

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: P1214140

Luminaire Tested: 4SNLED-LD5-47SL-SLW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214140
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-LD5-47SL-SLW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

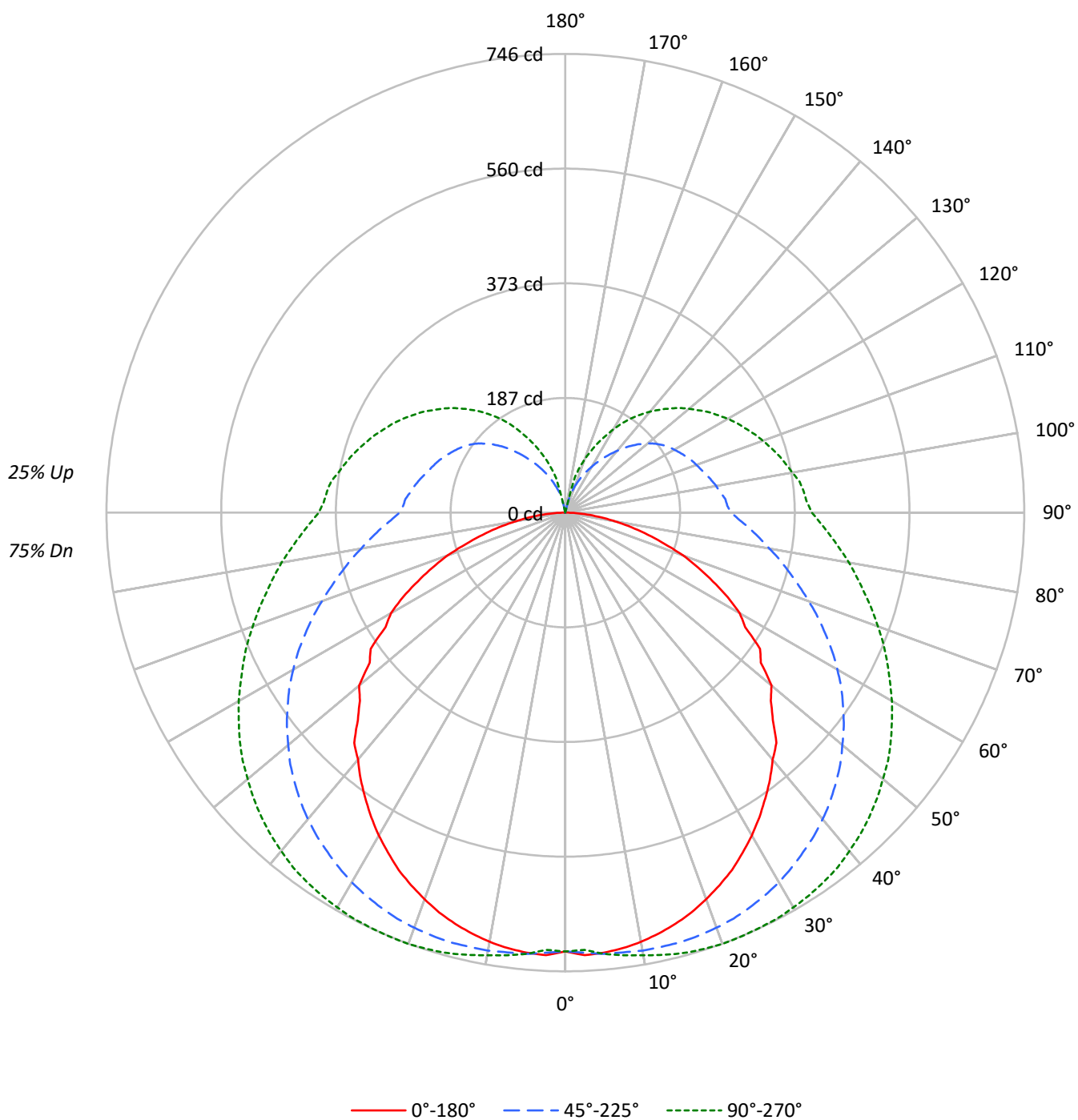
Lumens per Lamp: N/A
Luminaire Lumens: 4109.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 41
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°	5766	5766	5766
5°	5812	5700	5657
10°	5783	5648	5625
15°	5744	5618	5637
20°	5689	5593	5647
25°	5634	5572	5656
30°	5558	5555	5687
35°	5472	5535	5725
40°	5390	5531	5763
45°	5286	5519	5809
50°	5301	5506	5854
55°	5209	5506	5925
60°	5018	5511	6005
65°	4742	5517	6117
70°	4432	5557	6289
75°	3887	5686	6543
80°	3281	5962	6965
85°	2439	6517	7581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 8626 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.7
10°-20°	203.3	4.9
20°-30°	323.1	7.9
30°-40°	414.7	10.1
40°-50°	468.2	11.4
50°-60°	477.8	11.6
60°-70°	442.6	10.8
70°-80°	374.7	9.1
80°-90°	299.1	7.3
90°-100°	254.0	6.2
100°-110°	226.3	5.5
110°-120°	192.8	4.7
120°-130°	153.1	3.7
130°-140°	108.6	2.6
140°-150°	64.8	1.6
150°-160°	30.2	0.7
160°-170°	7.2	0.2
170°-180°	0.0	0.0
0°-30°	594.9	14.5
0°-40°	1009.6	24.6
0°-60°	1955.6	47.6
0°-90°	3072.0	74.8
90°-120°	673.0	16.4
90°-150°	999.6	24.3
90°-180°	1037.0	25.2
0°-180°	4109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	718	713	720	720	720	68
15°	692	698	723	737	742	195
25°	641	662	709	734	745	295
35°	567	608	674	716	733	355
45°	477	542	622	676	699	370
55°	386	451	551	619	646	339
65°	265	352	466	546	577	263
75°	139	246	378	470	503	148
85°	36	158	301	399	433	39
90°	2	129	269	367	401	3
95°	0	122	261	356	389	0
105°	0	112	238	327	359	0
115°	0	104	216	294	324	0
125°	0	90	192	260	285	0
135°	0	67	154	219	240	0
145°	0	43	108	164	187	0
155°	1	27	67	100	125	0
165°	1	14	30	42	59	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°	713.5	713.5	713.5	713.5	713.5
2.5°	720.3	712.6	716.4	715.5	711.6
5°	718.4	712.6	720.3	720.3	720.3
7.5°	714.5	710.6	721.3	725.1	726.1
10°	708.7	708.7	723.2	729.0	730.9
12.5°	701.0	703.9	723.2	731.9	736.7
15°	692.3	698.1	723.2	736.7	741.5
17.5°	681.7	691.3	721.3	737.7	744.4
20°	669.1	683.6	718.4	737.7	746.4
22.5°	655.6	674.0	714.5	735.7	746.4
25°	641.1	662.4	708.7	733.8	745.4
27.5°	623.7	650.8	702.0	730.9	744.4
30°	606.4	637.3	694.2	727.1	741.5
32.5°	587.1	622.8	684.6	721.3	737.7
35°	566.8	608.3	674.0	715.5	732.9
37.5°	546.5	590.9	663.3	707.7	727.1
40°	524.3	573.5	650.8	698.1	718.4
42.5°	507.9	555.2	637.3	688.4	709.7
45°	477.0	541.7	621.8	675.9	699.1
47.5°	452.8	515.6	606.4	663.3	687.5
50°	437.4	494.4	588.0	648.8	674.0
52.5°	400.7	479.9	570.6	634.4	661.4
55°	386.2	450.9	551.3	618.9	646.0
57.5°	346.6	430.6	532.0	601.5	629.5
60°	327.3	402.6	510.8	584.2	613.1
62.5°	297.4	378.5	489.5	564.8	594.8
65°	264.6	352.4	466.4	546.5	577.4
67.5°	233.7	326.4	444.2	527.2	560.0
70°	203.7	299.3	421.0	507.9	540.7
72.5°	169.0	272.3	398.8	489.5	522.4
75°	139.0	246.2	377.5	470.2	503.1
77.5°	110.1	221.1	357.3	452.8	485.7
80°	83.0	197.0	337.0	434.5	468.3
82.5°	57.9	176.7	318.6	417.1	449.9
85°	35.7	158.3	301.3	398.8	432.6
87.5°	16.4	141.9	283.9	381.4	416.2
90°	1.9	129.4	269.4	366.9	400.7
92.5°	1.0	125.5	263.6	360.1	393.0
95°	0.0	121.7	260.7	356.3	389.1
97.5°	0.0	117.8	253.9	350.5	384.3
100°	0.0	115.9	249.1	341.8	374.6
102.5°	0.0	113.0	243.3	334.1	366.9
105°	0.0	112.0	237.5	327.3	359.2
107.5°	0.0	110.1	231.7	318.6	350.5
110°	0.0	108.1	226.9	310.9	341.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	106.2	222.1	303.2	333.1
115°	0.0	104.3	216.3	294.5	323.5
117.5°	0.0	101.4	210.5	285.8	314.8
120°	0.0	97.5	204.7	278.1	305.1
122.5°	0.0	93.7	198.9	268.4	294.5
125°	0.0	89.8	192.1	259.7	284.8
127.5°	0.0	84.0	184.4	250.1	273.3
130°	0.0	78.2	174.8	240.4	262.6
132.5°	1.0	72.4	165.1	229.8	252.0
135°	0.0	66.6	154.5	219.2	239.5
137.5°	0.0	61.8	142.9	207.6	226.9
140°	0.0	56.0	131.3	194.1	214.4
142.5°	0.0	49.2	119.7	179.6	200.8
145°	0.0	43.4	108.1	164.1	187.3
147.5°	1.0	38.6	97.5	147.7	172.8
150°	1.0	34.8	86.9	131.3	156.4
152.5°	1.0	30.9	76.3	115.9	140.0
155°	1.0	27.0	66.6	100.4	124.6
157.5°	1.0	23.2	56.0	85.0	108.1
160°	1.0	20.3	46.3	71.5	92.7
162.5°	1.0	17.4	37.7	56.0	76.3
165°	1.0	14.5	29.9	41.5	58.9
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)