

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P284625

Luminaire Tested: **4SNLED-LD5-52SL-SLW-UNV-L930-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P284625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-52SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

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

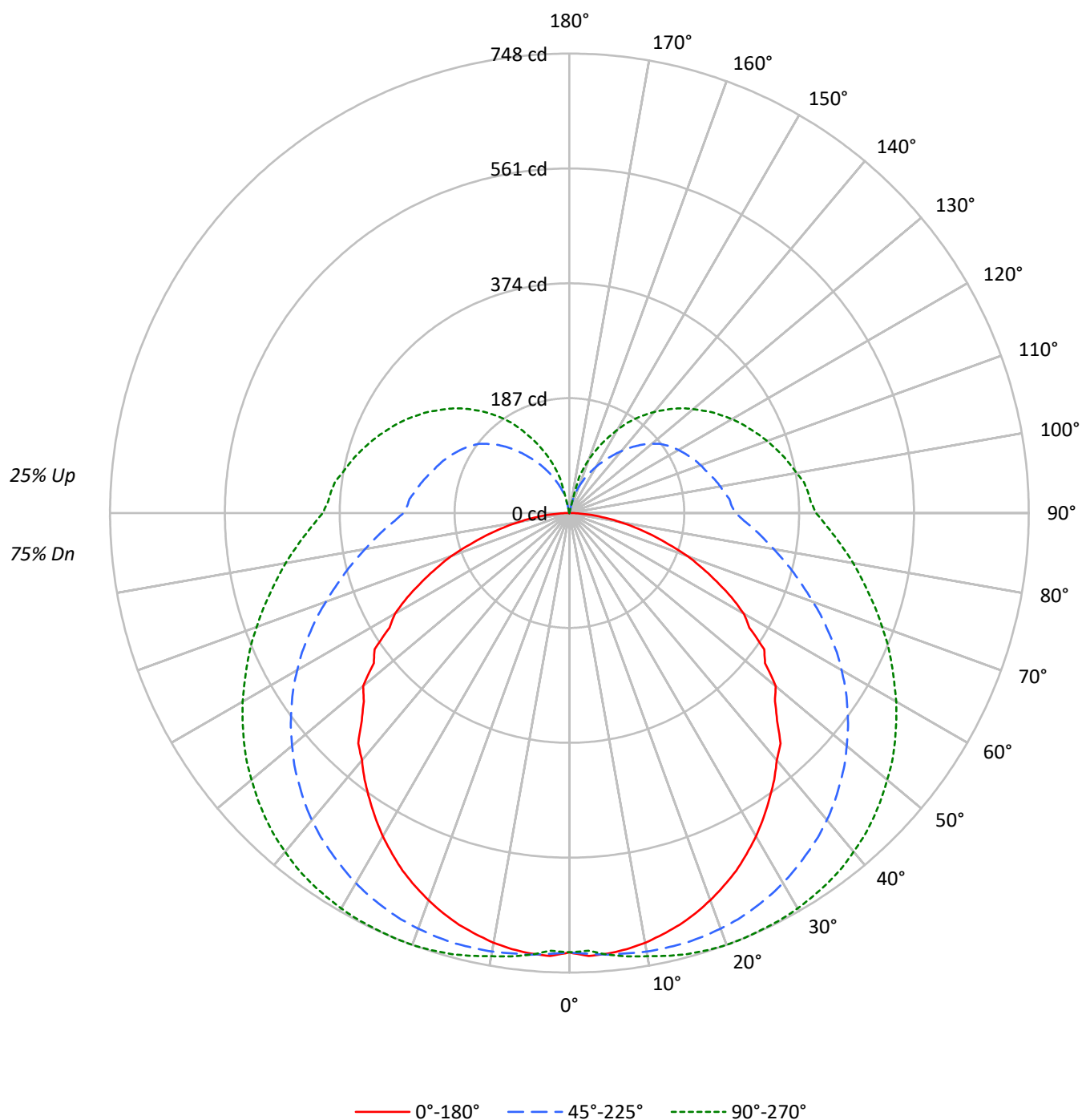
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5780	5780	5780
5°	5824	5711	5668
10°	5797	5661	5638
15°	5756	5631	5649
20°	5702	5604	5660
25°	5647	5585	5669
30°	5569	5567	5700
35°	5482	5547	5738
40°	5401	5544	5775
45°	5298	5530	5821
50°	5314	5519	5867
55°	5219	5518	5937
60°	5029	5522	6018
65°	4749	5528	6130
70°	4443	5570	6302
75°	3898	5699	6557
80°	3293	5972	6979
85°	2446	6530	7597



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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°	469.2	11.4
50°-60°	478.8	11.6
60°-70°	443.6	10.8
70°-80°	375.6	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°	1959.8	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°	643	664	710	735	747	296
35°	568	610	676	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	192	260	285	0
135°	0	67	155	220	240	0
145°	0	44	108	164	188	0
155°	1	27	67	100	125	0
165°	1	15	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°	715.2	715.2	715.2	715.2	715.2
2.5°	721.7	714.2	718.1	717.0	713.1
5°	719.9	714.2	721.7	721.7	721.7
7.5°	716.0	712.1	722.8	726.7	727.8
10°	710.3	710.3	724.9	730.6	732.5
12.5°	702.4	705.3	724.9	733.5	738.2
15°	693.8	699.6	724.9	738.2	743.2
17.5°	683.1	692.8	722.8	739.2	746.0
20°	670.6	685.2	719.9	739.2	748.1
22.5°	657.0	675.5	716.0	737.4	748.1
25°	642.6	663.8	710.3	735.3	747.1
27.5°	625.1	652.3	703.5	732.5	746.0
30°	607.6	638.7	695.6	728.5	743.2
32.5°	588.3	624.1	686.0	722.8	739.2
35°	567.9	609.7	675.5	717.0	734.5
37.5°	547.6	592.2	664.8	709.2	728.5
40°	525.4	574.7	652.3	699.6	719.9
42.5°	508.9	556.5	638.7	689.9	711.3
45°	478.1	542.9	623.0	677.4	700.6
47.5°	453.8	516.8	607.6	664.8	688.8
50°	438.4	495.4	589.4	650.2	675.5
52.5°	401.6	481.0	571.9	635.8	662.7
55°	387.0	452.0	552.5	620.2	647.3
57.5°	347.3	431.6	533.2	602.9	630.9
60°	328.0	403.4	511.8	585.4	614.4
62.5°	297.9	379.4	490.7	566.1	596.1
65°	265.0	353.3	467.4	547.6	578.7
67.5°	234.2	327.2	445.2	528.3	561.2
70°	204.2	300.0	422.0	508.9	541.8
72.5°	169.2	272.9	399.5	490.7	523.6
75°	139.4	246.8	378.4	471.3	504.2
77.5°	110.2	221.7	358.0	453.8	486.7
80°	83.3	197.4	337.6	435.6	469.2
82.5°	58.0	177.0	319.4	418.1	451.0
85°	35.8	158.8	301.9	399.5	433.5
87.5°	16.5	142.3	284.4	382.3	417.0
90°	1.8	129.8	270.0	367.7	401.6
92.5°	1.0	125.9	264.3	360.9	393.8
95°	0.0	121.9	261.4	357.0	389.9
97.5°	0.0	118.0	254.6	351.2	385.2
100°	0.0	116.2	249.6	342.6	375.5
102.5°	0.0	113.3	243.9	334.8	367.7
105°	0.0	112.3	238.1	328.0	360.1
107.5°	0.0	110.2	232.1	319.4	351.2
110°	0.0	108.4	227.4	311.5	342.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	106.5	222.5	303.9	333.7
115°	0.0	104.4	216.7	295.1	324.1
117.5°	0.0	101.6	211.0	286.5	315.4
120°	0.0	97.7	205.2	278.6	305.8
122.5°	0.0	93.7	199.2	269.0	295.1
125°	0.0	90.1	192.4	260.3	285.4
127.5°	0.0	84.1	184.9	250.7	273.9
130°	0.0	78.3	175.2	241.0	263.2
132.5°	1.0	72.6	165.6	230.3	252.5
135°	0.0	66.8	154.8	219.6	240.0
137.5°	0.0	61.9	143.1	208.1	227.4
140°	0.0	56.1	131.6	194.5	214.9
142.5°	0.0	49.4	120.1	179.9	201.3
145°	0.0	43.6	108.4	164.5	187.7
147.5°	1.0	38.6	97.7	148.1	173.1
150°	1.0	34.7	87.2	131.6	156.7
152.5°	1.0	31.1	76.5	116.2	140.2
155°	1.0	27.2	66.8	100.5	124.8
157.5°	1.0	23.2	56.1	85.1	108.4
160°	1.0	20.4	46.5	71.5	93.0
162.5°	1.0	17.5	37.9	56.1	76.5
165°	1.0	14.6	30.0	41.5	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)