

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: P284745

Luminaire Tested: **4SNLED-LD5-70SL-SLW-UNV-L950-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: P284745
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-L950-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: 6446.0 lumens
Efficiency: N/A
Efficacy: 75.8 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

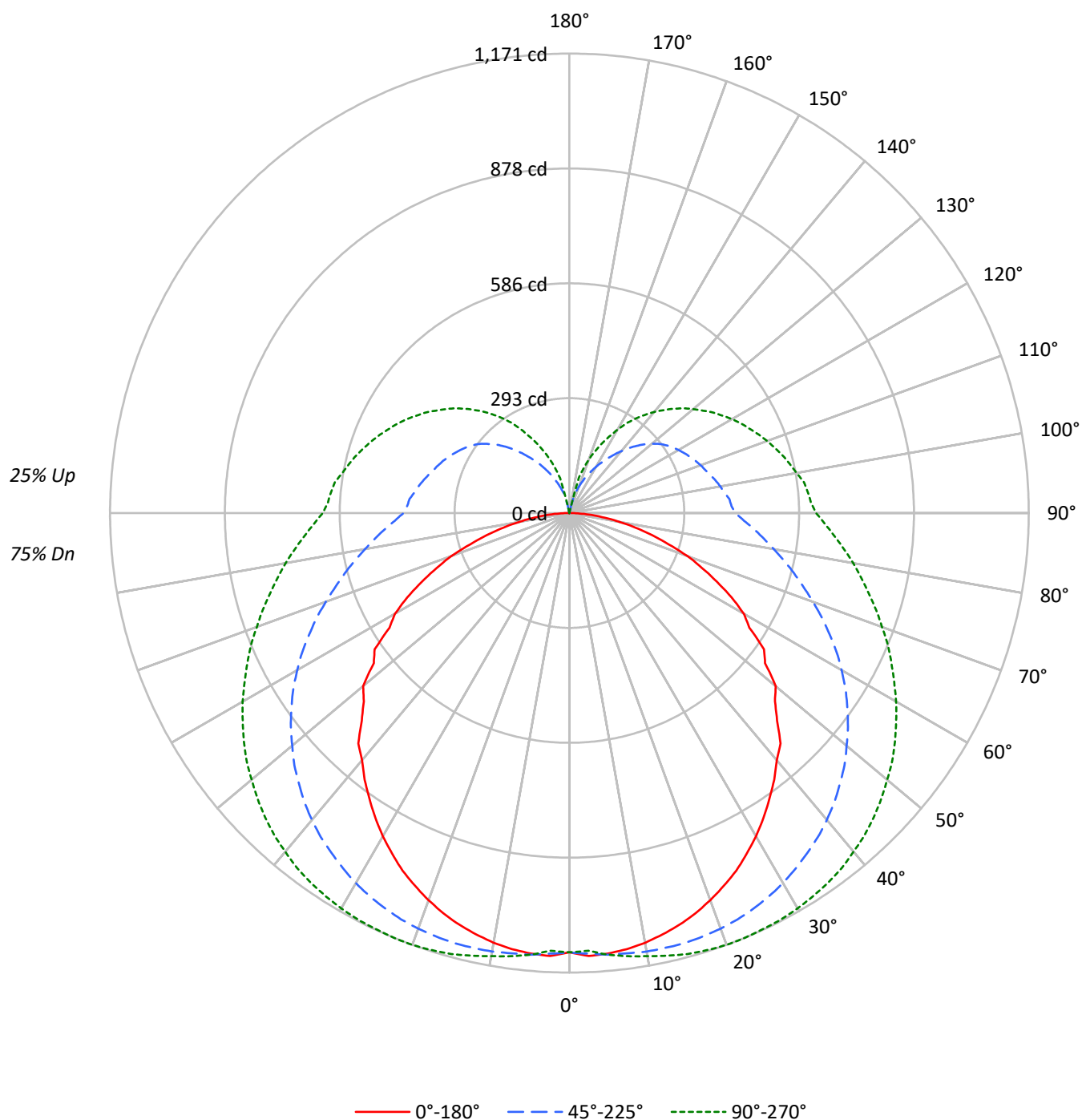
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9047	9047	9047
5°	9116	8940	8873
10°	9073	8862	8824
15°	9010	8814	8843
20°	8926	8773	8860
25°	8840	8741	8874
30°	8718	8714	8921
35°	8582	8683	8982
40°	8454	8677	9040
45°	8294	8657	9113
50°	8318	8638	9185
55°	8170	8638	9294
60°	7872	8643	9420
65°	7435	8655	9596
70°	6954	8718	9865
75°	6104	8921	10264
80°	5155	9349	10924
85°	3826	10221	11891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.7
10°-20°	318.9	4.9
20°-30°	506.8	7.9
30°-40°	650.5	10.1
40°-50°	734.5	11.4
50°-60°	749.5	11.6
60°-70°	694.4	10.8
70°-80°	587.9	9.1
80°-90°	469.2	7.3
90°-100°	398.5	6.2
100°-110°	355.0	5.5
110°-120°	302.4	4.7
120°-130°	240.1	3.7
130°-140°	170.4	2.6
140°-150°	101.7	1.6
150°-160°	47.4	0.7
160°-170°	11.3	0.2
170°-180°	0.0	0.0
0°-30°	933.3	14.5
0°-40°	1583.7	24.6
0°-60°	3067.8	47.6
0°-90°	4819.2	74.8
90°-120°	1055.9	16.4
90°-150°	1568.1	24.3
90°-180°	1627.0	25.2
0°-180°	6446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1127	1118	1130	1130	1130	107
15°	1086	1095	1135	1156	1163	306
25°	1006	1039	1112	1151	1169	463
35°	889	954	1057	1122	1150	557
45°	748	850	975	1060	1097	581
55°	606	708	865	971	1013	532
65°	415	553	732	857	906	412
75°	218	386	592	738	789	232
85°	56	248	472	625	678	61
90°	3	203	423	576	629	5
95°	0	191	409	559	610	0
105°	0	176	373	513	564	0
115°	0	164	339	462	507	0
125°	0	141	301	408	447	0
135°	0	105	242	344	376	0
145°	0	68	170	258	294	1
155°	2	42	105	157	195	1
165°	2	23	47	65	92	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°	1119.5	1119.5	1119.5	1119.5	1119.5
2.5°	1129.8	1117.9	1124.0	1122.4	1116.3
5°	1126.9	1117.9	1129.8	1129.8	1129.8
7.5°	1120.8	1114.6	1131.4	1137.5	1139.2
10°	1111.8	1111.8	1134.7	1143.7	1146.5
12.5°	1099.5	1104.0	1134.7	1148.2	1155.5
15°	1086.0	1095.0	1134.7	1155.5	1163.3
17.5°	1069.3	1084.4	1131.4	1157.2	1167.8
20°	1049.7	1072.5	1126.9	1157.2	1171.1
22.5°	1028.4	1057.4	1120.8	1154.3	1171.1
25°	1005.9	1039.0	1111.8	1151.0	1169.4
27.5°	978.5	1021.0	1101.2	1146.5	1167.8
30°	951.1	999.8	1088.9	1140.4	1163.3
32.5°	920.9	976.9	1073.8	1131.4	1157.2
35°	889.0	954.4	1057.4	1122.4	1149.8
37.5°	857.1	927.0	1040.7	1110.1	1140.4
40°	822.4	899.6	1021.0	1095.0	1126.9
42.5°	796.6	871.0	999.8	1079.9	1113.4
45°	748.4	849.8	975.3	1060.3	1096.7
47.5°	710.4	808.9	951.1	1040.7	1078.3
50°	686.3	775.4	922.5	1017.8	1057.4
52.5°	628.6	752.9	895.1	995.3	1037.4
55°	605.8	707.5	864.9	970.8	1013.3
57.5°	543.6	675.7	834.7	943.8	987.5
60°	513.4	631.5	801.1	916.4	961.8
62.5°	466.4	593.9	768.0	886.2	933.2
65°	414.9	553.0	731.7	857.1	905.8
67.5°	366.6	512.2	696.9	826.9	878.4
70°	319.6	469.6	660.5	796.6	848.1
72.5°	264.9	427.1	625.4	768.0	819.5
75°	218.3	386.3	592.3	737.8	789.3
77.5°	172.5	347.0	560.4	710.4	761.9
80°	130.4	309.0	528.5	681.8	734.5
82.5°	90.7	277.1	499.9	654.4	705.9
85°	56.0	248.5	472.5	625.4	678.5
87.5°	25.8	222.8	445.1	598.4	652.8
90°	2.9	203.1	422.6	575.5	628.6
92.5°	1.6	197.0	413.6	564.9	616.4
95°	0.0	190.9	409.2	558.8	610.3
97.5°	0.0	184.8	398.5	549.8	602.9
100°	0.0	181.9	390.8	536.3	587.8
102.5°	0.0	177.4	381.8	524.0	575.5
105°	0.0	175.8	372.8	513.4	563.7
107.5°	0.0	172.5	363.4	499.9	549.8
110°	0.0	169.6	356.0	487.6	536.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	166.8	348.2	475.8	522.4
115°	0.0	163.5	339.3	461.9	507.3
117.5°	0.0	159.0	330.3	448.4	493.8
120°	0.0	152.9	321.3	436.1	478.6
122.5°	0.0	146.7	311.9	421.0	461.9
125°	0.0	141.0	301.2	407.5	446.8
127.5°	0.0	131.6	289.4	392.4	428.8
130°	0.0	122.6	274.3	377.3	412.0
132.5°	1.6	113.6	259.1	360.5	395.3
135°	0.0	104.6	242.4	343.8	375.6
137.5°	0.0	96.9	224.0	325.8	356.0
140°	0.0	87.9	206.0	304.5	336.4
142.5°	0.0	77.3	188.0	281.6	315.1
145°	0.0	68.3	169.6	257.5	293.9
147.5°	1.6	60.5	152.9	231.8	271.0
150°	1.6	54.4	136.5	206.0	245.2
152.5°	1.6	48.6	119.8	181.9	219.5
155°	1.6	42.5	104.6	157.4	195.4
157.5°	1.6	36.4	87.9	133.3	169.6
160°	1.6	31.9	72.8	112.0	145.5
162.5°	1.6	27.4	59.3	87.9	119.8
165°	1.6	22.9	47.0	65.0	92.4
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)