

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P601006

Luminaire Tested: 4APVTL-D-SL3C3 LOW POWER 5000K 120V

Issue Date: 1/31/2023

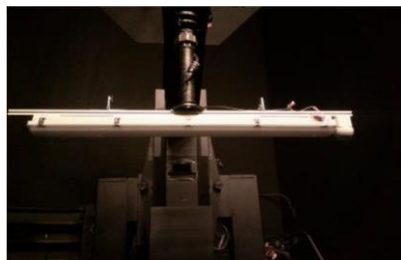
Test Information

Test Method: LM-79-2019
Report Number: P601006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTD-SL3C3 LOW POWER 5000K 120V
Description: LOW POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

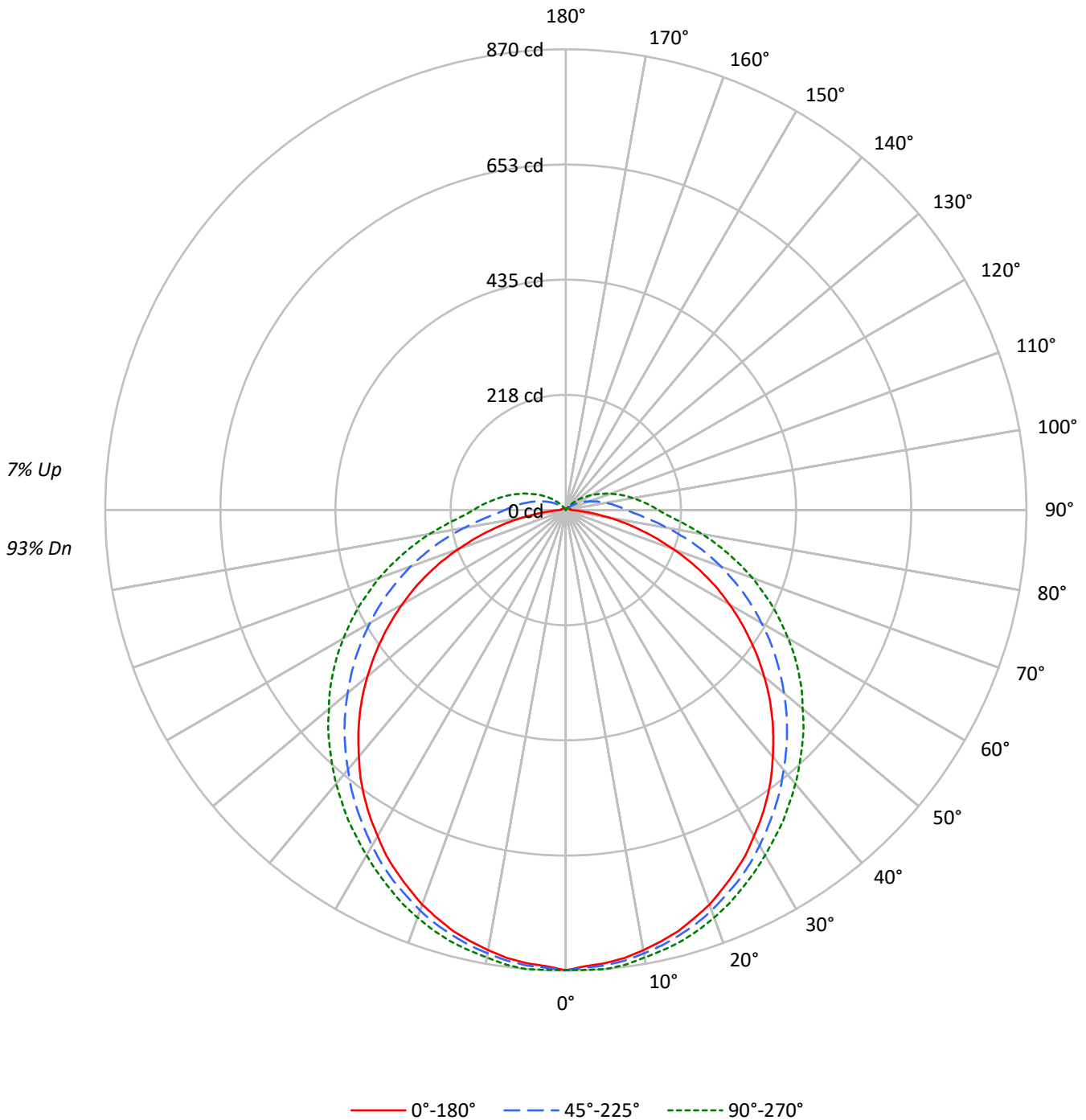
Lumens per Lamp: N/A
Luminaire Lumens: 2988.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 21.7
Input Voltage (V): 120
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: 24 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	76	76	76	74
2	95	86	79	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	61	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	53	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	38	34	34	34	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	34	30	30	30	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	24	24	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3508	3508	3508
5°	3477	3441	3450
10°	3453	3374	3368
15°	3430	3309	3302
20°	3393	3241	3225
25°	3346	3166	3143
30°	3294	3084	3067
35°	3243	3003	3003
40°	3176	2921	2940
45°	3113	2849	2882
50°	3033	2770	2825
55°	2940	2697	2785
60°	2831	2614	2732
65°	2700	2533	2680
70°	2478	2445	2624
75°	2207	2339	2558
80°	1844	2217	2509
85°	1366	2193	2509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 4263 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	2.7
10°-20°	235.1	7.9
20°-30°	356.1	11.9
30°-40°	431.5	14.4
40°-50°	456.8	15.3
50°-60°	432.0	14.5
60°-70°	362.0	12.1
70°-80°	257.9	8.6
80°-90°	152.2	5.1
90°-100°	96.3	3.2
100°-110°	62.7	2.1
110°-120°	36.3	1.2
120°-130°	17.9	0.6
130°-140°	6.3	0.2
140°-150°	1.8	0.1
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	673.3	22.5
0°-40°	1104.9	37.0
0°-60°	1993.6	66.7
0°-90°	2765.8	92.6
90°-120°	195.3	6.5
90°-150°	221.3	7.4
90°-180°	222.0	7.4
0°-180°	2988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	859	869	863	862	870	82
15°	823	833	831	836	843	232
25°	755	767	772	779	788	348
35°	663	676	688	704	716	415
45°	551	569	591	616	631	425
55°	424	448	484	519	537	379
65°	289	321	370	413	431	285
75°	147	191	253	299	317	156
85°	33	84	147	192	209	38
90°	11	55	115	158	174	7
95°	9	40	95	136	151	7
105°	7	21	62	96	109	8
115°	6	8	36	62	72	6
125°	4	4	16	35	42	4
135°	2	3	4	14	19	2
145°	2	2	2	3	3	1
155°	2	1	2	2	2	1
165°	0	0	0	0	0	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°	869	869	869	869	869
2.5°	862	872	865	866	869
5°	859	869	863	862	870
7.5°	853	864	858	859	866
10°	844	855	850	852	858
12.5°	834	845	842	844	851
15°	823	833	831	836	843
17.5°	808	820	819	825	832
20°	793	804	805	811	819
22.5°	774	787	788	795	805
25°	755	767	772	779	788
27.5°	735	747	753	762	771
30°	711	724	732	744	753
32.5°	688	702	710	724	734
35°	663	676	688	704	716
37.5°	637	651	665	683	695
40°	608	624	640	662	675
42.5°	580	597	616	640	653
45°	551	569	591	616	631
47.5°	521	540	565	594	609
50°	489	509	538	569	584
52.5°	457	480	511	545	562
55°	424	448	484	519	537
57.5°	391	417	456	493	512
60°	357	385	427	467	485
62.5°	324	353	399	440	458
65°	289	321	370	413	431
67.5°	253	288	340	385	402
70°	216	256	312	357	375
72.5°	181	222	282	328	346
75°	147	191	253	299	317
77.5°	115	160	223	271	289
80°	84	132	195	243	261
82.5°	56	107	170	216	234
85°	33	84	147	192	209
87.5°	17	66	128	173	189
90°	11	55	115	158	174
92.5°	10	47	105	147	163
95°	9	40	95	136	151
97.5°	9	34	86	125	140
100°	8	29	77	115	129
102.5°	8	24	69	105	119
105°	7	21	62	96	109
107.5°	7	17	54	86	99
110°	7	13	48	78	90



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6	10	42	69	81
115°	6	8	36	62	72
117.5°	5	6	31	54	64
120°	5	5	26	47	57
122.5°	5	5	21	41	49
125°	4	4	16	35	42
127.5°	3	4	12	29	36
130°	3	3	9	23	30
132.5°	3	3	6	18	24
135°	2	3	4	14	19
137.5°	2	2	3	10	14
140°	2	2	3	6	10
142.5°	2	2	3	4	6
145°	2	2	2	3	3
147.5°	2	2	2	3	3
150°	2	2	2	3	3
152.5°	2	1	2	2	3
155°	2	1	2	2	2
157.5°	2	1	1	2	2
160°	2	1	1	2	2
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)