

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: P1213738

Luminaire Tested: 4SNLED-LD5-27SL-SLW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213738
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-LD5-27SL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

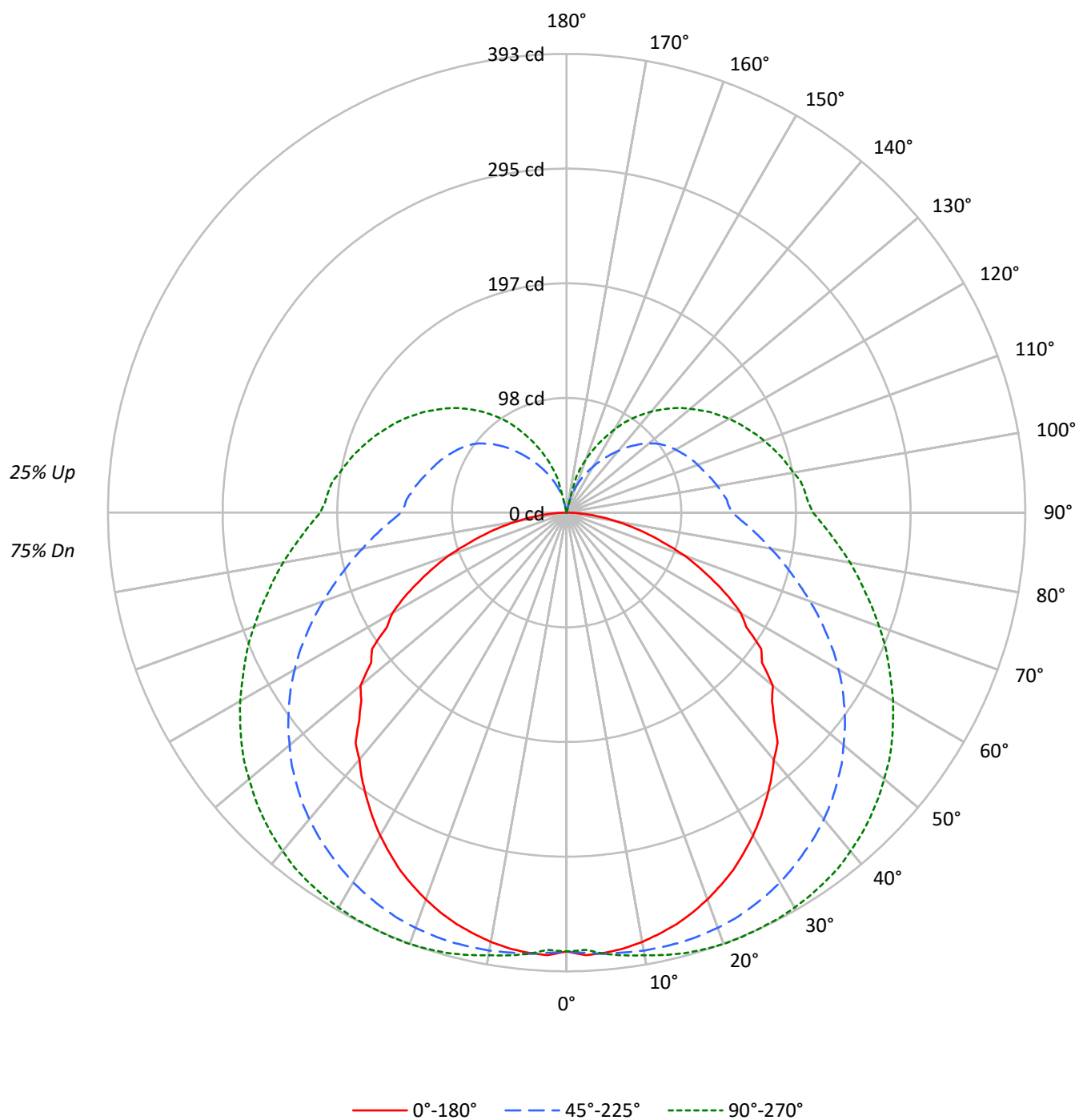
Lumens per Lamp: N/A
Luminaire Lumens: 2165.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 21
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°	3038	3038	3038
5°	3062	3003	2981
10°	3047	2976	2964
15°	3027	2959	2970
20°	2998	2947	2976
25°	2969	2936	2980
30°	2928	2927	2996
35°	2883	2916	3016
40°	2839	2914	3036
45°	2785	2908	3060
50°	2794	2901	3084
55°	2745	2901	3121
60°	2645	2903	3164
65°	2498	2906	3223
70°	2335	2928	3314
75°	2050	2996	3447
80°	1731	3142	3669
85°	1284	3433	3994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 4545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	1.7
10°-20°	107.1	4.9
20°-30°	170.2	7.9
30°-40°	218.5	10.1
40°-50°	246.7	11.4
50°-60°	251.7	11.6
60°-70°	233.2	10.8
70°-80°	197.4	9.1
80°-90°	157.6	7.3
90°-100°	133.8	6.2
100°-110°	119.2	5.5
110°-120°	101.6	4.7
120°-130°	80.7	3.7
130°-140°	57.2	2.6
140°-150°	34.2	1.6
150°-160°	15.9	0.7
160°-170°	3.8	0.2
170°-180°	0.0	0.0
0°-30°	313.5	14.5
0°-40°	531.9	24.6
0°-60°	1030.4	47.6
0°-90°	1618.6	74.8
90°-120°	354.6	16.4
90°-150°	526.7	24.3
90°-180°	546.0	25.2
0°-180°	2165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	376	376	376	376	376	
5°	378	375	380	380	380	36
15°	365	368	381	388	391	103
25°	338	349	373	387	393	156
35°	299	320	355	377	386	187
45°	251	285	328	356	368	195
55°	204	238	290	326	340	179
65°	139	186	246	288	304	138
75°	73	130	199	248	265	78
85°	19	83	159	210	228	21
90°	1	68	142	193	211	2
95°	0	64	137	188	205	0
105°	0	59	125	172	189	0
115°	0	55	114	155	170	0
125°	0	47	101	137	150	0
135°	0	35	81	116	126	0
145°	0	23	57	86	99	0
155°	0	14	35	53	66	0
165°	0	8	16	22	31	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°	376.0	376.0	376.0	376.0	376.0
2.5°	379.5	375.4	377.5	377.0	374.9
5°	378.5	375.4	379.5	379.5	379.5
7.5°	376.5	374.4	380.0	382.1	382.6
10°	373.4	373.4	381.0	384.1	385.1
12.5°	369.3	370.9	381.0	385.6	388.2
15°	364.8	367.8	381.0	388.2	390.7
17.5°	359.2	364.3	380.0	388.7	392.2
20°	352.6	360.2	378.5	388.7	393.3
22.5°	345.4	355.1	376.5	387.7	393.3
25°	337.8	349.0	373.4	386.6	392.7
27.5°	328.6	342.9	369.9	385.1	392.2
30°	319.5	335.8	365.8	383.1	390.7
32.5°	309.3	328.1	360.7	380.0	388.7
35°	298.6	320.5	355.1	377.0	386.1
37.5°	287.9	311.3	349.5	372.9	383.1
40°	276.2	302.2	342.9	367.8	378.5
42.5°	267.6	292.5	335.8	362.7	373.9
45°	251.3	285.4	327.6	356.1	368.3
47.5°	238.6	271.7	319.5	349.5	362.2
50°	230.5	260.5	309.8	341.9	355.1
52.5°	211.1	252.8	300.7	334.2	348.5
55°	203.5	237.6	290.5	326.1	340.3
57.5°	182.6	226.9	280.3	316.9	331.7
60°	172.5	212.1	269.1	307.8	323.0
62.5°	156.7	199.4	257.9	297.6	313.4
65°	139.4	185.7	245.7	287.9	304.2
67.5°	123.1	172.0	234.0	277.8	295.1
70°	107.3	157.7	221.8	267.6	284.9
72.5°	89.0	143.5	210.1	257.9	275.2
75°	73.3	129.7	198.9	247.8	265.1
77.5°	58.0	116.5	188.2	238.6	255.9
80°	43.8	103.8	177.6	228.9	246.7
82.5°	30.5	93.1	167.9	219.8	237.1
85°	18.8	83.4	158.7	210.1	227.9
87.5°	8.6	74.8	149.6	201.0	219.3
90°	1.0	68.2	141.9	193.3	211.1
92.5°	0.5	66.1	138.9	189.8	207.1
95°	0.0	64.1	137.4	187.7	205.0
97.5°	0.0	62.1	133.8	184.7	202.5
100°	0.0	61.0	131.3	180.1	197.4
102.5°	0.0	59.5	128.2	176.0	193.3
105°	0.0	59.0	125.1	172.5	189.3
107.5°	0.0	58.0	122.1	167.9	184.7
110°	0.0	57.0	119.6	163.8	180.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	56.0	117.0	159.7	175.5
115°	0.0	54.9	114.0	155.2	170.4
117.5°	0.0	53.4	110.9	150.6	165.8
120°	0.0	51.4	107.9	146.5	160.8
122.5°	0.0	49.3	104.8	141.4	155.2
125°	0.0	47.3	101.2	136.9	150.1
127.5°	0.0	44.3	97.2	131.8	144.0
130°	0.0	41.2	92.1	126.7	138.4
132.5°	0.5	38.2	87.0	121.1	132.8
135°	0.0	35.1	81.4	115.5	126.2
137.5°	0.0	32.6	75.3	109.4	119.6
140°	0.0	29.5	69.2	102.3	112.9
142.5°	0.0	25.9	63.1	94.6	105.8
145°	0.0	22.9	57.0	86.5	98.7
147.5°	0.5	20.3	51.4	77.8	91.1
150°	0.5	18.3	45.8	69.2	82.4
152.5°	0.5	16.3	40.2	61.0	73.8
155°	0.5	14.2	35.1	52.9	65.6
157.5°	0.5	12.2	29.5	44.8	57.0
160°	0.5	10.7	24.4	37.6	48.8
162.5°	0.5	9.2	19.8	29.5	40.2
165°	0.5	7.6	15.8	21.9	31.0
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)