

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-LD5-73SL-SLC-UNV-L830-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 (P27404)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-73SL-SLC-UNV-L830-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

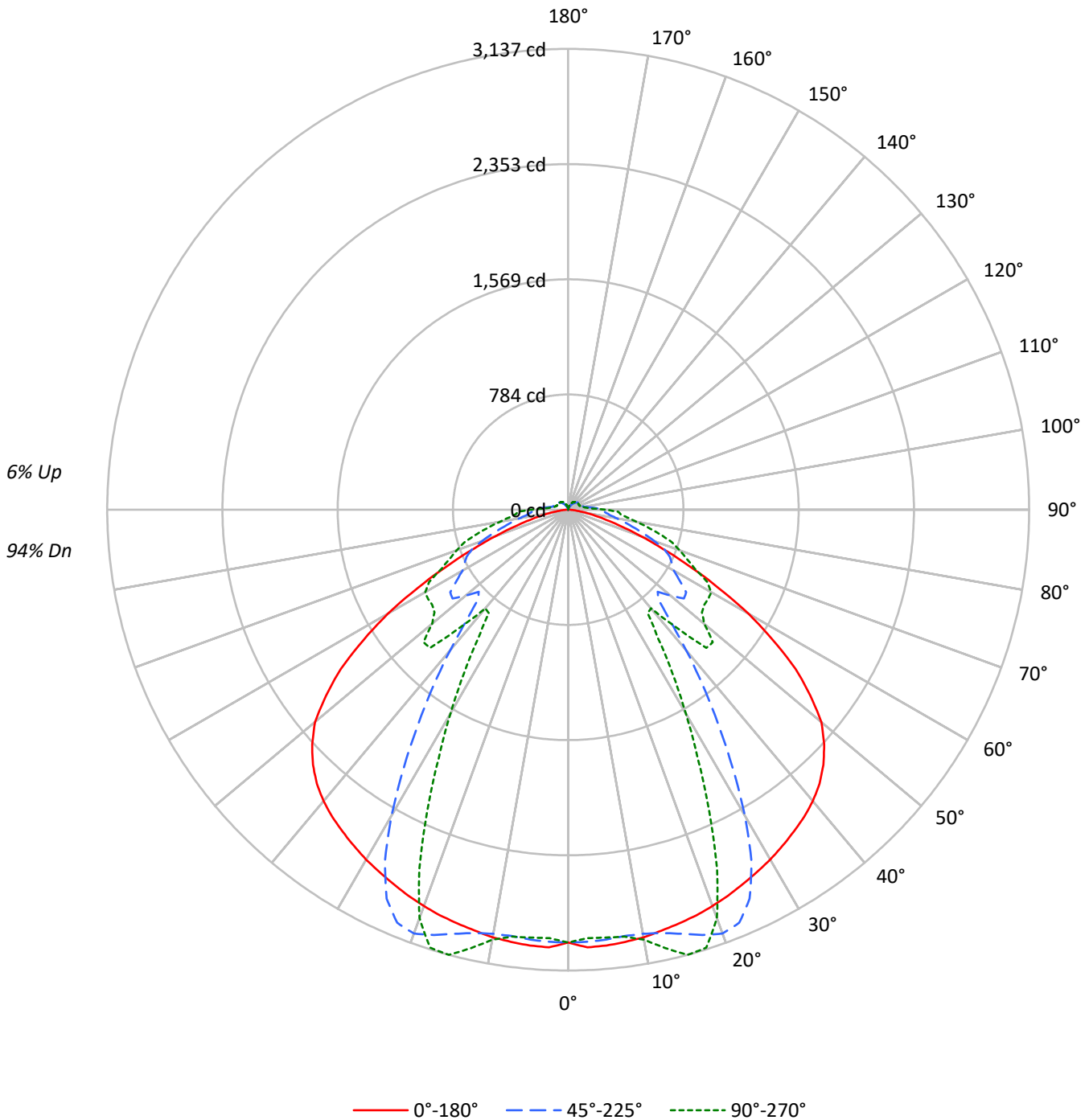
Lumens per Lamp: N/A  
Luminaire Lumens: 7566.0 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	23802	23802	23802
5°	24091	23244	22959
10°	24121	22890	22879
15°	24188	23213	23846
20°	24413	23904	22383
25°	24716	22973	17235
30°	25204	19241	12259
35°	25829	14572	8301
40°	26618	10594	7029
45°	27222	7684	11050
50°	27260	8509	10488
55°	25481	9793	10356
60°	21710	8960	11008
65°	16333	9037	10069
70°	11463	8226	9373
75°	7510	6892	8410
80°	4795	5905	7001
85°	2582	5613	6285



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.2	3.7
10°-20°	846.2	11.2
20°-30°	1229.3	16.2
30°-40°	1174.5	15.5
40°-50°	1074.4	14.2
50°-60°	992.0	13.1
60°-70°	788.0	10.4
70°-80°	486.3	6.4
80°-90°	264.8	3.5
90°-100°	133.9	1.8
100°-110°	84.1	1.1
110°-120°	71.2	0.9
120°-130°	58.2	0.8
130°-140°	41.7	0.6
140°-150°	25.7	0.3
150°-160°	12.2	0.2
160°-170°	3.2	0.0
170°-180°	0.0	0.0
0°-30°	2355.7	31.1
0°-40°	3530.2	46.7
0°-60°	5596.6	74.0
0°-90°	7135.7	94.3
90°-120°	289.2	3.8
90°-150°	414.9	5.5
90°-180°	430.0	5.7
0°-180°	7566.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2945	2945	2945	2945	2945	
5°	2978	2932	2938	2922	2923	283
15°	2915	2876	2988	3099	3137	825
25°	2812	2867	2922	2473	2271	1300
35°	2676	2632	1774	1222	1063	1678
45°	2456	1713	866	1104	1330	1888
55°	1889	879	980	1055	1129	1664
65°	911	570	764	928	950	922
75°	269	304	458	606	647	304
85°	38	129	260	353	359	48
90°	1	96	232	275	254	2
95°	0	90	160	142	134	0
105°	0	81	99	90	89	0
115°	0	66	95	85	81	1
125°	1	54	85	82	78	1
135°	1	38	68	74	72	1
145°	1	24	47	60	64	1
155°	3	14	29	38	46	1
165°	3	8	14	18	25	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2945.4	2945.4	2945.4	2945.4	2945.4
2.5°	2981.9	2938.9	2944.1	2934.9	2919.3
5°	2978.0	2932.3	2937.5	2921.9	2923.2
7.5°	2967.5	2920.6	2927.1	2924.5	2931.0
10°	2955.8	2906.3	2931.0	2953.2	2972.8
12.5°	2934.9	2890.6	2950.6	3015.8	3056.2
15°	2915.4	2876.3	2988.4	3099.2	3137.0
17.5°	2895.8	2871.1	3035.3	3131.8	3126.6
20°	2871.1	2868.4	3070.5	3037.9	2958.4
22.5°	2843.7	2869.7	3043.2	2804.6	2648.1
25°	2812.4	2867.1	2921.9	2473.4	2271.3
27.5°	2781.1	2855.4	2701.6	2110.9	1911.4
30°	2749.8	2824.1	2404.3	1779.7	1598.5
32.5°	2713.3	2756.3	2080.9	1486.4	1319.5
35°	2675.5	2632.5	1774.5	1221.7	1062.6
37.5°	2636.4	2453.8	1499.4	989.6	887.9
40°	2589.4	2229.6	1246.5	848.8	876.2
42.5°	2530.8	1976.6	1023.5	890.5	1080.9
45°	2456.4	1713.2	865.7	1104.4	1329.9
47.5°	2362.6	1460.3	826.6	1264.7	1335.1
50°	2249.1	1228.2	908.8	1212.6	1207.4
52.5°	2077.0	1035.2	992.2	1105.7	1147.4
55°	1889.3	878.8	980.5	1054.8	1129.1
57.5°	1652.0	773.2	899.6	1044.4	1130.4
60°	1416.0	702.8	830.5	1043.1	1123.9
62.5°	1155.2	638.9	795.3	1018.3	1066.5
65°	911.4	569.8	764.0	928.3	950.5
67.5°	698.9	499.4	709.3	827.9	872.3
70°	526.8	430.3	623.2	751.0	805.8
72.5°	379.4	365.1	534.6	683.2	740.6
75°	268.6	303.8	457.6	606.3	646.7
77.5°	185.1	247.7	392.5	521.5	554.1
80°	121.3	198.2	333.8	448.5	470.7
82.5°	73.0	159.1	289.5	392.5	404.2
85°	37.8	129.1	259.5	353.3	358.6
87.5°	11.7	108.2	242.5	335.1	341.6
90°	1.3	96.5	232.1	275.1	254.2
92.5°	0.0	91.3	200.8	187.8	168.2
95°	0.0	90.0	160.4	142.1	134.3
97.5°	0.0	87.4	131.7	118.6	114.7
100°	0.0	84.7	113.4	104.3	103.0
102.5°	0.0	83.4	103.0	95.2	93.9
105°	0.0	80.8	99.1	90.0	88.7
107.5°	0.0	76.9	96.5	87.4	84.7
110°	0.0	73.0	96.5	86.1	82.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	69.1	96.5	84.7	80.8
115°	0.0	66.5	95.2	84.7	80.8
117.5°	1.3	63.9	93.9	84.7	80.8
120°	0.0	61.3	91.3	84.7	79.5
122.5°	1.3	57.4	88.7	83.4	79.5
125°	1.3	53.5	84.7	82.1	78.2
127.5°	1.3	49.5	80.8	79.5	75.6
130°	1.3	45.6	76.9	78.2	74.3
132.5°	1.3	41.7	71.7	75.6	73.0
135°	1.3	37.8	67.8	74.3	71.7
137.5°	1.3	33.9	62.6	70.4	70.4
140°	1.3	30.0	57.4	67.8	69.1
142.5°	1.3	27.4	52.2	65.2	66.5
145°	1.3	23.5	46.9	60.0	63.9
147.5°	1.3	20.9	41.7	54.8	60.0
150°	1.3	18.3	36.5	49.5	54.8
152.5°	1.3	15.6	32.6	43.0	50.8
155°	2.6	14.3	28.7	37.8	45.6
157.5°	2.6	11.7	23.5	32.6	39.1
160°	2.6	10.4	20.9	27.4	35.2
162.5°	2.6	9.1	16.9	23.5	30.0
165°	2.6	7.8	14.3	18.3	24.8
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)