

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: P284631

Luminaire Tested: **4SNLED-LD5-52HL-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: P284631
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-LD5-52HL-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: 4116.0 lumens
Efficiency: N/A
Efficacy: 95.7 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

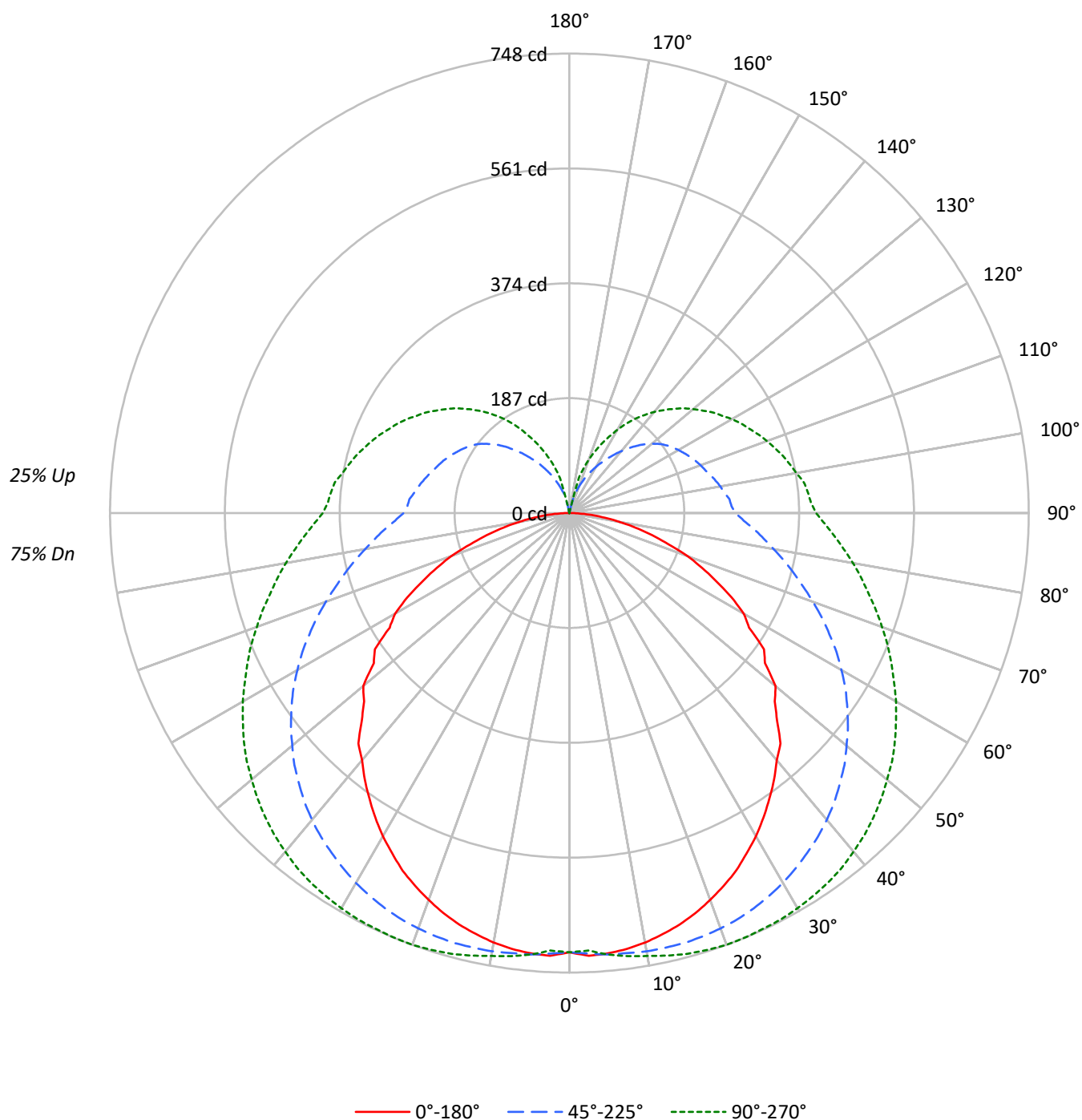
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5777	5777	5777
5°	5821	5708	5666
10°	5793	5658	5634
15°	5754	5628	5646
20°	5699	5602	5658
25°	5645	5581	5666
30°	5566	5564	5697
35°	5480	5545	5735
40°	5398	5541	5773
45°	5296	5527	5819
50°	5311	5516	5865
55°	5217	5516	5934
60°	5026	5520	6015
65°	4747	5526	6127
70°	4441	5568	6300
75°	3898	5696	6554
80°	3293	5970	6976
85°	2446	6526	7594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.7
10°-20°	203.6	4.9
20°-30°	323.6	7.9
30°-40°	415.3	10.1
40°-50°	469.0	11.4
50°-60°	478.6	11.6
60°-70°	443.4	10.8
70°-80°	375.4	9.1
80°-90°	299.6	7.3
90°-100°	254.4	6.2
100°-110°	226.7	5.5
110°-120°	193.1	4.7
120°-130°	153.3	3.7
130°-140°	108.8	2.6
140°-150°	64.9	1.6
150°-160°	30.3	0.7
160°-170°	7.2	0.2
170°-180°	0.0	0.0
0°-30°	595.9	14.5
0°-40°	1011.3	24.6
0°-60°	1958.9	47.6
0°-90°	3077.2	74.8
90°-120°	674.2	16.4
90°-150°	1001.3	24.3
90°-180°	1039.0	25.2
0°-180°	4116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	720	714	721	721	721	68
15°	694	699	724	738	743	196
25°	642	664	710	735	747	296
35°	568	609	675	717	734	355
45°	478	543	623	677	700	371
55°	387	452	552	620	647	340
65°	265	353	467	547	578	263
75°	139	247	378	471	504	148
85°	36	159	302	399	433	39
90°	2	130	270	368	401	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°	714.9	714.9	714.9	714.9	714.9
2.5°	721.4	713.8	717.7	716.7	712.8
5°	719.6	713.8	721.4	721.4	721.4
7.5°	715.7	711.7	722.4	726.4	727.4
10°	709.9	709.9	724.5	730.3	732.1
12.5°	702.1	705.0	724.5	733.1	737.8
15°	693.5	699.2	724.5	737.8	742.8
17.5°	682.8	692.4	722.4	738.9	745.7
20°	670.2	684.9	719.6	738.9	747.8
22.5°	656.7	675.2	715.7	737.1	747.8
25°	642.3	663.5	709.9	735.0	746.7
27.5°	624.8	652.0	703.1	732.1	745.7
30°	607.3	638.4	695.3	728.2	742.8
32.5°	588.0	623.8	685.6	722.4	738.9
35°	567.7	609.4	675.2	716.7	734.2
37.5°	547.3	591.9	664.5	708.9	728.2
40°	525.1	574.5	652.0	699.2	719.6
42.5°	508.7	556.2	638.4	689.6	711.0
45°	477.9	542.6	622.7	677.0	700.3
47.5°	453.6	516.5	607.3	664.5	688.5
50°	438.2	495.1	589.1	649.9	675.2
52.5°	401.4	480.8	571.6	635.5	662.4
55°	386.8	451.8	552.3	619.9	647.0
57.5°	347.1	431.4	533.0	602.6	630.6
60°	327.8	403.2	511.6	585.2	614.1
62.5°	297.8	379.2	490.4	565.8	595.9
65°	264.9	353.1	467.2	547.3	578.4
67.5°	234.1	327.0	445.0	528.0	560.9
70°	204.1	299.9	421.8	508.7	541.6
72.5°	169.1	272.7	399.3	490.4	523.3
75°	139.4	246.6	378.2	471.1	504.0
77.5°	110.1	221.6	357.8	453.6	486.5
80°	83.3	197.3	337.5	435.3	469.0
82.5°	57.9	177.0	319.2	417.9	450.7
85°	35.8	158.7	301.7	399.3	433.3
87.5°	16.4	142.2	284.2	382.1	416.8
90°	1.8	129.7	269.9	367.5	401.4
92.5°	1.0	125.8	264.1	360.7	393.6
95°	0.0	121.9	261.3	356.8	389.7
97.5°	0.0	118.0	254.5	351.0	385.0
100°	0.0	116.1	249.5	342.4	375.3
102.5°	0.0	113.3	243.8	334.6	367.5
105°	0.0	112.2	238.0	327.8	359.9
107.5°	0.0	110.1	232.0	319.2	351.0
110°	0.0	108.3	227.3	311.4	342.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	106.5	222.4	303.8	333.6
115°	0.0	104.4	216.6	294.9	323.9
117.5°	0.0	101.5	210.9	286.3	315.3
120°	0.0	97.6	205.1	278.5	305.6
122.5°	0.0	93.7	199.1	268.8	294.9
125°	0.0	90.0	192.4	260.2	285.3
127.5°	0.0	84.0	184.8	250.6	273.8
130°	0.0	78.3	175.1	240.9	263.1
132.5°	1.0	72.6	165.5	230.2	252.4
135°	0.0	66.8	154.8	219.5	239.9
137.5°	0.0	61.9	143.0	208.0	227.3
140°	0.0	56.1	131.5	194.4	214.8
142.5°	0.0	49.3	120.1	179.8	201.2
145°	0.0	43.6	108.3	164.4	187.7
147.5°	1.0	38.6	97.6	148.0	173.0
150°	1.0	34.7	87.2	131.5	156.6
152.5°	1.0	31.1	76.5	116.1	140.2
155°	1.0	27.1	66.8	100.5	124.8
157.5°	1.0	23.2	56.1	85.1	108.3
160°	1.0	20.4	46.5	71.5	92.9
162.5°	1.0	17.5	37.8	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)