

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: P798326

Luminaire Tested: 4VT3-SL3C3-W-UNV-HIGH-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798326  
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-4000K  
Description: Vaportite LED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

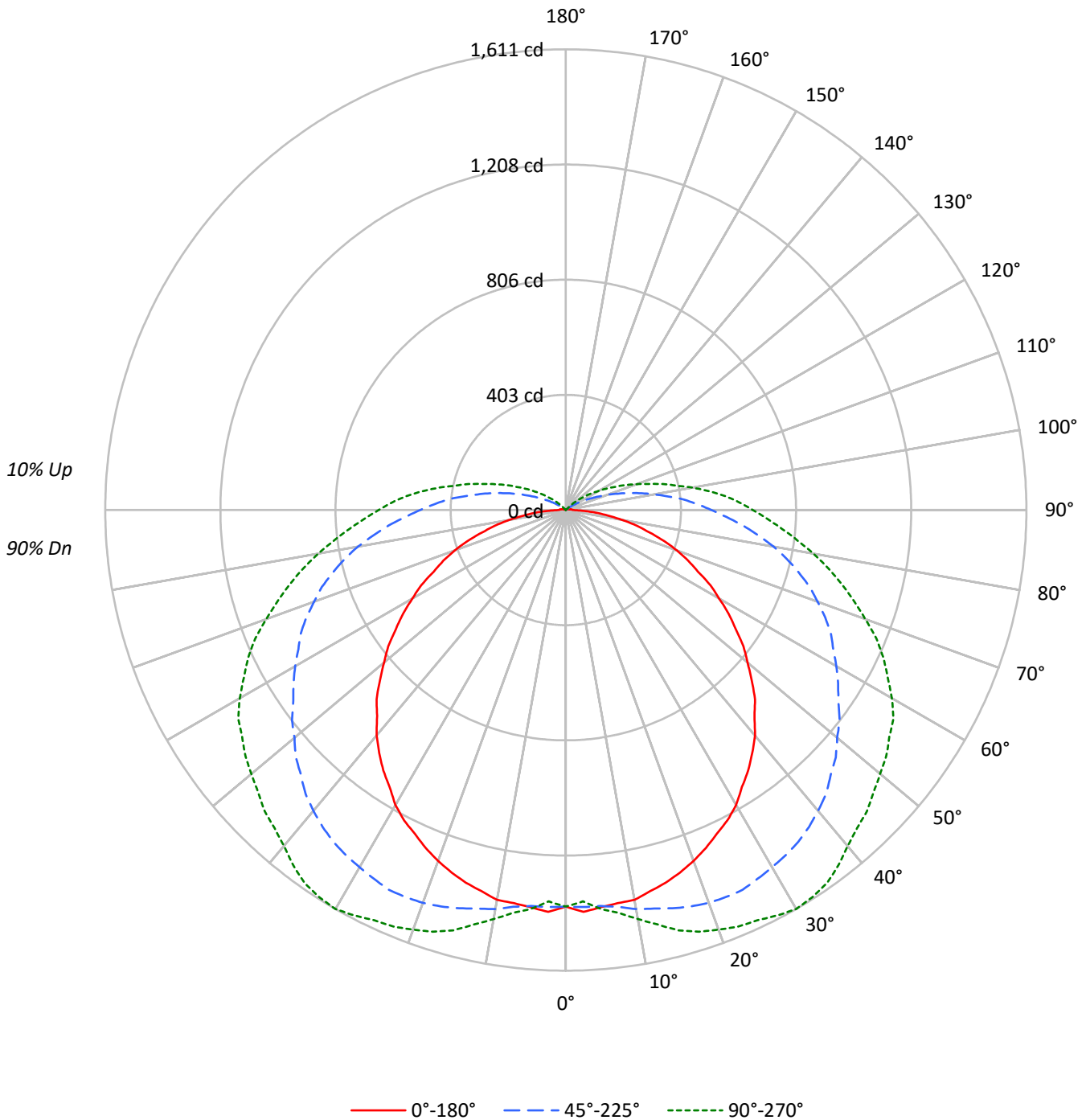
Lumens per Lamp: N/A  
Luminaire Lumens: 7083.8 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.66  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 50.2  
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	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°	7463	7463	7463
5°	7534	7508	7564
10°	7565	7743	7936
15°	7517	8033	8478
20°	7480	8372	8942
25°	7419	8699	9399
30°	7403	8964	10010
35°	7307	9309	10462
40°	7231	9647	10774
45°	7123	9971	11337
50°	6947	10374	12018
55°	6805	10914	12967
60°	6665	11765	14177
65°	6492	13025	15615
70°	6504	14740	17539
75°	6286	17536	20755
80°	6233	22895	27253
85°	6360	38384	46900

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 86924 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	1.9
10°-20°	407.9	5.8
20°-30°	666.0	9.4
30°-40°	867.9	12.3
40°-50°	974.3	13.8
50°-60°	996.1	14.1
60°-70°	935.5	13.2
70°-80°	790.7	11.2
80°-90°	585.5	8.3
90°-100°	383.2	5.4
100°-110°	211.3	3.0
110°-120°	95.7	1.4
120°-130°	31.9	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°	1207.8	17.1
0°-40°	2075.8	29.3
0°-60°	4046.2	57.1
0°-90°	6357.8	89.8
90°-120°	690.2	9.7
90°-150°	726.0	10.2
90°-180°	726.0	10.2
0°-180°	7083.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1394	1393	1390	1401	1400	133
15°	1349	1381	1442	1506	1522	381
25°	1249	1328	1465	1560	1583	577
35°	1112	1222	1417	1564	1592	696
45°	936	1075	1310	1449	1490	719
55°	725	896	1163	1333	1382	650
65°	510	704	1023	1189	1226	510
75°	302	530	843	972	998	323
85°	103	357	622	737	760	104
90°	26	266	509	626	654	18
95°	20	191	416	522	559	15
105°	10	59	228	322	351	11
115°	5	6	96	175	193	5
125°	2	2	20	71	87	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: P798326

CATALOG NUMBER: 4VT3-SL3C3-W-UNV-HIGH-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7
2.5°	1406.5	1389.7	1390.5	1388.3	1388.3	1397.7	1395.3	1388.9	1390.5	1387.5	1389.7
5°	1394.5	1386.7	1387.5	1392.1	1391.3	1392.9	1394.5	1390.5	1397.7	1395.3	1389.7
7.5°	1386.7	1380.3	1381.9	1375.5	1388.3	1391.3	1391.3	1388.9	1396.1	1398.5	1399.3
10°	1384.3	1372.3	1377.1	1367.5	1380.3	1394.5	1392.1	1400.9	1406.5	1412.1	1416.9
12.5°	1365.1	1360.3	1357.9	1365.1	1382.7	1393.7	1386.7	1392.9	1408.1	1418.5	1427.3
15°	1349.1	1347.5	1346.7	1353.9	1361.9	1381.1	1383.5	1400.1	1420.9	1426.5	1441.7
17.5°	1329.1	1324.3	1327.5	1333.1	1358.7	1370.7	1381.9	1393.7	1422.5	1433.7	1453.7
20°	1306.0	1302.9	1313.2	1320.3	1344.3	1358.7	1372.3	1391.3	1412.9	1440.1	1461.7
22.5°	1279.7	1278.1	1286.9	1301.3	1332.3	1345.9	1355.5	1381.9	1415.3	1437.7	1464.9
25°	1249.4	1249.4	1259.0	1282.1	1318.7	1328.3	1343.5	1366.7	1397.7	1426.5	1464.9
27.5°	1223.8	1223.8	1232.6	1255.8	1286.1	1311.6	1330.7	1347.5	1388.3	1420.1	1453.7
30°	1191.2	1195.2	1202.4	1223.8	1261.4	1283.7	1301.3	1333.9	1373.1	1408.1	1442.5
32.5°	1147.2	1148.8	1167.2	1193.6	1231.8	1254.2	1278.1	1310.8	1361.9	1383.5	1431.3
35°	1112.2	1112.2	1129.0	1156.0	1205.6	1222.2	1245.4	1283.7	1329.1	1368.3	1416.9
37.5°	1071.4	1072.2	1094.6	1131.4	1170.4	1192.0	1214.4	1256.6	1302.1	1342.7	1396.9
40°	1029.2	1035.6	1046.8	1083.4	1129.8	1156.0	1175.2	1223.0	1281.3	1321.1	1373.1
42.5°	976.5	983.7	1003.6	1041.2	1085.8	1122.6	1145.6	1188.0	1242.2	1295.7	1347.5
45°	935.9	939.9	959.0	996.5	1046.8	1075.4	1098.6	1152.0	1208.8	1261.4	1310.0
47.5°	881.7	890.3	909.5	951.9	1005.2	1037.2	1057.0	1109.8	1170.4	1220.6	1280.5
50°	829.7	836.9	864.1	902.3	961.4	988.5	1015.6	1068.2	1136.8	1190.4	1239.0
52.5°	782.7	788.3	812.1	857.7	909.5	945.5	967.0	1028.4	1096.2	1149.6	1207.2
55°	725.2	738.7	762.7	808.1	867.3	895.9	916.7	981.3	1050.0	1112.2	1163.2
57.5°	675.0	688.6	713.3	761.1	818.5	845.7	878.5	942.3	1005.2	1070.6	1129.0
60°	619.2	633.4	661.4	714.1	771.5	799.5	827.3	896.7	964.6	1026.0	1093.0
62.5°	570.4	580.8	614.4	658.2	717.2	749.9	781.1	849.7	930.3	993.3	1054.6
65°	509.8	531.4	561.6	613.6	671.8	703.7	737.9	808.1	880.1	950.3	1022.8
67.5°	463.5	476.2	512.2	560.8	623.2	661.4	692.5	771.5	844.1	913.5	982.1
70°	413.3	425.2	460.4	512.2	577.6	611.2	653.4	728.4	808.9	874.5	936.7
72.5°	360.7	375.0	408.5	462.0	533.8	572.8	608.8	689.3	772.3	832.1	894.3
75°	302.3	323.9	363.1	414.9	488.2	529.8	565.6	651.0	725.2	786.7	843.3
77.5°	253.7	270.5	314.3	378.2	452.4	489.8	528.2	609.6	683.0	739.5	792.3
80°	201.1	224.1	263.3	330.3	405.3	444.4	484.2	560.8	631.2	687.8	738.7
82.5°	149.2	169.9	218.5	288.1	364.7	402.1	435.6	510.6	578.4	635.0	679.0
85°	103.0	122.1	176.3	246.5	319.1	356.7	390.1	465.9	527.4	574.4	621.6
87.5°	57.4	83.0	138.8	205.1	276.9	312.7	343.1	414.1	471.4	521.8	562.4
90°	26.4	52.6	102.2	165.9	232.1	266.5	298.3	362.3	421.3	465.1	509.0
92.5°	22.4	32.0	75.8	133.2	197.1	228.1	260.1	319.9	371.9	421.3	460.4
95°	20.0	21.6	49.4	103.0	159.5	190.7	219.3	276.9	326.3	372.7	415.7
97.5°	17.6	17.6	30.4	72.6	126.8	152.4	179.5	235.3	281.7	325.5	363.1
100°	14.4	15.2	17.6	47.0	91.8	116.5	143.6	192.3	238.5	280.1	313.5
102.5°	12.8	12.8	13.6	28.8	63.0	85.4	109.3	152.4	198.7	235.3	271.3
105°	10.4	11.2	11.2	15.2	42.2	59.0	79.0	120.5	158.7	195.5	228.1
107.5°	8.8	8.8	8.8	9.6	25.6	38.4	54.2	87.8	124.5	159.5	189.9
110°	7.2	7.2	7.2	8.0	12.0	22.4	35.2	62.2	94.2	127.6	154.0



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 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-HIGH-4000K

**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	10.4	20.0	44.6	68.6	97.4	122.1
115°	4.8	4.8	4.8	4.8	5.6	5.6	8.0	26.4	49.4	71.8	95.8
117.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	12.8	32.8	51.8	71.8
120°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.8	17.6	36.0	51.8
122.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8	20.0	35.2
125°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	6.4	20.0
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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7
2.5°	1376.3	1382.7	1390.5	1393.7	1387.5	1392.9	1392.9	1385.1	1385.9	1369.9
5°	1383.5	1395.3	1406.5	1400.1	1400.9	1400.1	1408.9	1402.5	1400.1	1400.1
7.5°	1402.5	1412.9	1415.3	1422.5	1421.7	1429.7	1422.5	1428.9	1426.5	1420.9
10°	1422.5	1427.3	1433.7	1452.9	1454.5	1451.3	1463.3	1453.7	1454.5	1452.1
12.5°	1432.1	1459.3	1460.1	1479.1	1475.1	1487.1	1488.7	1491.9	1492.7	1484.7
15°	1455.3	1474.3	1489.5	1505.5	1505.5	1515.1	1523.9	1523.1	1523.9	1521.5
17.5°	1470.5	1499.9	1510.3	1523.9	1529.5	1539.8	1544.6	1552.6	1550.2	1546.2
20°	1481.5	1503.9	1527.1	1541.4	1539.0	1551.8	1564.5	1551.8	1560.5	1561.3
22.5°	1478.3	1513.5	1530.3	1548.6	1555.8	1560.5	1570.9	1580.5	1580.5	1576.5
25°	1480.7	1511.1	1536.6	1555.0	1560.5	1571.7	1585.2	1588.4	1593.2	1582.8
27.5°	1476.7	1511.9	1539.0	1558.9	1558.9	1582.8	1588.4	1602.0	1606.0	1598.8
30°	1478.3	1509.5	1535.0	1566.9	1574.1	1586.8	1601.2	1610.8	1609.2	1610.8
32.5°	1467.3	1503.1	1532.7	1566.9	1578.1	1585.2	1602.0	1603.6	1602.0	1605.2
35°	1448.1	1491.9	1536.6	1555.0	1564.5	1578.9	1582.8	1590.8	1604.4	1592.4
37.5°	1436.1	1479.1	1503.1	1531.9	1542.2	1554.2	1562.9	1564.5	1566.9	1566.1
40°	1413.7	1454.5	1475.9	1505.5	1509.5	1528.7	1523.1	1531.1	1538.2	1533.5
42.5°	1389.7	1422.5	1451.3	1472.1	1481.5	1486.3	1501.5	1504.7	1513.5	1507.9
45°	1352.3	1387.5	1418.5	1440.9	1448.9	1464.9	1472.1	1477.5	1486.3	1489.5
47.5°	1321.9	1357.1	1388.9	1421.7	1420.1	1438.5	1452.1	1449.7	1456.9	1460.1
50°	1281.3	1324.3	1363.5	1386.7	1394.5	1412.1	1417.7	1433.7	1440.9	1435.3
52.5°	1248.6	1295.7	1320.3	1358.7	1368.3	1382.7	1398.5	1400.1	1415.3	1412.9
55°	1215.2	1257.4	1297.3	1321.9	1333.1	1351.5	1362.7	1369.1	1375.5	1381.9
57.5°	1172.8	1227.0	1260.6	1291.7	1303.7	1315.6	1332.3	1340.3	1353.9	1358.7
60°	1140.0	1196.0	1223.8	1259.8	1271.7	1285.3	1297.3	1304.4	1314.8	1317.1
62.5°	1105.0	1155.2	1189.6	1223.0	1234.2	1245.4	1259.0	1270.9	1274.9	1269.3
65°	1064.2	1115.4	1146.4	1180.0	1188.8	1210.4	1206.4	1218.4	1223.0	1226.2
67.5°	1026.0	1082.6	1106.6	1126.6	1147.2	1144.8	1160.8	1160.0	1169.6	1176.0
70°	980.5	1025.2	1047.6	1077.0	1082.6	1089.8	1102.6	1105.8	1111.4	1114.6
72.5°	933.5	979.7	999.7	1020.4	1034.0	1033.2	1042.0	1048.4	1055.4	1056.2
75°	887.1	917.5	942.3	962.2	972.5	974.1	985.3	983.7	1000.5	998.1
77.5°	833.7	867.3	883.3	903.1	911.9	920.7	926.3	931.1	933.5	939.9
80°	770.7	810.5	822.5	844.1	850.5	860.1	862.5	872.9	876.9	879.3
82.5°	717.2	743.5	761.9	783.5	797.9	796.3	806.5	812.9	817.7	817.7
85°	657.4	687.8	704.5	723.6	737.1	739.5	749.9	749.9	756.3	759.5
87.5°	595.2	631.8	645.4	666.2	681.4	679.0	686.2	695.7	698.9	704.5
90°	540.2	569.6	592.0	612.0	625.6	627.2	635.0	643.0	644.6	654.2
92.5°	495.4	520.2	544.2	564.8	569.6	576.0	583.2	596.0	598.4	608.0
95°	443.6	473.8	493.0	513.8	521.8	526.6	534.6	544.2	552.0	559.2
97.5°	396.5	423.6	444.4	460.4	471.4	474.6	485.0	491.4	497.0	505.0
100°	346.3	370.3	392.5	410.9	419.7	422.1	433.2	438.0	442.8	450.0
102.5°	299.9	328.7	341.5	361.5	368.7	372.7	380.5	390.9	391.7	394.1
105°	252.9	280.9	299.1	313.5	322.3	325.5	333.5	344.7	345.5	351.1
107.5°	216.1	240.1	258.5	273.7	282.5	285.7	292.1	295.9	301.5	303.1
110°	180.3	201.9	220.1	232.9	240.1	246.5	253.7	260.1	263.3	264.1





TEST NUMBER: P798326  
 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-HIGH-4000K

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	146.0	166.7	182.7	198.7	205.1	209.9	216.9	224.9	228.9	228.9
115°	117.3	136.4	153.2	165.9	174.7	177.1	183.5	189.9	193.1	193.1
117.5°	90.2	110.1	125.3	136.4	142.8	146.0	154.0	160.3	162.7	164.3
120°	68.6	84.6	99.0	110.9	114.9	120.5	126.1	131.6	134.8	134.8
122.5°	50.2	64.6	75.0	85.4	92.6	94.2	101.4	107.8	109.3	110.9
125°	34.4	46.2	56.6	65.4	71.0	72.6	78.2	83.8	85.4	87.0
127.5°	17.6	29.6	39.2	47.8	51.8	55.0	59.8	64.6	66.2	67.0
130°	4.8	13.6	23.2	31.2	34.4	36.8	42.2	45.4	48.6	47.8
132.5°	0.0	2.4	8.0	15.2	17.6	20.8	25.6	28.8	30.4	32.0
135°	0.0	0.0	0.8	3.2	4.8	6.4	9.6	13.6	13.6	13.6
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)