

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: P1213036

Luminaire Tested: 4SNLED-LD5-27SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213036
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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

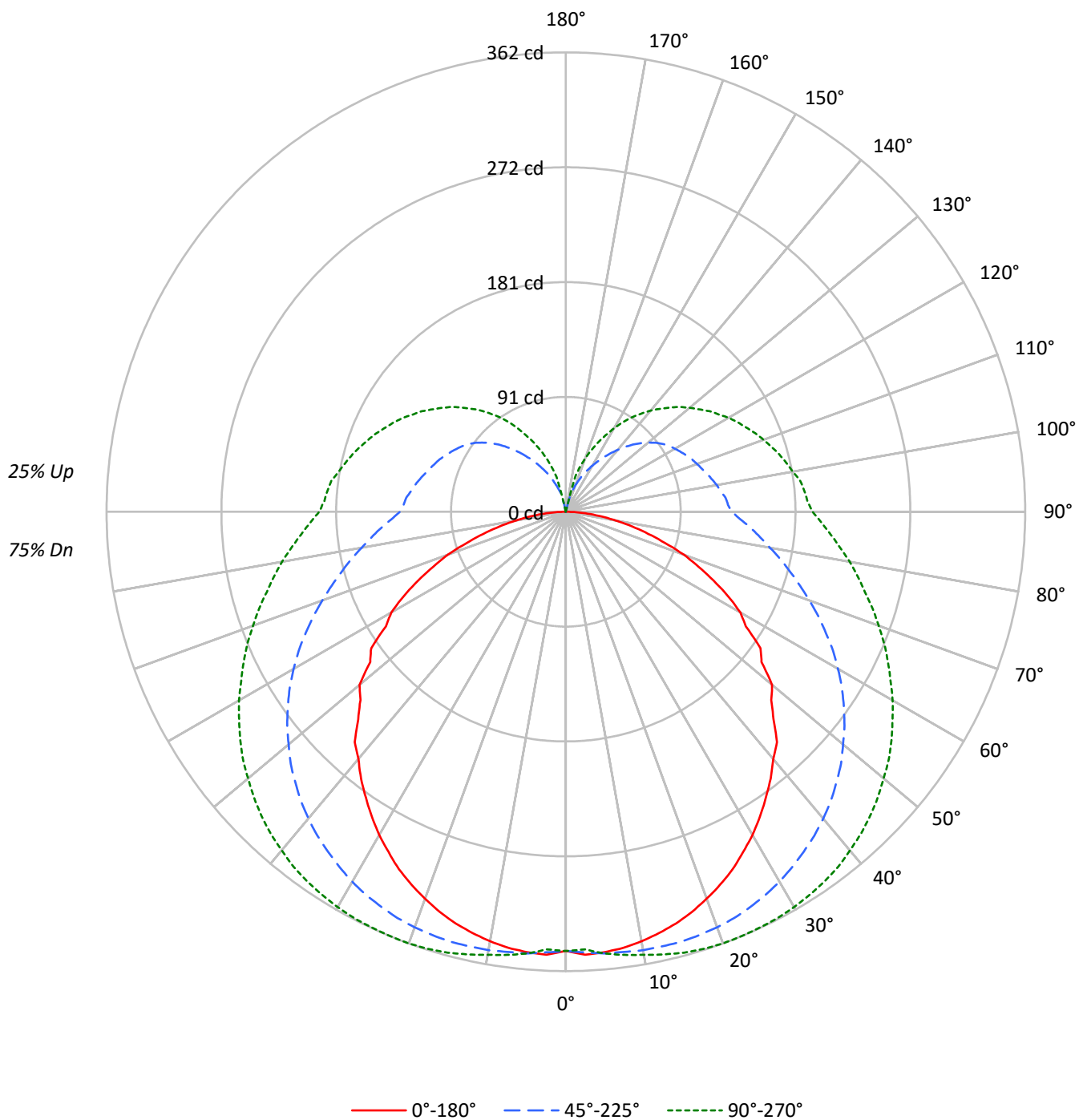
Lumens per Lamp: N/A
Luminaire Lumens: 1993.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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°	2797	2797	2797
5°	2818	2765	2744
10°	2805	2740	2728
15°	2786	2725	2734
20°	2759	2712	2739
25°	2733	2702	2743
30°	2696	2695	2759
35°	2654	2684	2777
40°	2614	2682	2795
45°	2564	2677	2818
50°	2572	2670	2839
55°	2526	2671	2874
60°	2435	2672	2913
65°	2299	2676	2967
70°	2150	2695	3051
75°	1885	2758	3173
80°	1593	2891	3378
85°	1182	3160	3677

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 4185 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	1.7
10°-20°	98.6	4.9
20°-30°	156.7	7.9
30°-40°	201.1	10.1
40°-50°	227.1	11.4
50°-60°	231.7	11.6
60°-70°	214.7	10.8
70°-80°	181.7	9.1
80°-90°	145.1	7.3
90°-100°	123.2	6.2
100°-110°	109.8	5.5
110°-120°	93.5	4.7
120°-130°	74.3	3.7
130°-140°	52.7	2.6
140°-150°	31.5	1.6
150°-160°	14.7	0.7
160°-170°	3.5	0.2
170°-180°	0.0	0.0
0°-30°	288.6	14.5
0°-40°	489.7	24.6
0°-60°	948.5	47.6
0°-90°	1490.0	74.8
90°-120°	326.5	16.4
90°-150°	484.8	24.3
90°-180°	503.0	25.2
0°-180°	1993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	346	346	346	346	346	
5°	348	346	349	349	349	33
15°	336	339	351	357	360	95
25°	311	321	344	356	362	143
35°	275	295	327	347	356	172
45°	231	263	302	328	339	180
55°	187	219	267	300	313	164
65°	128	171	226	265	280	127
75°	67	119	183	228	244	72
85°	17	77	146	193	210	19
90°	1	63	131	178	194	1
95°	0	59	126	173	189	0
105°	0	54	115	159	174	0
115°	0	51	105	143	157	0
125°	0	44	93	126	138	0
135°	0	32	75	106	116	0
145°	0	21	52	80	91	0
155°	0	13	32	49	60	0
165°	0	7	14	20	29	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°	346.1	346.1	346.1	346.1	346.1
2.5°	349.4	345.6	347.5	347.0	345.2
5°	348.4	345.6	349.4	349.4	349.4
7.5°	346.6	344.7	349.8	351.7	352.2
10°	343.7	343.7	350.8	353.6	354.5
12.5°	340.0	341.4	350.8	355.0	357.3
15°	335.8	338.6	350.8	357.3	359.7
17.5°	330.6	335.3	349.8	357.8	361.1
20°	324.5	331.6	348.4	357.8	362.0
22.5°	318.0	326.9	346.6	356.9	362.0
25°	311.0	321.3	343.7	355.9	361.5
27.5°	302.5	315.6	340.5	354.5	361.1
30°	294.1	309.1	336.7	352.6	359.7
32.5°	284.7	302.1	332.0	349.8	357.8
35°	274.9	295.0	326.9	347.0	355.5
37.5°	265.1	286.6	321.7	343.3	352.6
40°	254.3	278.2	315.6	338.6	348.4
42.5°	246.3	269.3	309.1	333.9	344.2
45°	231.4	262.7	301.6	327.8	339.1
47.5°	219.6	250.1	294.1	321.7	333.4
50°	212.2	239.8	285.2	314.7	326.9
52.5°	194.4	232.8	276.8	307.7	320.8
55°	187.3	218.7	267.4	300.2	313.3
57.5°	168.1	208.9	258.0	291.8	305.3
60°	158.8	195.3	247.7	283.3	297.4
62.5°	144.2	183.6	237.4	274.0	288.5
65°	128.3	170.9	226.2	265.1	280.1
67.5°	113.3	158.3	215.4	255.7	271.6
70°	98.8	145.2	204.2	246.3	262.3
72.5°	82.0	132.1	193.4	237.4	253.4
75°	67.4	119.4	183.1	228.1	244.0
77.5°	53.4	107.2	173.3	219.6	235.6
80°	40.3	95.5	163.4	210.7	227.1
82.5°	28.1	85.7	154.5	202.3	218.2
85°	17.3	76.8	146.1	193.4	209.8
87.5°	8.0	68.8	137.7	185.0	201.8
90°	0.9	62.8	130.7	178.0	194.4
92.5°	0.5	60.9	127.9	174.7	190.6
95°	0.0	59.0	126.4	172.8	188.7
97.5°	0.0	57.1	123.2	170.0	186.4
100°	0.0	56.2	120.8	165.8	181.7
102.5°	0.0	54.8	118.0	162.0	178.0
105°	0.0	54.3	115.2	158.8	174.2
107.5°	0.0	53.4	112.4	154.5	170.0
110°	0.0	52.5	110.1	150.8	165.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	51.5	107.7	147.1	161.6
115°	0.0	50.6	104.9	142.8	156.9
117.5°	0.0	49.2	102.1	138.6	152.7
120°	0.0	47.3	99.3	134.9	148.0
122.5°	0.0	45.4	96.5	130.2	142.8
125°	0.0	43.6	93.2	126.0	138.2
127.5°	0.0	40.7	89.4	121.3	132.5
130°	0.0	37.9	84.8	116.6	127.4
132.5°	0.5	35.1	80.1	111.5	122.2
135°	0.0	32.3	74.9	106.3	116.1
137.5°	0.0	30.0	69.3	100.7	110.1
140°	0.0	27.2	63.7	94.1	104.0
142.5°	0.0	23.9	58.1	87.1	97.4
145°	0.0	21.1	52.5	79.6	90.9
147.5°	0.5	18.7	47.3	71.7	83.8
150°	0.5	16.9	42.1	63.7	75.9
152.5°	0.5	15.0	37.0	56.2	67.9
155°	0.5	13.1	32.3	48.7	60.4
157.5°	0.5	11.2	27.2	41.2	52.5
160°	0.5	9.8	22.5	34.7	45.0
162.5°	0.5	8.4	18.3	27.2	37.0
165°	0.5	7.0	14.5	20.1	28.6
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)