

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: P1214233

Luminaire Tested: 4SNLED-LD5-77SL-SLW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214233
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

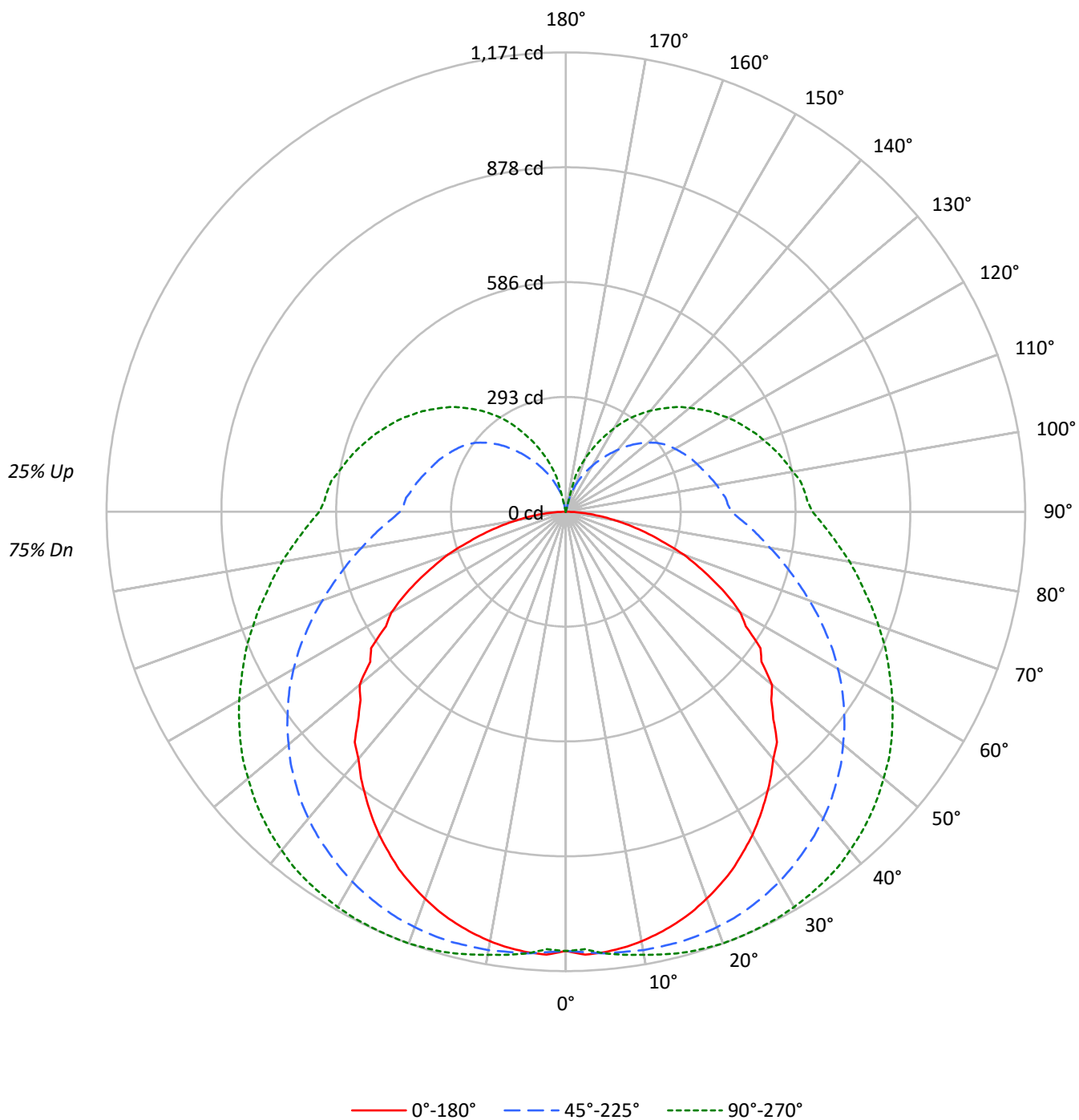
Lumens per Lamp: N/A
Luminaire Lumens: 6446.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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: P1214233

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L950-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1214233

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L950-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°	9046	9046	9046
5°	9116	8942	8875
10°	9073	8860	8825
15°	9010	8812	8843
20°	8926	8773	8859
25°	8839	8741	8874
30°	8718	8716	8921
35°	8583	8682	8981
40°	8455	8676	9040
45°	8293	8659	9112
50°	8317	8638	9184
55°	8172	8638	9294
60°	7873	8645	9420
65°	7437	8653	9596
70°	6954	8717	9866
75°	6098	8919	10263
80°	5151	9351	10926
85°	3826	10223	11893

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 13532 cd/sqm

TEST NUMBER: P1214233

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.7
10°-20°	318.9	4.9
20°-30°	506.8	7.9
30°-40°	650.5	10.1
40°-50°	734.5	11.4
50°-60°	749.5	11.6
60°-70°	694.4	10.8
70°-80°	587.8	9.1
80°-90°	469.3	7.3
90°-100°	398.5	6.2
100°-110°	355.0	5.5
110°-120°	302.4	4.7
120°-130°	240.2	3.7
130°-140°	170.4	2.6
140°-150°	101.7	1.6
150°-160°	47.4	0.7
160°-170°	11.3	0.2
170°-180°	0.0	0.0
0°-30°	933.3	14.5
0°-40°	1583.8	24.6
0°-60°	3067.8	47.6
0°-90°	4819.3	74.8
90°-120°	1055.8	16.4
90°-150°	1568.1	24.3
90°-180°	1627.0	25.2
0°-180°	6446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1127	1118	1130	1130	1130	107
15°	1086	1095	1134	1156	1163	306
25°	1006	1039	1112	1151	1169	463
35°	889	954	1057	1122	1150	557
45°	748	850	976	1060	1097	581
55°	606	707	865	971	1013	532
65°	415	553	732	857	906	412
75°	218	386	592	738	789	232
85°	56	248	473	626	679	61
90°	3	203	423	576	629	5
95°	0	191	409	559	610	0
105°	0	176	373	514	564	0
115°	0	164	339	462	507	0
125°	0	141	301	408	447	0
135°	0	104	242	344	376	0
145°	0	68	170	258	294	1
155°	2	42	104	158	195	1
165°	2	23	47	65	92	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1214233

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1119.4	1119.4	1119.4	1119.4	1119.4
2.5°	1130.0	1117.9	1123.9	1122.4	1116.3
5°	1126.9	1117.9	1130.0	1130.0	1130.0
7.5°	1120.9	1114.8	1131.5	1137.5	1139.1
10°	1111.8	1111.8	1134.5	1143.6	1146.6
12.5°	1099.7	1104.2	1134.5	1148.1	1155.7
15°	1086.0	1095.1	1134.5	1155.7	1163.3
17.5°	1069.4	1084.5	1131.5	1157.2	1167.8
20°	1049.7	1072.4	1126.9	1157.2	1170.9
22.5°	1028.5	1057.3	1120.9	1154.2	1170.9
25°	1005.8	1039.1	1111.8	1151.2	1169.4
27.5°	978.5	1020.9	1101.2	1146.6	1167.8
30°	951.2	999.7	1089.1	1140.6	1163.3
32.5°	920.9	977.0	1073.9	1131.5	1157.2
35°	889.1	954.3	1057.3	1122.4	1149.7
37.5°	857.3	927.0	1040.6	1110.3	1140.6
40°	822.5	899.7	1020.9	1095.1	1126.9
42.5°	796.7	871.0	999.7	1080.0	1113.3
45°	748.3	849.7	975.5	1060.3	1096.6
47.5°	710.4	808.9	951.2	1040.6	1078.5
50°	686.2	775.5	922.5	1017.9	1057.3
52.5°	628.6	752.8	895.2	995.2	1037.6
55°	605.9	707.4	864.9	970.9	1013.3
57.5°	543.8	675.6	834.6	943.7	987.6
60°	513.5	631.6	801.3	916.4	961.8
62.5°	466.5	593.8	768.0	886.1	933.1
65°	415.0	552.9	731.6	857.3	905.8
67.5°	366.6	512.0	696.8	827.0	878.5
70°	319.6	469.6	660.4	796.7	848.2
72.5°	265.1	427.1	625.6	768.0	819.5
75°	218.1	386.2	592.2	737.7	789.2
77.5°	172.7	346.9	560.4	710.4	761.9
80°	130.3	309.0	528.6	681.6	734.6
82.5°	90.9	277.2	499.9	654.4	705.9
85°	56.0	248.4	472.6	625.6	678.6
87.5°	25.7	222.7	445.3	598.3	652.8
90°	3.0	203.0	422.6	575.6	628.6
92.5°	1.5	196.9	413.5	565.0	616.5
95°	0.0	190.9	409.0	558.9	610.4
97.5°	0.0	184.8	398.4	549.8	602.9
100°	0.0	181.8	390.8	536.2	587.7
102.5°	0.0	177.2	381.7	524.1	575.6
105°	0.0	175.7	372.6	513.5	563.5
107.5°	0.0	172.7	363.5	499.9	549.8
110°	0.0	169.6	356.0	487.7	536.2

TEST NUMBER: P1214233

CATALOG NUMBER: 4SNLED-LD5-77SL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	166.6	348.4	475.6	522.6
115°	0.0	163.6	339.3	462.0	507.4
117.5°	0.0	159.0	330.2	448.4	493.8
120°	0.0	153.0	321.1	436.2	478.6
122.5°	0.0	146.9	312.0	421.1	462.0
125°	0.0	140.9	301.4	407.5	446.8
127.5°	0.0	131.8	289.3	392.3	428.7
130°	0.0	122.7	274.2	377.2	412.0
132.5°	1.5	113.6	259.0	360.5	395.3
135°	0.0	104.5	242.4	343.8	375.6
137.5°	0.0	96.9	224.2	325.7	356.0
140°	0.0	87.9	206.0	304.5	336.3
142.5°	0.0	77.2	187.8	281.7	315.1
145°	0.0	68.2	169.6	257.5	293.9
147.5°	1.5	60.6	153.0	231.7	271.1
150°	1.5	54.5	136.3	206.0	245.4
152.5°	1.5	48.5	119.7	181.8	219.6
155°	1.5	42.4	104.5	157.5	195.4
157.5°	1.5	36.4	87.9	133.3	169.6
160°	1.5	31.8	72.7	112.1	145.4
162.5°	1.5	27.3	59.1	87.9	119.7
165°	1.5	22.7	47.0	65.1	92.4
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)