

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: P600984

Luminaire Tested: 4APVTL-D-SL3C3 LOW POWER 3500K 277V

Issue Date: 1/31/2023

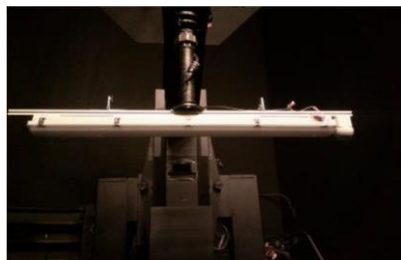
Test Information

Test Method: LM-79-2019
Report Number: P600984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTLD-SL3C3 LOW POWER 3500K 277V
Description: LOW POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

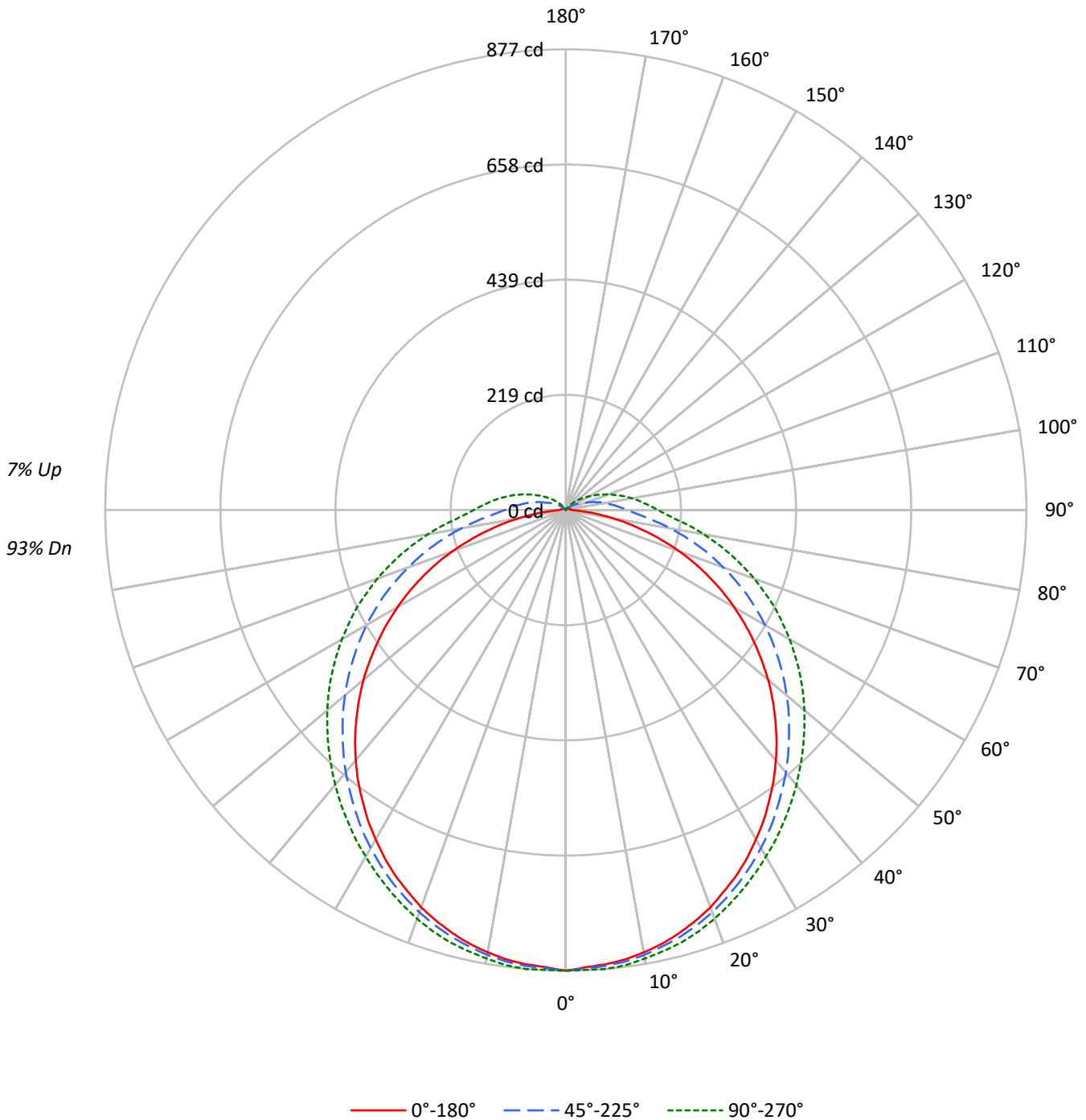
Lumens per Lamp: N/A
Luminaire Lumens: 3036.2 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 21.7
Input Voltage (V): 277
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



TEST NUMBER: P600984
CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 3500K 277V

Luminous Intensity Polar Plot





TEST NUMBER: P600984

CATALOG NUMBER: 4APVTL-D-SL3C3 LOW POWER 3500K 277V

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°	7080	7080	7080
5°	7021	6942	6955
10°	6983	6820	6807
15°	6932	6686	6674
20°	6864	6545	6520
25°	6775	6395	6358
30°	6669	6237	6207
35°	6557	6074	6072
40°	6442	5920	5950
45°	6308	5759	5836
50°	6164	5614	5738
55°	5973	5460	5642
60°	5766	5310	5543
65°	5504	5146	5459
70°	5135	4934	5345
75°	4573	4730	5228
80°	3825	4502	5134
85°	2843	4386	5091

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6308 cd/sqm



TEST NUMBER: P600984
 CATALOG NUMBER: 4APVTLD-SL3C3 LOW POWER 3500K 277V

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	2.7
10°-20°	238.0	7.8
20°-30°	361.1	11.9
30°-40°	438.4	14.4
40°-50°	465.2	15.3
50°-60°	441.4	14.5
60°-70°	371.6	12.2
70°-80°	266.5	8.8
80°-90°	156.9	5.2
90°-100°	96.2	3.2
100°-110°	60.3	2.0
110°-120°	33.0	1.1
120°-130°	16.3	0.5
130°-140°	6.2	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°	682.1	22.5
0°-40°	1120.6	36.9
0°-60°	2027.1	66.8
0°-90°	2822.2	93.0
90°-120°	189.6	6.2
90°-150°	213.9	7.0
90°-180°	214.0	7.0
0°-180°	3036.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	868	878	871	871	877	82
15°	834	844	841	846	852	235
25°	768	780	782	790	797	354
35°	675	688	699	714	724	423
45°	564	580	601	626	639	435
55°	437	460	494	529	544	391
65°	301	331	380	422	439	298
75°	158	200	260	306	324	168
85°	38	89	151	197	212	43
90°	12	56	116	159	175	7
95°	10	41	95	136	150	8
105°	8	18	58	93	107	8
115°	6	8	31	55	69	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: P600984

CATALOG NUMBER: 4APVTLTD-SL3C3 LOW POWER 3500K 277V

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877	877	877	877	877
2.5°	871	881	873	875	876
5°	868	878	871	871	877
7.5°	863	873	867	868	874
10°	855	866	860	862	867
12.5°	846	856	851	855	860
15°	834	844	841	846	852
17.5°	820	831	829	835	841
20°	805	815	815	821	828
22.5°	786	798	799	805	813
25°	768	780	782	790	797
27.5°	747	758	763	773	780
30°	724	736	743	754	762
32.5°	701	713	722	735	744
35°	675	688	699	714	724
37.5°	650	663	675	693	704
40°	622	636	652	672	683
42.5°	594	609	627	650	661
45°	564	580	601	626	639
47.5°	534	552	576	603	616
50°	503	522	549	580	593
52.5°	470	491	522	554	569
55°	437	460	494	529	544
57.5°	404	429	466	503	518
60°	370	396	438	476	492
62.5°	336	364	409	449	465
65°	301	331	380	422	439
67.5°	266	299	349	393	409
70°	230	266	319	364	382
72.5°	193	232	290	335	352
75°	158	200	260	306	324
77.5°	124	170	231	278	295
80°	92	140	202	250	267
82.5°	63	113	175	221	240
85°	38	89	151	197	212
87.5°	20	70	131	176	191
90°	12	56	116	159	175
92.5°	10	48	105	147	162
95°	10	41	95	136	150
97.5°	9	34	85	125	139
100°	8	27	76	114	128
102.5°	8	22	68	103	117
105°	8	18	58	93	107
107.5°	7	15	50	83	96
110°	7	12	41	73	87



TEST NUMBER: P600984
CATALOG NUMBER: 4APVTLTD-SL3C3 LOW POWER 3500K 277V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6	10	36	63	77
115°	6	8	31	55	69
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	10	14
140°	2	2	3	6	10
142.5°	2	2	2	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)