

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: P1214102

Luminaire Tested: 4SNLED-LD5-33SL-SLW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214102
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

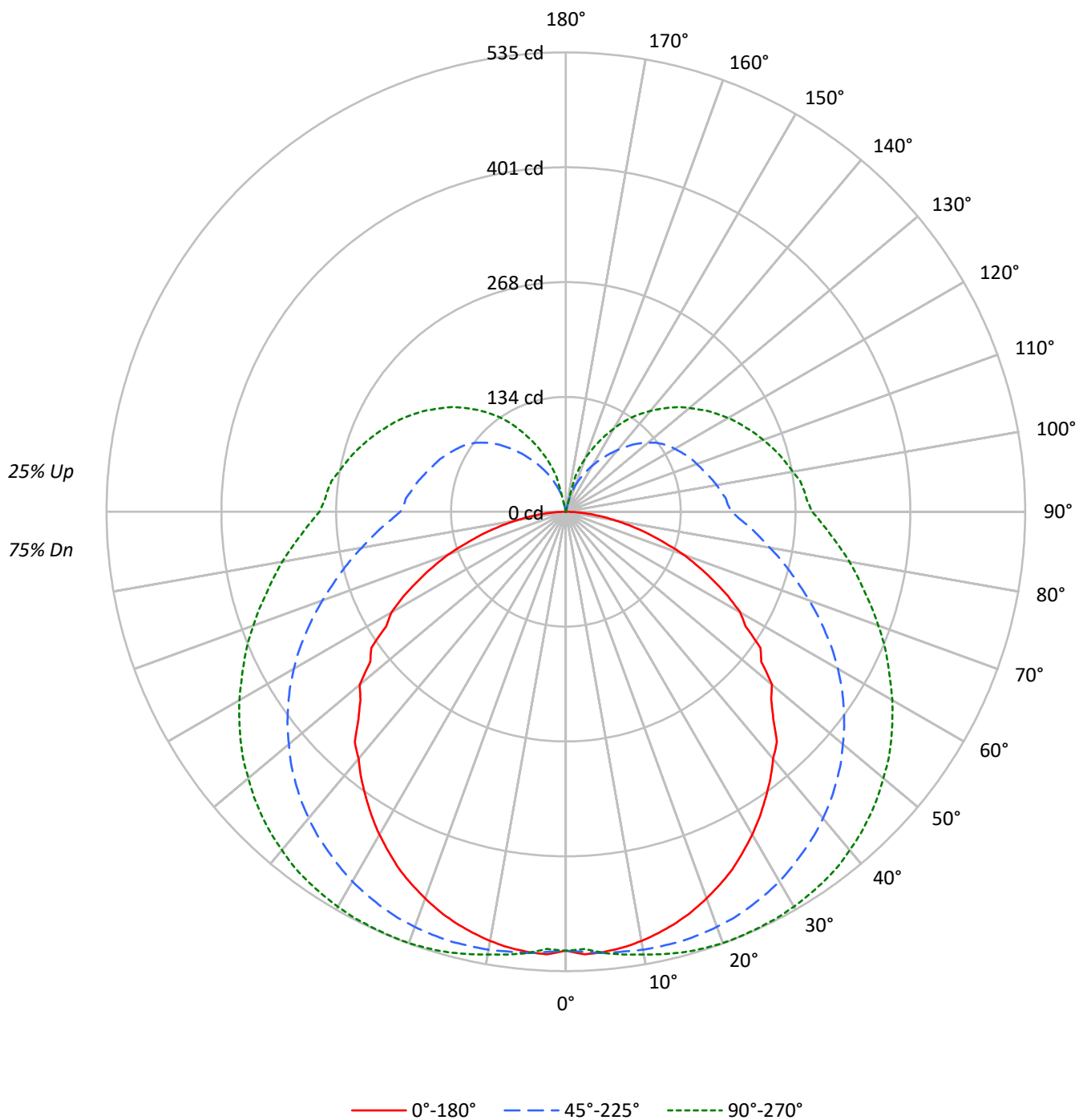
Lumens per Lamp: N/A
Luminaire Lumens: 2943.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot



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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°	4130	4130	4130
5°	4162	4082	4052
10°	4142	4045	4029
15°	4113	4024	4037
20°	4075	4005	4045
25°	4036	3991	4051
30°	3981	3979	4073
35°	3919	3964	4100
40°	3860	3961	4127
45°	3786	3953	4160
50°	3797	3944	4193
55°	3730	3944	4244
60°	3594	3947	4301
65°	3396	3951	4381
70°	3175	3980	4505
75°	2785	4073	4686
80°	2352	4270	4989
85°	1749	4668	5429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 6178 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.7
10°-20°	145.6	4.9
20°-30°	231.4	7.9
30°-40°	297.0	10.1
40°-50°	335.4	11.4
50°-60°	342.2	11.6
60°-70°	317.0	10.8
70°-80°	268.4	9.1
80°-90°	214.3	7.3
90°-100°	181.9	6.2
100°-110°	162.1	5.5
110°-120°	138.1	4.7
120°-130°	109.7	3.7
130°-140°	77.8	2.6
140°-150°	46.4	1.6
150°-160°	21.6	0.7
160°-170°	5.1	0.2
170°-180°	0.0	0.0
0°-30°	426.1	14.5
0°-40°	723.1	24.6
0°-60°	1400.6	47.6
0°-90°	2200.3	74.8
90°-120°	482.0	16.4
90°-150°	715.9	24.3
90°-180°	743.0	25.2
0°-180°	2943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	514	510	516	516	516	49
15°	496	500	518	528	531	140
25°	459	474	508	526	534	211
35°	406	436	483	512	525	254
45°	342	388	445	484	501	265
55°	277	323	395	443	463	243
65°	190	252	334	391	414	188
75°	100	176	270	337	360	106
85°	26	113	216	286	310	28
90°	1	93	193	263	287	2
95°	0	87	187	255	279	0
105°	0	80	170	234	257	0
115°	0	75	155	211	232	0
125°	0	64	138	186	204	0
135°	0	48	111	157	172	0
145°	0	31	78	118	134	0
155°	1	19	48	72	89	0
165°	1	10	21	30	42	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	511.1	511.1	511.1	511.1	511.1
2.5°	515.9	510.4	513.1	512.4	509.7
5°	514.5	510.4	515.9	515.9	515.9
7.5°	511.8	509.0	516.6	519.4	520.1
10°	507.6	507.6	518.0	522.1	523.5
12.5°	502.1	504.1	518.0	524.2	527.7
15°	495.8	500.0	518.0	527.7	531.1
17.5°	488.2	495.2	516.6	528.3	533.2
20°	479.2	489.6	514.5	528.3	534.6
22.5°	469.6	482.7	511.8	527.0	534.6
25°	459.2	474.4	507.6	525.6	533.9
27.5°	446.7	466.1	502.8	523.5	533.2
30°	434.3	456.4	497.2	520.7	531.1
32.5°	420.5	446.1	490.3	516.6	528.3
35°	405.9	435.7	482.7	512.4	524.9
37.5°	391.4	423.2	475.1	506.9	520.7
40°	375.5	410.8	466.1	500.0	514.5
42.5°	363.8	397.6	456.4	493.1	508.3
45°	341.6	388.0	445.4	484.1	500.7
47.5°	324.3	369.3	434.3	475.1	492.4
50°	313.3	354.1	421.2	464.7	482.7
52.5°	287.0	343.7	408.7	454.4	473.7
55°	276.6	323.0	394.9	443.3	462.7
57.5°	248.3	308.4	381.0	430.8	450.9
60°	234.4	288.4	365.8	418.4	439.1
62.5°	213.0	271.1	350.6	404.6	426.0
65°	189.5	252.4	334.0	391.4	413.6
67.5°	167.4	233.7	318.1	377.6	401.1
70°	145.9	214.4	301.5	363.8	387.3
72.5°	121.0	195.0	285.6	350.6	374.1
75°	99.6	176.3	270.4	336.8	360.3
77.5°	78.8	158.4	255.9	324.3	347.9
80°	59.5	141.1	241.4	311.2	335.4
82.5°	41.5	126.6	228.2	298.8	322.3
85°	25.6	113.4	215.8	285.6	309.8
87.5°	11.8	101.7	203.3	273.2	298.1
90°	1.4	92.7	192.9	262.8	287.0
92.5°	0.7	89.9	188.8	258.0	281.5
95°	0.0	87.1	186.7	255.2	278.7
97.5°	0.0	84.4	181.9	251.0	275.2
100°	0.0	83.0	178.4	244.8	268.3
102.5°	0.0	80.9	174.3	239.3	262.8
105°	0.0	80.2	170.1	234.4	257.3
107.5°	0.0	78.8	166.0	228.2	251.0
110°	0.0	77.5	162.5	222.7	244.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	76.1	159.1	217.1	238.6
115°	0.0	74.7	154.9	210.9	231.7
117.5°	0.0	72.6	150.8	204.7	225.4
120°	0.0	69.8	146.6	199.2	218.5
122.5°	0.0	67.1	142.5	192.3	210.9
125°	0.0	64.3	137.6	186.0	204.0
127.5°	0.0	60.2	132.1	179.1	195.7
130°	0.0	56.0	125.2	172.2	188.1
132.5°	0.7	51.9	118.3	164.6	180.5
135°	0.0	47.7	110.6	157.0	171.5
137.5°	0.0	44.3	102.4	148.7	162.5
140°	0.0	40.1	94.1	139.0	153.5
142.5°	0.0	35.3	85.8	128.6	143.8
145°	0.0	31.1	77.5	117.6	134.2
147.5°	0.7	27.7	69.8	105.8	123.8
150°	0.7	24.9	62.2	94.1	112.0
152.5°	0.7	22.1	54.6	83.0	100.3
155°	0.7	19.4	47.7	71.9	89.2
157.5°	0.7	16.6	40.1	60.9	77.5
160°	0.7	14.5	33.2	51.2	66.4
162.5°	0.7	12.4	27.0	40.1	54.6
165°	0.7	10.4	21.4	29.7	42.2
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)