

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: P600996

Luminaire Tested: 4APVTL-D-SL3C3 LOW POWER 4000K 277V

Issue Date: 1/31/2023

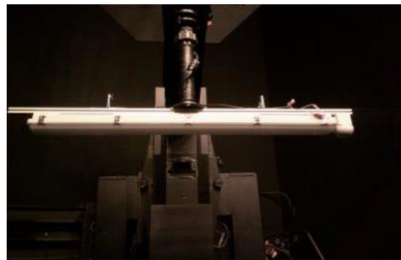
Test Information

Test Method: LM-79-2019
Report Number: P600996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/31/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLTD-SL3C3 LOW POWER 4000K 277V
Description: LOW POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

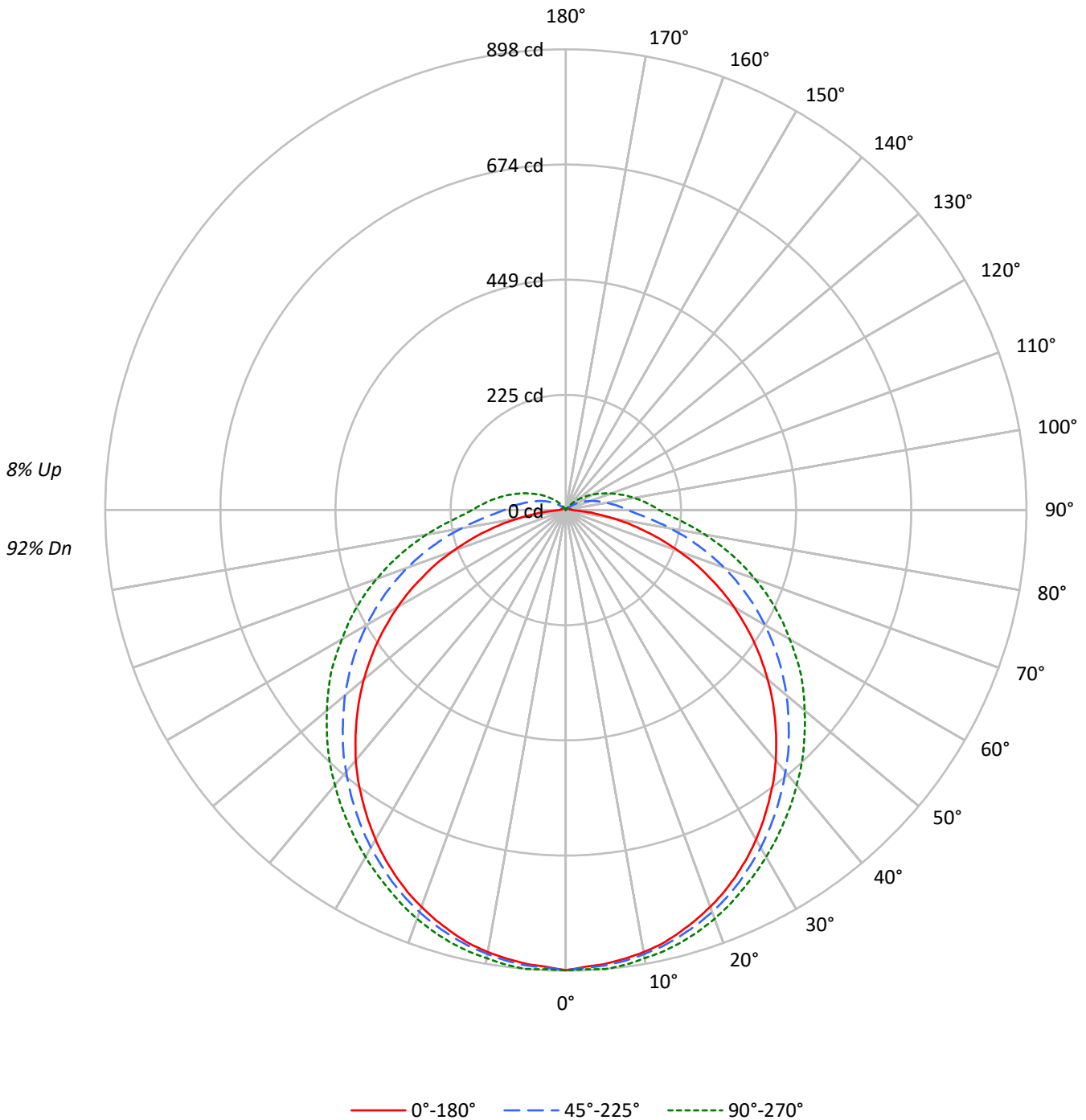
Lumens per Lamp: N/A
Luminaire Lumens: 3127.9 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 21.3
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	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°	3621	3621	3621
5°	3595	3553	3561
10°	3580	3489	3482
15°	3555	3425	3415
20°	3522	3357	3339
25°	3484	3281	3255
30°	3438	3202	3181
35°	3380	3121	3112
40°	3327	3040	3049
45°	3260	2965	2996
50°	3188	2894	2942
55°	3107	2819	2904
60°	3005	2742	2839
65°	2868	2664	2798
70°	2685	2578	2743
75°	2432	2468	2695
80°	2063	2354	2653
85°	1614	2327	2653

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°	84.9	2.7
10°-20°	243.6	7.8
20°-30°	369.6	11.8
30°-40°	448.7	14.3
40°-50°	476.2	15.2
50°-60°	451.9	14.4
60°-70°	381.0	12.2
70°-80°	274.0	8.8
80°-90°	162.0	5.2
90°-100°	101.3	3.2
100°-110°	66.1	2.1
110°-120°	38.8	1.2
120°-130°	19.4	0.6
130°-140°	7.2	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°	698.1	22.3
0°-40°	1146.8	36.7
0°-60°	2074.9	66.3
0°-90°	2891.9	92.5
90°-120°	206.3	6.6
90°-150°	234.8	7.5
90°-180°	236.0	7.5
0°-180°	3127.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	888	899	891	892	898	84
15°	853	864	860	866	872	241
25°	786	797	800	809	816	362
35°	691	704	715	731	742	433
45°	577	594	615	642	656	445
55°	448	470	506	542	560	400
65°	307	339	389	433	450	304
75°	162	204	267	316	334	172
85°	39	91	156	203	221	44
90°	12	59	120	166	182	8
95°	10	43	100	143	158	8
105°	8	22	65	101	114	8
115°	6	9	39	65	76	6
125°	4	5	18	37	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°	897	897	897	897	897
2.5°	891	901	893	895	896
5°	888	899	891	892	898
7.5°	882	893	886	887	894
10°	875	886	879	882	887
12.5°	866	876	871	874	881
15°	853	864	860	866	872
17.5°	839	850	848	855	861
20°	823	834	834	840	848
22.5°	806	816	818	825	833
25°	786	797	800	809	816
27.5°	765	776	780	791	799
30°	742	753	760	773	781
32.5°	717	729	738	753	762
35°	691	704	715	731	742
37.5°	665	677	691	710	722
40°	637	650	666	688	700
42.5°	607	623	642	666	679
45°	577	594	615	642	656
47.5°	546	564	588	618	632
50°	514	533	562	593	608
52.5°	481	502	534	568	584
55°	448	470	506	542	560
57.5°	413	438	477	516	532
60°	379	404	448	488	504
62.5°	344	372	419	461	478
65°	307	339	389	433	450
67.5°	273	306	359	404	422
70°	234	272	329	375	392
72.5°	198	239	298	345	363
75°	162	204	267	316	334
77.5°	128	174	237	286	304
80°	94	143	207	258	276
82.5°	64	116	180	230	248
85°	39	91	156	203	221
87.5°	20	72	135	182	199
90°	12	59	120	166	182
92.5°	11	50	110	154	170
95°	10	43	100	143	158
97.5°	9	37	90	132	147
100°	9	31	81	121	135
102.5°	8	26	73	110	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	85
115°	6	9	39	65	76
117.5°	6	7	33	58	68
120°	5	6	28	51	60
122.5°	5	5	23	44	53
125°	4	5	18	37	46
127.5°	3	4	14	31	39
130°	3	4	10	26	33
132.5°	3	3	7	20	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)