

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: P1213426

Luminaire Tested: 4SNLED-LD5-44HL-SLW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213426
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-LD5-44HL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

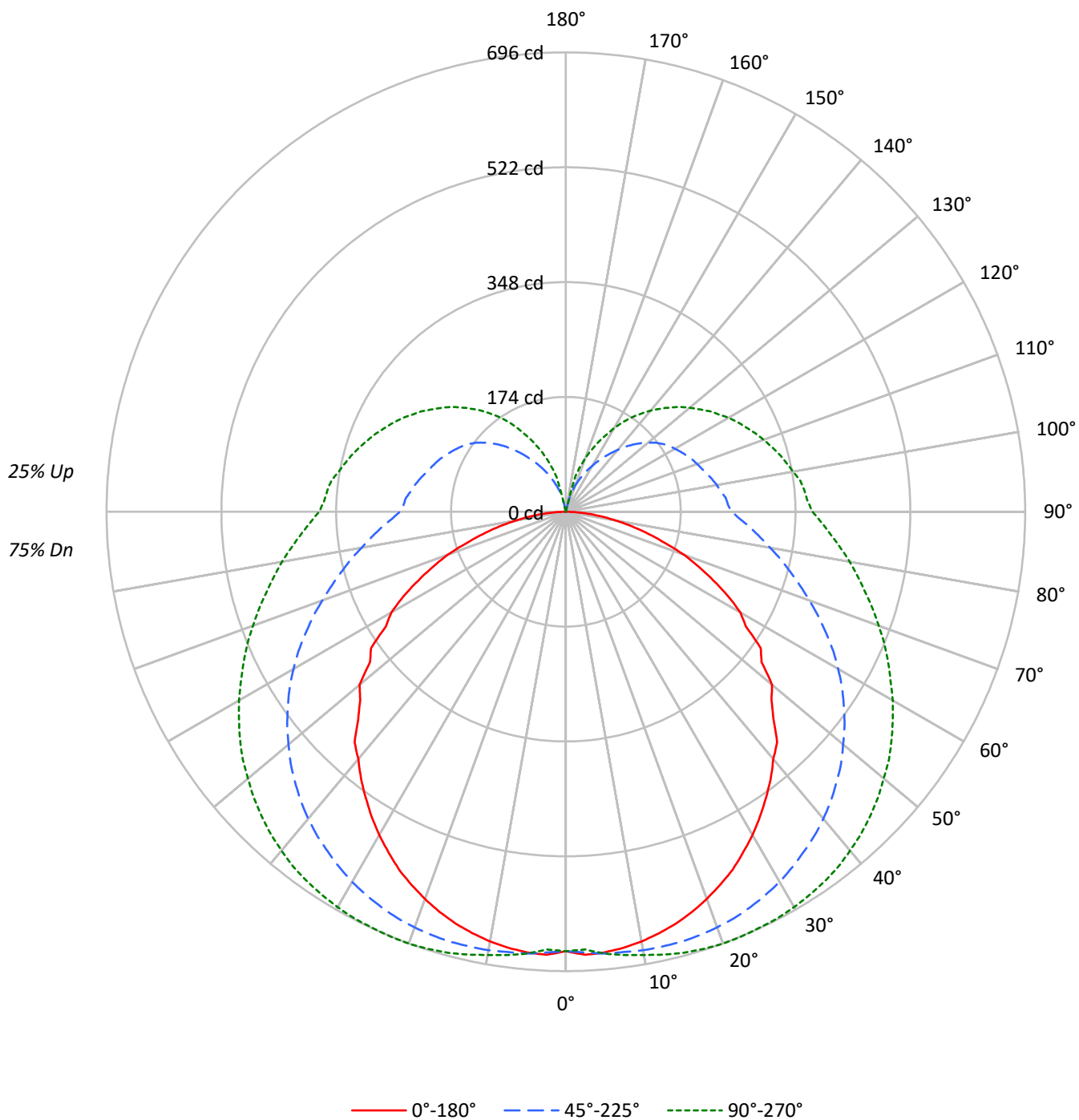
Lumens per Lamp: N/A
Luminaire Lumens: 3833.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 37
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°	5379	5379	5379
5°	5421	5317	5277
10°	5395	5268	5247
15°	5358	5240	5258
20°	5308	5217	5267
25°	5256	5198	5276
30°	5184	5183	5305
35°	5104	5163	5340
40°	5028	5160	5376
45°	4930	5148	5418
50°	4945	5136	5461
55°	4859	5137	5527
60°	4681	5141	5601
65°	4423	5145	5706
70°	4134	5184	5867
75°	3627	5305	6103
80°	3064	5560	6497
85°	2275	6078	7072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 8047 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	1.7
10°-20°	189.6	4.9
20°-30°	301.4	7.9
30°-40°	386.8	10.1
40°-50°	436.8	11.4
50°-60°	445.7	11.6
60°-70°	412.9	10.8
70°-80°	349.6	9.1
80°-90°	279.0	7.3
90°-100°	237.0	6.2
100°-110°	211.1	5.5
110°-120°	179.8	4.7
120°-130°	142.8	3.7
130°-140°	101.3	2.6
140°-150°	60.5	1.6
150°-160°	28.2	0.7
160°-170°	6.7	0.2
170°-180°	0.0	0.0
0°-30°	555.0	14.5
0°-40°	941.7	24.6
0°-60°	1824.2	47.6
0°-90°	2865.7	74.8
90°-120°	627.9	16.4
90°-150°	932.5	24.3
90°-180°	967.0	25.2
0°-180°	3833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	670	665	672	672	672	64
15°	646	651	675	687	692	182
25°	598	618	661	684	695	275
35°	529	567	629	667	684	331
45°	445	505	580	630	652	346
55°	360	421	514	577	603	316
65°	247	329	435	510	539	245
75°	130	230	352	439	469	138
85°	33	148	281	372	404	36
90°	2	121	251	342	374	3
95°	0	114	243	332	363	0
105°	0	104	222	305	335	0
115°	0	97	202	275	302	0
125°	0	84	179	242	266	0
135°	0	62	144	204	223	0
145°	0	40	101	153	175	0
155°	1	25	62	94	116	0
165°	1	14	28	39	55	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°	665.6	665.6	665.6	665.6	665.6
2.5°	671.9	664.7	668.3	667.4	663.8
5°	670.1	664.7	671.9	671.9	671.9
7.5°	666.5	662.9	672.8	676.4	677.3
10°	661.1	661.1	674.6	680.0	681.8
12.5°	653.9	656.6	674.6	682.7	687.2
15°	645.8	651.2	674.6	687.2	691.7
17.5°	635.9	644.9	672.8	688.1	694.4
20°	624.2	637.7	670.1	688.1	696.2
22.5°	611.6	628.7	666.5	686.3	696.2
25°	598.1	617.9	661.1	684.5	695.3
27.5°	581.8	607.1	654.8	681.8	694.4
30°	565.6	594.5	647.6	678.2	691.7
32.5°	547.6	580.9	638.6	672.8	688.1
35°	528.7	567.4	628.7	667.4	683.6
37.5°	509.8	551.2	618.8	660.2	678.2
40°	489.1	535.0	607.1	651.2	670.1
42.5°	473.8	517.9	594.5	642.2	662.0
45°	444.9	505.3	580.0	630.5	652.1
47.5°	422.4	481.0	565.6	618.8	641.3
50°	408.0	461.2	548.5	605.3	628.7
52.5°	373.8	447.6	532.3	591.8	617.0
55°	360.3	420.6	514.3	577.3	602.6
57.5°	323.3	401.7	496.3	561.1	587.3
60°	305.3	375.6	476.5	544.9	571.9
62.5°	277.4	353.1	456.7	526.9	554.8
65°	246.8	328.8	435.0	509.8	538.6
67.5°	218.0	304.4	414.3	491.8	522.4
70°	190.0	279.2	392.7	473.8	504.4
72.5°	157.6	254.0	372.0	456.7	487.3
75°	129.7	229.7	352.2	438.6	469.3
77.5°	102.7	206.3	333.3	422.4	453.0
80°	77.5	183.7	314.3	405.3	436.8
82.5°	54.0	164.8	297.2	389.1	419.7
85°	33.3	147.7	281.0	372.0	403.5
87.5°	15.3	132.4	264.8	355.8	388.2
90°	1.8	120.7	251.3	342.3	373.8
92.5°	0.9	117.1	245.9	336.0	366.6
95°	0.0	113.5	243.2	332.4	363.0
97.5°	0.0	109.9	236.9	327.0	358.5
100°	0.0	108.1	232.4	318.8	349.5
102.5°	0.0	105.4	227.0	311.6	342.3
105°	0.0	104.5	221.6	305.3	335.1
107.5°	0.0	102.7	216.2	297.2	327.0
110°	0.0	100.9	211.7	290.0	318.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	99.1	207.2	282.8	310.7
115°	0.0	97.3	201.8	274.7	301.7
117.5°	0.0	94.6	196.4	266.6	293.6
120°	0.0	91.0	190.9	259.4	284.6
122.5°	0.0	87.4	185.5	250.4	274.7
125°	0.0	83.8	179.2	242.3	265.7
127.5°	0.0	78.4	172.0	233.3	254.9
130°	0.0	73.0	163.0	224.3	245.0
132.5°	0.9	67.6	154.0	214.4	235.1
135°	0.0	62.1	144.1	204.5	223.4
137.5°	0.0	57.6	133.3	193.6	211.7
140°	0.0	52.2	122.5	181.0	200.0
142.5°	0.0	45.9	111.7	167.5	187.3
145°	0.0	40.5	100.9	153.1	174.7
147.5°	0.9	36.0	91.0	137.8	161.2
150°	0.9	32.4	81.1	122.5	145.9
152.5°	0.9	28.8	71.2	108.1	130.6
155°	0.9	25.2	62.1	93.7	116.2
157.5°	0.9	21.6	52.2	79.3	100.9
160°	0.9	18.9	43.2	66.7	86.5
162.5°	0.9	16.2	35.1	52.2	71.2
165°	0.9	13.5	27.9	38.7	54.9
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)