

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-LD5-23SL-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-LD5-23SL-SLW-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

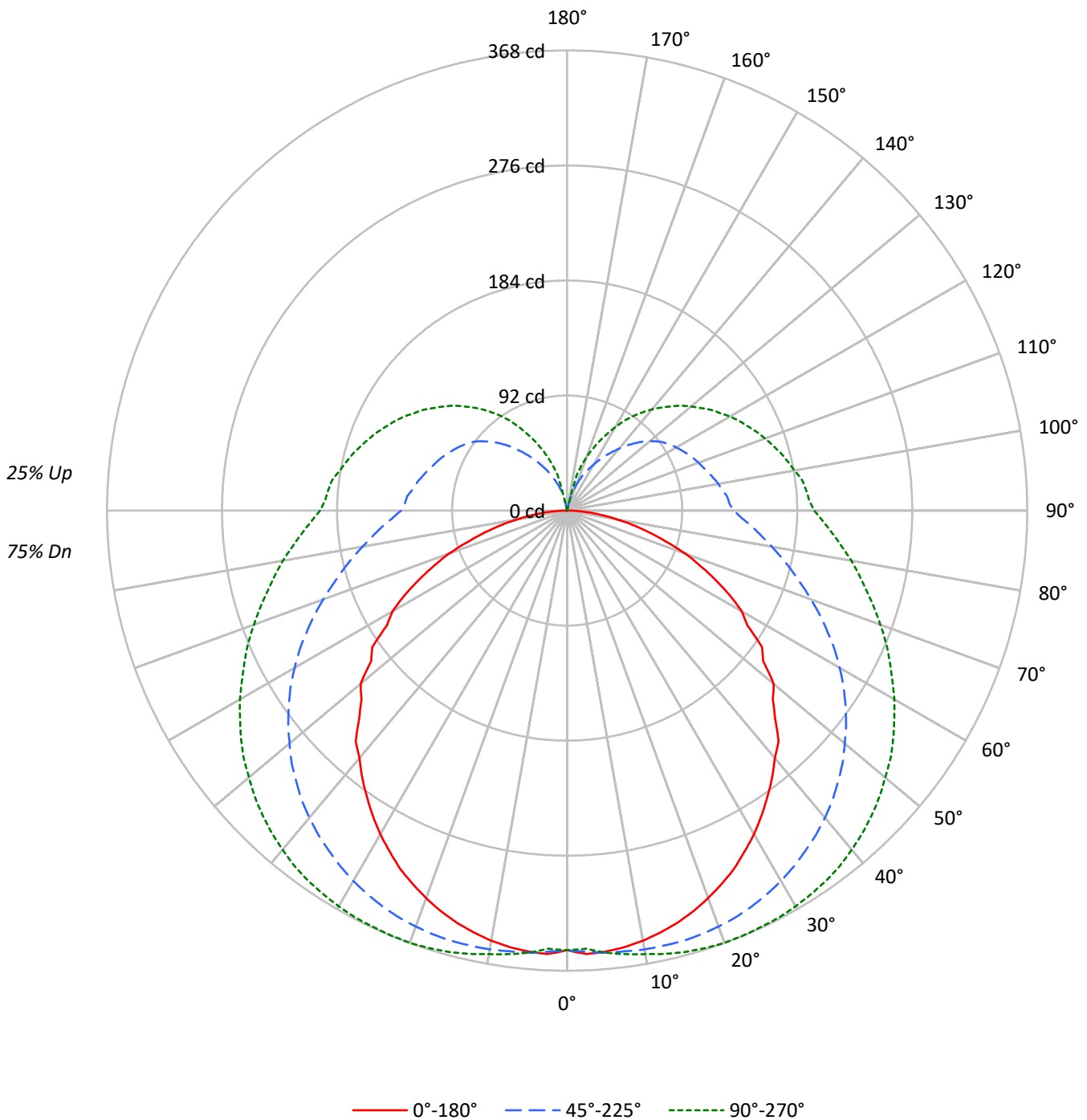
Lumens per Lamp: N/A  
Luminaire Lumens: 2025.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 18  
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°	2841	2841	2841
5°	2864	2809	2788
10°	2851	2783	2772
15°	2831	2768	2778
20°	2804	2756	2783
25°	2777	2746	2787
30°	2739	2738	2802
35°	2696	2727	2822
40°	2656	2726	2840
45°	2605	2720	2863
50°	2613	2714	2885
55°	2567	2714	2919
60°	2473	2716	2960
65°	2337	2718	3015
70°	2185	2739	3100
75°	1915	2803	3224
80°	1617	2938	3433
85°	1202	3212	3736



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.8	1.7
10°-20°	100.2	4.9
20°-30°	159.2	7.9
30°-40°	204.3	10.1
40°-50°	230.8	11.4
50°-60°	235.4	11.6
60°-70°	218.1	10.8
70°-80°	184.7	9.1
80°-90°	147.4	7.3
90°-100°	125.2	6.2
100°-110°	111.5	5.5
110°-120°	95.0	4.7
120°-130°	75.5	3.7
130°-140°	53.5	2.6
140°-150°	32.0	1.6
150°-160°	14.9	0.7
160°-170°	3.5	0.2
170°-180°	0.0	0.0
0°-30°	293.2	14.5
0°-40°	497.5	24.6
0°-60°	963.7	47.6
0°-90°	1514.0	74.8
90°-120°	331.7	16.4
90°-150°	492.6	24.3
90°-180°	511.0	25.2
0°-180°	2025.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	352	352	352	352	352	
5°	354	351	355	355	355	34
15°	341	344	356	363	365	96
25°	316	326	349	362	367	145
35°	279	300	332	353	361	175
45°	235	267	306	333	344	183
55°	190	222	272	305	318	167
65°	130	174	230	269	285	129
75°	68	121	186	232	248	73
85°	18	78	148	196	213	19
90°	1	64	133	181	198	1
95°	0	60	128	176	192	0
105°	0	55	117	161	177	0
115°	0	51	107	145	159	0
125°	0	44	95	128	140	0
135°	0	33	76	108	118	0
145°	0	21	53	81	92	0
155°	0	13	33	50	61	0
165°	0	7	15	20	29	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°	351.6	351.6	351.6	351.6	351.6
2.5°	355.0	351.2	353.1	352.6	350.7
5°	354.0	351.2	355.0	355.0	355.0
7.5°	352.1	350.2	355.5	357.4	357.8
10°	349.3	349.3	356.4	359.3	360.2
12.5°	345.5	346.9	356.4	360.7	363.1
15°	341.2	344.0	356.4	363.1	365.4
17.5°	335.9	340.7	355.5	363.5	366.9
20°	329.8	336.9	354.0	363.5	367.8
22.5°	323.1	332.1	352.1	362.6	367.8
25°	316.0	326.4	349.3	361.6	367.3
27.5°	307.4	320.7	345.9	360.2	366.9
30°	298.8	314.1	342.1	358.3	365.4
32.5°	289.3	306.9	337.4	355.5	363.5
35°	279.3	299.8	332.1	352.6	361.2
37.5°	269.3	291.2	326.9	348.8	358.3
40°	258.4	282.7	320.7	344.0	354.0
42.5°	250.3	273.6	314.1	339.3	349.7
45°	235.1	266.9	306.4	333.1	344.5
47.5°	223.2	254.1	298.8	326.9	338.8
50°	215.6	243.6	289.8	319.8	332.1
52.5°	197.5	236.5	281.2	312.6	326.0
55°	190.3	222.2	271.7	305.0	318.3
57.5°	170.8	212.2	262.2	296.4	310.2
60°	161.3	198.4	251.7	287.9	302.2
62.5°	146.6	186.5	241.3	278.4	293.1
65°	130.4	173.7	229.8	269.3	284.6
67.5°	115.2	160.8	218.9	259.8	276.0
70°	100.4	147.5	207.5	250.3	266.5
72.5°	83.3	134.2	196.5	241.3	257.4
75°	68.5	121.3	186.1	231.7	247.9
77.5°	54.2	109.0	176.1	223.2	239.3
80°	40.9	97.1	166.1	214.1	230.8
82.5°	28.6	87.1	157.0	205.6	221.7
85°	17.6	78.0	148.5	196.5	213.2
87.5°	8.1	69.9	139.9	188.0	205.1
90°	1.0	63.8	132.8	180.8	197.5
92.5°	0.5	61.9	129.9	177.5	193.7
95°	0.0	60.0	128.5	175.6	191.8
97.5°	0.0	58.1	125.1	172.7	189.4
100°	0.0	57.1	122.8	168.4	184.6
102.5°	0.0	55.7	119.9	164.6	180.8
105°	0.0	55.2	117.1	161.3	177.0
107.5°	0.0	54.2	114.2	157.0	172.7
110°	0.0	53.3	111.8	153.2	168.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	52.3	109.4	149.4	164.2
115°	0.0	51.4	106.6	145.1	159.4
117.5°	0.0	50.0	103.7	140.8	155.1
120°	0.0	48.1	100.9	137.0	150.4
122.5°	0.0	46.2	98.0	132.3	145.1
125°	0.0	44.3	94.7	128.0	140.4
127.5°	0.0	41.4	90.9	123.2	134.7
130°	0.0	38.5	86.1	118.5	129.4
132.5°	0.5	35.7	81.4	113.3	124.2
135°	0.0	32.8	76.1	108.0	118.0
137.5°	0.0	30.5	70.4	102.3	111.8
140°	0.0	27.6	64.7	95.6	105.6
142.5°	0.0	24.3	59.0	88.5	99.0
145°	0.0	21.4	53.3	80.9	92.3
147.5°	0.5	19.0	48.1	72.8	85.2
150°	0.5	17.1	42.8	64.7	77.1
152.5°	0.5	15.2	37.6	57.1	69.0
155°	0.5	13.3	32.8	49.5	61.4
157.5°	0.5	11.4	27.6	41.9	53.3
160°	0.5	10.0	22.8	35.2	45.7
162.5°	0.5	8.6	18.6	27.6	37.6
165°	0.5	7.1	14.8	20.5	29.0
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)