

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: P600982

Luminaire Tested: 4APVTLD-SL3C3 LOW POWER 3500K 120V

Issue Date: 1/31/2023

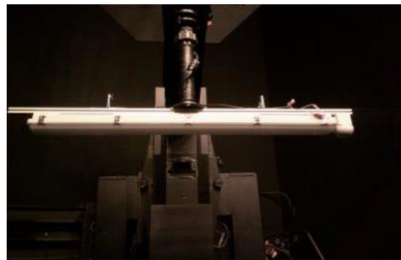
Test Information

Test Method: LM-79-2019
Report Number: P600982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTD-SL3C3 LOW POWER 3500K 120V
Description: LOW POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

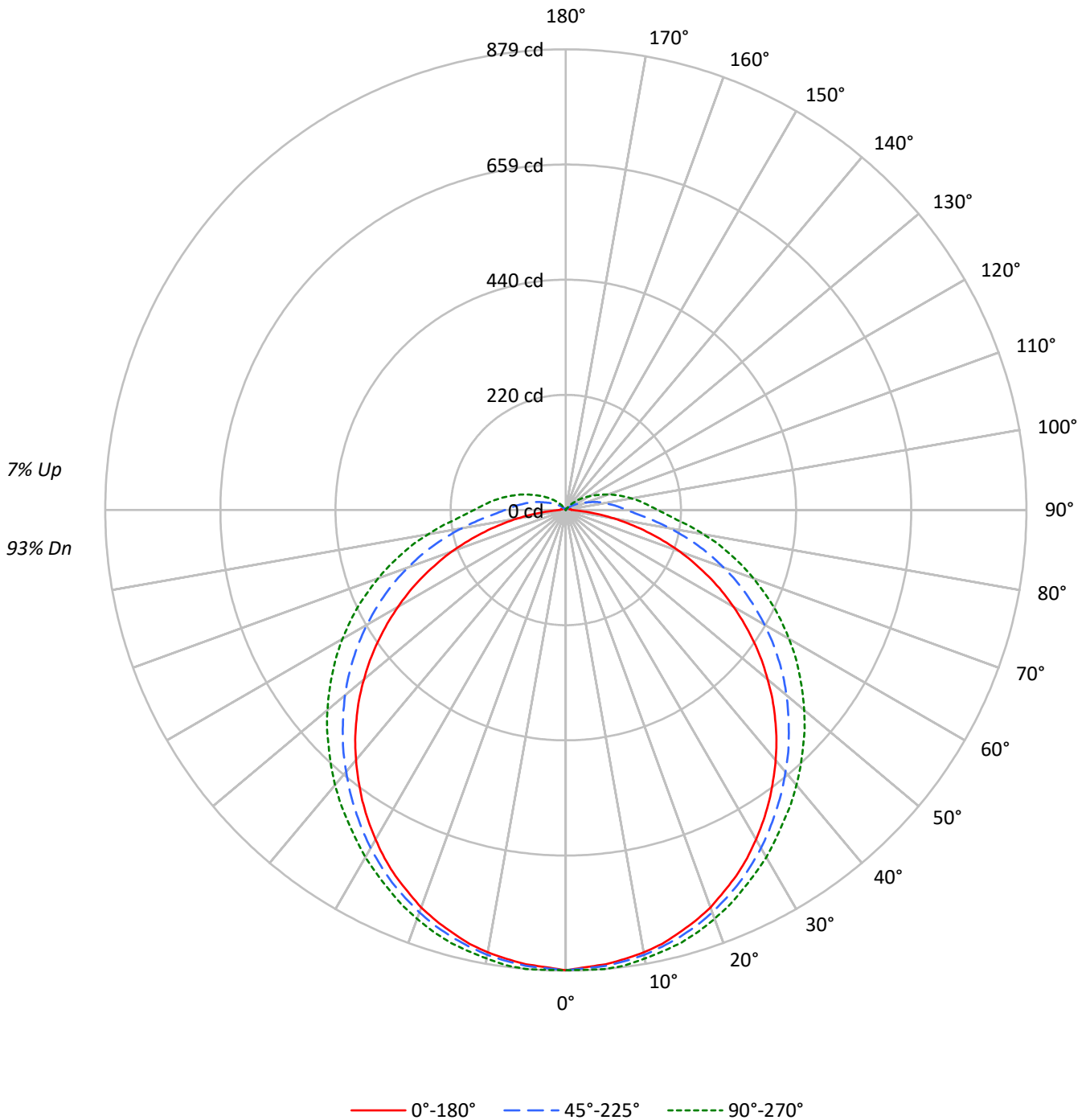
Lumens per Lamp: N/A
Luminaire Lumens: 3043.1 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (A_{in}): 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



TEST NUMBER: P600982
CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 3500K 120V

Luminous Intensity Polar Plot





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CATALOG NUMBER: 4APVTL-D-SL3C3 LOW POWER 3500K 120V

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	96	96	96	96	96	96	93
1	105	100	95	90	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	77	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	62	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	49	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	51	43	36	49	41	36	47	40	35	44	38	34	34	34	34	32
7	62	48	39	32	59	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	31	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	34	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7088	7088	7088
5°	7037	6958	6971
10°	7000	6835	6823
15°	6940	6702	6689
20°	6881	6562	6536
25°	6793	6411	6374
30°	6687	6253	6232
35°	6576	6083	6081
40°	6453	5920	5967
45°	6319	5768	5845
50°	6164	5624	5748
55°	5987	5471	5642
60°	5766	5310	5543
65°	5504	5146	5447
70°	5157	4949	5331
75°	4631	4748	5228
80°	3908	4502	5134
85°	2918	4386	5091

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6319 cd/sqm



TEST NUMBER: P600982
 CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 3500K 120V

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	2.7
10°-20°	238.6	7.8
20°-30°	362.0	11.9
30°-40°	439.4	14.4
40°-50°	466.1	15.3
50°-60°	442.1	14.5
60°-70°	372.1	12.2
70°-80°	267.7	8.8
80°-90°	157.4	5.2
90°-100°	96.3	3.2
100°-110°	60.6	2.0
110°-120°	33.1	1.1
120°-130°	16.3	0.5
130°-140°	6.1	0.2
140°-150°	1.8	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	683.8	22.5
0°-40°	1123.2	36.9
0°-60°	2031.4	66.8
0°-90°	2828.6	93.0
90°-120°	190.1	6.2
90°-150°	214.4	7.0
90°-180°	215.0	7.1
0°-180°	3043.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	870	880	873	874	879	83
15°	835	847	843	848	854	236
25°	770	781	784	792	799	355
35°	677	690	700	716	725	423
45°	565	582	602	628	640	436
55°	438	462	495	529	544	391
65°	301	333	380	422	438	298
75°	160	201	261	307	324	170
85°	39	90	151	197	212	44
90°	12	57	116	159	175	8
95°	10	41	95	136	150	8
105°	8	18	59	94	106	8
115°	6	8	31	55	68	6
125°	4	4	15	31	40	4
135°	3	3	4	13	18	2
145°	2	2	2	3	4	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P600982

CATALOG NUMBER: 4APVTLTD-SL3C3 LOW POWER 3500K 120V

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878	878	878	878	878
2.5°	873	883	875	876	878
5°	870	880	873	874	879
7.5°	864	875	868	870	876
10°	857	868	862	864	869
12.5°	848	858	853	856	862
15°	835	847	843	848	854
17.5°	822	833	831	837	843
20°	807	817	817	823	830
22.5°	788	800	801	807	816
25°	770	781	784	792	799
27.5°	749	760	765	775	782
30°	726	738	745	756	765
32.5°	702	715	723	737	745
35°	677	690	700	716	725
37.5°	650	663	677	695	706
40°	623	637	652	674	685
42.5°	595	610	628	651	663
45°	565	582	602	628	640
47.5°	535	553	576	605	618
50°	503	523	550	580	594
52.5°	471	493	523	556	569
55°	438	462	495	529	544
57.5°	404	429	467	503	519
60°	370	398	438	477	492
62.5°	336	365	409	449	465
65°	301	333	380	422	438
67.5°	266	300	351	393	409
70°	231	268	320	364	381
72.5°	195	234	291	337	353
75°	160	201	261	307	324
77.5°	126	171	231	279	297
80°	94	141	202	251	267
82.5°	64	114	175	222	240
85°	39	90	151	197	212
87.5°	21	70	131	176	192
90°	12	57	116	159	175
92.5°	10	48	105	148	162
95°	10	41	95	136	150
97.5°	9	34	85	125	139
100°	9	27	76	114	127
102.5°	8	22	68	104	117
105°	8	18	59	94	106
107.5°	7	15	50	84	96
110°	7	12	42	74	87



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6	10	36	64	77
115°	6	8	31	55	68
117.5°	6	6	26	48	60
120°	5	5	22	42	53
122.5°	5	5	18	36	46
125°	4	4	15	31	40
127.5°	3	4	11	26	34
130°	3	3	8	22	29
132.5°	3	3	6	17	23
135°	3	3	4	13	18
137.5°	2	2	3	9	14
140°	2	2	3	6	10
142.5°	2	2	3	4	6
145°	2	2	2	3	4
147.5°	2	2	2	3	3
150°	2	2	2	3	3
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
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)