

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-LD5-22SL-SLN-UNV-L840-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 (P27402)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-22SL-SLN-UNV-L840-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

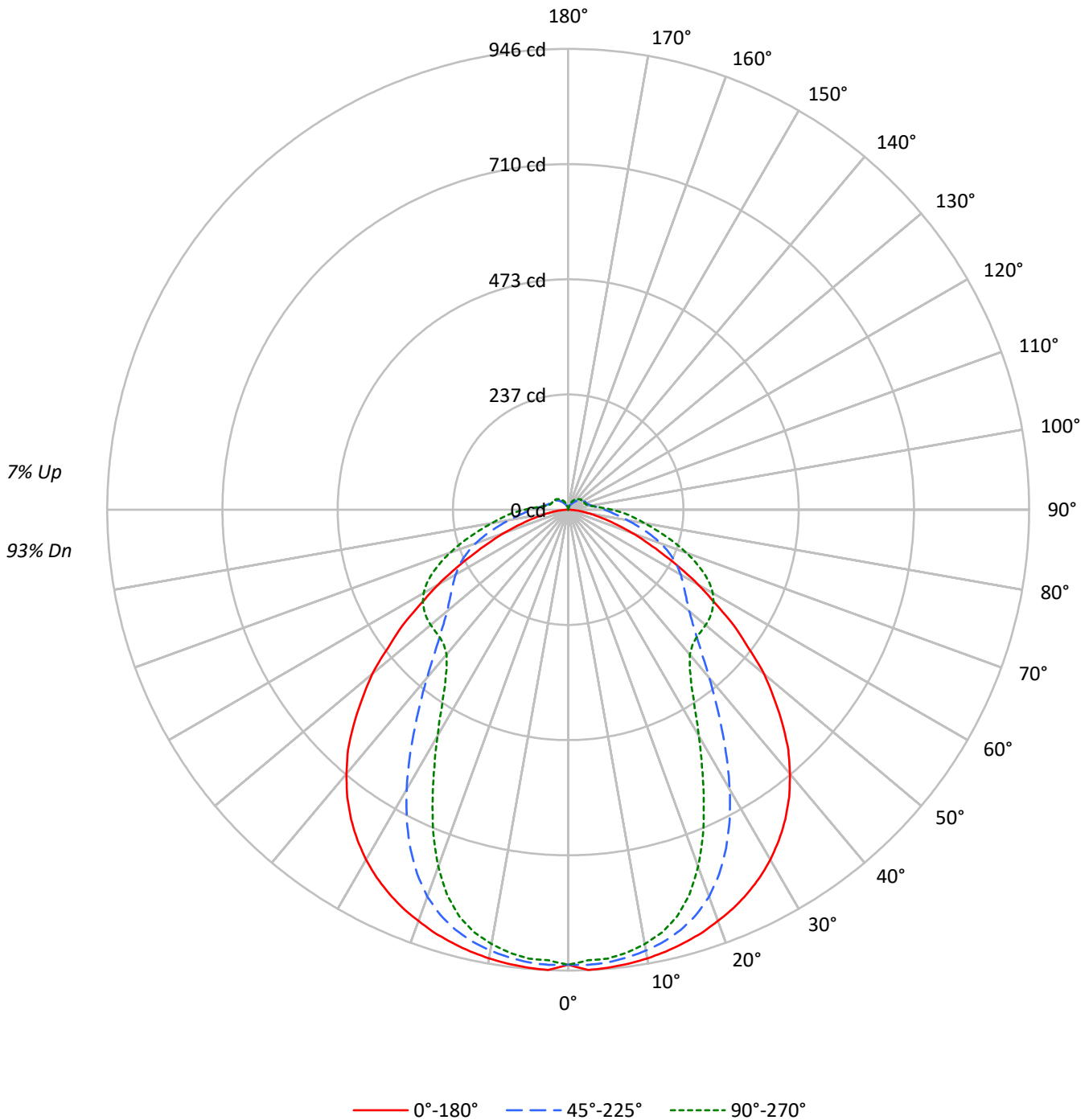
Lumens per Lamp: N/A  
Luminaire Lumens: 2349.0 lumens  
Efficiency: N/A  
Efficacy: 146.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 16  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

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

	0°	45°	90°
0°	7548	7548	7548
5°	7635	7381	7266
10°	7633	7177	6967
15°	7635	6937	6569
20°	7638	6580	5900
25°	7641	6029	4996
30°	7605	5305	4109
35°	7497	4513	3443
40°	7278	3823	3113
45°	6892	3322	3089
50°	6367	3037	3198
55°	5607	2919	3310
60°	4730	2877	3355
65°	3804	2814	3251
70°	3057	2669	2999
75°	2304	2414	2661
80°	1700	2169	2366
85°	1134	2046	2177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.4	3.8
10°-20°	249.8	10.6
20°-30°	349.2	14.9
30°-40°	362.2	15.4
40°-50°	334.6	14.2
50°-60°	298.7	12.7
60°-70°	242.1	10.3
70°-80°	161.0	6.9
80°-90°	92.2	3.9
90°-100°	51.0	2.2
100°-110°	34.6	1.5
110°-120°	28.8	1.2
120°-130°	23.4	1.0
130°-140°	16.9	0.7
140°-150°	10.2	0.4
150°-160°	4.9	0.2
160°-170°	1.3	0.1
170°-180°	0.0	0.0
0°-30°	687.3	29.3
0°-40°	1049.5	44.7
0°-60°	1682.8	71.6
0°-90°	2178.1	92.7
90°-120°	114.3	4.9
90°-150°	164.7	7.0
90°-180°	171.0	7.3
0°-180°	2349.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	944	928	933	926	925	90
15°	920	901	893	873	864	260
25°	870	831	767	686	658	401
35°	777	691	550	462	441	485
45°	622	493	374	361	372	478
55°	416	314	292	340	361	370
65°	212	190	238	292	307	215
75°	82	103	160	196	205	90
85°	17	48	95	121	124	19
90°	1	34	75	90	89	1
95°	1	28	59	63	61	1
105°	0	25	43	41	39	0
115°	0	22	38	37	36	0
125°	0	19	33	35	34	0
135°	1	14	26	31	31	1
145°	1	9	18	24	26	1
155°	1	6	11	15	18	0
165°	1	3	6	7	10	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°	934.1	934.1	934.1	934.1	934.1
2.5°	945.8	930.4	935.3	931.2	925.9
5°	943.8	928.0	932.8	926.3	925.1
7.5°	940.1	924.3	927.2	919.4	917.4
10°	935.3	918.6	919.0	908.1	905.2
12.5°	928.8	910.5	908.1	893.1	889.0
15°	920.3	900.8	893.1	872.8	864.2
17.5°	910.9	888.2	872.4	841.1	827.7
20°	898.3	872.8	845.2	797.7	779.8
22.5°	885.8	854.1	809.8	746.5	722.6
25°	869.5	830.9	766.8	686.4	658.4
27.5°	851.2	803.8	717.3	624.7	594.7
30°	829.7	770.9	662.9	564.2	535.8
32.5°	804.6	733.9	605.7	509.9	483.5
35°	776.6	691.3	549.6	461.5	440.8
37.5°	744.5	644.6	497.7	422.6	409.2
40°	708.0	593.9	449.8	392.5	388.1
42.5°	668.6	544.4	408.8	373.1	377.1
45°	621.9	492.8	374.3	360.9	371.8
47.5°	572.8	442.5	346.3	354.0	369.8
50°	525.3	395.8	324.3	349.5	368.2
52.5°	466.4	354.0	306.9	345.5	365.7
55°	415.7	314.2	292.3	339.8	360.9
57.5°	357.2	278.5	279.3	332.5	353.6
60°	308.5	246.0	266.7	322.3	342.6
62.5°	259.0	216.8	252.9	308.9	327.2
65°	212.3	190.0	237.9	291.5	306.9
67.5°	173.3	165.6	220.8	270.4	283.3
70°	140.5	143.3	202.2	246.8	257.8
72.5°	108.0	122.6	181.9	221.6	231.0
75°	82.4	103.1	160.3	196.5	204.6
77.5°	60.9	86.1	140.9	173.7	180.6
80°	43.0	71.0	122.6	153.8	159.1
82.5°	28.8	58.5	107.6	136.0	140.9
85°	16.6	47.9	94.6	121.0	124.2
87.5°	6.9	39.8	84.0	105.5	107.2
90°	0.8	33.7	74.7	90.1	89.3
92.5°	0.8	30.4	66.6	75.5	73.5
95°	0.8	28.4	59.3	63.3	61.3
97.5°	0.8	27.2	52.8	54.4	52.4
100°	0.4	26.4	48.3	48.3	46.3
102.5°	0.4	25.6	45.1	43.8	42.2
105°	0.4	24.8	42.6	41.4	39.4
107.5°	0.4	24.4	41.0	39.8	37.8
110°	0.4	23.5	39.8	38.6	36.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	23.1	39.0	38.2	36.1
115°	0.4	22.3	37.8	37.3	36.1
117.5°	0.4	21.5	36.9	36.9	35.7
120°	0.4	20.7	35.7	36.5	35.3
122.5°	0.4	19.9	34.5	35.7	34.5
125°	0.4	19.1	33.3	34.9	34.1
127.5°	0.8	17.9	31.7	34.1	33.3
130°	0.4	16.6	30.0	33.3	32.9
132.5°	0.8	15.4	28.4	32.1	32.1
135°	0.8	14.2	26.4	30.9	30.9
137.5°	0.8	12.6	24.4	29.2	29.6
140°	0.8	11.4	22.3	27.6	28.4
142.5°	0.8	10.1	20.3	26.0	27.2
145°	0.8	8.9	18.3	24.0	25.6
147.5°	0.8	8.1	16.2	21.5	24.0
150°	0.8	6.9	14.6	19.5	21.9
152.5°	0.8	6.1	13.0	17.5	20.3
155°	0.8	5.7	11.4	15.0	18.3
157.5°	0.8	4.9	9.7	13.0	16.2
160°	0.8	4.1	8.1	11.4	13.8
162.5°	0.8	3.7	6.9	9.3	12.2
165°	0.8	3.2	5.7	7.3	9.7
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)