

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: P798322

Luminaire Tested: 4VT3-SL3C3-G-UNV-MID-3500K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2307-102-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4VT3-SL3C3-G-UNV-MID-3500K  
Description: Vaportite LED Selectable  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

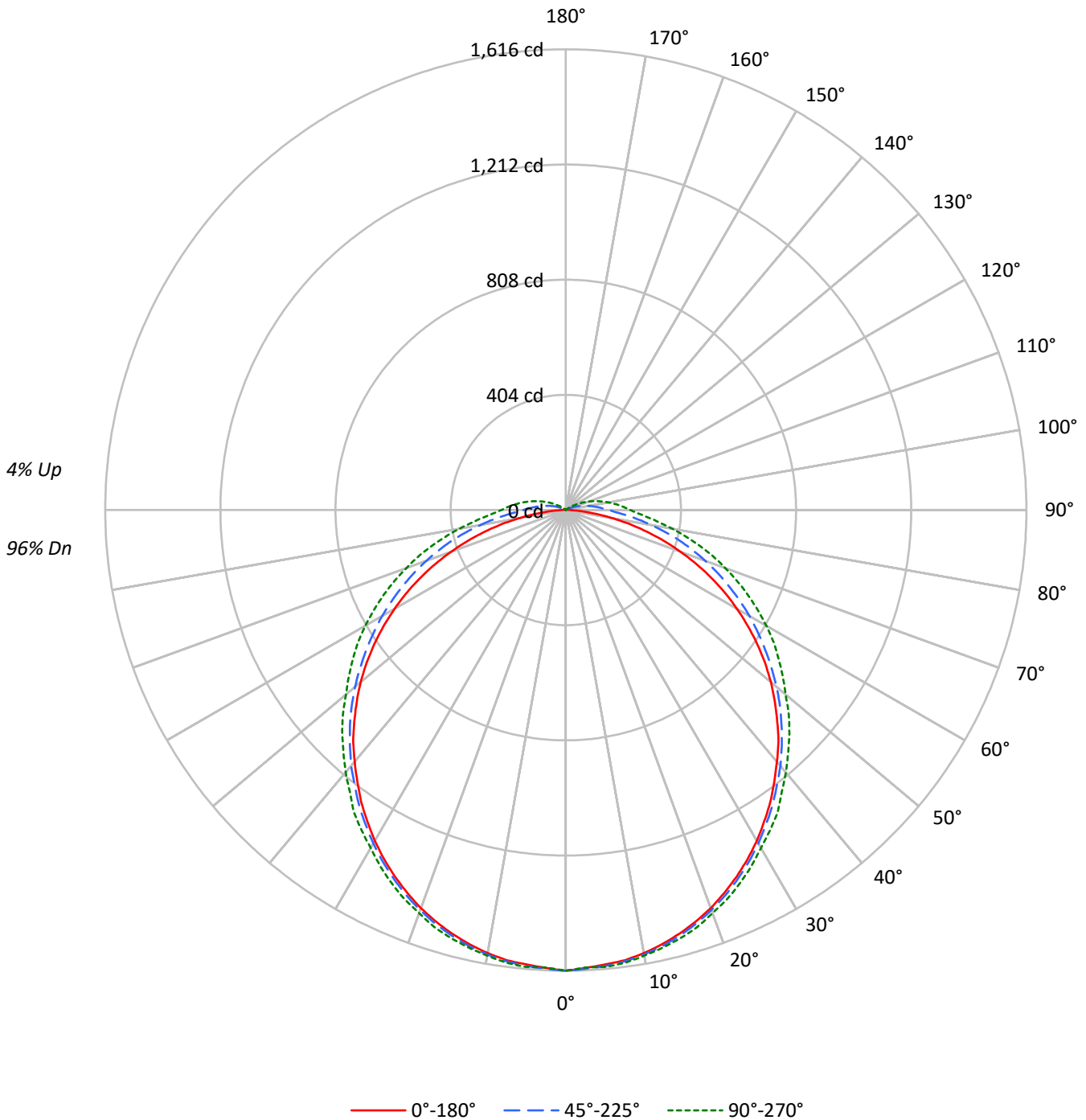
Lumens per Lamp: N/A  
Luminaire Lumens: 5128.9 lumens  
Efficiency: N/A  
Efficacy: 140.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.5  
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	50	30	10	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	96
1	107	101	96	92	103	99	94	90	93	90	87	89	86	83	85	82	80	85	82	80	78
2	96	88	80	74	93	85	79	73	81	75	71	77	72	68	73	70	66	73	70	66	64
3	88	77	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56	65	60	56	53
4	80	68	58	51	77	66	57	51	63	56	50	60	54	49	57	52	47	57	52	47	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	52	46	41	52	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	32	43	37	32	43	37	32	30
8	58	45	36	30	57	44	36	30	42	35	29	41	34	29	39	33	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	26	37	31	26	36	30	26	36	30	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	34	28	23	34	28	23	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8697	8697	8697
5°	8645	8672	8689
10°	8625	8653	8676
15°	8574	8612	8663
20°	8512	8555	8617
25°	8423	8478	8582
30°	8326	8393	8508
35°	8219	8307	8510
40°	8094	8230	8441
45°	7985	8151	8444
50°	7865	8083	8426
55°	7691	8013	8556
60°	7471	8012	8742
65°	7176	8039	8978
70°	6746	8195	9368
75°	6147	8565	10133
80°	5191	9447	11781
85°	3927	13184	17735

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 30994 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.0	3.0
10°-20°	437.6	8.5
20°-30°	660.7	12.9
30°-40°	795.4	15.5
40°-50°	831.7	16.2
50°-60°	771.0	15.0
60°-70°	627.3	12.2
70°-80°	425.2	8.3
80°-90°	221.6	4.3
90°-100°	115.9	2.3
100°-110°	60.9	1.2
110°-120°	23.9	0.5
120°-130°	4.7	0.1
130°-140°	0.2	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1251.3	24.4
0°-40°	2046.7	39.9
0°-60°	3649.4	71.2
0°-90°	4923.4	96.0
90°-120°	200.7	3.9
90°-150°	205.5	4.0
90°-180°	206.0	4.0
0°-180°	5128.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1600	1620	1605	1610	1608	152
15°	1539	1556	1546	1556	1555	434
25°	1418	1438	1428	1438	1445	654
35°	1251	1269	1264	1282	1295	782
45°	1049	1068	1071	1095	1109	810
55°	820	836	854	892	912	732
65°	564	584	631	682	705	557
75°	296	339	412	466	487	313
85°	64	131	214	270	287	74
90°	14	70	148	205	225	9
95°	9	42	113	168	189	7
105°	4	8	55	102	119	4
115°	2	2	16	46	59	2
125°	1	1	0	9	15	1
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1616.0	1616.0	1616.0	1616.0	1616.0
2.5°	1607.6	1625.2	1610.9	1616.0	1605.9
5°	1600.1	1620.2	1605.1	1610.1	1608.4
7.5°	1592.5	1610.1	1596.7	1602.6	1601.7
10°	1578.3	1595.9	1583.3	1589.2	1587.5
12.5°	1559.9	1578.3	1566.6	1574.1	1572.4
15°	1538.9	1556.5	1545.6	1555.7	1554.8
17.5°	1513.8	1533.1	1521.4	1532.2	1533.9
20°	1486.2	1503.8	1493.7	1502.9	1504.6
22.5°	1453.5	1472.0	1462.7	1472.8	1477.8
25°	1418.4	1437.6	1427.6	1438.5	1445.2
27.5°	1380.7	1399.1	1390.7	1400.8	1409.2
30°	1339.7	1357.2	1350.5	1363.1	1369.0
32.5°	1295.3	1315.4	1307.8	1324.6	1333.0
35°	1250.9	1269.3	1264.3	1281.9	1295.3
37.5°	1201.5	1221.6	1216.6	1235.8	1245.0
40°	1152.1	1172.2	1171.4	1189.8	1201.5
42.5°	1104.4	1118.6	1121.1	1144.6	1154.6
45°	1049.1	1067.5	1070.9	1095.2	1109.4
47.5°	994.7	1012.3	1019.0	1043.3	1060.8
50°	939.4	955.3	965.4	992.2	1006.4
52.5°	880.8	895.9	909.3	941.9	959.5
55°	819.7	835.6	854.0	892.5	911.8
57.5°	757.7	774.5	798.8	840.6	864.9
60°	694.1	715.0	744.3	787.9	812.2
62.5°	629.6	650.6	687.4	734.3	758.6
65°	563.5	584.4	631.3	681.6	705.0
67.5°	496.5	523.3	576.1	629.6	650.6
70°	428.7	459.7	520.8	575.2	595.3
72.5°	361.7	398.5	466.4	520.8	542.6
75°	295.6	339.1	411.9	465.5	487.3
77.5°	230.3	281.3	357.5	411.9	432.0
80°	167.5	226.1	304.8	360.0	380.1
82.5°	110.5	176.7	257.9	313.1	329.9
85°	63.6	130.6	213.5	269.6	287.2
87.5°	29.3	93.8	175.8	231.9	251.2
90°	14.2	69.5	148.2	205.1	225.2
92.5°	10.9	54.4	129.8	186.7	206.8
95°	9.2	41.9	113.0	168.3	189.2
97.5°	7.5	30.1	97.1	150.7	170.8
100°	5.9	20.9	82.9	134.0	153.2
102.5°	5.0	13.4	68.7	117.2	134.8
105°	4.2	8.4	55.3	102.1	118.9
107.5°	3.3	5.0	43.5	86.2	102.1
110°	2.5	2.5	32.7	72.0	87.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	2.5	23.4	57.8	72.0
115°	1.7	1.7	15.9	46.1	58.6
117.5°	1.7	1.7	9.2	34.3	45.2
120°	0.8	0.8	4.2	23.4	33.5
122.5°	0.8	0.8	0.8	15.9	23.4
125°	0.8	0.8	0.0	9.2	15.1
127.5°	0.8	0.8	0.0	4.2	8.4
130°	0.8	0.8	0.0	0.8	3.3
132.5°	0.8	0.8	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)