

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: P284624

Luminaire Tested: **4SNLED-LD5-48SL-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: P284624
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-LD5-48SL-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: 3808.0 lumens
Efficiency: N/A
Efficacy: 82.8 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

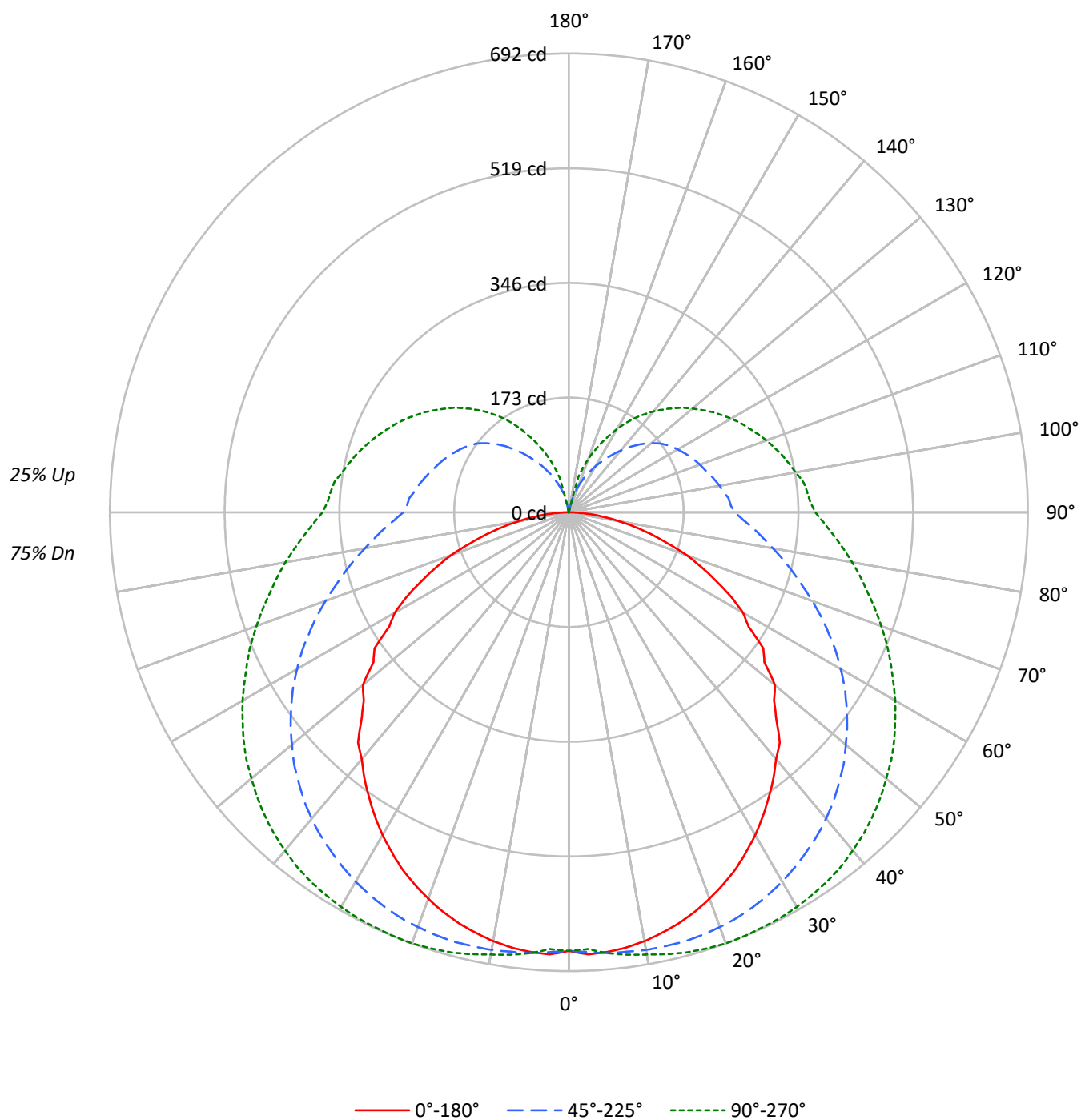
Input Watts (W): 46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5345	5345	5345
5°	5385	5281	5242
10°	5360	5235	5213
15°	5323	5207	5224
20°	5273	5182	5234
25°	5222	5164	5242
30°	5150	5148	5270
35°	5070	5130	5306
40°	4994	5126	5340
45°	4899	5114	5384
50°	4914	5103	5426
55°	4827	5103	5490
60°	4650	5106	5565
65°	4392	5112	5669
70°	4108	5151	5827
75°	3604	5270	6064
80°	3044	5523	6454
85°	2261	6037	7024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	1.7
10°-20°	188.4	4.9
20°-30°	299.4	7.9
30°-40°	384.3	10.1
40°-50°	433.9	11.4
50°-60°	442.8	11.6
60°-70°	410.2	10.8
70°-80°	347.3	9.1
80°-90°	277.2	7.3
90°-100°	235.4	6.2
100°-110°	209.7	5.5
110°-120°	178.6	4.7
120°-130°	141.9	3.7
130°-140°	100.6	2.6
140°-150°	60.1	1.6
150°-160°	28.0	0.7
160°-170°	6.7	0.2
170°-180°	0.0	0.0
0°-30°	551.3	14.5
0°-40°	935.6	24.6
0°-60°	1812.3	47.6
0°-90°	2847.0	74.8
90°-120°	623.7	16.4
90°-150°	926.4	24.3
90°-180°	961.0	25.2
0°-180°	3808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	666	660	667	667	667	63
15°	642	647	670	683	687	181
25°	594	614	657	680	691	274
35°	525	564	625	663	679	329
45°	442	502	576	626	648	343
55°	358	418	511	574	599	314
65°	245	327	432	506	535	243
75°	129	228	350	436	466	137
85°	33	147	279	369	401	36
90°	2	120	250	340	371	3
95°	0	113	242	330	360	0
105°	0	104	220	303	333	0
115°	0	97	200	273	300	0
125°	0	83	178	241	264	0
135°	0	62	143	203	222	0
145°	0	40	100	152	174	0
155°	1	25	62	93	115	0
165°	1	14	28	38	55	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°	661.4	661.4	661.4	661.4	661.4
2.5°	667.4	660.4	664.0	663.1	659.4
5°	665.7	660.4	667.4	667.4	667.4
7.5°	662.1	658.5	668.4	672.0	673.0
10°	656.8	656.8	670.3	675.6	677.3
12.5°	649.5	652.2	670.3	678.3	682.6
15°	641.6	646.9	670.3	682.6	687.2
17.5°	631.7	640.6	668.4	683.6	689.9
20°	620.1	633.6	665.7	683.6	691.8
22.5°	607.5	624.7	662.1	681.9	691.8
25°	594.2	613.8	656.8	680.0	690.8
27.5°	578.1	603.2	650.5	677.3	689.9
30°	561.9	590.6	643.3	673.7	687.2
32.5°	544.0	577.1	634.3	668.4	683.6
35°	525.2	563.8	624.7	663.1	679.2
37.5°	506.4	547.6	614.8	655.8	673.7
40°	485.8	531.5	603.2	646.9	665.7
42.5°	470.6	514.6	590.6	638.0	657.8
45°	442.1	502.0	576.1	626.4	647.9
47.5°	419.7	477.9	561.9	614.8	637.0
50°	405.4	458.1	545.0	601.3	624.7
52.5°	371.4	444.8	528.8	588.0	612.8
55°	357.9	418.0	510.9	573.5	598.6
57.5°	321.2	399.1	493.1	557.5	583.4
60°	303.3	373.1	473.3	541.4	568.2
62.5°	275.5	350.9	453.7	523.5	551.3
65°	245.1	326.7	432.2	506.4	535.1
67.5°	216.6	302.6	411.7	488.5	518.9
70°	188.8	277.4	390.2	470.6	501.0
72.5°	156.5	252.3	369.4	453.7	484.1
75°	128.9	228.2	349.9	435.8	466.3
77.5°	101.9	205.0	331.1	419.7	450.1
80°	77.0	182.5	312.2	402.8	433.9
82.5°	53.6	163.7	295.3	386.6	417.0
85°	33.1	146.8	279.1	369.4	400.8
87.5°	15.2	131.6	263.0	353.5	385.6
90°	1.7	120.0	249.7	340.0	371.4
92.5°	1.0	116.4	244.4	333.7	364.1
95°	0.0	112.8	241.7	330.1	360.5
97.5°	0.0	109.1	235.4	324.8	356.2
100°	0.0	107.5	230.8	316.8	347.2
102.5°	0.0	104.8	225.5	309.6	340.0
105°	0.0	103.8	220.2	303.3	333.0
107.5°	0.0	101.9	214.7	295.3	324.8
110°	0.0	100.2	210.3	288.1	316.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	98.5	205.7	281.1	308.6
115°	0.0	96.6	200.4	272.9	299.7
117.5°	0.0	93.9	195.1	264.9	291.7
120°	0.0	90.3	189.8	257.6	282.8
122.5°	0.0	86.7	184.2	248.7	272.9
125°	0.0	83.3	178.0	240.7	263.9
127.5°	0.0	77.8	171.0	231.8	253.3
130°	0.0	72.4	162.0	222.9	243.4
132.5°	1.0	67.1	153.1	213.0	233.5
135°	0.0	61.8	143.2	203.1	221.9
137.5°	0.0	57.2	132.3	192.4	210.3
140°	0.0	51.9	121.7	179.9	198.7
142.5°	0.0	45.6	111.1	166.4	186.2
145°	0.0	40.3	100.2	152.1	173.6
147.5°	1.0	35.7	90.3	136.9	160.1
150°	1.0	32.1	80.6	121.7	144.9
152.5°	1.0	28.7	70.7	107.5	129.7
155°	1.0	25.1	61.8	93.0	115.4
157.5°	1.0	21.5	51.9	78.7	100.2
160°	1.0	18.8	43.0	66.2	86.0
162.5°	1.0	16.2	35.0	51.9	70.7
165°	1.0	13.5	27.8	38.4	54.6
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)