

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: P1213751

Luminaire Tested: 4SNLED-LD5-33SL-SLW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213751
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-LD5-33SL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

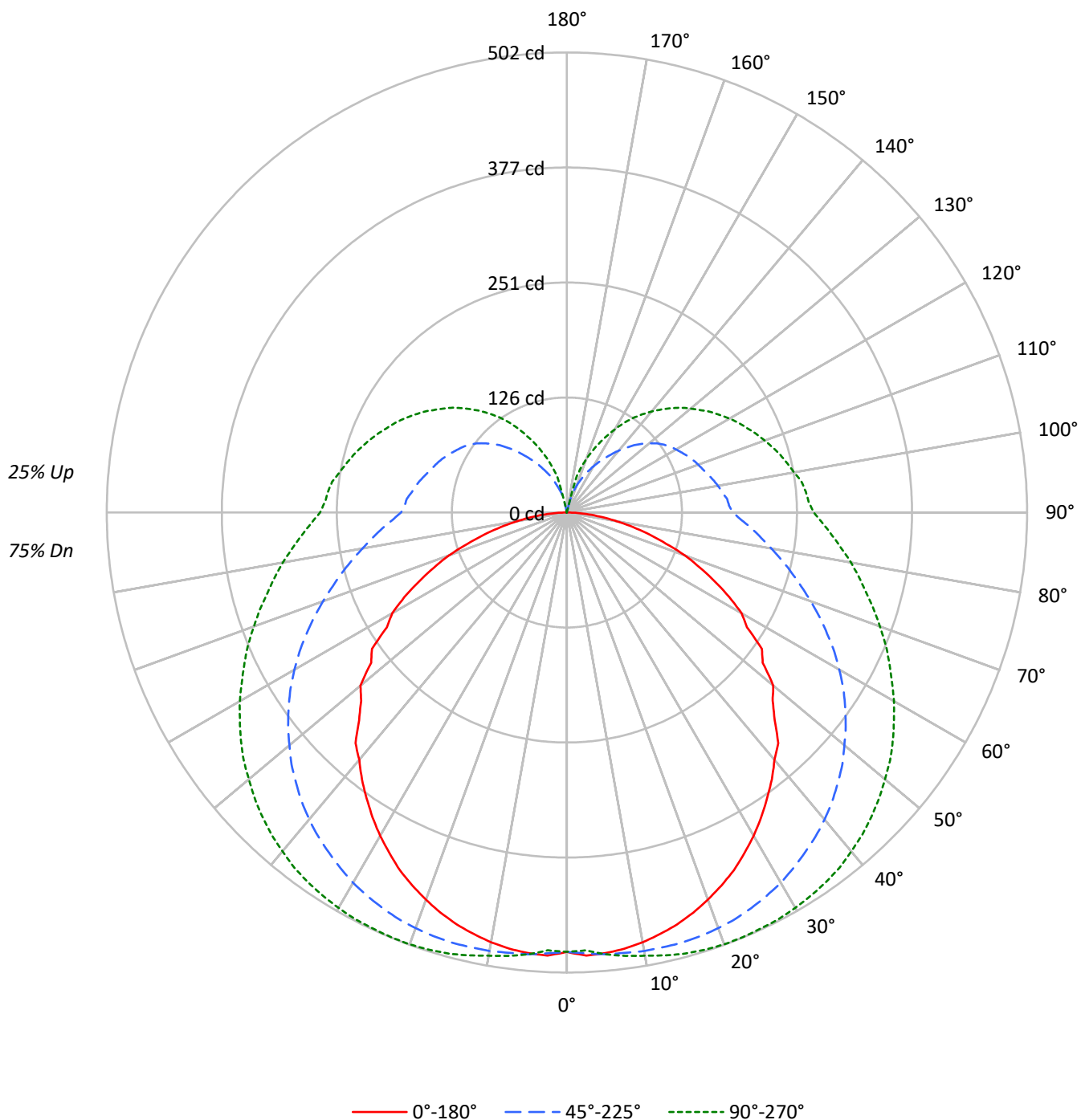
Lumens per Lamp: N/A
Luminaire Lumens: 2761.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 28
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: P1213751

CATALOG NUMBER: 4SNLED-LD5-33SL-SLW-UNV-L940-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213751

CATALOG NUMBER: 4SNLED-LD5-33SL-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°	3875	3875	3875
5°	3905	3830	3801
10°	3886	3795	3780
15°	3860	3774	3788
20°	3823	3758	3794
25°	3786	3744	3801
30°	3734	3733	3822
35°	3676	3719	3847
40°	3621	3716	3872
45°	3552	3708	3903
50°	3562	3699	3934
55°	3500	3700	3981
60°	3372	3703	4035
65°	3186	3707	4110
70°	2979	3734	4226
75°	2612	3821	4396
80°	2206	4005	4681
85°	1640	4378	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 5795 cd/sqm

TEST NUMBER: P1213751

CATALOG NUMBER: 4SNLED-LD5-33SL-SLW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.7
10°-20°	136.6	4.9
20°-30°	217.1	7.9
30°-40°	278.6	10.1
40°-50°	314.6	11.4
50°-60°	321.0	11.6
60°-70°	297.4	10.8
70°-80°	251.8	9.1
80°-90°	201.0	7.3
90°-100°	170.7	6.2
100°-110°	152.1	5.5
110°-120°	129.5	4.7
120°-130°	102.9	3.7
130°-140°	73.0	2.6
140°-150°	43.6	1.6
150°-160°	20.3	0.7
160°-170°	4.8	0.2
170°-180°	0.0	0.0
0°-30°	399.8	14.5
0°-40°	678.4	24.6
0°-60°	1314.0	47.6
0°-90°	2064.2	74.8
90°-120°	452.2	16.4
90°-150°	671.6	24.3
90°-180°	697.0	25.2
0°-180°	2761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	480	480	480	480	480	
5°	483	479	484	484	484	46
15°	465	469	486	495	498	131
25°	431	445	476	493	501	198
35°	381	409	453	481	492	238
45°	320	364	418	454	470	249
55°	260	303	370	416	434	228
65°	178	237	313	367	388	176
75°	93	165	254	316	338	99
85°	24	106	202	268	291	26
90°	1	87	181	246	269	2
95°	0	82	175	239	262	0
105°	0	75	160	220	241	0
115°	0	70	145	198	217	0
125°	0	60	129	174	191	0
135°	0	45	104	147	161	0
145°	0	29	73	110	126	0
155°	1	18	45	68	84	0
165°	1	10	20	28	40	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213751

CATALOG NUMBER: 4SNLED-LD5-33SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	479.5	479.5	479.5	479.5	479.5
2.5°	484.0	478.8	481.4	480.8	478.2
5°	482.7	478.8	484.0	484.0	484.0
7.5°	480.1	477.5	484.6	487.2	487.9
10°	476.2	476.2	485.9	489.8	491.1
12.5°	471.0	473.0	485.9	491.8	495.0
15°	465.2	469.1	485.9	495.0	498.3
17.5°	458.0	464.5	484.6	495.7	500.2
20°	449.6	459.3	482.7	495.7	501.5
22.5°	440.5	452.9	480.1	494.4	501.5
25°	430.8	445.1	476.2	493.1	500.9
27.5°	419.1	437.3	471.7	491.1	500.2
30°	407.4	428.2	466.5	488.5	498.3
32.5°	394.5	418.5	460.0	484.6	495.7
35°	380.8	408.7	452.9	480.8	492.4
37.5°	367.2	397.1	445.7	475.6	488.5
40°	352.3	385.4	437.3	469.1	482.7
42.5°	341.3	373.1	428.2	462.6	476.9
45°	320.5	364.0	417.8	454.2	469.7
47.5°	304.3	346.5	407.4	445.7	461.9
50°	293.9	332.2	395.1	436.0	452.9
52.5°	269.2	322.4	383.4	426.3	444.4
55°	259.5	303.0	370.5	415.9	434.0
57.5°	232.9	289.4	357.5	404.2	423.0
60°	219.9	270.5	343.2	392.5	412.0
62.5°	199.8	254.3	328.9	379.5	399.7
65°	177.8	236.8	313.4	367.2	388.0
67.5°	157.0	219.3	298.4	354.2	376.3
70°	136.9	201.1	282.9	341.3	363.3
72.5°	113.5	183.0	268.0	328.9	351.0
75°	93.4	165.4	253.7	316.0	338.0
77.5°	74.0	148.6	240.1	304.3	326.3
80°	55.8	132.4	226.4	292.0	314.7
82.5°	38.9	118.7	214.1	280.3	302.3
85°	24.0	106.4	202.4	268.0	290.7
87.5°	11.0	95.4	190.7	256.3	279.6
90°	1.3	86.9	181.0	246.5	269.2
92.5°	0.6	84.3	177.1	242.0	264.1
95°	0.0	81.7	175.2	239.4	261.5
97.5°	0.0	79.2	170.6	235.5	258.2
100°	0.0	77.9	167.4	229.7	251.7
102.5°	0.0	75.9	163.5	224.5	246.5
105°	0.0	75.3	159.6	219.9	241.3
107.5°	0.0	74.0	155.7	214.1	235.5
110°	0.0	72.7	152.5	208.9	229.7

TEST NUMBER: P1213751

CATALOG NUMBER: 4SNLED-LD5-33SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	71.4	149.2	203.7	223.8
115°	0.0	70.1	145.3	197.9	217.3
117.5°	0.0	68.1	141.4	192.0	211.5
120°	0.0	65.5	137.5	186.9	205.0
122.5°	0.0	62.9	133.7	180.4	197.9
125°	0.0	60.3	129.1	174.5	191.4
127.5°	0.0	56.4	123.9	168.0	183.6
130°	0.0	52.6	117.4	161.5	176.5
132.5°	0.6	48.7	110.9	154.4	169.3
135°	0.0	44.8	103.8	147.3	160.9
137.5°	0.0	41.5	96.0	139.5	152.5
140°	0.0	37.6	88.2	130.4	144.0
142.5°	0.0	33.1	80.4	120.7	134.9
145°	0.0	29.2	72.7	110.3	125.9
147.5°	0.6	26.0	65.5	99.3	116.1
150°	0.6	23.4	58.4	88.2	105.1
152.5°	0.6	20.8	51.3	77.9	94.1
155°	0.6	18.2	44.8	67.5	83.7
157.5°	0.6	15.6	37.6	57.1	72.7
160°	0.6	13.6	31.1	48.0	62.3
162.5°	0.6	11.7	25.3	37.6	51.3
165°	0.6	9.7	20.1	27.9	39.6
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)