

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: P1214186

Luminaire Tested: 4SNLED-LD5-58SL-SLW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214186
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-LD5-58SL-SLW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

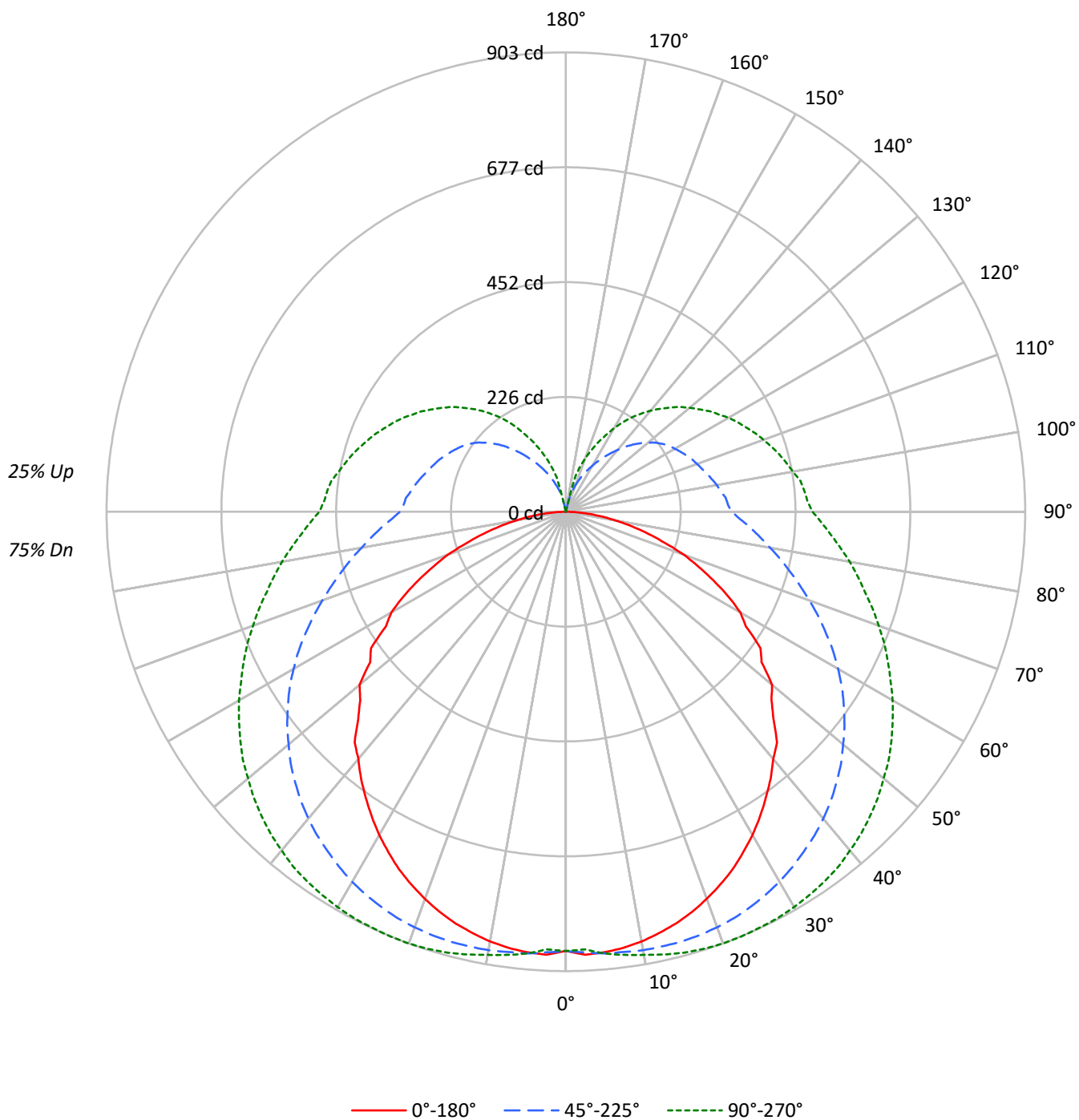
Lumens per Lamp: N/A
Luminaire Lumens: 4972.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 55
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°	6977	6977	6977
5°	7032	6897	6846
10°	6999	6834	6807
15°	6950	6797	6821
20°	6885	6767	6833
25°	6818	6743	6845
30°	6725	6722	6881
35°	6621	6697	6928
40°	6521	6693	6973
45°	6397	6678	7029
50°	6415	6662	7083
55°	6302	6663	7169
60°	6073	6669	7266
65°	5736	6675	7402
70°	5364	6724	7610
75°	4703	6880	7916
80°	3973	7214	8427
85°	2951	7884	9173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 10439 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	1.7
10°-20°	246.0	4.9
20°-30°	390.9	7.9
30°-40°	501.7	10.1
40°-50°	566.6	11.4
50°-60°	578.1	11.6
60°-70°	535.6	10.8
70°-80°	453.4	9.1
80°-90°	362.0	7.3
90°-100°	307.3	6.2
100°-110°	273.8	5.5
110°-120°	233.2	4.7
120°-130°	185.3	3.7
130°-140°	131.4	2.6
140°-150°	78.5	1.6
150°-160°	36.6	0.7
160°-170°	8.7	0.2
170°-180°	0.0	0.0
0°-30°	719.9	14.5
0°-40°	1221.6	24.6
0°-60°	2366.3	47.6
0°-90°	3717.2	74.8
90°-120°	814.4	16.4
90°-150°	1209.5	24.3
90°-180°	1255.0	25.2
0°-180°	4972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	869	862	872	872	872	83
15°	838	845	875	891	897	236
25°	776	802	858	888	902	357
35°	686	736	816	866	887	429
45°	577	655	752	818	846	448
55°	467	546	667	749	782	410
65°	320	426	564	661	699	318
75°	168	298	457	569	609	179
85°	43	192	364	482	523	47
90°	2	157	326	444	485	4
95°	0	147	316	431	471	0
105°	0	136	287	396	435	0
115°	0	126	262	356	391	0
125°	0	109	232	314	345	0
135°	0	81	187	265	290	0
145°	0	53	131	199	227	0
155°	1	33	81	122	151	1
165°	1	18	36	50	71	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°	863.4	863.4	863.4	863.4	863.4
2.5°	871.6	862.2	866.9	865.7	861.1
5°	869.2	862.2	871.6	871.6	871.6
7.5°	864.6	859.9	872.7	877.4	878.6
10°	857.6	857.6	875.1	882.1	884.4
12.5°	848.2	851.7	875.1	885.6	891.4
15°	837.7	844.7	875.1	891.4	897.3
17.5°	824.8	836.5	872.7	892.6	900.8
20°	809.7	827.2	869.2	892.6	903.1
22.5°	793.3	815.5	864.6	890.3	903.1
25°	775.8	801.5	857.6	887.9	902.0
27.5°	754.7	787.5	849.4	884.4	900.8
30°	733.7	771.1	840.0	879.8	897.3
32.5°	710.4	753.6	828.4	872.7	892.6
35°	685.8	736.1	815.5	865.7	886.8
37.5°	661.3	715.0	802.6	856.4	879.8
40°	634.4	694.0	787.5	844.7	869.2
42.5°	614.5	671.8	771.1	833.0	858.7
45°	577.2	655.4	752.4	817.8	845.9
47.5°	548.0	623.9	733.7	802.6	831.9
50°	529.3	598.2	711.5	785.1	815.5
52.5°	484.9	580.7	690.5	767.6	800.3
55°	467.3	545.6	667.1	748.9	781.6
57.5°	419.4	521.1	643.8	727.9	761.8
60°	396.1	487.2	618.1	706.8	741.9
62.5°	359.8	458.0	592.3	683.5	719.7
65°	320.1	426.4	564.3	661.3	698.7
67.5°	282.7	394.9	537.4	637.9	677.6
70°	246.5	362.2	509.4	614.5	654.3
72.5°	204.5	329.5	482.5	592.3	632.1
75°	168.2	297.9	456.8	569.0	608.7
77.5°	133.2	267.5	432.3	548.0	587.7
80°	100.5	238.3	407.8	525.8	566.6
82.5°	70.1	213.8	385.6	504.7	544.4
85°	43.2	191.6	364.5	482.5	523.4
87.5°	19.9	171.7	343.5	461.5	503.6
90°	2.3	156.6	326.0	444.0	484.9
92.5°	1.2	151.9	319.0	435.8	475.5
95°	0.0	147.2	315.5	431.1	470.8
97.5°	0.0	142.5	307.3	424.1	465.0
100°	0.0	140.2	301.4	413.6	453.3
102.5°	0.0	136.7	294.4	404.2	444.0
105°	0.0	135.5	287.4	396.1	434.6
107.5°	0.0	133.2	280.4	385.6	424.1
110°	0.0	130.9	274.6	376.2	413.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	128.5	268.7	366.9	403.1
115°	0.0	126.2	261.7	356.3	391.4
117.5°	0.0	122.7	254.7	345.8	380.9
120°	0.0	118.0	247.7	336.5	369.2
122.5°	0.0	113.3	240.7	324.8	356.3
125°	0.0	108.7	232.5	314.3	344.7
127.5°	0.0	101.6	223.2	302.6	330.6
130°	0.0	94.6	211.5	290.9	317.8
132.5°	1.2	87.6	199.8	278.1	304.9
135°	0.0	80.6	186.9	265.2	289.7
137.5°	0.0	74.8	172.9	251.2	274.6
140°	0.0	67.8	158.9	234.8	259.4
142.5°	0.0	59.6	144.9	217.3	243.0
145°	0.0	52.6	130.9	198.6	226.7
147.5°	1.2	46.7	118.0	178.8	209.1
150°	1.2	42.1	105.2	158.9	189.3
152.5°	1.2	37.4	92.3	140.2	169.4
155°	1.2	32.7	80.6	121.5	150.7
157.5°	1.2	28.0	67.8	102.8	130.9
160°	1.2	24.5	56.1	86.5	112.2
162.5°	1.2	21.0	45.6	67.8	92.3
165°	1.2	17.5	36.2	50.2	71.3
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)