

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: P1214155

Luminaire Tested: 4SNLED-LD5-50SL-SLW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214155
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-LD5-50SL-SLW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

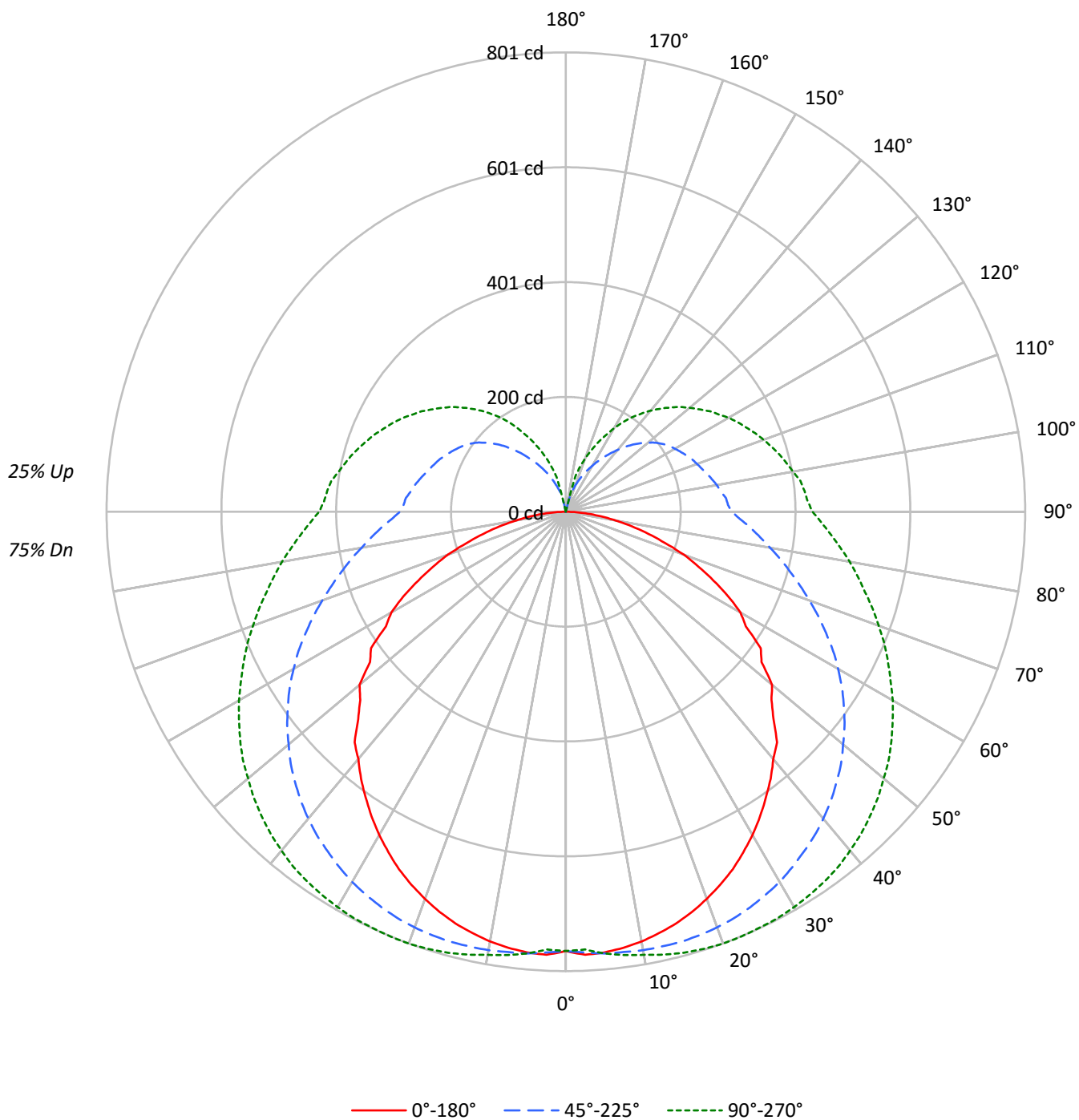
Lumens per Lamp: N/A
Luminaire Lumens: 4411.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 46
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°	6190	6190	6190
5°	6239	6118	6073
10°	6209	6063	6038
15°	6166	6030	6051
20°	6108	6004	6062
25°	6048	5982	6072
30°	5966	5964	6105
35°	5873	5941	6146
40°	5785	5937	6187
45°	5674	5925	6235
50°	5691	5910	6284
55°	5592	5911	6360
60°	5388	5916	6447
65°	5089	5921	6566
70°	4759	5965	6751
75°	4175	6104	7022
80°	3522	6399	7477
85°	2623	6995	8139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 9261 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.7
10°-20°	218.2	4.9
20°-30°	346.8	7.9
30°-40°	445.1	10.1
40°-50°	502.6	11.4
50°-60°	512.9	11.6
60°-70°	475.1	10.8
70°-80°	402.3	9.1
80°-90°	321.1	7.3
90°-100°	272.7	6.2
100°-110°	242.9	5.5
110°-120°	206.9	4.7
120°-130°	164.4	3.7
130°-140°	116.6	2.6
140°-150°	69.6	1.6
150°-160°	32.4	0.7
160°-170°	7.7	0.2
170°-180°	0.0	0.0
0°-30°	638.6	14.5
0°-40°	1083.8	24.6
0°-60°	2099.3	47.6
0°-90°	3297.8	74.8
90°-120°	722.5	16.4
90°-150°	1073.0	24.3
90°-180°	1113.0	25.2
0°-180°	4411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	771	765	773	773	773	73
15°	743	749	776	791	796	210
25°	688	711	761	788	800	317
35°	608	653	724	768	787	381
45°	512	582	668	726	750	398
55°	415	484	592	664	693	364
65°	284	378	501	587	620	282
75°	149	264	405	505	540	159
85°	38	170	323	428	464	42
90°	2	139	289	394	430	3
95°	0	131	280	382	418	0
105°	0	120	255	351	386	0
115°	0	112	232	316	347	0
125°	0	96	206	279	306	0
135°	0	72	166	235	257	0
145°	0	47	116	176	201	0
155°	1	29	72	108	134	0
165°	1	16	32	45	63	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°	766.0	766.0	766.0	766.0	766.0
2.5°	773.2	764.9	769.1	768.1	763.9
5°	771.2	764.9	773.2	773.2	773.2
7.5°	767.0	762.9	774.3	778.4	779.5
10°	760.8	760.8	776.3	782.6	784.6
12.5°	752.5	755.6	776.3	785.7	790.9
15°	743.2	749.4	776.3	790.9	796.0
17.5°	731.8	742.1	774.3	791.9	799.2
20°	718.3	733.9	771.2	791.9	801.2
22.5°	703.8	723.5	767.0	789.8	801.2
25°	688.2	711.0	760.8	787.7	800.2
27.5°	669.6	698.6	753.5	784.6	799.2
30°	650.9	684.1	745.3	780.5	796.0
32.5°	630.2	668.6	734.9	774.3	791.9
35°	608.4	653.0	723.5	768.1	786.7
37.5°	586.7	634.3	712.1	759.8	780.5
40°	562.8	615.7	698.6	749.4	771.2
42.5°	545.2	596.0	684.1	739.0	761.8
45°	512.0	581.5	667.5	725.6	750.4
47.5°	486.1	553.5	650.9	712.1	738.0
50°	469.5	530.7	631.2	696.5	723.5
52.5°	430.2	515.1	612.6	681.0	710.0
55°	414.6	484.1	591.8	664.4	693.4
57.5°	372.1	462.3	571.1	645.7	675.8
60°	351.4	432.2	548.3	627.1	658.2
62.5°	319.2	406.3	525.5	606.4	638.5
65°	284.0	378.3	500.6	586.7	619.8
67.5°	250.8	350.3	476.8	565.9	601.2
70°	218.7	321.3	451.9	545.2	580.4
72.5°	181.4	292.3	428.1	525.5	560.8
75°	149.3	264.3	405.3	504.8	540.0
77.5°	118.2	237.4	383.5	486.1	521.4
80°	89.1	211.4	361.7	466.4	502.7
82.5°	62.2	189.7	342.0	447.8	483.0
85°	38.4	170.0	323.4	428.1	464.4
87.5°	17.6	152.4	304.7	409.4	446.7
90°	2.1	138.9	289.2	393.9	430.2
92.5°	1.0	134.7	283.0	386.6	421.9
95°	0.0	130.6	279.9	382.5	417.7
97.5°	0.0	126.5	272.6	376.3	412.5
100°	0.0	124.4	267.4	366.9	402.2
102.5°	0.0	121.3	261.2	358.6	393.9
105°	0.0	120.2	255.0	351.4	385.6
107.5°	0.0	118.2	248.8	342.0	376.3
110°	0.0	116.1	243.6	333.8	366.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	114.0	238.4	325.5	357.6
115°	0.0	111.9	232.2	316.1	347.2
117.5°	0.0	108.8	226.0	306.8	337.9
120°	0.0	104.7	219.7	298.5	327.5
122.5°	0.0	100.5	213.5	288.2	316.1
125°	0.0	96.4	206.3	278.8	305.8
127.5°	0.0	90.2	198.0	268.5	293.3
130°	0.0	84.0	187.6	258.1	281.9
132.5°	1.0	77.7	177.2	246.7	270.5
135°	0.0	71.5	165.8	235.3	257.1
137.5°	0.0	66.3	153.4	222.9	243.6
140°	0.0	60.1	141.0	208.3	230.1
142.5°	0.0	52.9	128.5	192.8	215.6
145°	0.0	46.6	116.1	176.2	201.1
147.5°	1.0	41.5	104.7	158.6	185.5
150°	1.0	37.3	93.3	141.0	167.9
152.5°	1.0	33.2	81.9	124.4	150.3
155°	1.0	29.0	71.5	107.8	133.7
157.5°	1.0	24.9	60.1	91.2	116.1
160°	1.0	21.8	49.8	76.7	99.5
162.5°	1.0	18.7	40.4	60.1	81.9
165°	1.0	15.5	32.1	44.6	63.2
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)