

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: P1213882

Luminaire Tested: 4SNLED-LD5-77SL-SLW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213882
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

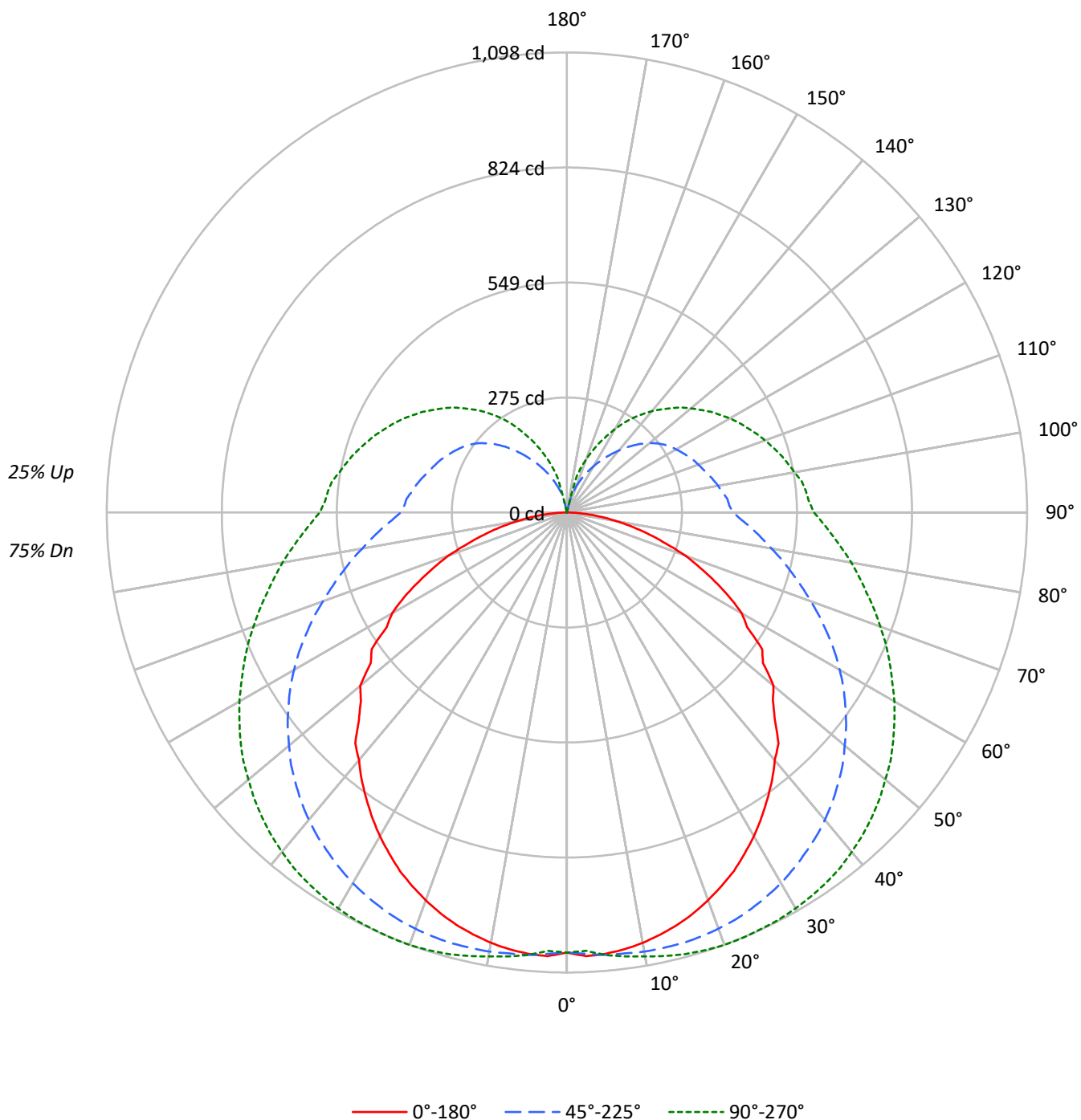
Lumens per Lamp: N/A
Luminaire Lumens: 6047.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 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: P1213882

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L940-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213882

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L940-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°	8486	8486	8486
5°	8553	8388	8325
10°	8512	8312	8279
15°	8453	8267	8296
20°	8373	8230	8310
25°	8292	8200	8324
30°	8180	8176	8369
35°	8052	8144	8425
40°	7932	8139	8481
45°	7778	8123	8549
50°	7802	8103	8615
55°	7666	8104	8719
60°	7386	8110	8837
65°	6976	8118	9001
70°	6523	8177	9255
75°	5721	8368	9627
80°	4831	8773	10251
85°	3593	9589	11157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 12695 cd/sqm

TEST NUMBER: P1213882

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.7
10°-20°	299.1	4.9
20°-30°	475.4	7.9
30°-40°	610.2	10.1
40°-50°	689.1	11.4
50°-60°	703.1	11.6
60°-70°	651.4	10.8
70°-80°	551.5	9.1
80°-90°	440.2	7.3
90°-100°	373.8	6.2
100°-110°	333.0	5.5
110°-120°	283.7	4.7
120°-130°	225.3	3.7
130°-140°	159.8	2.6
140°-150°	95.4	1.6
150°-160°	44.5	0.7
160°-170°	10.6	0.2
170°-180°	0.0	0.0
0°-30°	875.5	14.5
0°-40°	1485.7	24.6
0°-60°	2877.9	47.6
0°-90°	4520.9	74.8
90°-120°	990.5	16.4
90°-150°	1471.0	24.3
90°-180°	1526.0	25.2
0°-180°	6047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1057	1049	1060	1060	1060	100
15°	1019	1027	1064	1084	1091	287
25°	944	975	1043	1080	1097	434
35°	834	895	992	1053	1078	522
45°	702	797	915	995	1029	545
55°	568	664	811	911	951	499
65°	389	519	686	804	850	386
75°	205	362	556	692	740	218
85°	53	233	443	587	637	57
90°	3	190	396	540	590	4
95°	0	179	384	524	573	0
105°	0	165	350	482	529	0
115°	0	154	318	433	476	0
125°	0	132	283	382	419	0
135°	0	98	227	323	352	0
145°	0	64	159	242	276	1
155°	1	40	98	148	183	1
165°	1	21	44	61	87	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213882

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.1	1050.1	1050.1	1050.1	1050.1
2.5°	1060.0	1048.7	1054.3	1052.9	1047.2
5°	1057.2	1048.7	1060.0	1060.0	1060.0
7.5°	1051.5	1045.8	1061.4	1067.1	1068.6
10°	1043.0	1043.0	1064.3	1072.8	1075.7
12.5°	1031.6	1035.9	1064.3	1077.1	1084.2
15°	1018.8	1027.3	1064.3	1084.2	1091.3
17.5°	1003.2	1017.4	1061.4	1085.6	1095.5
20°	984.7	1006.0	1057.2	1085.6	1098.4
22.5°	964.8	991.8	1051.5	1082.8	1098.4
25°	943.5	974.8	1043.0	1079.9	1097.0
27.5°	917.9	957.7	1033.0	1075.7	1095.5
30°	892.4	937.8	1021.7	1070.0	1091.3
32.5°	863.9	916.5	1007.5	1061.4	1085.6
35°	834.1	895.2	991.8	1052.9	1078.5
37.5°	804.3	869.6	976.2	1041.6	1070.0
40°	771.6	844.0	957.7	1027.3	1057.2
42.5°	747.4	817.0	937.8	1013.1	1044.4
45°	701.9	797.2	915.1	994.7	1028.8
47.5°	666.4	758.8	892.4	976.2	1011.7
50°	643.7	727.5	865.4	954.9	991.8
52.5°	589.7	706.2	839.8	933.6	973.3
55°	568.4	663.6	811.4	910.8	950.6
57.5°	510.1	633.7	782.9	885.2	926.5
60°	481.7	592.5	751.7	859.7	902.3
62.5°	437.7	557.0	720.4	831.3	875.3
65°	389.3	518.6	686.3	804.3	849.7
67.5°	343.9	480.3	653.6	775.8	824.1
70°	299.8	440.5	619.5	747.4	795.7
72.5°	248.7	400.7	586.9	720.4	768.7
75°	204.6	362.3	555.6	692.0	740.3
77.5°	162.0	325.4	525.8	666.4	714.7
80°	122.2	289.9	495.9	639.4	689.2
82.5°	85.3	260.0	468.9	613.8	662.2
85°	52.6	233.0	443.3	586.9	636.6
87.5°	24.2	208.9	417.8	561.3	612.4
90°	2.8	190.4	396.4	540.0	589.7
92.5°	1.4	184.7	387.9	530.0	578.3
95°	0.0	179.0	383.7	524.3	572.6
97.5°	0.0	173.4	373.7	515.8	565.5
100°	0.0	170.5	366.6	503.0	551.3
102.5°	0.0	166.3	358.1	491.6	540.0
105°	0.0	164.8	349.6	481.7	528.6
107.5°	0.0	162.0	341.0	468.9	515.8
110°	0.0	159.1	333.9	457.5	503.0

TEST NUMBER: P1213882

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	156.3	326.8	446.2	490.2
115°	0.0	153.5	318.3	433.4	476.0
117.5°	0.0	149.2	309.8	420.6	463.2
120°	0.0	143.5	301.2	409.2	449.0
122.5°	0.0	137.8	292.7	395.0	433.4
125°	0.0	132.1	282.8	382.2	419.2
127.5°	0.0	123.6	271.4	368.0	402.1
130°	0.0	115.1	257.2	353.8	386.5
132.5°	1.4	106.6	243.0	338.2	370.9
135°	0.0	98.0	227.4	322.6	352.4
137.5°	0.0	90.9	210.3	305.5	333.9
140°	0.0	82.4	193.2	285.6	315.5
142.5°	0.0	72.5	176.2	264.3	295.6
145°	0.0	63.9	159.1	241.6	275.7
147.5°	1.4	56.8	143.5	217.4	254.3
150°	1.4	51.2	127.9	193.2	230.2
152.5°	1.4	45.5	112.3	170.5	206.0
155°	1.4	39.8	98.0	147.8	183.3
157.5°	1.4	34.1	82.4	125.0	159.1
160°	1.4	29.8	68.2	105.2	136.4
162.5°	1.4	25.6	55.4	82.4	112.3
165°	1.4	21.3	44.0	61.1	86.7
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)