

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: P284475

Luminaire Tested: **4SNLED-LD5-52HL-SLW-UNV-L830-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: P284475
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-L830-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: 5113.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

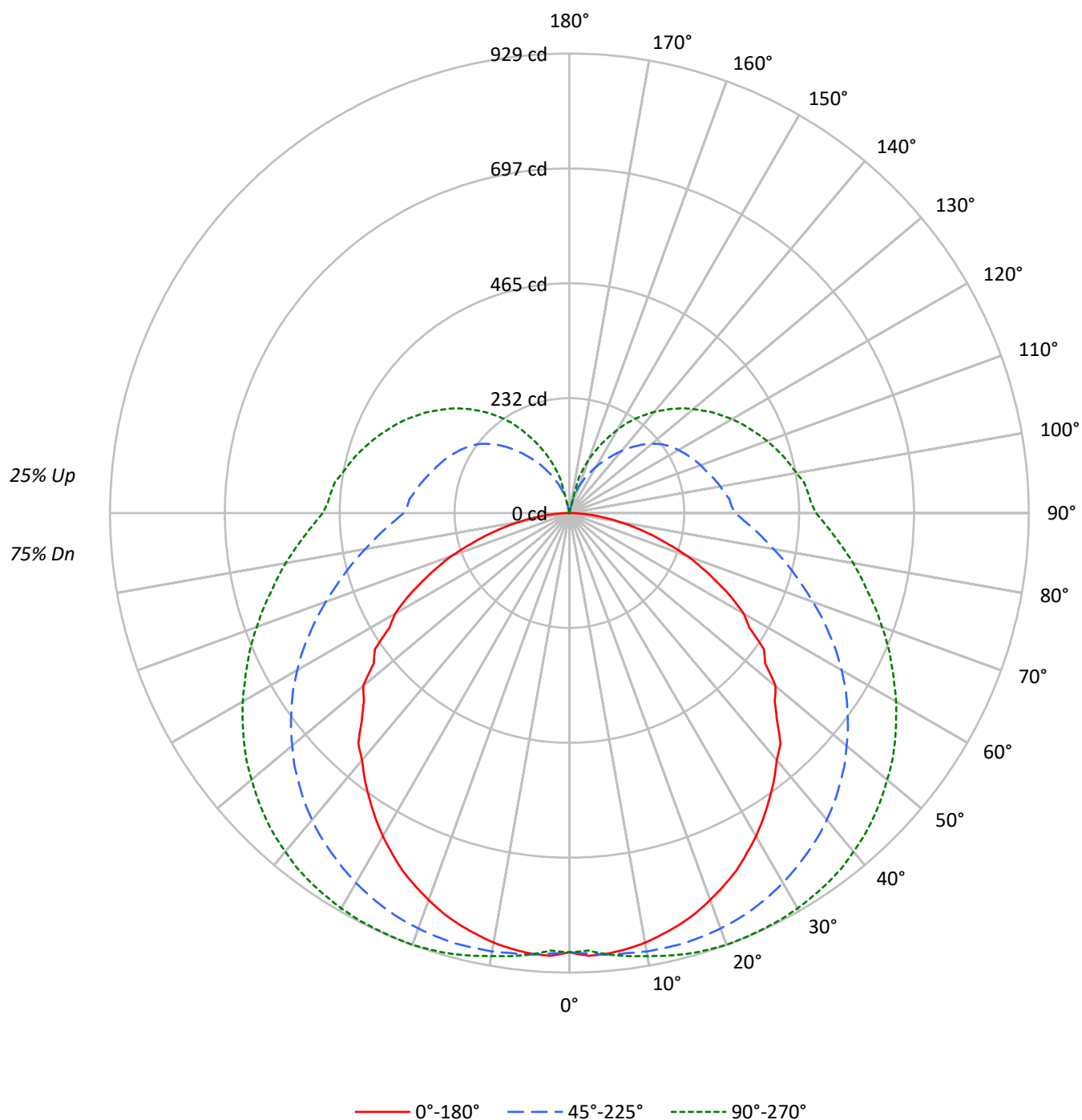
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	10
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°	7176	7176	7176
5°	7231	7091	7038
10°	7197	7029	6999
15°	7147	6991	7014
20°	7080	6959	7028
25°	7012	6934	7039
30°	6916	6912	7076
35°	6808	6888	7124
40°	6705	6883	7171
45°	6578	6867	7228
50°	6598	6852	7286
55°	6480	6851	7371
60°	6243	6856	7472
65°	5898	6864	7611
70°	5516	6915	7826
75°	4840	7076	8142
80°	4087	7416	8665
85°	3033	8107	9432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	1.7
10°-20°	252.9	4.9
20°-30°	402.0	7.9
30°-40°	515.9	10.1
40°-50°	582.6	11.4
50°-60°	594.5	11.6
60°-70°	550.8	10.8
70°-80°	466.3	9.1
80°-90°	372.2	7.3
90°-100°	316.1	6.2
100°-110°	281.6	5.5
110°-120°	239.8	4.7
120°-130°	190.5	3.7
130°-140°	135.2	2.6
140°-150°	80.7	1.6
150°-160°	37.6	0.7
160°-170°	8.9	0.2
170°-180°	0.0	0.0
0°-30°	740.3	14.5
0°-40°	1256.2	24.6
0°-60°	2433.4	47.6
0°-90°	3822.6	74.8
90°-120°	837.5	16.4
90°-150°	1243.8	24.3
90°-180°	1290.0	25.2
0°-180°	5113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	894	887	896	896	896	85
15°	861	869	900	917	923	243
25°	798	824	882	913	928	367
35°	705	757	839	890	912	441
45°	594	674	774	841	870	461
55°	480	561	686	770	804	422
65°	329	439	580	680	718	327
75°	173	306	470	585	626	184
85°	44	197	375	496	538	48
90°	2	161	335	456	499	4
95°	0	151	324	443	484	0
105°	0	139	296	407	447	0
115°	0	130	269	366	402	0
125°	0	112	239	323	354	0
135°	0	83	192	273	298	0
145°	0	54	135	204	233	1
155°	1	34	83	125	155	1
165°	1	18	37	52	73	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°	888.0	888.0	888.0	888.0	888.0
2.5°	896.1	886.7	891.6	890.3	885.4
5°	893.9	886.7	896.1	896.1	896.1
7.5°	889.0	884.1	897.4	902.3	903.6
10°	881.9	881.9	900.0	907.2	909.4
12.5°	872.1	875.7	900.0	910.7	916.6
15°	861.4	868.6	900.0	916.6	922.7
17.5°	848.2	860.1	897.4	917.9	926.3
20°	832.6	850.7	893.9	917.9	928.9
22.5°	815.7	838.8	889.0	915.6	928.9
25°	797.9	824.2	881.9	913.0	927.6
27.5°	776.2	809.9	873.4	909.4	926.3
30°	754.5	793.0	863.7	904.6	922.7
32.5°	730.5	774.9	851.7	897.4	917.9
35°	705.2	757.0	838.8	890.3	912.0
37.5°	679.9	735.3	825.5	880.6	904.6
40°	652.3	713.6	809.9	868.6	893.9
42.5°	631.9	690.9	793.0	856.6	883.2
45°	593.6	674.0	773.6	841.0	869.9
47.5°	563.5	641.6	754.5	825.5	855.3
50°	544.4	615.0	731.8	807.3	838.8
52.5°	498.6	597.2	710.0	789.5	822.9
55°	480.5	561.2	686.0	770.0	803.7
57.5°	431.2	535.9	662.1	748.6	783.3
60°	407.2	500.9	635.5	726.9	762.9
62.5°	369.9	471.1	609.2	702.9	740.2
65°	329.1	438.7	580.3	679.9	718.5
67.5°	290.8	406.2	552.8	655.9	696.7
70°	253.5	372.5	523.9	631.9	672.8
72.5°	210.1	338.8	496.1	609.2	650.1
75°	173.1	306.4	469.8	585.2	626.1
77.5°	136.8	275.3	444.5	563.5	604.3
80°	103.4	245.1	419.2	540.8	582.6
82.5°	72.0	219.8	396.5	519.1	559.9
85°	44.4	197.1	374.8	496.1	538.2
87.5°	20.4	176.7	353.1	474.7	517.8
90°	2.3	161.1	335.2	456.5	498.6
92.5°	1.3	156.3	328.1	448.1	488.9
95°	0.0	151.4	324.5	443.2	484.1
97.5°	0.0	146.5	316.1	436.1	478.2
100°	0.0	144.3	310.0	425.4	466.2
102.5°	0.0	140.7	302.8	415.6	456.5
105°	0.0	139.4	295.7	407.2	447.1
107.5°	0.0	136.8	288.2	396.5	436.1
110°	0.0	134.6	282.4	386.8	425.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	132.3	276.2	377.4	414.3
115°	0.0	129.7	269.1	366.4	402.4
117.5°	0.0	126.1	262.0	355.7	391.7
120°	0.0	121.3	254.8	345.9	379.7
122.5°	0.0	116.4	247.4	333.9	366.4
125°	0.0	111.9	238.9	323.2	354.4
127.5°	0.0	104.4	229.5	311.2	340.1
130°	0.0	97.3	217.5	299.3	326.8
132.5°	1.3	90.1	205.6	286.0	313.5
135°	0.0	83.0	192.3	272.7	298.0
137.5°	0.0	76.8	177.7	258.4	282.4
140°	0.0	69.7	163.4	241.5	266.8
142.5°	0.0	61.3	149.1	223.4	250.0
145°	0.0	54.1	134.6	204.3	233.1
147.5°	1.3	48.0	121.3	183.8	215.0
150°	1.3	43.1	108.3	163.4	194.5
152.5°	1.3	38.6	95.0	144.3	174.1
155°	1.3	33.7	83.0	124.8	155.0
157.5°	1.3	28.9	69.7	105.7	134.6
160°	1.3	25.3	57.7	88.8	115.4
162.5°	1.3	21.7	47.0	69.7	95.0
165°	1.3	18.2	37.3	51.6	73.3
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)