

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: P601008

Luminaire Tested: 4APVTL-D-SL3C3 LOW POWER 5000K 277V

Issue Date: 1/31/2023

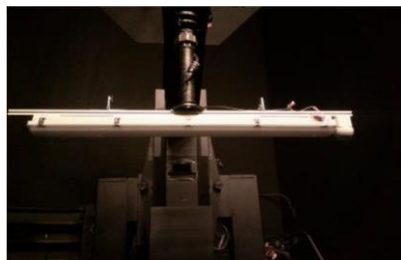
Test Information

Test Method: LM-79-2019
Report Number: P601008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTD-SL3C3 LOW POWER 5000K 277V
Description: LOW POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

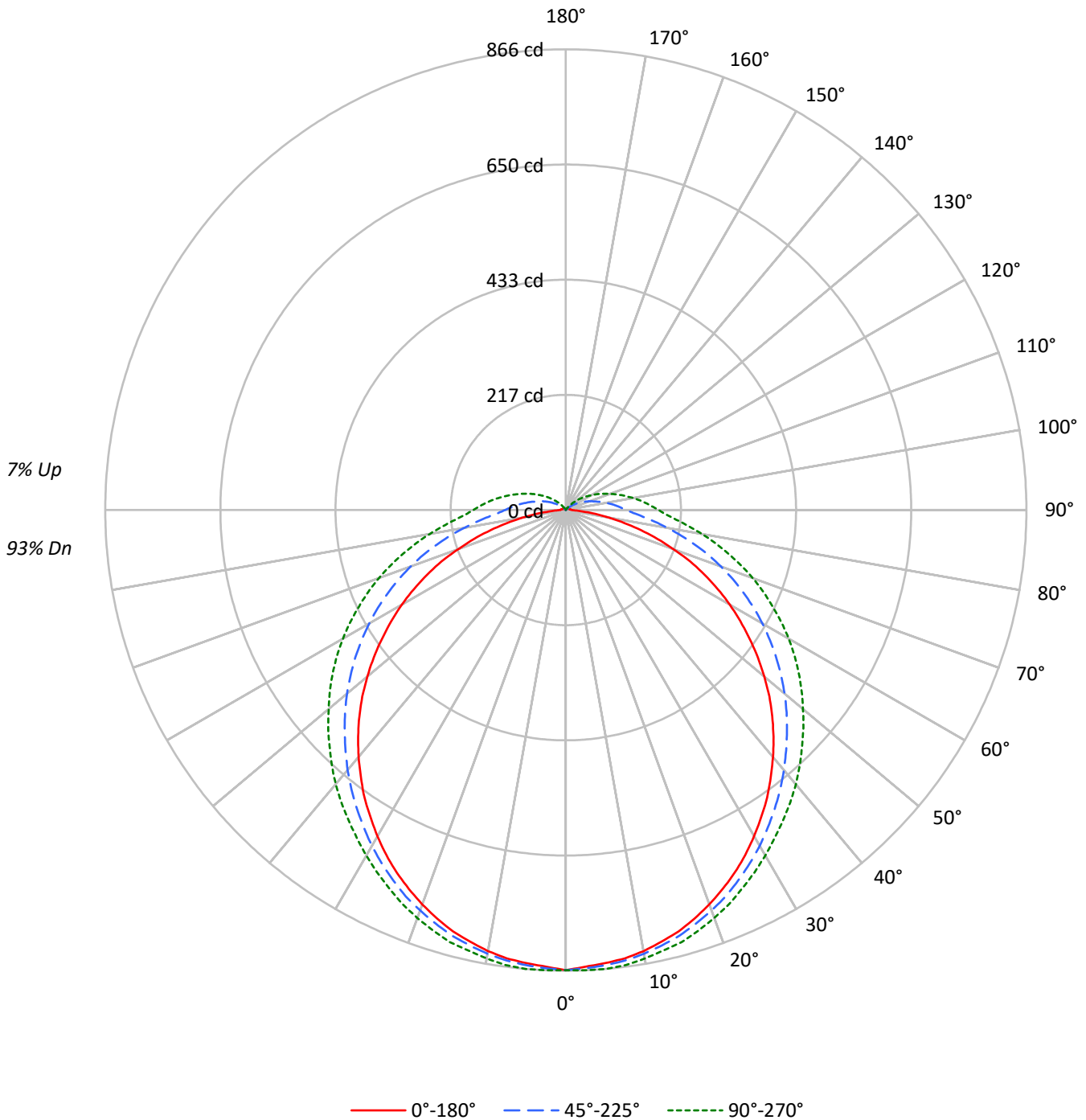
Lumens per Lamp: N/A
Luminaire Lumens: 2977.1 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 22.2
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



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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	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°	3492	3492	3492
5°	3461	3425	3434
10°	3445	3362	3360
15°	3417	3297	3294
20°	3376	3225	3213
25°	3333	3150	3131
30°	3280	3071	3055
35°	3229	2990	2986
40°	3165	2912	2931
45°	3102	2835	2868
50°	3021	2765	2816
55°	2926	2691	2774
60°	2823	2614	2727
65°	2691	2527	2667
70°	2467	2429	2617
75°	2192	2320	2550
80°	1822	2206	2500
85°	1324	2178	2497

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°	81.8	2.7
10°-20°	234.3	7.9
20°-30°	354.7	11.9
30°-40°	429.8	14.4
40°-50°	455.2	15.3
50°-60°	430.6	14.5
60°-70°	360.8	12.1
70°-80°	257.2	8.6
80°-90°	151.5	5.1
90°-100°	96.0	3.2
100°-110°	62.3	2.1
110°-120°	36.1	1.2
120°-130°	17.8	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°	670.8	22.5
0°-40°	1100.6	37.0
0°-60°	1986.3	66.7
0°-90°	2755.9	92.6
90°-120°	194.4	6.5
90°-150°	220.3	7.4
90°-180°	221.0	7.4
0°-180°	2977.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	855	866	859	859	866	81
15°	820	831	828	833	841	231
25°	752	765	768	777	785	346
35°	660	674	685	702	712	412
45°	549	567	588	615	628	423
55°	422	447	483	518	535	377
65°	288	319	369	411	429	284
75°	146	191	251	299	316	155
85°	32	84	146	191	208	38
90°	11	55	114	158	174	7
95°	9	40	95	135	151	7
105°	7	20	61	95	108	8
115°	6	8	36	61	72	6
125°	4	4	16	34	42	3
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°	865	865	865	865	865
2.5°	859	870	862	863	866
5°	855	866	859	859	866
7.5°	850	861	854	855	863
10°	842	853	847	849	856
12.5°	831	842	838	841	848
15°	820	831	828	833	841
17.5°	805	817	815	822	829
20°	789	801	801	808	816
22.5°	771	783	786	792	802
25°	752	765	768	777	785
27.5°	731	744	749	760	768
30°	708	721	729	741	750
32.5°	684	698	707	722	731
35°	660	674	685	702	712
37.5°	633	648	662	681	693
40°	606	622	638	659	673
42.5°	578	595	613	638	651
45°	549	567	588	615	628
47.5°	519	538	563	591	606
50°	487	508	537	567	582
52.5°	455	477	510	543	559
55°	422	447	483	518	535
57.5°	389	415	455	492	510
60°	356	383	427	466	484
62.5°	322	352	398	439	457
65°	288	319	369	411	429
67.5°	253	287	340	383	402
70°	215	255	310	355	374
72.5°	181	223	281	328	345
75°	146	191	251	299	316
77.5°	113	161	222	270	288
80°	83	133	194	241	260
82.5°	56	107	169	215	233
85°	32	84	146	191	208
87.5°	17	66	127	172	188
90°	11	55	114	158	174
92.5°	10	47	104	146	162
95°	9	40	95	135	151
97.5°	9	34	86	125	140
100°	8	29	77	114	129
102.5°	8	25	69	104	118
105°	7	20	61	95	108
107.5°	7	17	54	86	98
110°	6	13	48	77	89



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6	10	42	69	80
115°	6	8	36	61	72
117.5°	5	6	31	54	64
120°	5	5	25	47	56
122.5°	4	5	21	41	49
125°	4	4	16	34	42
127.5°	3	4	12	29	36
130°	3	4	9	23	30
132.5°	3	3	6	18	24
135°	2	3	4	14	19
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	3
147.5°	2	2	2	3	3
150°	2	1	2	3	3
152.5°	2	1	2	2	3
155°	2	1	2	2	2
157.5°	2	1	2	2	2
160°	2	1	1	1	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)