

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: P33567

Luminaire Tested: **2SLWP2040ND-120V**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P33567
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SLWP2040ND-120V
Description: METALUX 2' LINEAR LED WRAPAROUND, 120V
Light Source: (66) 4000K LEDS
62-217D
Ballast/Driver: (1) NON-DIM ELECTRONIC DRIVER
SX-AD02500110-0360

Summary

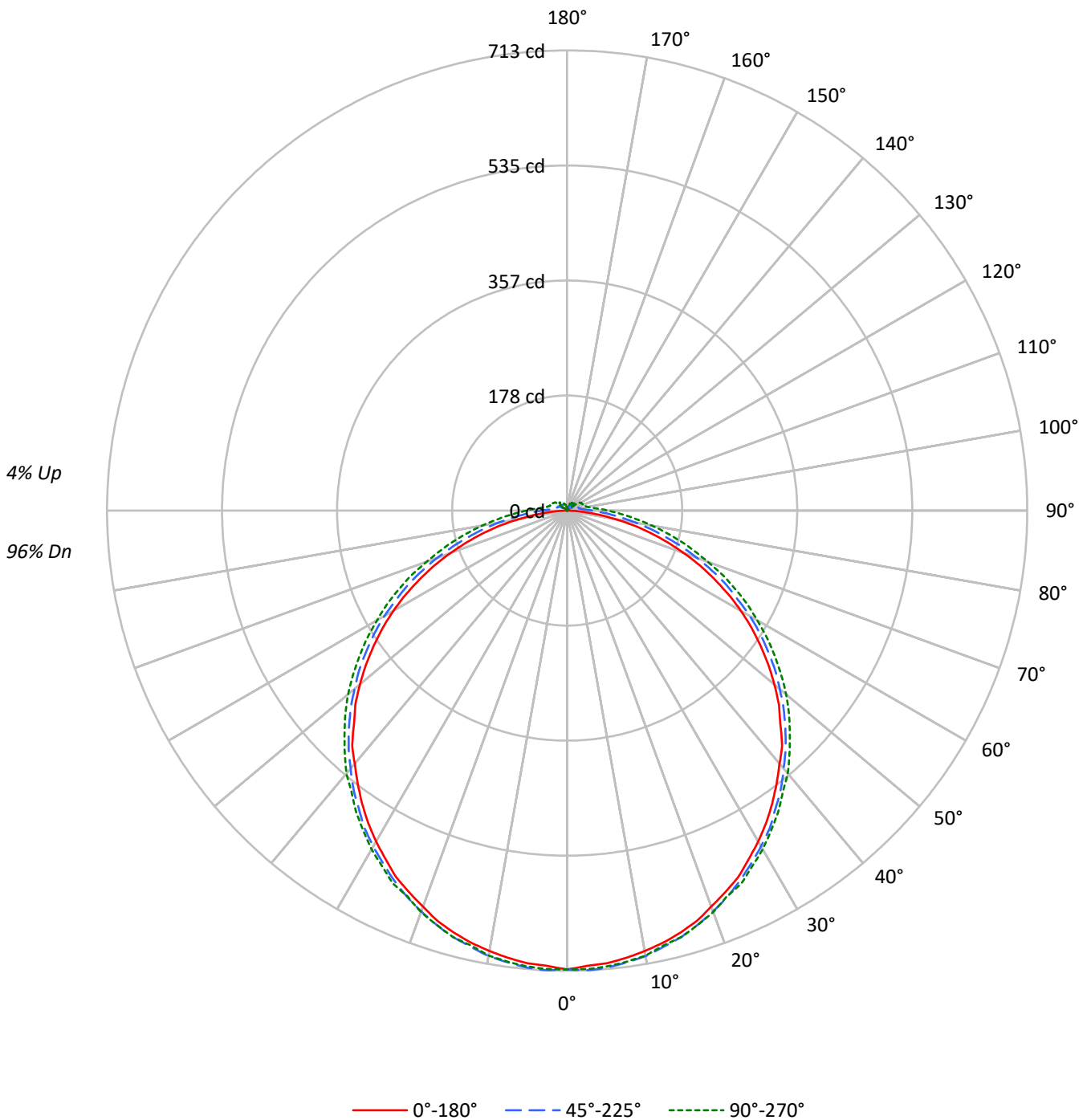
Lumens per Lamp: N/A
Luminaire Lumens: 2206.9 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.5' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22.8
Input Voltage (V): 120.00
Input Current (Ain): 0.1917
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 8.13%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 7 HR
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	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	85	83	81	79
2	97	88	81	75	94	86	80	74	82	76	72	78	74	70	74	71	67	65
3	88	77	69	62	85	75	68	61	72	65	60	69	63	58	66	61	57	54
4	81	68	59	53	78	67	58	52	64	57	51	61	55	50	58	53	49	46
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	52	47	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	43	38	47	42	37	35
7	63	50	41	35	61	49	40	34	47	39	34	45	38	33	43	37	33	31
8	59	45	37	31	57	44	36	31	43	35	30	41	35	30	40	34	29	27
9	55	41	33	28	53	41	33	27	39	32	27	38	31	27	37	31	26	24
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7653	7653	7653
5°	7607	7682	7661
10°	7574	7662	7651
15°	7544	7622	7622
20°	7480	7572	7583
25°	7447	7518	7577
30°	7358	7470	7532
35°	7280	7398	7490
40°	7194	7335	7475
45°	7109	7276	7429
50°	7016	7201	7418
55°	6868	7131	7375
60°	6695	7040	7319
65°	6418	6928	7310
70°	6043	6735	7270
75°	5531	6571	7528
80°	4587	6695	8244
85°	3088	8151	11486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	3.1
10°-20°	192.5	8.7
20°-30°	291.4	13.2
30°-40°	352.3	16.0
40°-50°	368.8	16.7
50°-60°	339.5	15.4
60°-70°	267.8	12.1
70°-80°	167.4	7.6
80°-90°	72.1	3.3
90°-100°	27.0	1.2
100°-110°	17.9	0.8
110°-120°	14.2	0.6
120°-130°	8.8	0.4
130°-140°	7.9	0.4
140°-150°	6.0	0.3
150°-160°	3.7	0.2
160°-170°	1.8	0.1
170°-180°	0.4	0.0
0°-30°	551.2	25.0
0°-40°	903.5	40.9
0°-60°	1611.8	73.0
0°-90°	2119.1	96.0
90°-120°	59.1	2.7
90°-150°	81.8	3.7
90°-180°	88.0	4.0
0°-180°	2206.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	704	706	711	710	709	67
15°	677	679	684	686	684	191
25°	627	628	633	636	638	288
35°	554	556	563	570	570	347
45°	467	470	478	486	488	361
55°	366	370	380	390	393	327
65°	252	258	272	285	287	250
75°	133	142	158	174	181	141
85°	25	42	66	86	93	32
90°	0	16	39	56	63	1
95°	0	10	24	38	43	0
105°	1	9	18	26	28	1
115°	2	8	15	22	25	2
125°	3	8	13	10	22	3
135°	3	7	11	14	17	2
145°	4	6	10	12	15	2
155°	4	6	8	10	12	2
165°	4	4	6	8	9	1
175°	5	5	4	4	5	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	711	711	711	711	711	711	711	711	711	711	711
2.5°	706	711	707	706	708	709	710	711	711	713	712
5°	704	706	705	704	706	706	707	709	710	711	710
7.5°	699	700	699	700	702	704	704	704	704	706	705
10°	693	695	695	694	696	698	697	698	698	701	700
12.5°	686	687	688	686	688	689	690	691	691	692	693
15°	677	678	678	678	679	679	680	681	682	684	682
17.5°	667	672	668	666	670	669	670	671	673	673	674
20°	653	655	654	654	654	656	658	658	659	661	661
22.5°	640	641	640	640	642	643	645	645	647	648	649
25°	627	627	626	628	628	628	631	631	633	633	634
27.5°	609	611	610	610	611	612	612	614	615	617	618
30°	592	595	593	592	594	595	595	599	600	601	602
32.5°	574	575	575	575	576	577	578	579	580	584	584
35°	554	556	555	555	554	559	558	559	561	563	565
37.5°	533	535	535	535	536	538	537	539	540	544	546
40°	512	514	514	514	515	516	516	520	520	522	524
42.5°	493	492	491	490	492	494	495	495	500	501	503
45°	467	469	468	468	469	471	471	473	476	478	480
47.5°	445	444	444	444	446	447	447	451	452	455	458
50°	419	420	420	418	420	422	423	425	429	430	432
52.5°	393	394	393	393	395	397	397	401	404	406	407
55°	366	367	368	367	368	371	373	376	377	380	382
57.5°	339	340	340	340	343	344	346	348	352	354	356
60°	311	311	311	313	313	318	318	320	324	327	330
62.5°	282	284	283	283	285	287	290	293	296	298	302
65°	252	253	253	255	257	259	262	265	267	272	274
67.5°	223	224	223	225	227	230	232	235	238	243	247
70°	192	193	194	195	198	201	203	208	211	214	220
72.5°	162	163	163	165	168	171	175	178	185	186	190
75°	133	133	135	137	140	143	146	151	155	158	163
77.5°	105	104	105	109	111	116	120	123	129	133	137
80°	74	76	77	80	83	89	93	98	103	108	113
82.5°	50	50	52	55	59	65	70	75	80	85	91
85°	25	27	30	35	39	44	50	56	61	66	72
87.5°	8	10	14	18	23	29	35	40	46	51	56
90°	0	2	5	9	14	19	24	29	34	39	43
92.5°	0	1	3	6	9	13	17	21	26	30	34
95°	0	1	3	5	8	11	14	17	20	24	27
97.5°	1	2	3	5	8	10	13	15	18	21	23
100°	1	2	4	6	8	10	12	15	17	19	22
102.5°	1	2	4	6	8	10	12	14	17	19	21
105°	1	2	4	6	8	10	12	14	16	18	20
107.5°	2	2	4	6	8	10	12	13	14	16	19
110°	2	3	4	6	7	9	10	12	14	15	17



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2	3	4	5	7	9	9	12	14	15	17
115°	2	3	4	6	7	9	10	9	13	15	17
117.5°	3	3	4	6	7	9	10	10	8	14	16
120°	3	3	4	6	7	9	10	11	9	7	11
122.5°	3	4	4	6	7	8	9	11	12	8	6
125°	3	4	4	6	7	8	9	10	12	13	10
127.5°	3	4	5	6	7	8	9	10	11	12	14
130°	3	4	5	6	7	8	9	10	11	12	13
132.5°	3	4	4	5	6	8	9	10	11	12	13
135°	3	4	5	5	6	8	9	10	11	11	12
137.5°	3	4	5	6	7	8	9	9	10	11	12
140°	3	4	5	6	7	7	8	9	10	11	11
142.5°	3	4	5	6	6	7	8	9	9	10	11
145°	4	4	5	5	6	7	8	9	9	10	11
147.5°	4	4	5	5	6	7	7	8	9	10	10
150°	4	4	5	5	6	7	7	8	9	9	10
152.5°	4	4	4	5	6	6	7	7	8	9	9
155°	4	4	4	5	5	6	7	7	7	8	9
157.5°	4	4	4	5	5	6	6	7	7	7	8
160°	4	4	4	4	5	5	6	6	7	7	7
162.5°	4	4	4	4	5	5	5	6	6	7	7
165°	4	4	4	4	4	5	5	5	6	6	6
167.5°	4	4	4	4	4	5	5	5	5	6	6
170°	4	4	4	4	4	4	4	5	5	5	5
172.5°	5	5	5	5	5	4	4	4	4	5	5
175°	5	5	5	5	5	5	5	4	4	4	4
177.5°	5	5	5	5	5	5	5	5	5	4	4
180°	4	4	4	4	4	4	4	4	4	4	4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	711	711	711	711	711	711	711	711
2.5°	712	714	713	713	713	712	713	711
5°	711	711	711	710	709	712	711	709
7.5°	707	708	708	710	706	707	707	705
10°	701	701	702	698	700	701	701	700
12.5°	692	694	695	694	694	694	693	690
15°	684	687	687	685	684	688	686	684
17.5°	674	675	675	674	675	675	676	673
20°	662	664	663	662	663	662	666	662
22.5°	649	649	651	650	651	651	652	647
25°	634	636	637	635	637	637	638	638
27.5°	619	620	621	620	622	623	623	621
30°	603	604	605	603	606	608	607	606
32.5°	585	587	586	587	588	589	590	588
35°	567	568	571	568	569	570	572	570
37.5°	548	547	550	549	550	552	552	549
40°	526	527	530	531	531	532	532	532
42.5°	504	506	508	509	509	510	512	510
45°	481	484	485	487	489	489	489	488
47.5°	458	461	463	463	465	465	467	466
50°	435	437	439	440	441	442	443	443
52.5°	410	413	414	415	417	418	420	418
55°	385	387	389	390	392	393	395	393
57.5°	360	361	364	365	367	369	368	367
60°	332	335	336	338	338	342	342	340
62.5°	304	307	311	311	313	314	316	315
65°	277	280	282	288	290	290	289	287
67.5°	250	254	255	255	257	260	261	261
70°	221	224	227	228	231	232	233	231
72.5°	193	197	200	201	205	206	208	206
75°	167	170	173	176	178	180	180	181
77.5°	141	146	148	151	153	155	155	156
80°	116	120	125	127	129	132	133	133
82.5°	95	99	103	106	108	110	111	111
85°	76	80	84	87	89	92	92	93
87.5°	61	65	68	71	73	76	76	76
90°	48	52	55	57	60	62	63	63
92.5°	38	42	45	47	49	51	52	52
95°	31	34	37	39	41	42	43	43
97.5°	26	29	31	33	35	36	37	37
100°	24	26	28	29	31	32	32	32
102.5°	23	24	26	27	28	29	30	30
105°	22	24	25	26	27	28	28	28
107.5°	22	23	24	25	26	27	28	27
110°	19	21	23	25	26	26	27	27



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	18	20	21	23	24	25	25	26
115°	18	19	21	22	23	24	25	25
117.5°	18	19	20	21	22	23	24	25
120°	17	18	19	20	21	22	23	24
122.5°	6	16	19	20	21	21	22	23
125°	5	4	5	14	20	21	22	22
127.5°	13	4	3	2	1	1	3	4
130°	14	14	12	4	1	0	0	0
132.5°	13	14	15	15	16	15	13	13
135°	13	14	14	15	16	16	17	17
137.5°	13	13	14	15	15	16	16	17
140°	12	13	13	14	15	15	16	16
142.5°	12	12	13	14	14	15	15	15
145°	11	12	12	13	13	14	14	15
147.5°	11	11	12	12	13	13	14	14
150°	10	11	11	12	12	13	13	13
152.5°	10	10	11	11	11	12	12	12
155°	9	10	10	11	11	11	12	12
157.5°	9	9	10	10	10	11	11	11
160°	8	8	9	9	10	10	10	10
162.5°	7	8	8	9	9	9	9	10
165°	7	7	7	8	8	8	9	9
167.5°	6	6	6	7	8	8	8	8
170°	5	5	6	6	6	7	7	7
172.5°	5	5	5	5	5	5	6	6
175°	4	4	4	4	4	4	4	5
177.5°	4	4	4	4	3	3	3	2
180°	4	4	4	4	4	4	4	4

(END OF REPORT)