

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: P798325

Luminaire Tested: 4VT3-SL3C3-W-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P233292)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4VT3-SL3C3-W-UNV-HIGH-3500K
Description: Vaportite LED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

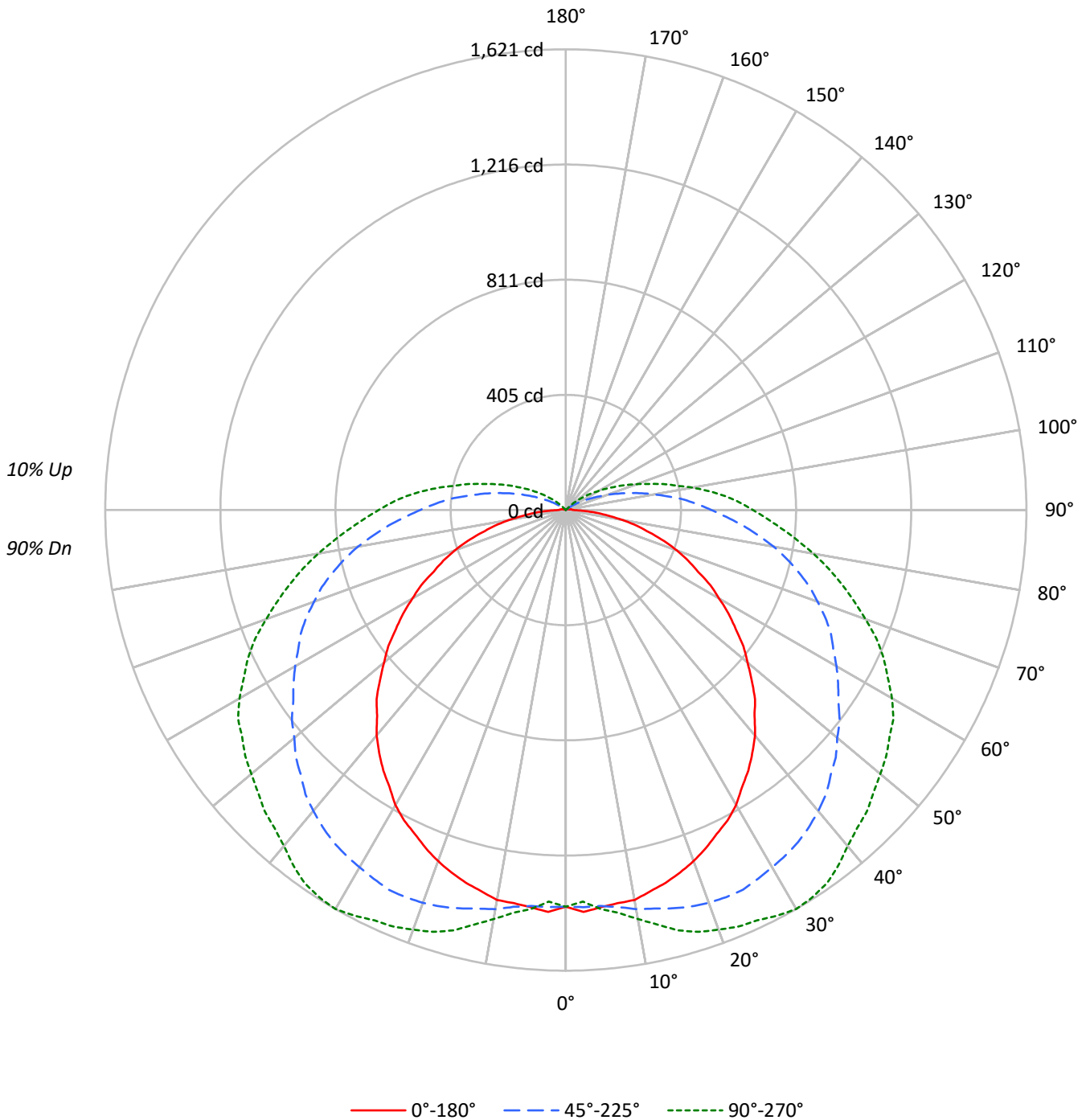
Lumens per Lamp: N/A
Luminaire Lumens: 7129.0 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.66
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (A_{in}): 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: P798325
CATALOG NUMBER: 4VT3-SL3C3-W-UNV-HIGH-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P798325

CATALOG NUMBER: 4VT3-SL3C3-W-UNV-HIGH-3500K

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	113	113	113	113	105	105	105	99	99	99	93	93	93	93	93	93	90
1	103	96	91	86	99	93	88	83	87	83	79	81	78	74	76	73	70	76	73	70	67
2	92	82	74	67	88	79	72	65	74	67	62	69	64	59	64	60	56	64	60	56	53
3	83	71	61	54	79	68	60	53	64	56	50	59	53	48	55	50	46	55	50	46	43
4	75	62	52	44	72	60	51	44	56	48	42	52	46	40	49	43	38	49	43	38	36
5	69	55	45	38	66	53	44	37	50	42	35	46	40	34	43	38	33	43	38	33	30
6	63	49	39	32	61	47	38	32	44	36	31	42	35	29	39	33	28	39	33	28	26
7	58	44	35	28	56	43	34	28	40	32	27	38	31	26	36	29	25	36	29	25	23
8	54	40	31	25	52	39	30	24	37	29	24	34	28	23	33	26	22	33	26	22	20
9	51	36	28	22	49	35	27	22	33	26	21	32	25	20	30	24	20	30	24	20	18
10	47	33	25	20	45	33	25	19	31	24	19	29	23	18	28	22	18	28	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7511	7511	7511
5°	7582	7556	7613
10°	7613	7793	7986
15°	7565	8084	8532
20°	7527	8425	8999
25°	7466	8754	9460
30°	7450	9022	10074
35°	7354	9369	10529
40°	7277	9709	10842
45°	7168	10034	11409
50°	6991	10440	12095
55°	6848	10984	13049
60°	6707	11840	14269
65°	6534	13109	15715
70°	6545	14833	17651
75°	6326	17648	20886
80°	6273	23044	27426
85°	6397	38625	47202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 87480 cd/sqm



TEST NUMBER: P798325
 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-HIGH-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	1.9
10°-20°	410.6	5.8
20°-30°	670.3	9.4
30°-40°	873.5	12.3
40°-50°	980.5	13.8
50°-60°	1002.5	14.1
60°-70°	941.4	13.2
70°-80°	795.7	11.2
80°-90°	589.3	8.3
90°-100°	385.6	5.4
100°-110°	212.7	3.0
110°-120°	96.3	1.4
120°-130°	32.1	0.5
130°-140°	3.9	0.1
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°	1215.5	17.1
0°-40°	2089.0	29.3
0°-60°	4072.0	57.1
0°-90°	6398.4	89.8
90°-120°	694.6	9.7
90°-150°	730.6	10.2
90°-180°	731.0	10.3
0°-180°	7129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1403	1402	1399	1410	1409	134
15°	1358	1390	1451	1515	1531	383
25°	1257	1337	1474	1570	1593	581
35°	1119	1230	1426	1574	1603	700
45°	942	1082	1318	1458	1499	723
55°	730	902	1171	1342	1391	654
65°	513	708	1029	1196	1234	513
75°	304	533	849	979	1004	325
85°	104	359	626	742	764	104
90°	26	268	512	630	658	18
95°	20	192	418	525	563	15
105°	10	59	230	324	353	11
115°	5	6	96	176	194	5
125°	2	2	20	71	88	2
135°	1	0	0	5	14	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



TEST NUMBER: P798325

CATALOG NUMBER: 4VT3-SL3C3-W-UNV-HIGH-3500K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1395.5	1395.5	1395.5	1395.5	1395.5	1395.5	1395.5	1395.5	1395.5	1395.5	1395.5
2.5°	1415.5	1398.6	1399.4	1397.2	1397.2	1406.6	1404.2	1397.8	1399.4	1396.3	1398.6
5°	1403.4	1395.5	1396.3	1401.0	1400.2	1401.8	1403.4	1399.4	1406.6	1404.2	1398.6
7.5°	1395.5	1389.1	1390.7	1384.3	1397.2	1400.2	1400.2	1397.8	1405.0	1407.4	1408.3
10°	1393.1	1381.1	1385.9	1376.2	1389.1	1403.4	1401.0	1409.9	1415.5	1421.1	1426.0
12.5°	1373.8	1369.0	1366.6	1373.8	1391.5	1402.6	1395.5	1401.8	1417.1	1427.6	1436.4
15°	1357.7	1356.1	1355.3	1362.6	1370.6	1389.9	1392.3	1409.1	1430.0	1435.6	1450.9
17.5°	1337.6	1332.8	1336.0	1341.6	1367.4	1379.5	1390.7	1402.6	1431.6	1442.8	1463.0
20°	1314.3	1311.2	1321.5	1328.8	1352.9	1367.4	1381.1	1400.2	1421.9	1449.3	1471.0
22.5°	1287.9	1286.3	1295.1	1309.6	1340.8	1354.5	1364.2	1390.7	1424.3	1446.9	1474.2
25°	1257.3	1257.3	1267.0	1290.3	1327.2	1336.8	1352.1	1375.4	1406.6	1435.6	1474.2
27.5°	1231.6	1231.6	1240.4	1263.8	1294.3	1319.9	1339.2	1356.1	1397.2	1429.2	1463.0
30°	1198.8	1202.8	1210.0	1231.6	1269.4	1291.9	1309.6	1342.5	1381.9	1417.1	1451.7
32.5°	1154.5	1156.1	1174.6	1201.2	1239.6	1262.2	1286.3	1319.1	1370.6	1392.3	1440.4
35°	1119.3	1119.3	1136.2	1163.4	1213.3	1230.0	1253.3	1291.9	1337.6	1377.0	1426.0
37.5°	1078.3	1079.1	1101.6	1138.6	1177.9	1199.6	1222.1	1264.6	1310.4	1351.3	1405.8
40°	1035.8	1042.2	1053.5	1090.3	1137.0	1163.4	1182.7	1230.8	1289.5	1329.6	1381.9
42.5°	982.7	989.9	1010.1	1047.9	1092.8	1129.8	1152.9	1195.6	1250.1	1304.0	1356.1
45°	941.8	945.9	965.2	1002.8	1053.5	1082.3	1105.6	1159.4	1216.5	1269.4	1318.3
47.5°	887.3	896.0	915.3	957.9	1011.7	1043.8	1063.8	1116.9	1177.9	1228.4	1288.7
50°	835.0	842.2	869.6	908.1	967.6	994.8	1022.1	1075.1	1144.1	1198.0	1246.9
52.5°	787.7	793.3	817.3	863.2	915.3	951.5	973.2	1035.0	1103.2	1156.9	1214.9
55°	729.8	743.5	767.6	813.3	872.8	901.6	922.5	987.5	1056.7	1119.3	1170.6
57.5°	679.3	692.9	717.9	766.0	823.7	851.1	884.1	948.3	1011.7	1077.5	1136.2
60°	623.1	637.4	665.6	718.7	776.4	804.6	832.6	902.4	970.8	1032.6	1100.0
62.5°	574.0	584.5	618.3	662.4	721.7	754.7	786.1	855.1	936.2	999.6	1061.4
65°	513.1	534.8	565.2	617.5	676.1	708.2	742.7	813.3	885.7	956.3	1029.4
67.5°	466.4	479.3	515.5	564.4	627.1	665.6	697.0	776.4	849.5	919.3	988.3
70°	415.9	428.0	463.4	515.5	581.3	615.1	657.5	733.0	814.1	880.1	942.6
72.5°	363.0	377.4	411.1	465.0	537.2	576.5	612.7	693.7	777.3	837.4	900.0
75°	304.2	326.0	365.4	417.5	491.4	533.2	569.2	655.1	729.8	791.7	848.7
77.5°	255.3	272.2	316.3	380.7	455.3	493.0	531.6	613.5	687.3	744.3	797.4
80°	202.4	225.6	265.0	332.4	407.9	447.3	487.3	564.4	635.2	692.1	743.5
82.5°	150.1	171.0	219.9	289.9	367.0	404.6	438.4	513.9	582.1	639.0	683.3
85°	103.6	122.9	177.5	248.1	321.1	358.9	392.6	468.8	530.8	578.1	625.5
87.5°	57.8	83.5	139.7	206.4	278.7	314.7	345.3	416.7	474.5	525.1	566.0
90°	26.5	52.9	102.8	167.0	233.6	268.2	300.2	364.6	423.9	468.0	512.3
92.5°	22.5	32.2	76.3	134.0	198.4	229.6	261.8	321.9	374.2	423.9	463.4
95°	20.1	21.7	49.7	103.6	160.6	191.9	220.7	278.7	328.4	375.0	418.3
97.5°	17.7	17.7	30.6	73.0	127.6	153.3	180.7	236.8	283.5	327.6	365.4
100°	14.5	15.3	17.7	47.3	92.3	117.3	144.5	193.5	240.0	281.9	315.5
102.5°	12.9	12.9	13.7	29.0	63.4	85.9	110.0	153.3	200.0	236.8	273.0
105°	10.5	11.3	11.3	15.3	42.5	59.4	79.5	121.3	159.8	196.8	229.6
107.5°	8.8	8.8	8.8	9.7	25.7	38.6	54.5	88.3	125.3	160.6	191.1
110°	7.2	7.2	7.2	8.0	12.1	22.5	35.4	62.6	94.8	128.4	154.9



TEST NUMBER: P798325
 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-HIGH-3500K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	5.6	6.4	6.4	6.4	7.2	10.5	20.1	44.9	69.0	98.0	122.9
115°	4.8	4.8	4.8	4.8	5.6	5.6	8.0	26.5	49.7	72.2	96.4
117.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	12.9	33.0	52.1	72.2
120°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.8	17.7	36.2	52.1
122.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	20.1	35.4
125°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	6.4	20.1
127.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	1.6	7.2
130°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8
132.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P798325

CATALOG NUMBER: 4VT3-SL3C3-W-UNV-HIGH-3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1395.5	1395.5	1395.5	1395.5	1395.5	1395.5	1395.5	1395.5	1395.5	1395.5
2.5°	1385.1	1391.5	1399.4	1402.6	1396.3	1401.8	1401.8	1393.9	1394.7	1378.7
5°	1392.3	1404.2	1415.5	1409.1	1409.9	1409.1	1417.9	1411.5	1409.1	1409.1
7.5°	1411.5	1421.9	1424.3	1431.6	1430.8	1438.8	1431.6	1438.0	1435.6	1430.0
10°	1431.6	1436.4	1442.8	1462.2	1463.8	1460.5	1472.6	1463.0	1463.8	1461.3
12.5°	1441.2	1468.6	1469.4	1488.5	1484.5	1496.6	1498.2	1501.4	1502.2	1494.2
15°	1464.6	1483.7	1499.0	1515.1	1515.1	1524.7	1533.6	1532.8	1533.6	1531.2
17.5°	1479.8	1509.5	1519.9	1533.6	1539.2	1549.7	1554.5	1562.5	1560.1	1556.1
20°	1491.0	1513.5	1536.8	1551.3	1548.9	1561.7	1574.5	1561.7	1570.4	1571.2
22.5°	1487.7	1523.1	1540.0	1558.5	1565.8	1570.4	1580.9	1590.5	1590.5	1586.5
25°	1490.1	1520.7	1546.5	1565.0	1570.4	1581.7	1595.4	1598.6	1603.4	1593.0
27.5°	1486.1	1521.5	1548.9	1568.8	1568.8	1593.0	1598.6	1612.3	1616.3	1609.0
30°	1487.7	1519.1	1544.8	1576.9	1584.1	1597.0	1611.5	1621.1	1619.5	1621.1
32.5°	1476.6	1512.7	1542.4	1576.9	1588.1	1595.4	1612.3	1613.9	1612.3	1615.5
35°	1457.3	1501.4	1546.5	1565.0	1574.5	1588.9	1593.0	1601.0	1614.7	1602.6
37.5°	1445.3	1488.5	1512.7	1541.6	1552.1	1564.2	1572.8	1574.5	1576.9	1576.1
40°	1422.7	1463.8	1485.3	1515.1	1519.1	1538.4	1532.8	1540.8	1548.1	1543.2
42.5°	1398.6	1431.6	1460.5	1481.5	1491.0	1495.8	1511.1	1514.3	1523.1	1517.5
45°	1361.0	1396.3	1427.6	1450.1	1458.1	1474.2	1481.5	1486.9	1495.8	1499.0
47.5°	1330.4	1365.8	1397.8	1430.8	1429.2	1447.7	1461.3	1458.9	1466.2	1469.4
50°	1289.5	1332.8	1372.2	1395.5	1403.4	1421.1	1426.8	1442.8	1450.1	1444.5
52.5°	1256.5	1304.0	1328.8	1367.4	1377.0	1391.5	1407.4	1409.1	1424.3	1421.9
55°	1222.9	1265.4	1305.6	1330.4	1341.6	1360.1	1371.4	1377.8	1384.3	1390.7
57.5°	1180.3	1234.8	1268.6	1300.0	1312.0	1323.9	1340.8	1348.9	1362.6	1367.4
60°	1147.3	1203.6	1231.6	1267.8	1279.9	1293.5	1305.6	1312.7	1323.1	1325.6
62.5°	1112.1	1162.6	1197.2	1230.8	1242.1	1253.3	1267.0	1279.1	1283.1	1277.5
65°	1071.0	1122.5	1153.7	1187.5	1196.4	1218.1	1214.1	1226.1	1230.8	1234.0
67.5°	1032.6	1089.5	1113.7	1133.8	1154.5	1152.1	1168.2	1167.4	1177.1	1183.5
70°	986.7	1031.8	1054.3	1083.9	1089.5	1096.8	1109.6	1112.9	1118.5	1121.7
72.5°	939.4	985.9	1006.0	1026.9	1040.6	1039.8	1048.7	1055.1	1062.2	1063.0
75°	892.8	923.3	948.3	968.4	978.7	980.3	991.6	989.9	1006.8	1004.4
77.5°	839.0	872.8	888.9	908.9	917.7	926.6	932.2	937.0	939.4	945.9
80°	775.6	815.7	827.8	849.5	855.9	865.6	868.0	878.4	882.5	884.9
82.5°	721.7	748.3	766.8	788.5	803.0	801.4	811.7	818.1	822.9	822.9
85°	661.6	692.1	709.0	728.2	741.9	744.3	754.7	754.7	761.2	764.4
87.5°	599.0	635.8	649.5	670.4	685.7	683.3	690.5	700.2	703.4	709.0
90°	543.6	573.2	595.8	615.9	629.6	631.2	639.0	647.1	648.7	658.4
92.5°	498.6	523.5	547.7	568.4	573.2	579.7	586.9	599.8	602.2	611.9
95°	446.5	476.9	496.2	517.1	525.1	530.0	538.0	547.7	555.5	562.8
97.5°	399.0	426.4	447.3	463.4	474.5	477.7	488.1	494.6	500.2	508.2
100°	348.5	372.6	395.0	413.5	422.3	424.7	436.0	440.8	445.7	452.9
102.5°	301.8	330.8	343.7	363.8	371.0	375.0	382.9	393.4	394.2	396.6
105°	254.5	282.7	301.0	315.5	324.4	327.6	335.6	346.9	347.7	353.3
107.5°	217.5	241.7	260.2	275.4	284.3	287.5	293.9	297.8	303.4	305.0
110°	181.5	203.2	221.5	234.4	241.7	248.1	255.3	261.8	265.0	265.8



TEST NUMBER: P798325
 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-HIGH-3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	146.9	167.8	183.9	200.0	206.4	211.2	218.3	226.4	230.4	230.4
115°	118.1	137.2	154.1	167.0	175.9	178.3	184.7	191.1	194.4	194.4
117.5°	90.7	110.9	126.1	137.2	143.7	146.9	154.9	161.4	163.8	165.4
120°	69.0	85.1	99.6	111.7	115.7	121.3	126.9	132.4	135.6	135.6
122.5°	50.5	65.0	75.5	85.9	93.2	94.8	102.0	108.4	110.0	111.7
125°	34.6	46.5	57.0	65.8	71.4	73.0	78.7	84.3	85.9	87.5
127.5°	17.7	29.8	39.4	48.1	52.1	55.3	60.2	65.0	66.6	67.4
130°	4.8	13.7	23.3	31.4	34.6	37.0	42.5	45.7	48.9	48.1
132.5°	0.0	2.4	8.0	15.3	17.7	20.9	25.7	29.0	30.6	32.2
135°	0.0	0.0	0.8	3.2	4.8	6.4	9.7	13.7	13.7	13.7
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)