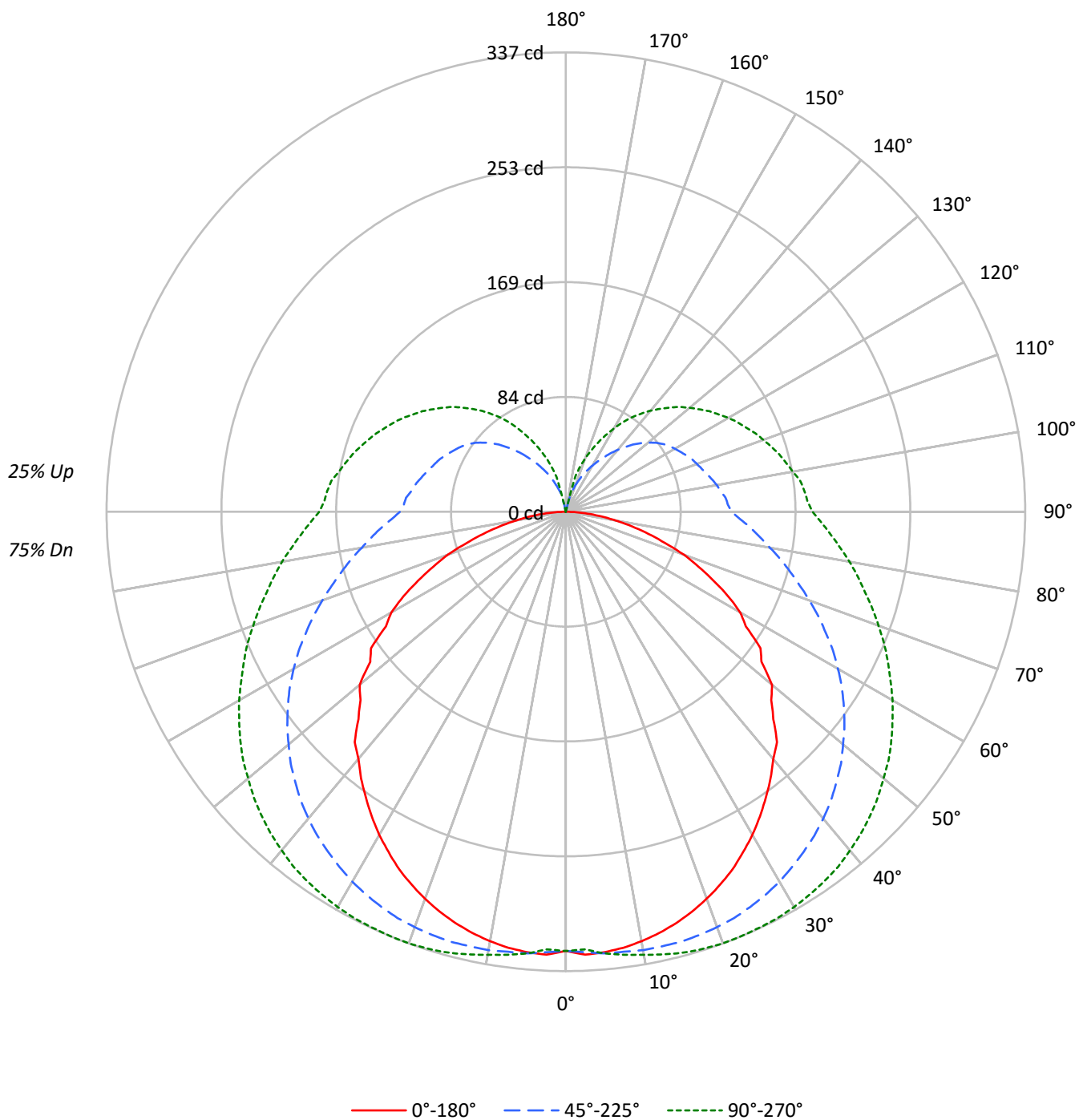
Lumens per Lamp: N/A
Luminaire Lumens: 1855.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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

TEST NUMBER: P1213378

CATALOG NUMBER: 4SNLED-LD5-23SL-SLW-UNV-L935-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213378

CATALOG NUMBER: 4SNLED-LD5-23SL-SLW-UNV-L935-CD1-U

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°	2603	2603	2603
5°	2624	2573	2554
10°	2611	2550	2540
15°	2593	2536	2545
20°	2569	2525	2549
25°	2543	2515	2553
30°	2509	2508	2568
35°	2470	2499	2584
40°	2433	2497	2602
45°	2386	2492	2622
50°	2394	2486	2643
55°	2352	2486	2675
60°	2266	2488	2711
65°	2140	2490	2762
70°	2002	2509	2839
75°	1756	2566	2953
80°	1482	2691	3144
85°	1100	2942	3423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 3894 cd/sqm

TEST NUMBER: P1213378

CATALOG NUMBER: 4SNLED-LD5-23SL-SLW-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	1.7
10°-20°	91.8	4.9
20°-30°	145.9	7.9
30°-40°	187.2	10.1
40°-50°	211.4	11.4
50°-60°	215.7	11.6
60°-70°	199.8	10.8
70°-80°	169.2	9.1
80°-90°	135.0	7.3
90°-100°	114.7	6.2
100°-110°	102.2	5.5
110°-120°	87.0	4.7
120°-130°	69.1	3.7
130°-140°	49.0	2.6
140°-150°	29.3	1.6
150°-160°	13.6	0.7
160°-170°	3.2	0.2
170°-180°	0.0	0.0
0°-30°	268.6	14.5
0°-40°	455.8	24.6
0°-60°	882.8	47.6
0°-90°	1386.9	74.8
90°-120°	303.8	16.4
90°-150°	451.2	24.3
90°-180°	468.0	25.2
0°-180°	1855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	322	322	322	322	322	
5°	324	322	325	325	325	31
15°	312	315	326	333	335	88
25°	289	299	320	331	336	133
35°	256	275	304	323	331	160
45°	215	244	281	305	316	167
55°	174	204	249	279	292	153
65°	119	159	210	247	261	119
75°	63	111	170	212	227	67
85°	16	72	136	180	195	18
90°	1	58	122	166	181	1
95°	0	55	118	161	176	0
105°	0	51	107	148	162	0
115°	0	47	98	133	146	0
125°	0	40	87	117	129	0
135°	0	30	70	99	108	0
145°	0	20	49	74	85	0
155°	0	12	30	45	56	0
165°	0	6	14	19	27	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213378

CATALOG NUMBER: 4SNLED-LD5-23SL-SLW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	322.1	322.1	322.1	322.1	322.1
2.5°	325.2	321.7	323.4	323.0	321.3
5°	324.3	321.7	325.2	325.2	325.2
7.5°	322.6	320.8	325.6	327.4	327.8
10°	319.9	319.9	326.5	329.1	330.0
12.5°	316.5	317.8	326.5	330.4	332.6
15°	312.5	315.2	326.5	332.6	334.8
17.5°	307.7	312.1	325.6	333.0	336.1
20°	302.1	308.6	324.3	333.0	336.9
22.5°	296.0	304.3	322.6	332.2	336.9
25°	289.4	299.0	319.9	331.3	336.5
27.5°	281.6	293.8	316.9	330.0	336.1
30°	273.7	287.7	313.4	328.2	334.8
32.5°	265.0	281.2	309.0	325.6	333.0
35°	255.9	274.6	304.3	323.0	330.8
37.5°	246.7	266.8	299.5	319.5	328.2
40°	236.7	258.9	293.8	315.2	324.3
42.5°	229.3	250.6	287.7	310.8	320.4
45°	215.3	244.5	280.7	305.1	315.6
47.5°	204.4	232.8	273.7	299.5	310.4
50°	197.5	223.2	265.5	292.9	304.3
52.5°	180.9	216.6	257.6	286.4	298.6
55°	174.4	203.6	248.9	279.4	291.6
57.5°	156.5	194.4	240.2	271.6	284.2
60°	147.8	181.8	230.6	263.7	276.8
62.5°	134.3	170.9	221.0	255.0	268.5
65°	119.4	159.1	210.5	246.7	260.7
67.5°	105.5	147.3	200.5	238.0	252.8
70°	92.0	135.1	190.1	229.3	244.1
72.5°	76.3	122.9	180.0	221.0	235.8
75°	62.8	111.2	170.4	212.3	227.1
77.5°	49.7	99.8	161.3	204.4	219.3
80°	37.5	88.9	152.1	196.2	211.4
82.5°	26.2	79.8	143.8	188.3	203.1
85°	16.1	71.5	136.0	180.0	195.3
87.5°	7.4	64.1	128.2	172.2	187.9
90°	0.9	58.4	121.6	165.6	180.9
92.5°	0.4	56.7	119.0	162.6	177.4
95°	0.0	54.9	117.7	160.8	175.7
97.5°	0.0	53.2	114.6	158.2	173.5
100°	0.0	52.3	112.5	154.3	169.1
102.5°	0.0	51.0	109.8	150.8	165.6
105°	0.0	50.6	107.2	147.8	162.2
107.5°	0.0	49.7	104.6	143.8	158.2
110°	0.0	48.8	102.4	140.4	154.3

TEST NUMBER: P1213378

CATALOG NUMBER: 4SNLED-LD5-23SL-SLW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	47.9	100.3	136.9	150.4
115°	0.0	47.1	97.6	132.9	146.0
117.5°	0.0	45.8	95.0	129.0	142.1
120°	0.0	44.0	92.4	125.5	137.7
122.5°	0.0	42.3	89.8	121.2	132.9
125°	0.0	40.5	86.7	117.3	128.6
127.5°	0.0	37.9	83.3	112.9	123.4
130°	0.0	35.3	78.9	108.5	118.6
132.5°	0.4	32.7	74.5	103.7	113.8
135°	0.0	30.1	69.7	98.9	108.1
137.5°	0.0	27.9	64.5	93.7	102.4
140°	0.0	25.3	59.3	87.6	96.8
142.5°	0.0	22.2	54.1	81.1	90.7
145°	0.0	19.6	48.8	74.1	84.6
147.5°	0.4	17.4	44.0	66.7	78.0
150°	0.4	15.7	39.2	59.3	70.6
152.5°	0.4	13.9	34.4	52.3	63.2
155°	0.4	12.2	30.1	45.3	56.2
157.5°	0.4	10.5	25.3	38.4	48.8
160°	0.4	9.2	20.9	32.3	41.8
162.5°	0.4	7.8	17.0	25.3	34.4
165°	0.4	6.5	13.5	18.7	26.6
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)