

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: P1213077

Luminaire Tested: 4SNLED-LD5-44SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213077
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-LD5-44SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

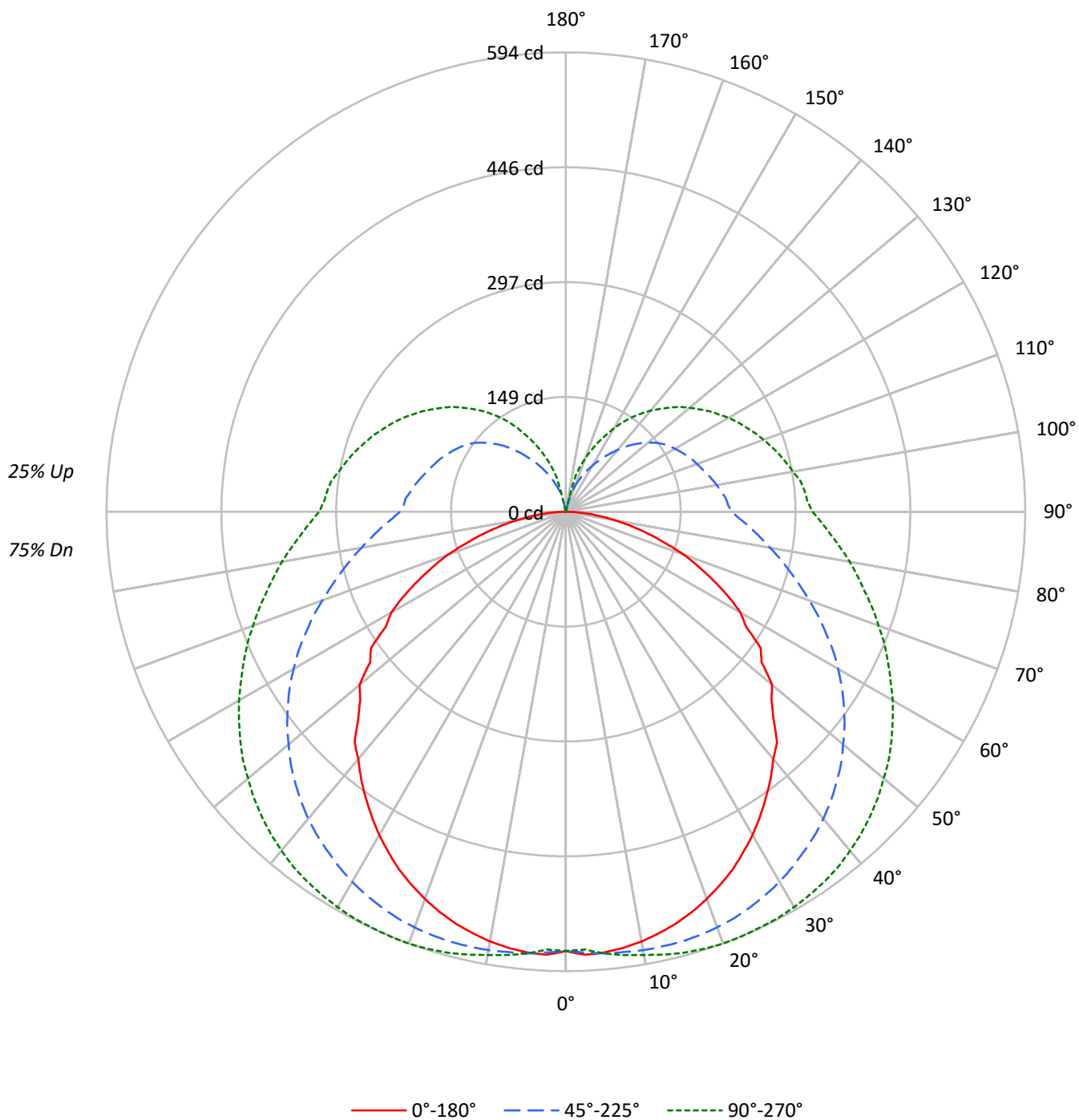
Lumens per Lamp: N/A
Luminaire Lumens: 3271.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 38
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: P1213077

CATALOG NUMBER: 4SNLED-LD5-44SL-SLW-UNV-L930-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213077

CATALOG NUMBER: 4SNLED-LD5-44SL-SLW-UNV-L930-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°	4590	4590	4590
5°	4627	4537	4503
10°	4604	4496	4478
15°	4572	4472	4487
20°	4530	4452	4496
25°	4486	4436	4503
30°	4424	4422	4527
35°	4356	4406	4557
40°	4291	4403	4588
45°	4208	4394	4624
50°	4220	4383	4660
55°	4147	4384	4716
60°	3996	4387	4781
65°	3774	4391	4869
70°	3529	4423	5006
75°	3095	4526	5208
80°	2613	4746	5545
85°	1940	5187	6034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 6867 cd/sqm

TEST NUMBER: P1213077

CATALOG NUMBER: 4SNLED-LD5-44SL-SLW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.7
10°-20°	161.8	4.9
20°-30°	257.2	7.9
30°-40°	330.1	10.1
40°-50°	372.7	11.4
50°-60°	380.3	11.6
60°-70°	352.3	10.8
70°-80°	298.3	9.1
80°-90°	238.1	7.3
90°-100°	202.2	6.2
100°-110°	180.1	5.5
110°-120°	153.4	4.7
120°-130°	121.9	3.7
130°-140°	86.4	2.6
140°-150°	51.6	1.6
150°-160°	24.1	0.7
160°-170°	5.7	0.2
170°-180°	0.0	0.0
0°-30°	473.6	14.5
0°-40°	803.7	24.6
0°-60°	1556.7	47.6
0°-90°	2445.5	74.8
90°-120°	535.8	16.4
90°-150°	795.7	24.3
90°-180°	825.0	25.2
0°-180°	3271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	572	567	573	573	573	54
15°	551	556	576	586	590	155
25°	510	527	564	584	593	235
35°	451	484	536	570	583	282
45°	380	431	495	538	556	295
55°	308	359	439	493	514	270
65°	211	281	371	435	460	209
75°	111	196	300	374	400	118
85°	28	126	240	317	344	31
90°	2	103	214	292	319	2
95°	0	97	208	284	310	0
105°	0	89	189	261	286	0
115°	0	83	172	234	258	0
125°	0	72	153	207	227	0
135°	0	53	123	174	191	0
145°	0	35	86	131	149	0
155°	1	22	53	80	99	0
165°	1	12	24	33	47	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213077

CATALOG NUMBER: 4SNLED-LD5-44SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.0	568.0	568.0	568.0	568.0
2.5°	573.4	567.3	570.3	569.6	566.5
5°	571.9	567.3	573.4	573.4	573.4
7.5°	568.8	565.7	574.2	577.2	578.0
10°	564.2	564.2	575.7	580.3	581.9
12.5°	558.0	560.3	575.7	582.6	586.5
15°	551.1	555.7	575.7	586.5	590.3
17.5°	542.7	550.3	574.2	587.2	592.6
20°	532.7	544.2	571.9	587.2	594.2
22.5°	521.9	536.5	568.8	585.7	594.2
25°	510.4	527.3	564.2	584.2	593.4
27.5°	496.5	518.1	558.8	581.9	592.6
30°	482.7	507.3	552.6	578.8	590.3
32.5°	467.3	495.8	545.0	574.2	587.2
35°	451.2	484.2	536.5	569.6	583.4
37.5°	435.0	470.4	528.0	563.4	578.8
40°	417.4	456.6	518.1	555.7	571.9
42.5°	404.3	442.0	507.3	548.0	564.9
45°	379.7	431.2	495.0	538.0	556.5
47.5°	360.5	410.4	482.7	528.0	547.3
50°	348.2	393.5	468.1	516.5	536.5
52.5°	319.0	382.0	454.3	505.0	526.5
55°	307.5	359.0	438.9	492.7	514.2
57.5°	275.9	342.8	423.5	478.9	501.1
60°	260.6	320.5	406.6	465.0	488.1
62.5°	236.7	301.3	389.7	449.6	473.5
65°	210.6	280.6	371.2	435.0	459.6
67.5°	186.0	259.8	353.6	419.7	445.8
70°	162.2	238.3	335.1	404.3	430.4
72.5°	134.5	216.8	317.4	389.7	415.8
75°	110.7	196.0	300.5	374.3	400.5
77.5°	87.6	176.0	284.4	360.5	386.6
80°	66.1	156.8	268.3	345.9	372.8
82.5°	46.1	140.7	253.6	332.0	358.2
85°	28.4	126.1	239.8	317.4	344.3
87.5°	13.1	113.0	226.0	303.6	331.3
90°	1.5	103.0	214.4	292.1	319.0
92.5°	0.8	99.9	209.8	286.7	312.8
95°	0.0	96.8	207.5	283.6	309.8
97.5°	0.0	93.8	202.2	279.0	305.9
100°	0.0	92.2	198.3	272.1	298.2
102.5°	0.0	89.9	193.7	265.9	292.1
105°	0.0	89.2	189.1	260.6	285.9
107.5°	0.0	87.6	184.5	253.6	279.0
110°	0.0	86.1	180.6	247.5	272.1

TEST NUMBER: P1213077

CATALOG NUMBER: 4SNLED-LD5-44SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	84.5	176.8	241.4	265.2
115°	0.0	83.0	172.2	234.4	257.5
117.5°	0.0	80.7	167.6	227.5	250.6
120°	0.0	77.6	162.9	221.4	242.9
122.5°	0.0	74.6	158.3	213.7	234.4
125°	0.0	71.5	153.0	206.8	226.7
127.5°	0.0	66.9	146.8	199.1	217.5
130°	0.0	62.3	139.1	191.4	209.1
132.5°	0.8	57.6	131.4	182.9	200.6
135°	0.0	53.0	123.0	174.5	190.6
137.5°	0.0	49.2	113.8	165.3	180.6
140°	0.0	44.6	104.5	154.5	170.6
142.5°	0.0	39.2	95.3	143.0	159.9
145°	0.0	34.6	86.1	130.7	149.1
147.5°	0.8	30.7	77.6	117.6	137.6
150°	0.8	27.7	69.2	104.5	124.5
152.5°	0.8	24.6	60.7	92.2	111.5
155°	0.8	21.5	53.0	79.9	99.2
157.5°	0.8	18.4	44.6	67.6	86.1
160°	0.8	16.1	36.9	56.9	73.8
162.5°	0.8	13.8	30.0	44.6	60.7
165°	0.8	11.5	23.8	33.1	46.9
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)