

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: P1213180

Luminaire Tested: 4SNLED-LD5-77SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213180
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-LD5-77SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

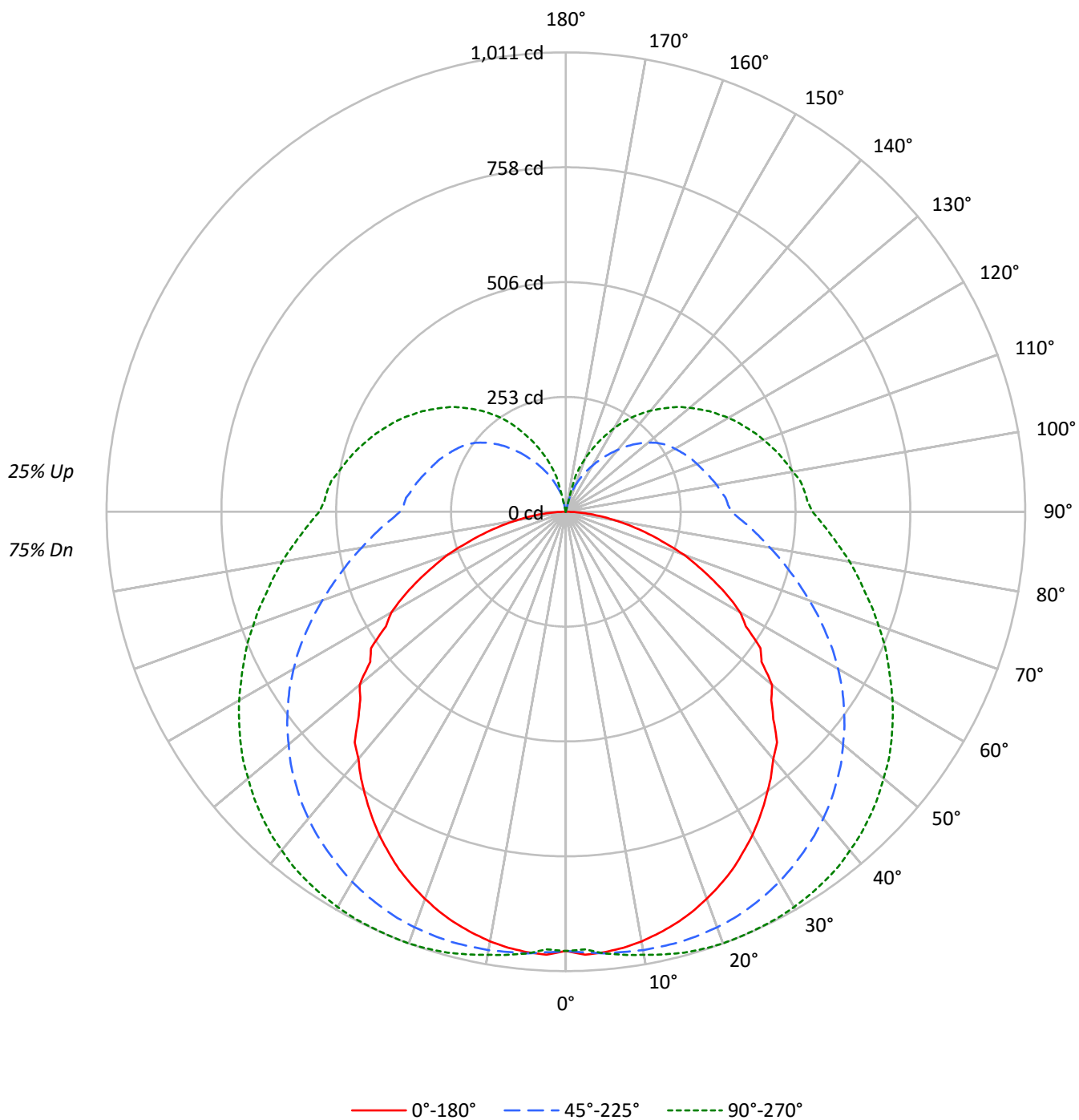
Lumens per Lamp: N/A
Luminaire Lumens: 5566.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 85
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: P1213180

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L930-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213180

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L930-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°	7811	7811	7811
5°	7872	7721	7663
10°	7834	7650	7620
15°	7781	7609	7636
20°	7707	7576	7649
25°	7633	7548	7662
30°	7529	7526	7704
35°	7411	7497	7755
40°	7300	7492	7806
45°	7160	7476	7868
50°	7181	7458	7930
55°	7056	7459	8025
60°	6798	7465	8134
65°	6423	7472	8285
70°	6006	7528	8519
75°	5265	7702	8861
80°	4447	8076	9434
85°	3307	8828	10268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 11685 cd/sqm

TEST NUMBER: P1213180

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	1.7
10°-20°	275.4	4.9
20°-30°	437.6	7.9
30°-40°	561.7	10.1
40°-50°	634.2	11.4
50°-60°	647.2	11.6
60°-70°	599.6	10.8
70°-80°	507.6	9.1
80°-90°	405.2	7.3
90°-100°	344.1	6.2
100°-110°	306.5	5.5
110°-120°	261.1	4.7
120°-130°	207.4	3.7
130°-140°	147.1	2.6
140°-150°	87.8	1.6
150°-160°	40.9	0.7
160°-170°	9.7	0.2
170°-180°	0.0	0.0
0°-30°	805.9	14.5
0°-40°	1367.5	24.6
0°-60°	2649.0	47.6
0°-90°	4161.3	74.8
90°-120°	911.7	16.4
90°-150°	1354.0	24.3
90°-180°	1405.0	25.2
0°-180°	5566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	973	965	976	976	976	92
15°	938	946	980	998	1004	265
25°	868	897	960	994	1010	400
35°	768	824	913	969	993	481
45°	646	734	842	916	947	502
55°	523	611	747	838	875	459
65°	358	477	632	740	782	356
75°	188	334	511	637	681	201
85°	48	214	408	540	586	53
90°	3	175	365	497	543	4
95°	0	165	353	483	527	0
105°	0	152	322	443	486	0
115°	0	141	293	399	438	0
125°	0	122	260	352	386	0
135°	0	90	209	297	324	0
145°	0	59	146	222	254	1
155°	1	37	90	136	169	1
165°	1	20	40	56	80	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213180

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.6	966.6	966.6	966.6	966.6
2.5°	975.7	965.2	970.5	969.2	963.9
5°	973.1	965.2	975.7	975.7	975.7
7.5°	967.9	962.6	977.0	982.2	983.6
10°	960.0	960.0	979.6	987.5	990.1
12.5°	949.5	953.5	979.6	991.4	997.9
15°	937.8	945.6	979.6	997.9	1004.5
17.5°	923.4	936.5	977.0	999.3	1008.4
20°	906.4	926.0	973.1	999.3	1011.0
22.5°	888.1	912.9	967.9	996.6	1011.0
25°	868.5	897.2	960.0	994.0	1009.7
27.5°	844.9	881.5	950.9	990.1	1008.4
30°	821.4	863.2	940.4	984.9	1004.5
32.5°	795.2	843.6	927.3	977.0	999.3
35°	767.7	824.0	912.9	969.2	992.7
37.5°	740.3	800.4	898.5	958.7	984.9
40°	710.2	776.9	881.5	945.6	973.1
42.5°	688.0	752.1	863.2	932.5	961.3
45°	646.1	733.7	842.3	915.5	946.9
47.5°	613.4	698.4	821.4	898.5	931.2
50°	592.5	669.7	796.5	878.9	912.9
52.5°	542.8	650.0	773.0	859.3	895.9
55°	523.2	610.8	746.8	838.4	875.0
57.5°	469.5	583.3	720.7	814.8	852.8
60°	443.4	545.4	691.9	791.3	830.5
62.5°	402.8	512.7	663.1	765.1	805.7
65°	358.4	477.4	631.7	740.3	782.1
67.5°	316.5	442.1	601.6	714.1	758.6
70°	276.0	405.5	570.3	688.0	732.4
72.5°	228.9	368.8	540.2	663.1	707.6
75°	188.3	333.5	511.4	637.0	681.4
77.5°	149.1	299.5	483.9	613.4	657.9
80°	112.5	266.8	456.5	588.6	634.3
82.5°	78.5	239.3	431.6	565.0	609.5
85°	48.4	214.5	408.1	540.2	585.9
87.5°	22.2	192.3	384.5	516.6	563.7
90°	2.6	175.3	364.9	497.0	542.8
92.5°	1.3	170.0	357.1	487.9	532.3
95°	0.0	164.8	353.1	482.6	527.1
97.5°	0.0	159.6	344.0	474.8	520.6
100°	0.0	157.0	337.4	463.0	507.5
102.5°	0.0	153.0	329.6	452.5	497.0
105°	0.0	151.7	321.7	443.4	486.5
107.5°	0.0	149.1	313.9	431.6	474.8
110°	0.0	146.5	307.4	421.1	463.0

TEST NUMBER: P1213180

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	143.9	300.8	410.7	451.2
115°	0.0	141.3	293.0	398.9	438.2
117.5°	0.0	137.3	285.1	387.1	426.4
120°	0.0	132.1	277.3	376.7	413.3
122.5°	0.0	126.9	269.4	363.6	398.9
125°	0.0	121.6	260.3	351.8	385.8
127.5°	0.0	113.8	249.8	338.8	370.1
130°	0.0	105.9	236.7	325.7	355.8
132.5°	1.3	98.1	223.7	311.3	341.4
135°	0.0	90.2	209.3	296.9	324.4
137.5°	0.0	83.7	193.6	281.2	307.4
140°	0.0	75.9	177.9	262.9	290.4
142.5°	0.0	66.7	162.2	243.3	272.0
145°	0.0	58.9	146.5	222.3	253.7
147.5°	1.3	52.3	132.1	200.1	234.1
150°	1.3	47.1	117.7	177.9	211.9
152.5°	1.3	41.9	103.3	157.0	189.6
155°	1.3	36.6	90.2	136.0	168.7
157.5°	1.3	31.4	75.9	115.1	146.5
160°	1.3	27.5	62.8	96.8	125.6
162.5°	1.3	23.5	51.0	75.9	103.3
165°	1.3	19.6	40.5	56.2	79.8
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)