

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-L950-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-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

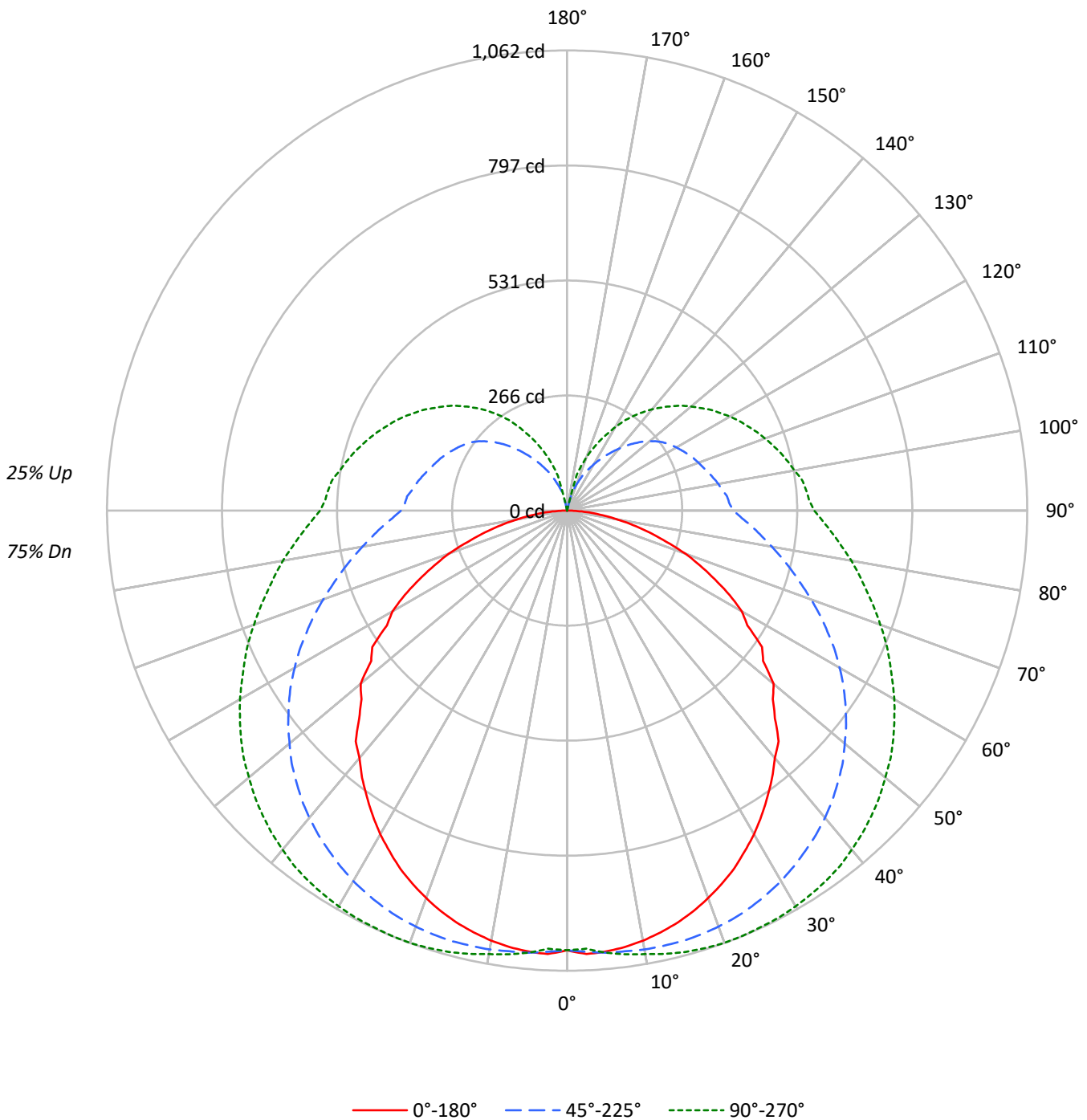
Lumens per Lamp: N/A  
Luminaire Lumens: 5844.0 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

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	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°	8201	8201	8201
5°	8265	8106	8046
10°	8226	8033	8000
15°	8169	7990	8017
20°	8092	7954	8031
25°	8013	7925	8044
30°	7905	7902	8089
35°	7782	7871	8142
40°	7665	7866	8196
45°	7518	7850	8261
50°	7540	7831	8326
55°	7408	7831	8426
60°	7137	7837	8541
65°	6743	7846	8699
70°	6306	7903	8945
75°	5528	8086	9305
80°	4669	8479	9906
85°	3471	9269	10782



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.5	1.7
10°-20°	289.1	4.9
20°-30°	459.5	7.9
30°-40°	589.7	10.1
40°-50°	665.9	11.4
50°-60°	679.5	11.6
60°-70°	629.5	10.8
70°-80°	533.0	9.1
80°-90°	425.4	7.3
90°-100°	361.2	6.2
100°-110°	321.8	5.5
110°-120°	274.1	4.7
120°-130°	217.7	3.7
130°-140°	154.4	2.6
140°-150°	92.2	1.6
150°-160°	43.0	0.7
160°-170°	10.2	0.2
170°-180°	0.0	0.0
0°-30°	846.1	14.5
0°-40°	1435.9	24.6
0°-60°	2781.3	47.6
0°-90°	4369.2	74.8
90°-120°	957.2	16.4
90°-150°	1421.6	24.3
90°-180°	1475.0	25.2
0°-180°	5844.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1022	1014	1024	1024	1024	97
15°	985	993	1029	1048	1055	278
25°	912	942	1008	1044	1060	420
35°	806	865	958	1018	1042	505
45°	678	770	884	961	994	527
55°	549	641	784	880	919	482
65°	376	501	663	777	821	373
75°	198	350	537	669	716	211
85°	51	225	428	567	615	55
90°	3	184	383	522	570	4
95°	0	173	371	507	553	0
105°	0	159	338	466	511	0
115°	0	148	308	419	460	0
125°	0	128	273	369	405	0
135°	0	95	220	312	341	0
145°	0	62	154	234	266	1
155°	1	38	95	143	177	1
165°	1	21	43	59	84	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°	1014.8	1014.8	1014.8	1014.8	1014.8
2.5°	1024.4	1013.5	1018.9	1017.6	1012.1
5°	1021.7	1013.5	1024.4	1024.4	1024.4
7.5°	1016.2	1010.7	1025.8	1031.3	1032.7
10°	1008.0	1008.0	1028.6	1036.8	1039.5
12.5°	997.0	1001.1	1028.6	1040.9	1047.8
15°	984.6	992.9	1028.6	1047.8	1054.7
17.5°	969.5	983.2	1025.8	1049.2	1058.8
20°	951.7	972.3	1021.7	1049.2	1061.5
22.5°	932.4	958.5	1016.2	1046.4	1061.5
25°	911.8	942.0	1008.0	1043.7	1060.1
27.5°	887.1	925.6	998.3	1039.5	1058.8
30°	862.4	906.3	987.4	1034.1	1054.7
32.5°	834.9	885.7	973.6	1025.8	1049.2
35°	806.1	865.1	958.5	1017.6	1042.3
37.5°	777.3	840.4	943.4	1006.6	1034.1
40°	745.7	815.7	925.6	992.9	1021.7
42.5°	722.3	789.6	906.3	979.1	1009.3
45°	678.4	770.4	884.4	961.3	994.2
47.5°	644.1	733.3	862.4	943.4	977.8
50°	622.1	703.1	836.3	922.8	958.5
52.5°	569.9	682.5	811.6	902.2	940.7
55°	549.3	641.3	784.1	880.2	918.7
57.5°	493.0	612.5	756.7	855.5	895.4
60°	465.5	572.6	726.4	830.8	872.0
62.5°	423.0	538.3	696.2	803.3	845.9
65°	376.3	501.2	663.3	777.3	821.2
67.5°	332.3	464.2	631.7	749.8	796.5
70°	289.8	425.7	598.7	722.3	769.0
72.5°	240.3	387.3	567.2	696.2	742.9
75°	197.7	350.2	536.9	668.8	715.5
77.5°	156.5	314.5	508.1	644.1	690.7
80°	118.1	280.1	479.3	618.0	666.0
82.5°	82.4	251.3	453.2	593.2	639.9
85°	50.8	225.2	428.5	567.2	615.2
87.5°	23.3	201.9	403.7	542.4	591.9
90°	2.7	184.0	383.1	521.8	569.9
92.5°	1.4	178.5	374.9	512.2	558.9
95°	0.0	173.0	370.8	506.7	553.4
97.5°	0.0	167.5	361.2	498.5	546.6
100°	0.0	164.8	354.3	486.1	532.8
102.5°	0.0	160.7	346.1	475.1	521.8
105°	0.0	159.3	337.8	465.5	510.8
107.5°	0.0	156.5	329.6	453.2	498.5
110°	0.0	153.8	322.7	442.2	486.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	151.1	315.8	431.2	473.8
115°	0.0	148.3	307.6	418.8	460.0
117.5°	0.0	144.2	299.4	406.5	447.7
120°	0.0	138.7	291.1	395.5	433.9
122.5°	0.0	133.2	282.9	381.8	418.8
125°	0.0	127.7	273.3	369.4	405.1
127.5°	0.0	119.5	262.3	355.7	388.6
130°	0.0	111.2	248.6	341.9	373.5
132.5°	1.4	103.0	234.8	326.8	358.4
135°	0.0	94.8	219.7	311.7	340.6
137.5°	0.0	87.9	203.2	295.2	322.7
140°	0.0	79.6	186.8	276.0	304.9
142.5°	0.0	70.0	170.3	255.4	285.6
145°	0.0	61.8	153.8	233.5	266.4
147.5°	1.4	54.9	138.7	210.1	245.8
150°	1.4	49.4	123.6	186.8	222.5
152.5°	1.4	43.9	108.5	164.8	199.1
155°	1.4	38.5	94.8	142.8	177.1
157.5°	1.4	33.0	79.6	120.8	153.8
160°	1.4	28.8	65.9	101.6	131.8
162.5°	1.4	24.7	53.6	79.6	108.5
165°	1.4	20.6	42.6	59.0	83.8
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)