

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: P600994

Luminaire Tested: 4APVTLD-SL3C3 LOW POWER 4000K 120V

Issue Date: 1/31/2023

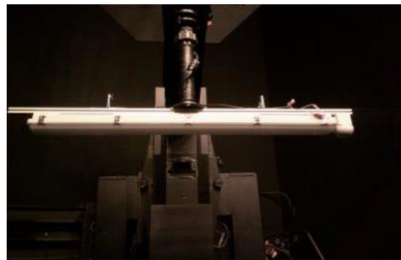
Test Information

Test Method: LM-79-2019
Report Number: P600994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTD-SL3C3 LOW POWER 4000K 120V
Description: LOW POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

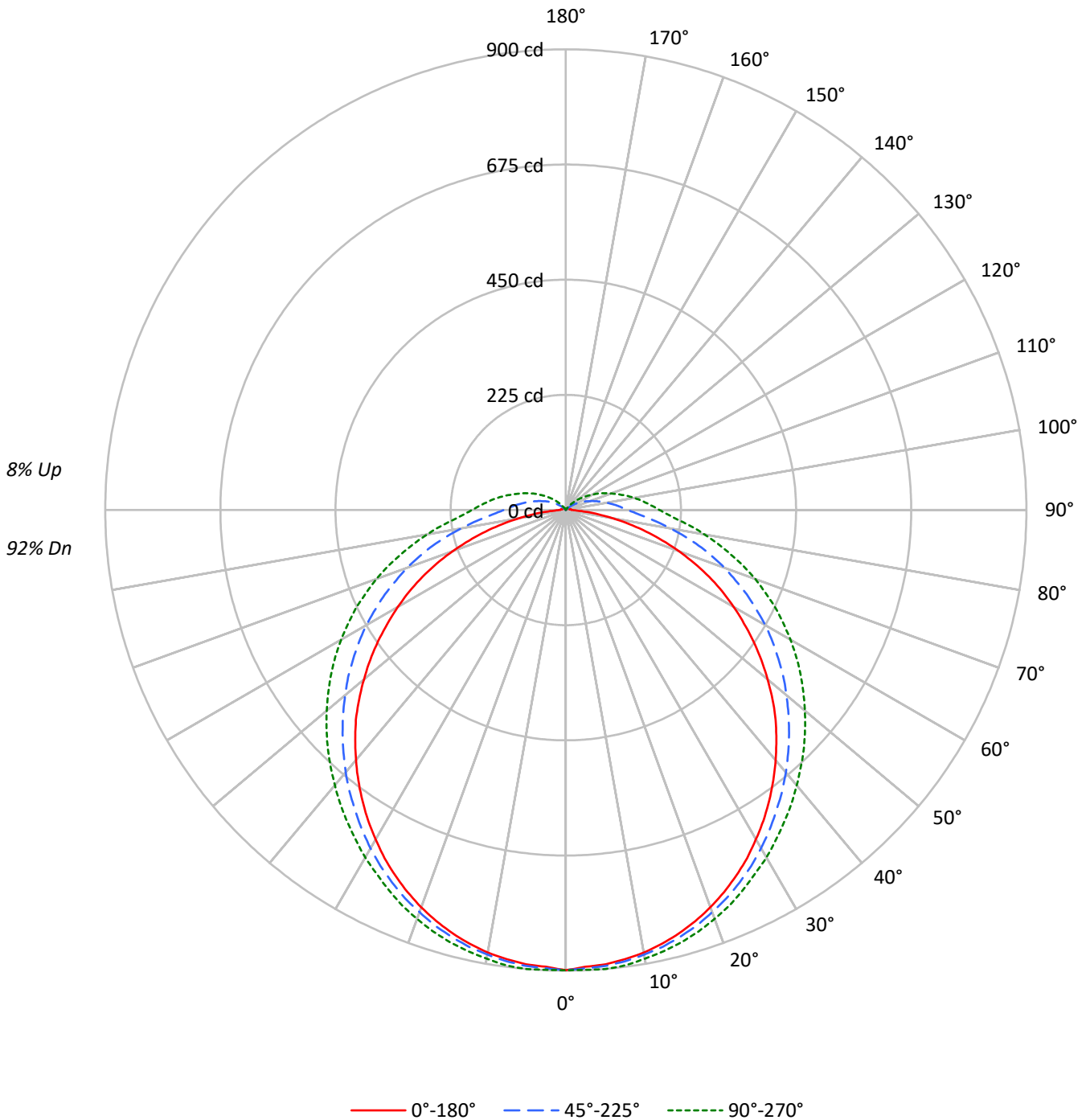
Lumens per Lamp: N/A
Luminaire Lumens: 3137.5 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 20.8
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				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	92
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	78	76	76	76	76	74
2	95	86	78	72	92	83	76	71	78	73	68	74	69	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	61	56	52	52	52	52	50
4	79	66	57	50	76	64	56	49	61	53	47	57	51	46	54	49	45	45	45	45	42
5	72	59	49	42	69	57	48	42	54	47	41	51	45	40	49	43	38	38	38	38	36
6	67	53	43	37	64	51	43	36	49	41	35	46	40	35	44	38	34	34	34	34	31
7	62	48	39	32	59	47	38	32	44	37	31	42	35	30	40	34	30	30	30	30	28
8	57	43	35	29	55	42	34	28	40	33	28	39	32	27	37	31	27	27	27	27	25
9	53	40	31	26	52	39	31	26	37	30	25	36	29	24	34	28	24	24	24	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3629	3629	3629
5°	3607	3565	3569
10°	3592	3501	3494
15°	3567	3437	3423
20°	3535	3365	3347
25°	3493	3294	3267
30°	3442	3215	3193
35°	3390	3130	3120
40°	3333	3053	3058
45°	3277	2974	3005
50°	3194	2899	2951
55°	3107	2825	2904
60°	3005	2754	2856
65°	2887	2670	2810
70°	2696	2586	2757
75°	2432	2486	2687
80°	2063	2365	2644
85°	1573	2327	2641

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 4650 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	2.7
10°-20°	244.3	7.8
20°-30°	370.8	11.8
30°-40°	450.1	14.3
40°-50°	477.6	15.2
50°-60°	453.1	14.4
60°-70°	381.9	12.2
70°-80°	275.0	8.8
80°-90°	162.5	5.2
90°-100°	101.6	3.2
100°-110°	66.3	2.1
110°-120°	39.0	1.2
120°-130°	19.5	0.6
130°-140°	7.3	0.2
140°-150°	2.0	0.1
150°-160°	1.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	700.3	22.3
0°-40°	1150.4	36.7
0°-60°	2081.2	66.3
0°-90°	2900.7	92.5
90°-120°	206.9	6.6
90°-150°	235.7	7.5
90°-180°	237.0	7.6
0°-180°	3137.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	891	901	894	895	900	85
15°	856	867	863	868	874	241
25°	788	800	803	811	819	363
35°	693	706	717	733	744	434
45°	580	596	617	645	658	447
55°	448	471	507	543	560	400
65°	309	341	390	434	452	305
75°	162	206	269	317	333	172
85°	38	92	156	204	220	43
90°	12	59	121	167	183	8
95°	10	43	100	143	158	8
105°	8	22	65	101	114	8
115°	6	9	39	66	77	6
125°	4	5	18	38	46	4
135°	3	3	4	16	21	2
145°	2	2	3	4	4	1
155°	2	2	2	2	3	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°	899	899	899	899	899
2.5°	893	904	896	898	899
5°	891	901	894	895	900
7.5°	885	896	889	891	897
10°	878	888	882	884	890
12.5°	868	878	874	877	883
15°	856	867	863	868	874
17.5°	842	852	851	858	863
20°	826	837	836	843	850
22.5°	808	819	821	827	836
25°	788	800	803	811	819
27.5°	767	778	784	794	801
30°	743	755	763	775	784
32.5°	719	732	741	755	764
35°	693	706	717	733	744
37.5°	666	680	694	712	724
40°	638	653	669	690	702
42.5°	609	624	643	668	680
45°	580	596	617	645	658
47.5°	548	565	590	620	634
50°	515	535	563	595	610
52.5°	482	504	536	570	585
55°	448	471	507	543	560
57.5°	413	439	479	517	534
60°	379	406	450	490	507
62.5°	345	373	419	462	479
65°	309	341	390	434	452
67.5°	272	306	359	404	422
70°	235	274	330	376	394
72.5°	198	241	299	347	364
75°	162	206	269	317	333
77.5°	127	174	238	287	304
80°	94	144	208	258	275
82.5°	64	117	181	230	248
85°	38	92	156	204	220
87.5°	20	72	136	183	199
90°	12	59	121	167	183
92.5°	11	51	110	155	170
95°	10	43	100	143	158
97.5°	9	37	91	132	147
100°	9	31	82	121	136
102.5°	8	27	73	111	125
105°	8	22	65	101	114
107.5°	7	18	58	91	104
110°	7	15	51	82	94



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6	12	45	74	86
115°	6	9	39	66	77
117.5°	6	7	33	58	69
120°	5	6	28	51	60
122.5°	5	5	23	44	53
125°	4	5	18	38	46
127.5°	3	4	14	32	39
130°	3	4	10	26	33
132.5°	3	4	7	21	27
135°	3	3	4	16	21
137.5°	3	3	4	11	16
140°	2	3	3	7	11
142.5°	2	2	3	4	7
145°	2	2	3	4	4
147.5°	2	2	2	3	3
150°	2	2	2	3	3
152.5°	2	2	2	3	3
155°	2	2	2	2	3
157.5°	2	2	2	2	2
160°	2	2	2	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)