

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: P284706

Luminaire Tested: **4SNLED-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: P284706
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-LD5-70SL-SLW-UNV-L940-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: 6047.0 lumens
Efficiency: N/A
Efficacy: 71.1 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

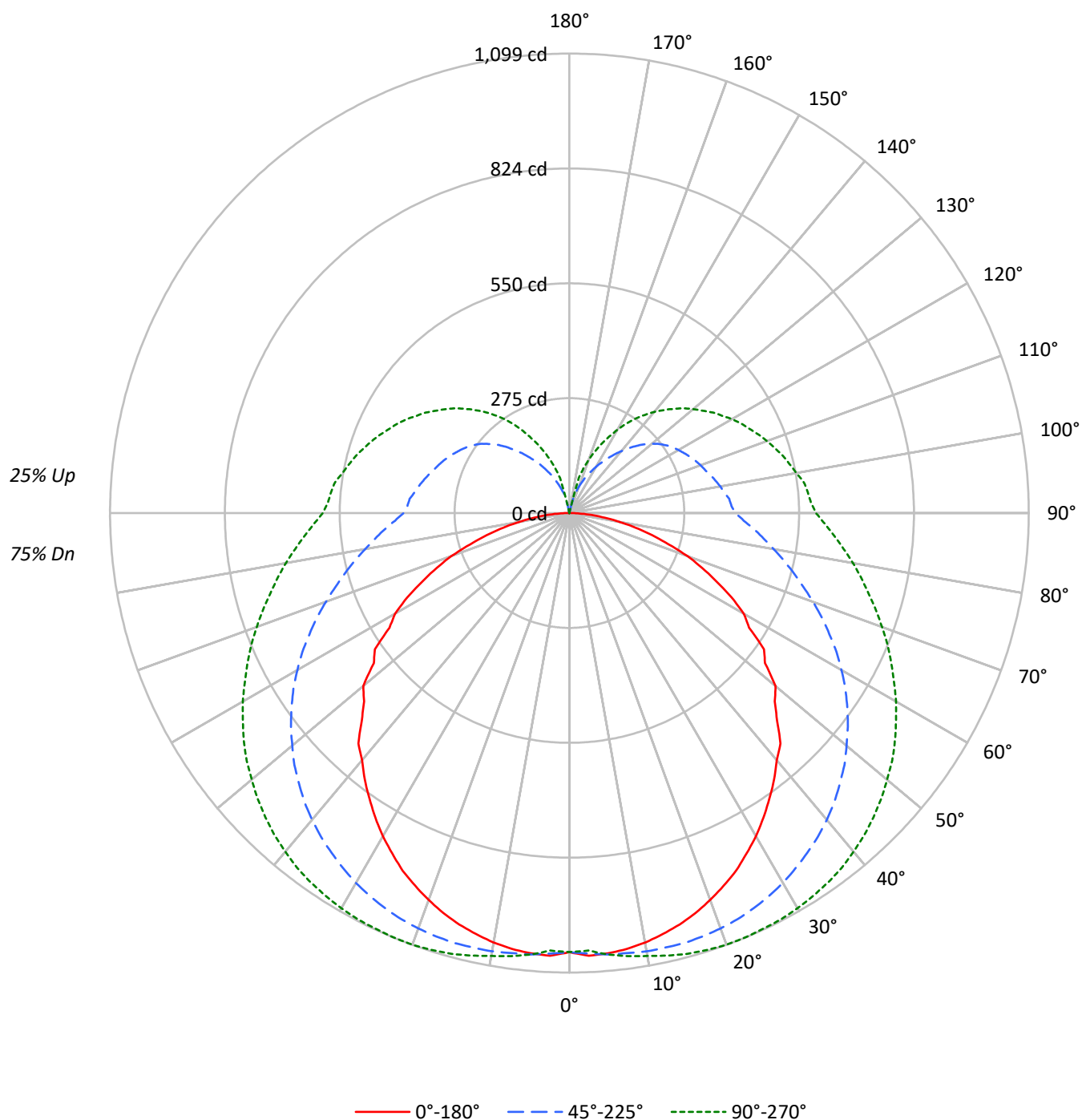
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8487	8487	8487
5°	8553	8386	8324
10°	8512	8313	8278
15°	8453	8268	8296
20°	8373	8230	8312
25°	8294	8200	8324
30°	8179	8175	8369
35°	8051	8146	8426
40°	7931	8140	8481
45°	7781	8121	8549
50°	7803	8103	8617
55°	7665	8104	8719
60°	7384	8108	8836
65°	6975	8119	9001
70°	6526	8179	9254
75°	5727	8368	9628
80°	4835	8771	10248
85°	3587	9589	11155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.7
10°-20°	299.1	4.9
20°-30°	475.4	7.9
30°-40°	610.2	10.1
40°-50°	689.1	11.4
50°-60°	703.1	11.6
60°-70°	651.4	10.8
70°-80°	551.5	9.1
80°-90°	440.2	7.3
90°-100°	373.8	6.2
100°-110°	333.0	5.5
110°-120°	283.6	4.7
120°-130°	225.3	3.7
130°-140°	159.8	2.6
140°-150°	95.4	1.6
150°-160°	44.5	0.7
160°-170°	10.6	0.2
170°-180°	0.0	0.0
0°-30°	875.5	14.5
0°-40°	1485.7	24.6
0°-60°	2877.9	47.6
0°-90°	4520.9	74.8
90°-120°	990.5	16.4
90°-150°	1471.0	24.3
90°-180°	1526.0	25.2
0°-180°	6047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1057	1049	1060	1060	1060	100
15°	1019	1027	1064	1084	1091	287
25°	944	975	1043	1080	1097	434
35°	834	895	992	1053	1079	522
45°	702	797	915	995	1029	545
55°	568	664	811	911	951	499
65°	389	519	686	804	850	386
75°	205	362	556	692	740	218
85°	52	233	443	587	636	57
90°	3	191	396	540	590	4
95°	0	179	384	524	572	0
105°	0	165	350	482	529	0
115°	0	153	318	433	476	0
125°	0	132	283	382	419	0
135°	0	98	227	322	352	0
145°	0	64	159	242	276	1
155°	2	40	98	148	183	1
165°	2	22	44	61	87	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°	1050.2	1050.2	1050.2	1050.2	1050.2
2.5°	1059.8	1048.7	1054.5	1052.9	1047.2
5°	1057.2	1048.7	1059.8	1059.8	1059.8
7.5°	1051.4	1045.6	1061.4	1067.1	1068.7
10°	1043.0	1043.0	1064.4	1072.9	1075.6
12.5°	1031.5	1035.7	1064.4	1077.1	1084.0
15°	1018.8	1027.2	1064.4	1084.0	1091.3
17.5°	1003.1	1017.3	1061.4	1085.5	1095.5
20°	984.7	1006.2	1057.2	1085.5	1098.6
22.5°	964.7	992.0	1051.4	1082.8	1098.6
25°	943.7	974.7	1043.0	1079.8	1097.0
27.5°	918.0	957.8	1033.0	1075.6	1095.5
30°	892.3	937.9	1021.5	1069.8	1091.3
32.5°	863.9	916.4	1007.3	1061.4	1085.5
35°	834.0	895.3	992.0	1052.9	1078.6
37.5°	804.1	869.6	976.2	1041.4	1069.8
40°	771.5	844.0	957.8	1027.2	1057.2
42.5°	747.3	817.1	937.9	1013.1	1044.5
45°	702.1	797.2	914.9	994.7	1028.8
47.5°	666.4	758.8	892.3	976.2	1011.5
50°	643.8	727.4	865.4	954.8	992.0
52.5°	589.7	706.3	839.7	933.7	973.2
55°	568.3	663.7	811.4	910.7	950.6
57.5°	510.0	633.8	783.0	885.4	926.4
60°	481.6	592.4	751.5	859.7	902.2
62.5°	437.5	557.1	720.5	831.3	875.4
65°	389.2	518.8	686.4	804.1	849.7
67.5°	343.9	480.5	653.8	775.7	824.0
70°	299.9	440.6	619.6	747.3	795.6
72.5°	248.5	400.7	586.7	720.5	768.8
75°	204.8	362.4	555.6	692.1	740.4
77.5°	161.8	325.5	525.7	666.4	714.7
80°	122.3	289.9	495.8	639.6	689.0
82.5°	85.1	260.0	469.0	613.9	662.2
85°	52.5	233.1	443.3	586.7	636.5
87.5°	24.2	209.0	417.6	561.4	612.4
90°	2.7	190.6	396.5	539.9	589.7
92.5°	1.5	184.8	388.0	529.9	578.2
95°	0.0	179.1	383.8	524.2	572.5
97.5°	0.0	173.3	373.9	515.7	565.6
100°	0.0	170.6	366.6	503.1	551.4
102.5°	0.0	166.4	358.1	491.6	539.9
105°	0.0	164.9	349.7	481.6	528.8
107.5°	0.0	161.8	340.9	469.0	515.7
110°	0.0	159.1	334.0	457.4	503.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	156.4	326.7	446.3	490.0
115°	0.0	153.4	318.3	433.3	475.9
117.5°	0.0	149.2	309.8	420.6	463.2
120°	0.0	143.4	301.4	409.1	449.0
122.5°	0.0	137.7	292.6	394.9	433.3
125°	0.0	132.3	282.6	382.3	419.1
127.5°	0.0	123.5	271.5	368.1	402.2
130°	0.0	115.0	257.3	353.9	386.5
132.5°	1.5	106.6	243.1	338.2	370.8
135°	0.0	98.2	227.4	322.5	352.4
137.5°	0.0	90.9	210.1	305.6	334.0
140°	0.0	82.4	193.3	285.7	315.6
142.5°	0.0	72.5	176.4	264.2	295.6
145°	0.0	64.0	159.1	241.6	275.7
147.5°	1.5	56.7	143.4	217.4	254.2
150°	1.5	51.0	128.1	193.3	230.1
152.5°	1.5	45.6	112.3	170.6	205.9
155°	1.5	39.9	98.2	147.6	183.3
157.5°	1.5	34.1	82.4	125.0	159.1
160°	1.5	29.9	68.3	105.1	136.5
162.5°	1.5	25.7	55.6	82.4	112.3
165°	1.5	21.5	44.1	61.0	86.7
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)