

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: P284716

Luminaire Tested: **8SNLED-LD5-70SL-SLW-UNV-L940-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: P284716
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: 8SNLED-LD5-70SL-SLW-UNV-L940-CD1-U
Description: 8FT 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: 6007.9 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

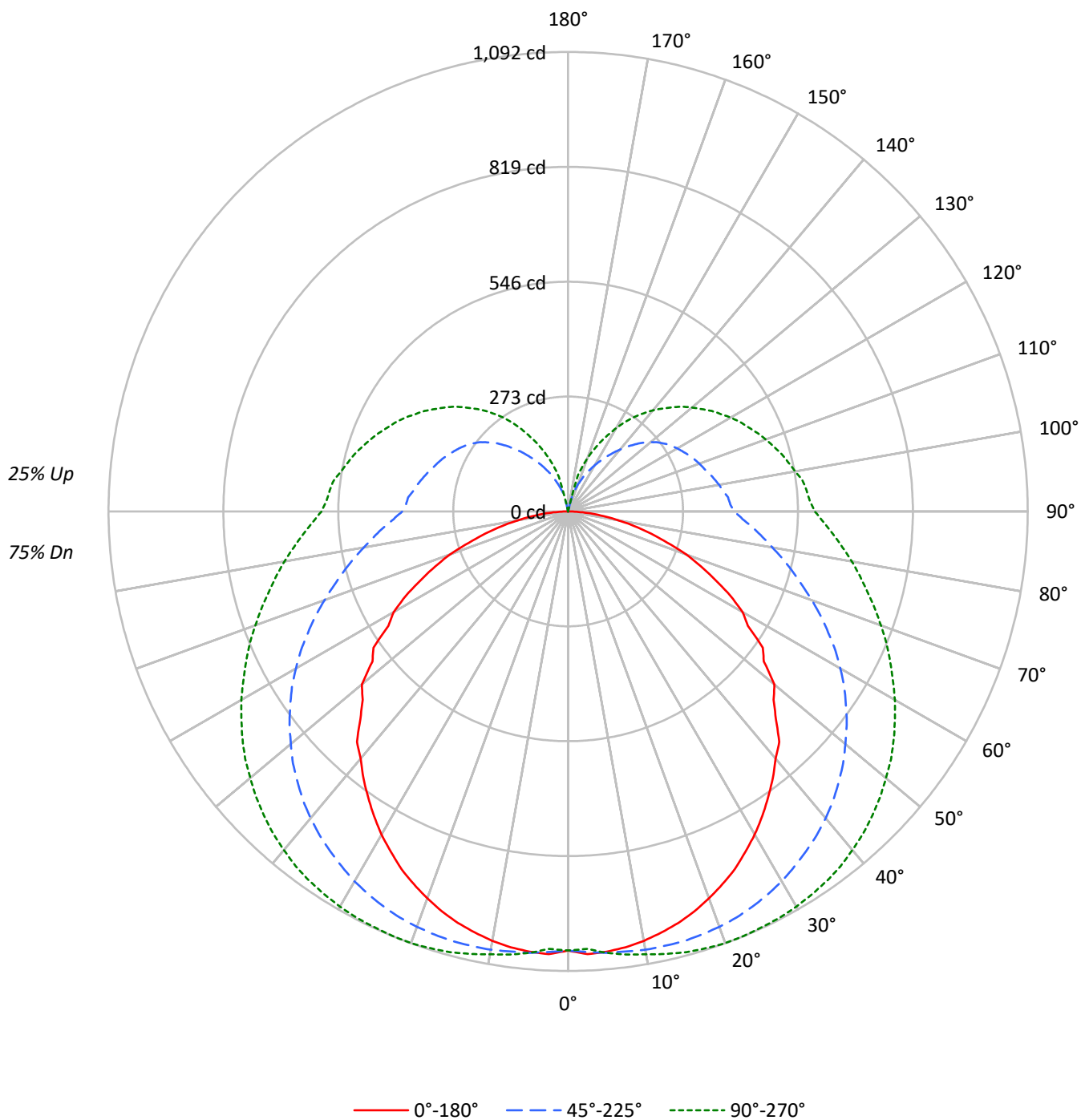
Input Watts (W): 61
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4216	4216	4216
5°	4254	4170	4135
10°	4240	4137	4112
15°	4216	4119	4121
20°	4183	4103	4129
25°	4150	4092	4136
30°	4099	4083	4157
35°	4043	4073	4186
40°	3991	4074	4213
45°	3925	4069	4246
50°	3947	4065	4280
55°	3890	4071	4331
60°	3765	4080	4390
65°	3577	4093	4472
70°	3374	4133	4597
75°	3000	4241	4784
80°	2597	4463	5091
85°	2053	4908	5542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.7
10°-20°	297.2	4.9
20°-30°	472.4	7.9
30°-40°	606.3	10.1
40°-50°	684.6	11.4
50°-60°	698.6	11.6
60°-70°	647.2	10.8
70°-80°	547.9	9.1
80°-90°	437.3	7.3
90°-100°	371.4	6.2
100°-110°	330.9	5.5
110°-120°	281.8	4.7
120°-130°	223.8	3.7
130°-140°	158.8	2.6
140°-150°	94.8	1.6
150°-160°	44.2	0.7
160°-170°	10.5	0.2
170°-180°	0.0	0.0
0°-30°	869.9	14.5
0°-40°	1476.1	24.6
0°-60°	2859.3	47.6
0°-90°	4491.7	74.8
90°-120°	984.1	16.4
90°-150°	1461.5	24.3
90°-180°	1516.0	25.2
0°-180°	6007.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1050	1042	1053	1053	1053	100
15°	1012	1021	1058	1077	1084	286
25°	938	968	1036	1073	1090	432
35°	829	890	986	1046	1072	519
45°	698	792	909	988	1022	542
55°	565	660	806	905	944	496
65°	387	516	682	799	844	384
75°	203	360	552	688	736	216
85°	52	232	440	583	632	57
90°	3	189	394	536	586	4
95°	0	178	381	521	569	0
105°	0	164	347	478	525	0
115°	0	152	316	430	473	0
125°	0	131	281	380	416	0
135°	0	98	226	320	350	0
145°	0	64	158	240	274	1
155°	2	40	98	147	182	1
165°	2	21	44	61	86	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°	1043.5	1043.5	1043.5	1043.5	1043.5
2.5°	1053.0	1042.0	1047.7	1046.1	1040.4
5°	1050.3	1042.0	1053.0	1053.0	1053.0
7.5°	1044.6	1038.9	1054.5	1060.2	1061.8
10°	1036.2	1036.2	1057.6	1066.0	1068.6
12.5°	1024.8	1029.0	1057.6	1070.1	1077.0
15°	1012.2	1020.6	1057.6	1077.0	1084.2
17.5°	996.6	1010.7	1054.5	1078.5	1088.4
20°	978.3	999.7	1050.3	1078.5	1091.5
22.5°	958.5	985.6	1044.6	1075.9	1091.5
25°	937.6	968.4	1036.2	1072.8	1090.0
27.5°	912.0	951.7	1026.3	1068.6	1088.4
30°	886.5	931.9	1014.9	1062.9	1084.2
32.5°	858.3	910.5	1000.8	1054.5	1078.5
35°	828.6	889.6	985.6	1046.1	1071.7
37.5°	798.9	864.0	969.9	1034.7	1062.9
40°	766.5	838.5	951.7	1020.6	1050.3
42.5°	742.5	811.8	931.9	1006.5	1037.8
45°	697.6	792.0	909.0	988.2	1022.1
47.5°	662.1	753.9	886.5	969.9	1005.0
50°	639.6	722.7	859.8	948.6	985.6
52.5°	585.9	701.7	834.3	927.7	966.9
55°	564.6	659.5	806.1	904.8	944.4
57.5°	506.7	629.7	777.9	879.7	920.4
60°	478.5	588.6	746.7	854.1	896.4
62.5°	434.7	553.5	715.8	825.9	869.8
65°	386.7	515.5	681.9	798.9	844.2
67.5°	341.7	477.4	649.6	770.7	818.7
70°	297.9	437.7	615.6	742.5	790.5
72.5°	246.9	398.1	582.9	715.8	763.8
75°	203.4	360.0	552.0	687.7	735.7
77.5°	160.8	323.4	522.3	662.1	710.1
80°	121.5	288.0	492.6	635.5	684.6
82.5°	84.6	258.3	465.9	609.9	657.9
85°	52.2	231.6	440.4	582.9	632.4
87.5°	24.0	207.6	414.9	557.7	608.4
90°	2.7	189.3	393.9	536.4	585.9
92.5°	1.5	183.6	385.5	526.5	574.5
95°	0.0	177.9	381.4	520.8	568.8
97.5°	0.0	172.2	371.4	512.4	561.9
100°	0.0	169.5	364.2	499.8	547.8
102.5°	0.0	165.3	355.8	488.4	536.4
105°	0.0	163.8	347.4	478.5	525.4
107.5°	0.0	160.8	338.7	465.9	512.4
110°	0.0	158.1	331.8	454.5	499.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	155.4	324.6	443.4	486.9
115°	0.0	152.4	316.2	430.5	472.8
117.5°	0.0	148.2	307.8	417.9	460.2
120°	0.0	142.5	299.4	406.5	446.1
122.5°	0.0	136.8	290.7	392.4	430.5
125°	0.0	131.4	280.8	379.8	416.4
127.5°	0.0	122.7	269.7	365.7	399.6
130°	0.0	114.3	255.6	351.6	384.0
132.5°	1.5	105.9	241.5	336.0	368.4
135°	0.0	97.5	225.9	320.4	350.1
137.5°	0.0	90.3	208.8	303.6	331.8
140°	0.0	81.9	192.0	283.8	313.5
142.5°	0.0	72.0	175.2	262.5	293.7
145°	0.0	63.6	158.1	240.0	273.9
147.5°	1.5	56.4	142.5	216.0	252.6
150°	1.5	50.7	127.2	192.0	228.6
152.5°	1.5	45.3	111.6	169.5	204.6
155°	1.5	39.6	97.5	146.7	182.1
157.5°	1.5	33.9	81.9	124.2	158.1
160°	1.5	29.7	67.8	104.4	135.6
162.5°	1.5	25.5	55.2	81.9	111.6
165°	1.5	21.3	43.8	60.6	86.1
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)