

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: P1214130

Luminaire Tested: 4SNLED-LD5-44SL-SLW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214130
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

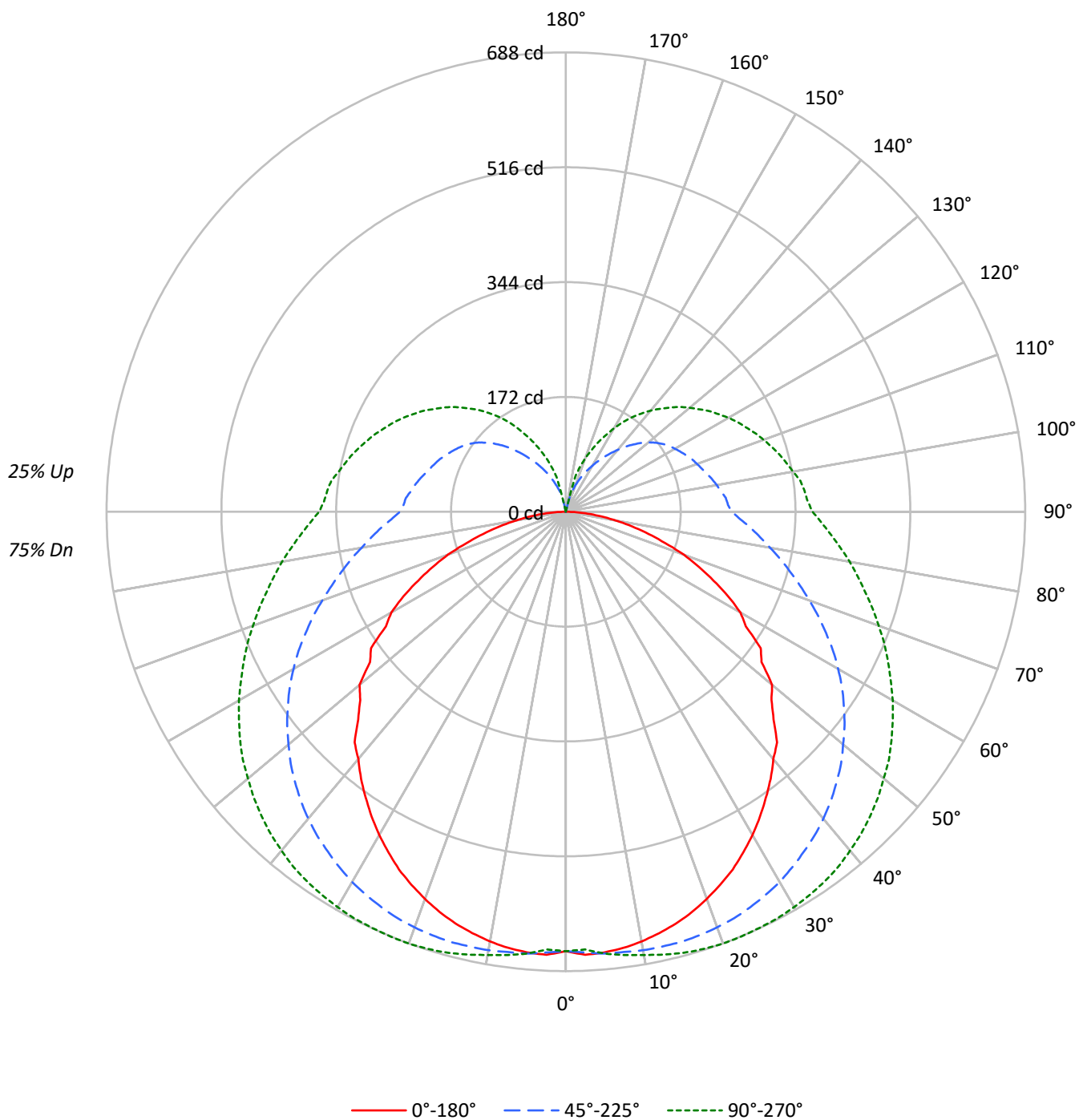
Lumens per Lamp: N/A
Luminaire Lumens: 3789.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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

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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°	5317	5317	5317
5°	5359	5256	5217
10°	5333	5208	5187
15°	5297	5180	5198
20°	5246	5157	5207
25°	5196	5138	5216
30°	5125	5123	5244
35°	5045	5104	5279
40°	4970	5100	5314
45°	4874	5090	5356
50°	4888	5077	5398
55°	4803	5078	5463
60°	4627	5082	5538
65°	4373	5086	5640
70°	4089	5124	5799
75°	3585	5243	6033
80°	3028	5496	6422
85°	2248	6009	6991

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 7955 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	1.7
10°-20°	187.4	4.9
20°-30°	297.9	7.9
30°-40°	382.4	10.1
40°-50°	431.8	11.4
50°-60°	440.6	11.6
60°-70°	408.1	10.8
70°-80°	345.5	9.1
80°-90°	275.8	7.3
90°-100°	234.2	6.2
100°-110°	208.7	5.5
110°-120°	177.7	4.7
120°-130°	141.2	3.7
130°-140°	100.1	2.6
140°-150°	59.8	1.6
150°-160°	27.9	0.7
160°-170°	6.6	0.2
170°-180°	0.0	0.0
0°-30°	548.6	14.5
0°-40°	931.0	24.6
0°-60°	1803.3	47.6
0°-90°	2832.8	74.8
90°-120°	620.6	16.4
90°-150°	921.7	24.3
90°-180°	956.0	25.2
0°-180°	3789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	662	657	664	664	664	63
15°	638	644	667	679	684	180
25°	591	611	654	677	687	272
35°	523	561	622	660	676	327
45°	440	500	573	623	645	342
55°	356	416	508	571	596	313
65°	244	325	430	504	532	242
75°	128	227	348	434	464	137
85°	33	146	278	368	399	36
90°	2	119	248	338	370	3
95°	0	112	240	328	359	0
105°	0	103	219	302	331	0
115°	0	96	199	272	298	0
125°	0	83	177	240	263	0
135°	0	61	142	202	221	0
145°	0	40	100	151	173	0
155°	1	25	61	93	115	0
165°	1	13	28	38	54	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°	658.0	658.0	658.0	658.0	658.0
2.5°	664.2	657.1	660.6	659.8	656.2
5°	662.4	657.1	664.2	664.2	664.2
7.5°	658.9	655.3	665.1	668.7	669.5
10°	653.5	653.5	666.9	672.2	674.0
12.5°	646.4	649.1	666.9	674.9	679.3
15°	638.4	643.7	666.9	679.3	683.8
17.5°	628.6	637.5	665.1	680.2	686.5
20°	617.0	630.4	662.4	680.2	688.2
22.5°	604.5	621.5	658.9	678.4	688.2
25°	591.2	610.8	653.5	676.7	687.4
27.5°	575.2	600.1	647.3	674.0	686.5
30°	559.1	587.6	640.2	670.4	683.8
32.5°	541.3	574.3	631.3	665.1	680.2
35°	522.6	560.9	621.5	659.8	675.8
37.5°	503.9	544.9	611.7	652.6	670.4
40°	483.5	528.9	600.1	643.7	662.4
42.5°	468.3	512.0	587.6	634.8	654.4
45°	439.8	499.5	573.4	623.2	644.6
47.5°	417.6	475.4	559.1	611.7	633.9
50°	403.3	455.9	542.2	598.3	621.5
52.5°	369.5	442.5	526.2	585.0	609.9
55°	356.1	415.8	508.4	570.7	595.6
57.5°	319.6	397.1	490.6	554.7	580.5
60°	301.8	371.3	471.0	538.7	565.4
62.5°	274.2	349.0	451.4	520.9	548.5
65°	244.0	325.0	430.0	503.9	532.4
67.5°	215.5	300.9	409.6	486.1	516.4
70°	187.9	276.0	388.2	468.3	498.6
72.5°	155.8	251.1	367.7	451.4	481.7
75°	128.2	227.0	348.1	433.6	463.9
77.5°	101.5	203.9	329.4	417.6	447.8
80°	76.6	181.6	310.7	400.7	431.8
82.5°	53.4	162.9	293.8	384.6	414.9
85°	32.9	146.0	277.8	367.7	398.9
87.5°	15.1	130.9	261.8	351.7	383.7
90°	1.8	119.3	248.4	338.3	369.5
92.5°	0.9	115.7	243.1	332.1	362.4
95°	0.0	112.2	240.4	328.5	358.8
97.5°	0.0	108.6	234.2	323.2	354.4
100°	0.0	106.8	229.7	315.2	345.5
102.5°	0.0	104.2	224.4	308.1	338.3
105°	0.0	103.3	219.0	301.8	331.2
107.5°	0.0	101.5	213.7	293.8	323.2
110°	0.0	99.7	209.2	286.7	315.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	97.9	204.8	279.6	307.2
115°	0.0	96.2	199.4	271.6	298.3
117.5°	0.0	93.5	194.1	263.5	290.3
120°	0.0	89.9	188.8	256.4	281.4
122.5°	0.0	86.4	183.4	247.5	271.6
125°	0.0	82.8	177.2	239.5	262.7
127.5°	0.0	77.5	170.1	230.6	252.0
130°	0.0	72.1	161.2	221.7	242.2
132.5°	0.9	66.8	152.3	211.9	232.4
135°	0.0	61.4	142.5	202.1	220.8
137.5°	0.0	57.0	131.8	191.4	209.2
140°	0.0	51.6	121.1	179.0	197.7
142.5°	0.0	45.4	110.4	165.6	185.2
145°	0.0	40.1	99.7	151.4	172.7
147.5°	0.9	35.6	89.9	136.2	159.4
150°	0.9	32.1	80.1	121.1	144.2
152.5°	0.9	28.5	70.3	106.8	129.1
155°	0.9	24.9	61.4	92.6	114.9
157.5°	0.9	21.4	51.6	78.4	99.7
160°	0.9	18.7	42.7	65.9	85.5
162.5°	0.9	16.0	34.7	51.6	70.3
165°	0.9	13.4	27.6	38.3	54.3
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)