

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: P#

Luminaire Tested: **4SNLED-LD5-70SL-SLW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)  
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: -

**Summary**

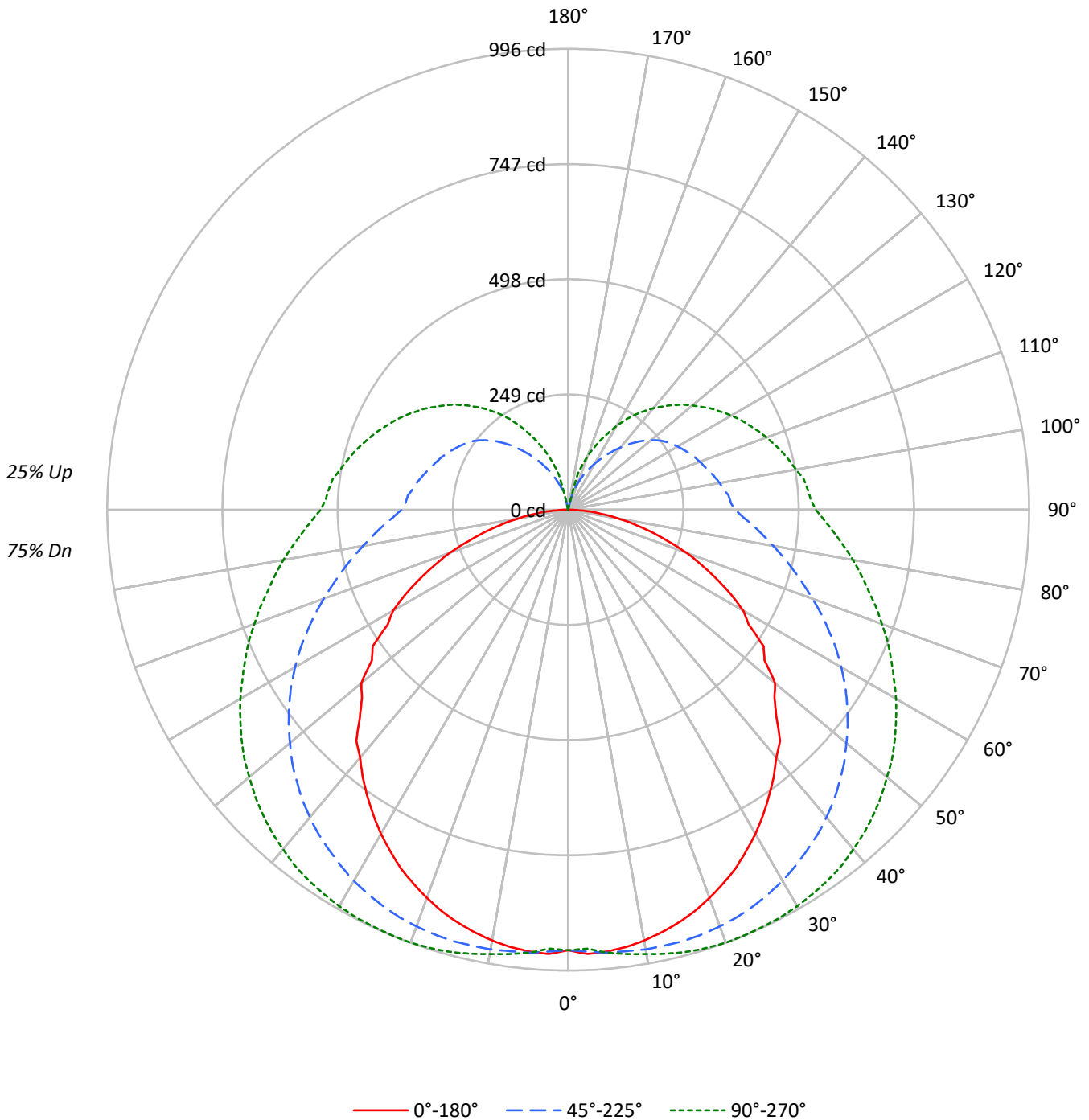
Lumens per Lamp: N/A  
Luminaire Lumens: 5482.0 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 70  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	7693	7693	7693
5°	7753	7604	7548
10°	7716	7535	7505
15°	7663	7494	7520
20°	7591	7461	7534
25°	7518	7434	7546
30°	7415	7412	7587
35°	7300	7384	7638
40°	7190	7378	7688
45°	7053	7364	7749
50°	7072	7346	7811
55°	6950	7347	7904
60°	6696	7352	8012
65°	6326	7359	8160
70°	5914	7413	8391
75°	5187	7586	8727
80°	4380	7954	9293
85°	3259	8693	10114



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.5	1.7
10°-20°	271.2	4.9
20°-30°	431.0	7.9
30°-40°	553.2	10.1
40°-50°	624.7	11.4
50°-60°	637.4	11.6
60°-70°	590.5	10.8
70°-80°	499.9	9.1
80°-90°	399.1	7.3
90°-100°	338.9	6.2
100°-110°	301.9	5.5
110°-120°	257.2	4.7
120°-130°	204.3	3.7
130°-140°	144.9	2.6
140°-150°	86.5	1.6
150°-160°	40.3	0.7
160°-170°	9.6	0.2
170°-180°	0.0	0.0
0°-30°	793.7	14.5
0°-40°	1346.9	24.6
0°-60°	2609.0	47.6
0°-90°	4098.5	74.8
90°-120°	897.9	16.4
90°-150°	1333.6	24.3
90°-180°	1383.0	25.2
0°-180°	5482.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	958	951	961	961	961	91
15°	924	931	965	983	989	261
25°	855	884	946	979	994	394
35°	756	812	899	954	978	473
45°	636	723	830	902	933	494
55°	515	602	736	826	862	452
65°	353	470	622	729	770	350
75°	186	328	504	627	671	198
85°	48	211	402	532	577	52
90°	3	173	359	490	535	4
95°	0	162	348	475	519	0
105°	0	149	317	437	479	0
115°	0	139	289	393	432	0
125°	0	120	256	346	380	0
135°	0	89	206	292	320	0
145°	0	58	144	219	250	1
155°	1	36	89	134	166	1
165°	1	19	40	55	79	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°	952.0	952.0	952.0	952.0	952.0
2.5°	961.0	950.7	955.8	954.5	949.4
5°	958.4	950.7	961.0	961.0	961.0
7.5°	953.3	948.1	962.3	967.4	968.7
10°	945.5	945.5	964.8	972.6	975.2
12.5°	935.2	939.1	964.8	976.4	982.9
15°	923.6	931.4	964.8	982.9	989.3
17.5°	909.5	922.3	962.3	984.2	993.2
20°	892.7	912.0	958.4	984.2	995.8
22.5°	874.7	899.2	953.3	981.6	995.8
25°	855.4	883.7	945.5	979.0	994.5
27.5°	832.2	868.2	936.5	975.2	993.2
30°	809.0	850.2	926.2	970.0	989.3
32.5°	783.2	830.9	913.3	962.3	984.2
35°	756.2	811.6	899.2	954.5	977.7
37.5°	729.1	788.4	885.0	944.2	970.0
40°	699.5	765.2	868.2	931.4	958.4
42.5°	677.6	740.7	850.2	918.5	946.8
45°	636.4	722.7	829.6	901.7	932.6
47.5°	604.2	687.9	809.0	885.0	917.2
50°	583.5	659.5	784.5	865.7	899.2
52.5°	534.6	640.2	761.3	846.3	882.4
55°	515.3	601.6	735.6	825.7	861.8
57.5°	462.5	574.5	709.8	802.5	839.9
60°	436.7	537.2	681.4	779.3	818.0
62.5°	396.8	505.0	653.1	753.6	793.5
65°	353.0	470.2	622.2	729.1	770.3
67.5°	311.7	435.4	592.6	703.3	747.1
70°	271.8	399.3	561.6	677.6	721.4
72.5°	225.4	363.3	532.0	653.1	696.9
75°	185.5	328.5	503.7	627.3	671.1
77.5°	146.9	295.0	476.6	604.2	648.0
80°	110.8	262.8	449.6	579.7	624.8
82.5°	77.3	235.7	425.1	556.5	600.3
85°	47.7	211.3	401.9	532.0	577.1
87.5°	21.9	189.4	378.7	508.8	555.2
90°	2.6	172.6	359.4	489.5	534.6
92.5°	1.3	167.5	351.7	480.5	524.3
95°	0.0	162.3	347.8	475.3	519.1
97.5°	0.0	157.2	338.8	467.6	512.7
100°	0.0	154.6	332.4	456.0	499.8
102.5°	0.0	150.7	324.6	445.7	489.5
105°	0.0	149.4	316.9	436.7	479.2
107.5°	0.0	146.9	309.2	425.1	467.6
110°	0.0	144.3	302.7	414.8	456.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	141.7	296.3	404.5	444.4
115°	0.0	139.1	288.6	392.9	431.5
117.5°	0.0	135.3	280.8	381.3	419.9
120°	0.0	130.1	273.1	371.0	407.1
122.5°	0.0	125.0	265.4	358.1	392.9
125°	0.0	119.8	256.3	346.5	380.0
127.5°	0.0	112.1	246.0	333.6	364.6
130°	0.0	104.3	233.2	320.8	350.4
132.5°	1.3	96.6	220.3	306.6	336.2
135°	0.0	88.9	206.1	292.4	319.5
137.5°	0.0	82.4	190.7	277.0	302.7
140°	0.0	74.7	175.2	258.9	286.0
142.5°	0.0	65.7	159.7	239.6	267.9
145°	0.0	58.0	144.3	219.0	249.9
147.5°	1.3	51.5	130.1	197.1	230.6
150°	1.3	46.4	115.9	175.2	208.7
152.5°	1.3	41.2	101.8	154.6	186.8
155°	1.3	36.1	88.9	134.0	166.2
157.5°	1.3	30.9	74.7	113.4	144.3
160°	1.3	27.1	61.8	95.3	123.7
162.5°	1.3	23.2	50.2	74.7	101.8
165°	1.3	19.3	39.9	55.4	78.6
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)