

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: P1213128

Luminaire Tested: 4SNLED-LD5-56SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213128
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-LD5-56SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

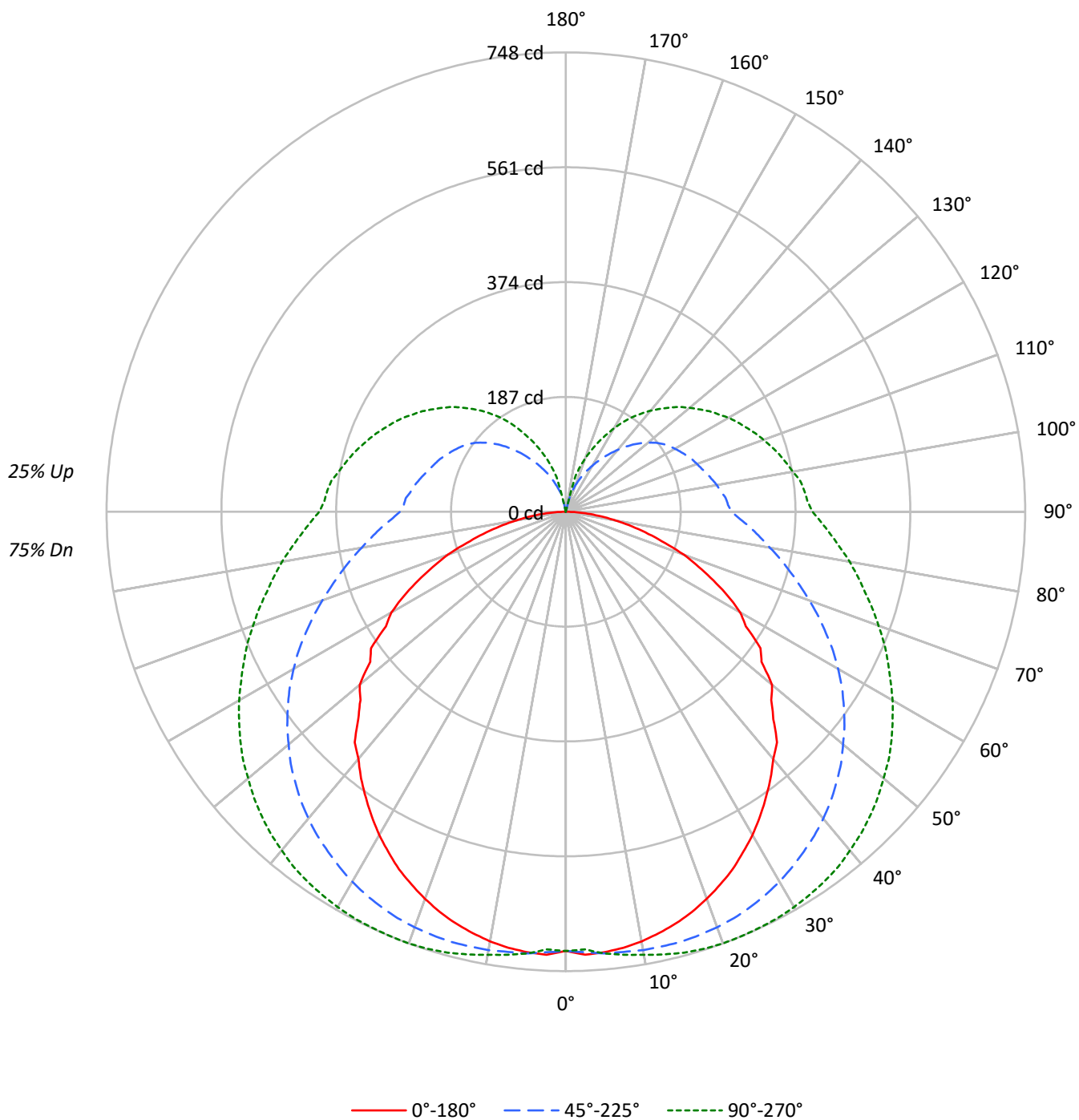
Lumens per Lamp: N/A
Luminaire Lumens: 4118.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 52
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°	5779	5779	5779
5°	5824	5712	5670
10°	5797	5660	5638
15°	5756	5630	5649
20°	5702	5604	5659
25°	5647	5585	5668
30°	5570	5567	5700
35°	5483	5546	5738
40°	5401	5543	5775
45°	5297	5532	5821
50°	5314	5518	5867
55°	5221	5518	5938
60°	5029	5523	6019
65°	4751	5528	6130
70°	4443	5569	6303
75°	3895	5699	6557
80°	3289	5974	6980
85°	2446	6530	7597

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 8646 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.7
10°-20°	203.7	4.9
20°-30°	323.8	7.9
30°-40°	415.5	10.1
40°-50°	469.3	11.4
50°-60°	478.8	11.6
60°-70°	443.6	10.8
70°-80°	375.5	9.1
80°-90°	299.8	7.3
90°-100°	254.6	6.2
100°-110°	226.8	5.5
110°-120°	193.2	4.7
120°-130°	153.4	3.7
130°-140°	108.8	2.6
140°-150°	65.0	1.6
150°-160°	30.3	0.7
160°-170°	7.2	0.2
170°-180°	0.0	0.0
0°-30°	596.2	14.5
0°-40°	1011.8	24.6
0°-60°	1959.9	47.6
0°-90°	3078.7	74.8
90°-120°	674.5	16.4
90°-150°	1001.8	24.3
90°-180°	1039.0	25.2
0°-180°	4118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	720	714	722	722	722	68
15°	694	700	725	738	743	196
25°	642	664	710	735	747	296
35°	568	610	675	717	734	356
45°	478	543	623	677	701	371
55°	387	452	552	620	647	340
65°	265	353	467	548	579	263
75°	139	247	378	471	504	148
85°	36	159	302	400	434	39
90°	2	130	270	368	402	3
95°	0	122	261	357	390	0
105°	0	112	238	328	360	0
115°	0	104	217	295	324	0
125°	0	90	193	260	286	0
135°	0	67	155	220	240	0
145°	0	44	108	164	188	0
155°	1	27	67	101	125	0
165°	1	14	30	42	59	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°	715.1	715.1	715.1	715.1	715.1
2.5°	721.9	714.1	718.0	717.0	713.2
5°	719.9	714.1	721.9	721.9	721.9
7.5°	716.1	712.2	722.8	726.7	727.7
10°	710.3	710.3	724.8	730.6	732.5
12.5°	702.5	705.4	724.8	733.5	738.3
15°	693.8	699.6	724.8	738.3	743.2
17.5°	683.2	692.8	722.8	739.3	746.1
20°	670.6	685.1	719.9	739.3	748.0
22.5°	657.0	675.4	716.1	737.4	748.0
25°	642.5	663.8	710.3	735.4	747.0
27.5°	625.1	652.2	703.5	732.5	746.1
30°	607.7	638.7	695.7	728.7	743.2
32.5°	588.3	624.1	686.1	722.8	739.3
35°	568.0	609.6	675.4	717.0	734.5
37.5°	547.7	592.2	664.8	709.3	728.7
40°	525.4	574.8	652.2	699.6	719.9
42.5°	509.0	556.4	638.7	689.9	711.2
45°	478.0	542.9	623.2	677.4	700.6
47.5°	453.8	516.7	607.7	664.8	689.0
50°	438.4	495.4	589.3	650.3	675.4
52.5°	401.6	480.9	571.9	635.8	662.8
55°	387.1	451.9	552.5	620.3	647.4
57.5°	347.4	431.6	533.2	602.9	630.9
60°	328.0	403.5	511.9	585.4	614.5
62.5°	298.0	379.3	490.6	566.1	596.1
65°	265.1	353.2	467.4	547.7	578.7
67.5°	234.2	327.1	445.1	528.3	561.2
70°	204.2	300.0	421.9	509.0	541.9
72.5°	169.3	272.9	399.6	490.6	523.5
75°	139.3	246.8	378.4	471.3	504.2
77.5°	110.3	221.6	358.0	453.8	486.7
80°	83.2	197.4	337.7	435.4	469.3
82.5°	58.1	177.1	319.3	418.0	450.9
85°	35.8	158.7	301.9	399.6	433.5
87.5°	16.5	142.2	284.5	382.2	417.1
90°	1.9	129.7	270.0	367.7	401.6
92.5°	1.0	125.8	264.2	360.9	393.8
95°	0.0	121.9	261.3	357.1	390.0
97.5°	0.0	118.1	254.5	351.3	385.1
100°	0.0	116.1	249.7	342.6	375.5
102.5°	0.0	113.2	243.9	334.8	367.7
105°	0.0	112.2	238.0	328.0	360.0
107.5°	0.0	110.3	232.2	319.3	351.3
110°	0.0	108.4	227.4	311.6	342.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	106.4	222.6	303.8	333.8
115°	0.0	104.5	216.8	295.1	324.2
117.5°	0.0	101.6	211.0	286.4	315.5
120°	0.0	97.7	205.1	278.7	305.8
122.5°	0.0	93.9	199.3	269.0	295.1
125°	0.0	90.0	192.6	260.3	285.5
127.5°	0.0	84.2	184.8	250.6	273.8
130°	0.0	78.4	175.1	240.9	263.2
132.5°	1.0	72.6	165.5	230.3	252.6
135°	0.0	66.8	154.8	219.7	240.0
137.5°	0.0	61.9	143.2	208.0	227.4
140°	0.0	56.1	131.6	194.5	214.8
142.5°	0.0	49.4	120.0	180.0	201.3
145°	0.0	43.5	108.4	164.5	187.7
147.5°	1.0	38.7	97.7	148.1	173.2
150°	1.0	34.8	87.1	131.6	156.8
152.5°	1.0	31.0	76.4	116.1	140.3
155°	1.0	27.1	66.8	100.6	124.8
157.5°	1.0	23.2	56.1	85.2	108.4
160°	1.0	20.3	46.4	71.6	92.9
162.5°	1.0	17.4	37.7	56.1	76.4
165°	1.0	14.5	30.0	41.6	59.0
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)