

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: P1213133

Luminaire Tested: 4SNLED-LD5-58SL-SLW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213133
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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

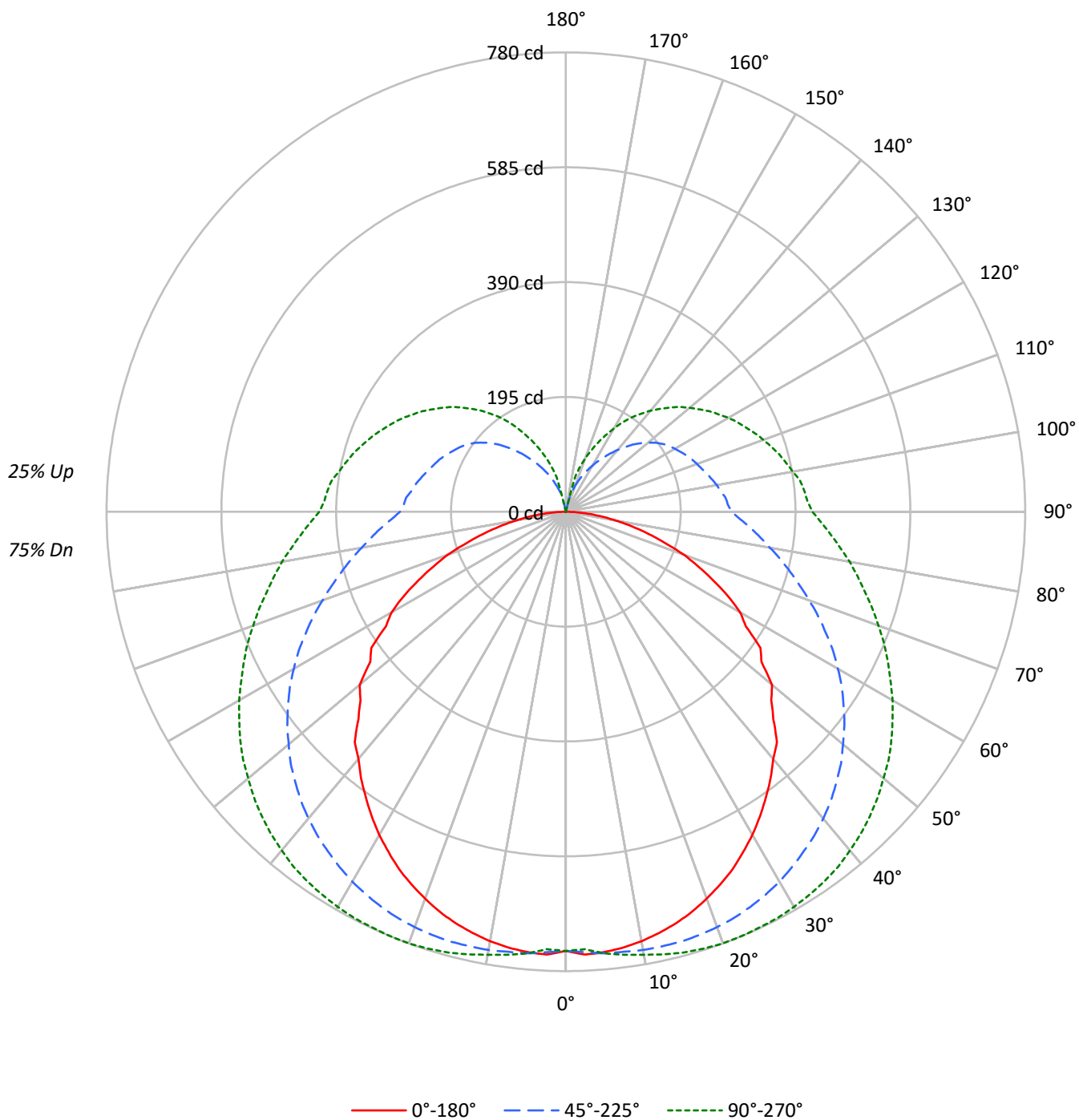
Lumens per Lamp: N/A
Luminaire Lumens: 4293.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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

TEST NUMBER: P1213133

CATALOG NUMBER: 4SNLED-LD5-58SL-SLW-UNV-L930-CD1-U

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°	6024	6024	6024
5°	6071	5955	5911
10°	6042	5901	5878
15°	6001	5869	5889
20°	5944	5843	5900
25°	5886	5821	5910
30°	5807	5804	5941
35°	5717	5782	5982
40°	5631	5778	6021
45°	5522	5767	6069
50°	5539	5753	6116
55°	5442	5753	6190
60°	5244	5757	6274
65°	4953	5763	6391
70°	4633	5805	6571
75°	4063	5940	6835
80°	3431	6229	7278
85°	2548	6807	7920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 9012 cd/sqm

TEST NUMBER: P1213133

CATALOG NUMBER: 4SNLED-LD5-58SL-SLW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.7
10°-20°	212.4	4.9
20°-30°	337.5	7.9
30°-40°	433.2	10.1
40°-50°	489.2	11.4
50°-60°	499.2	11.6
60°-70°	462.4	10.8
70°-80°	391.5	9.1
80°-90°	312.5	7.3
90°-100°	265.4	6.2
100°-110°	236.4	5.5
110°-120°	201.4	4.7
120°-130°	160.0	3.7
130°-140°	113.5	2.6
140°-150°	67.7	1.6
150°-160°	31.6	0.7
160°-170°	7.5	0.2
170°-180°	0.0	0.0
0°-30°	621.6	14.5
0°-40°	1054.8	24.6
0°-60°	2043.1	47.6
0°-90°	3209.6	74.8
90°-120°	703.2	16.4
90°-150°	1044.3	24.3
90°-180°	1083.0	25.2
0°-180°	4293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	750	744	753	753	753	71
15°	723	729	756	770	775	204
25°	670	692	740	767	779	308
35°	592	636	704	748	766	371
45°	498	566	650	706	730	387
55°	404	471	576	647	675	354
65°	276	368	487	571	603	274
75°	145	257	394	491	526	155
85°	37	165	315	417	452	41
90°	2	135	282	383	419	3
95°	0	127	272	372	406	0
105°	0	117	248	342	375	0
115°	0	109	226	308	338	0
125°	0	94	201	271	298	0
135°	0	70	161	229	250	0
145°	0	45	113	172	196	0
155°	1	28	70	105	130	0
165°	1	15	31	43	62	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1213133

CATALOG NUMBER: 4SNLED-LD5-58SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	745.5	745.5	745.5	745.5	745.5
2.5°	752.6	744.5	748.5	747.5	743.5
5°	750.5	744.5	752.6	752.6	752.6
7.5°	746.5	742.5	753.6	757.6	758.6
10°	740.4	740.4	755.6	761.6	763.7
12.5°	732.4	735.4	755.6	764.7	769.7
15°	723.3	729.4	755.6	769.7	774.7
17.5°	712.2	722.3	753.6	770.7	777.8
20°	699.1	714.2	750.5	770.7	779.8
22.5°	685.0	704.1	746.5	768.7	779.8
25°	669.8	692.0	740.4	766.7	778.8
27.5°	651.7	679.9	733.4	763.7	777.8
30°	633.5	665.8	725.3	759.6	774.7
32.5°	613.3	650.7	715.2	753.6	770.7
35°	592.2	635.5	704.1	747.5	765.7
37.5°	571.0	617.4	693.0	739.4	759.6
40°	547.8	599.2	679.9	729.4	750.5
42.5°	530.6	580.1	665.8	719.3	741.5
45°	498.3	565.9	649.7	706.1	730.4
47.5°	473.1	538.7	633.5	693.0	718.3
50°	457.0	516.5	614.4	677.9	704.1
52.5°	418.6	501.4	596.2	662.8	691.0
55°	403.5	471.1	576.0	646.6	674.9
57.5°	362.2	449.9	555.8	628.5	657.7
60°	342.0	420.7	533.6	610.3	640.6
62.5°	310.7	395.4	511.5	590.1	621.4
65°	276.4	368.2	487.2	571.0	603.3
67.5°	244.1	341.0	464.0	550.8	585.1
70°	212.9	312.7	439.8	530.6	564.9
72.5°	176.5	284.5	416.6	511.5	545.8
75°	145.3	257.2	394.4	491.3	525.6
77.5°	115.0	231.0	373.3	473.1	507.4
80°	86.8	205.8	352.1	454.0	489.3
82.5°	60.5	184.6	332.9	435.8	470.1
85°	37.3	165.4	314.7	416.6	451.9
87.5°	17.1	148.3	296.6	398.5	434.8
90°	2.0	135.2	281.5	383.3	418.6
92.5°	1.0	131.1	275.4	376.3	410.6
95°	0.0	127.1	272.4	372.2	406.5
97.5°	0.0	123.1	265.3	366.2	401.5
100°	0.0	121.1	260.3	357.1	391.4
102.5°	0.0	118.0	254.2	349.0	383.3
105°	0.0	117.0	248.2	342.0	375.3
107.5°	0.0	115.0	242.1	332.9	366.2
110°	0.0	113.0	237.1	324.8	357.1

TEST NUMBER: P1213133

CATALOG NUMBER: 4SNLED-LD5-58SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	111.0	232.0	316.8	348.0
115°	0.0	108.9	226.0	307.7	337.9
117.5°	0.0	105.9	219.9	298.6	328.9
120°	0.0	101.9	213.9	290.5	318.8
122.5°	0.0	97.9	207.8	280.4	307.7
125°	0.0	93.8	200.7	271.4	297.6
127.5°	0.0	87.8	192.7	261.3	285.5
130°	0.0	81.7	182.6	251.2	274.4
132.5°	1.0	75.7	172.5	240.1	263.3
135°	0.0	69.6	161.4	229.0	250.2
137.5°	0.0	64.6	149.3	216.9	237.1
140°	0.0	58.5	137.2	202.8	224.0
142.5°	0.0	51.4	125.1	187.6	209.8
145°	0.0	45.4	113.0	171.5	195.7
147.5°	1.0	40.4	101.9	154.3	180.6
150°	1.0	36.3	90.8	137.2	163.4
152.5°	1.0	32.3	79.7	121.1	146.3
155°	1.0	28.2	69.6	104.9	130.1
157.5°	1.0	24.2	58.5	88.8	113.0
160°	1.0	21.2	48.4	74.7	96.8
162.5°	1.0	18.2	39.3	58.5	79.7
165°	1.0	15.1	31.3	43.4	61.5
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)