

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: P601018

Luminaire Tested: 4APVTLD-SL3C3 MID POWER 5000K 120V

Issue Date: 3/21/2023

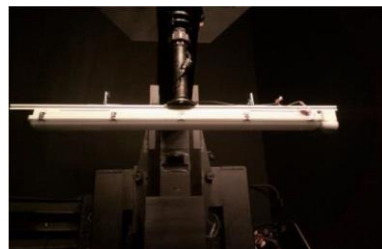
Test Information

Test Method: LM-79-2019
Report Number: P601018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-820-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4APVTLD-SL3C3 MID POWER 5000K 120V
Description: MID POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

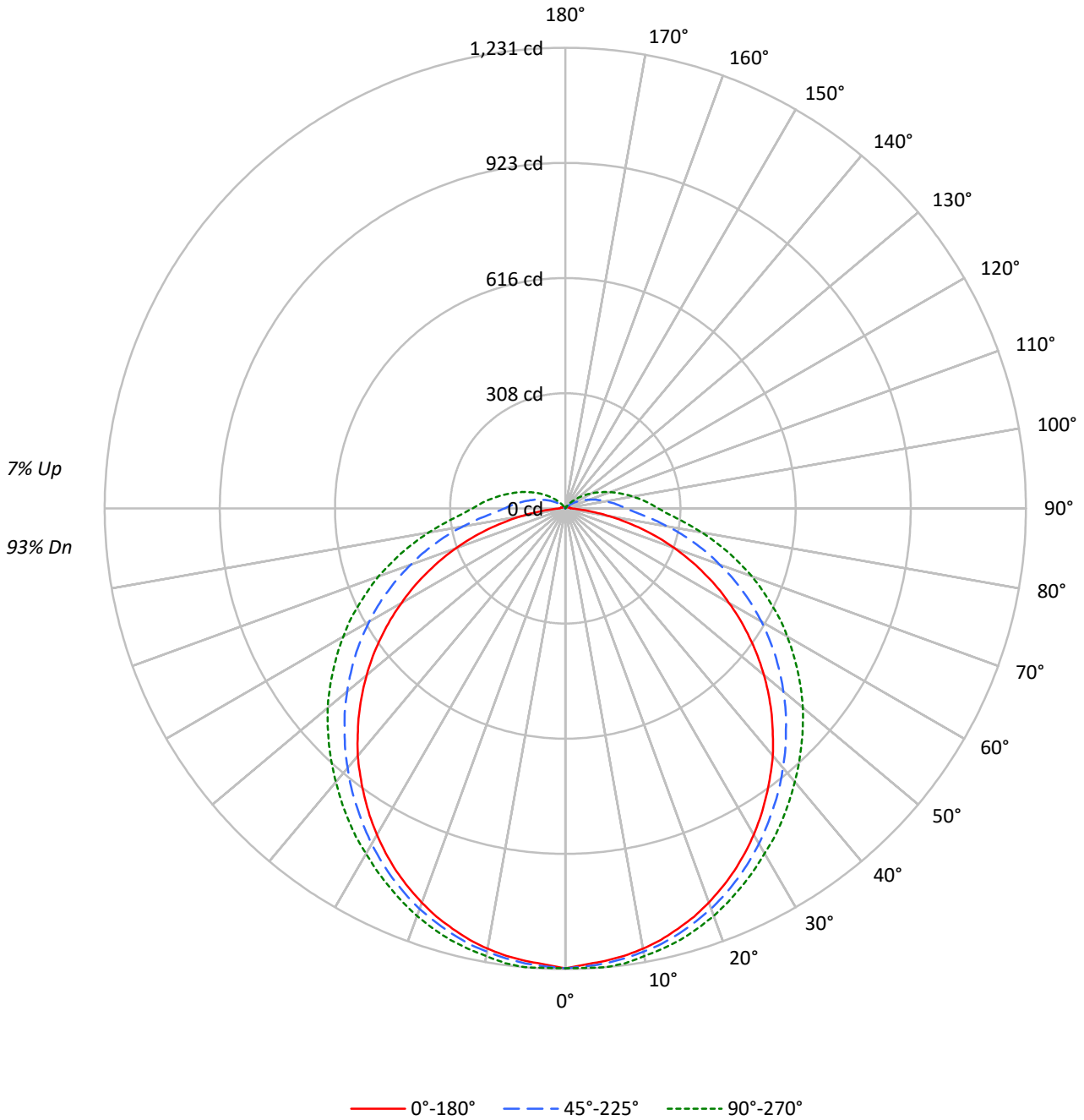
Lumens per Lamp: N/A
Luminaire Lumens: 4231.1 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 33.1
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	
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	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	74
2	95	86	79	72	92	83	77	71	79	73	68	74	69	65	70	66	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	61	57	53	50
4	79	66	57	50	76	64	56	49	61	53	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	38	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	34	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9922	9922	9922
5°	9820	9732	9762
10°	9760	9539	9539
15°	9666	9349	9345
20°	9558	9148	9127
25°	9431	8921	8895
30°	9276	8688	8676
35°	9102	8447	8496
40°	8938	8217	8310
45°	8723	7991	8156
50°	8493	7782	8022
55°	8215	7571	7862
60°	7870	7335	7718
65°	7479	7082	7561
70°	6921	6790	7430
75°	6107	6494	7261
80°	4948	6173	7114
85°	3441	6013	7156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8723 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	2.7
10°-20°	332.7	7.9
20°-30°	503.9	11.9
30°-40°	610.5	14.4
40°-50°	646.3	15.3
50°-60°	611.4	14.4
60°-70°	512.6	12.1
70°-80°	366.2	8.7
80°-90°	216.0	5.1
90°-100°	136.5	3.2
100°-110°	88.9	2.1
110°-120°	51.5	1.2
120°-130°	25.5	0.6
130°-140°	9.1	0.2
140°-150°	2.5	0.1
150°-160°	1.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	952.9	22.5
0°-40°	1563.4	36.9
0°-60°	2821.1	66.7
0°-90°	3915.8	92.5
90°-120°	276.9	6.5
90°-150°	313.9	7.4
90°-180°	315.0	7.4
0°-180°	4231.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1214	1230	1221	1221	1231	115
15°	1163	1179	1176	1183	1193	328
25°	1069	1087	1091	1104	1115	492
35°	937	957	972	996	1013	586
45°	780	804	834	873	893	602
55°	601	634	685	736	758	537
65°	409	455	523	584	608	405
75°	211	273	357	424	450	224
85°	46	119	207	274	298	53
90°	15	78	162	225	248	9
95°	13	57	135	192	215	10
105°	11	29	88	135	153	11
115°	8	11	51	87	102	8
125°	5	6	24	49	60	5
135°	3	4	5	20	27	3
145°	3	3	3	4	5	2
155°	2	2	2	3	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°	1229	1229	1229	1229	1229
2.5°	1220	1234	1225	1225	1229
5°	1214	1230	1221	1221	1231
7.5°	1206	1222	1213	1215	1226
10°	1195	1210	1203	1206	1215
12.5°	1181	1197	1192	1194	1205
15°	1163	1179	1176	1183	1193
17.5°	1144	1160	1158	1168	1177
20°	1121	1138	1139	1148	1159
22.5°	1096	1113	1116	1125	1138
25°	1069	1087	1091	1104	1115
27.5°	1039	1057	1064	1079	1091
30°	1007	1025	1035	1053	1065
32.5°	973	992	1004	1025	1041
35°	937	957	972	996	1013
37.5°	900	921	940	967	984
40°	863	883	905	937	954
42.5°	821	845	871	906	924
45°	780	804	834	873	893
47.5°	737	763	799	840	861
50°	693	722	761	806	829
52.5°	648	678	723	771	794
55°	601	634	685	736	758
57.5°	554	590	645	699	722
60°	505	545	605	662	685
62.5°	459	500	565	623	649
65°	409	455	523	584	608
67.5°	360	408	482	545	569
70°	310	363	439	505	531
72.5°	262	317	400	464	489
75°	211	273	357	424	450
77.5°	164	229	318	384	409
80°	119	188	277	344	370
82.5°	79	151	241	308	333
85°	46	119	207	274	298
87.5°	24	94	181	245	269
90°	15	78	162	225	248
92.5°	14	67	148	208	231
95°	13	57	135	192	215
97.5°	12	49	122	177	198
100°	12	42	110	163	183
102.5°	11	35	98	148	168
105°	11	29	88	135	153
107.5°	10	24	78	122	140
110°	9	19	68	110	127



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9	15	59	98	114
115°	8	11	51	87	102
117.5°	8	9	44	77	91
120°	7	8	36	67	80
122.5°	6	7	30	58	70
125°	5	6	24	49	60
127.5°	4	6	18	41	51
130°	4	5	13	33	42
132.5°	4	5	8	26	34
135°	3	4	5	20	27
137.5°	3	4	5	14	20
140°	3	3	4	9	14
142.5°	3	3	4	5	8
145°	3	3	3	4	5
147.5°	3	2	3	4	4
150°	3	2	3	4	4
152.5°	2	2	3	3	4
155°	2	2	2	3	3
157.5°	3	2	2	3	3
160°	3	2	2	2	3
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)