

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: P798350

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P233275)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4VT3-SL3C3-P-UNV-HIGH-3500K
Description: Vaportite LED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

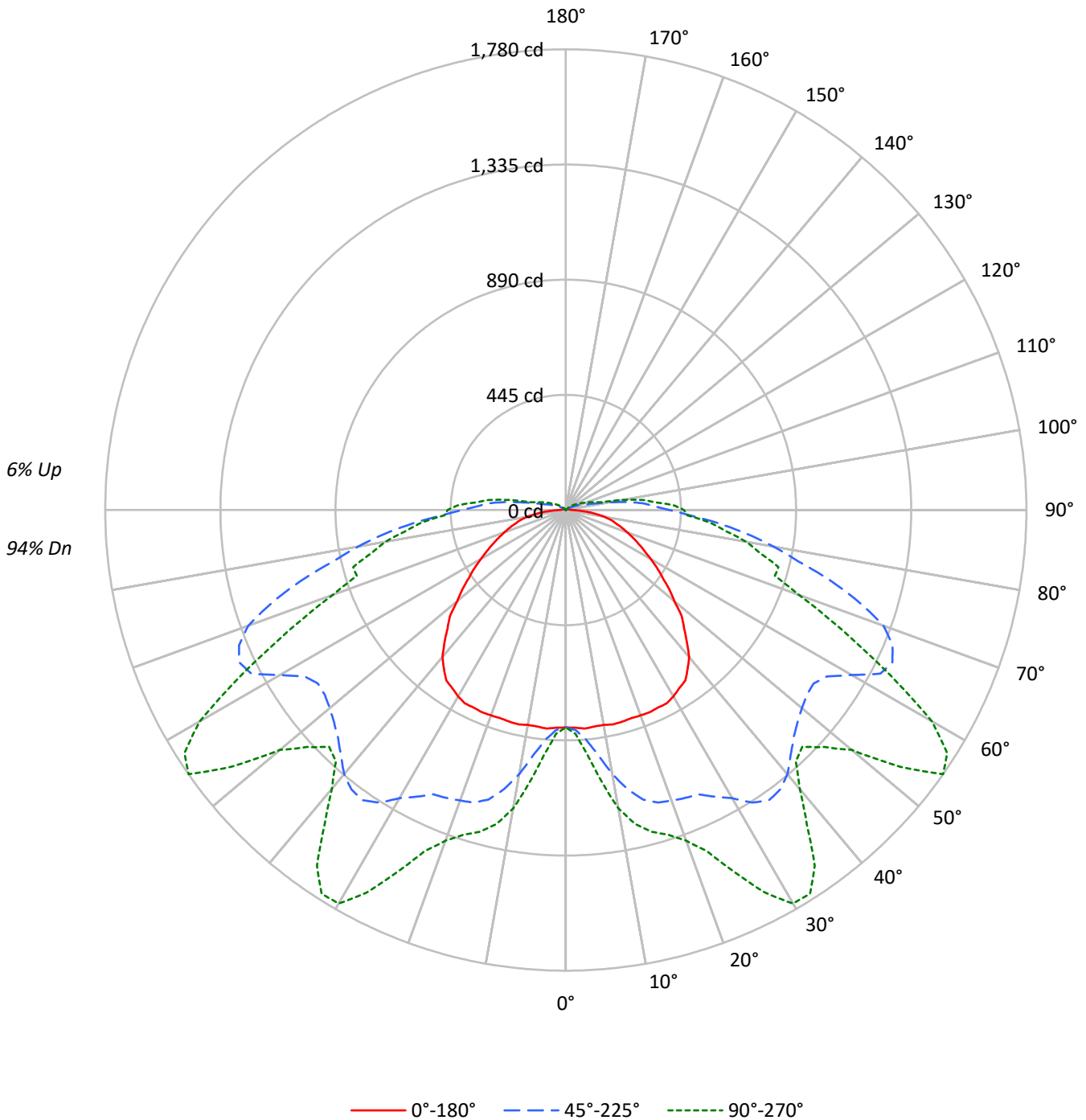
Lumens per Lamp: N/A
Luminaire Lumens: 6487.4 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 2.17 / 2.13
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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



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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	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	103	96	90	85	99	93	88	83	88	83	79	82	79	75	78	75	72	78	75	72	69
2	91	81	72	65	88	78	70	64	74	67	61	69	64	59	65	60	56	65	60	56	54
3	82	69	59	52	79	67	58	51	63	55	49	59	53	47	56	50	45	56	50	45	43
4	74	60	50	42	71	58	49	41	55	47	40	52	44	39	49	42	37	49	42	37	35
5	68	53	43	35	65	51	42	35	48	40	34	46	38	33	43	37	32	43	37	32	29
6	62	47	37	30	60	46	36	29	43	35	29	41	33	28	39	32	27	39	32	27	25
7	57	42	33	26	55	41	32	25	39	31	25	37	30	24	35	28	23	35	28	23	21
8	53	38	29	23	51	37	28	22	35	27	22	33	26	21	32	25	21	32	25	21	18
9	49	35	26	20	48	34	25	20	32	25	19	31	24	19	29	23	18	29	23	18	16
10	46	32	23	18	44	31	23	18	30	22	17	28	22	17	27	21	16	27	21	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4519	4519	4519
5°	4579	4801	5114
10°	4606	5657	6396
15°	4714	6454	7171
20°	4836	6841	7786
25°	5000	7198	9168
30°	5167	7988	10909
35°	5288	8995	11016
40°	5208	9359	9879
45°	4919	9471	9845
50°	4583	9968	12069
55°	4289	10967	16697
60°	4081	13715	17587
65°	3967	17732	16083
70°	3978	20556	15059
75°	4186	22092	17692
80°	4711	25294	21953
85°	5119	36631	34544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
 Vertical Angle: 87.5°
 Luminance: 72797 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	1.4
10°-20°	315.1	4.9
20°-30°	568.7	8.8
30°-40°	803.7	12.4
40°-50°	858.6	13.2
50°-60°	1008.1	15.5
60°-70°	1019.5	15.7
70°-80°	832.1	12.8
80°-90°	571.0	8.8
90°-100°	288.5	4.4
100°-110°	85.5	1.3
110°-120°	33.6	0.5
120°-130°	11.9	0.2
130°-140°	1.7	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°	973.2	15.0
0°-40°	1776.9	27.4
0°-60°	3643.6	56.2
0°-90°	6066.3	93.5
90°-120°	407.5	6.3
90°-150°	421.1	6.5
90°-180°	421.0	6.5
0°-180°	6487.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	848	858	889	930	947	81
15°	846	973	1158	1260	1287	240
25°	842	1025	1212	1438	1544	390
35°	805	949	1369	1661	1677	498
45°	646	848	1244	1317	1294	500
55°	457	668	1169	1611	1780	412
65°	312	567	1392	1372	1263	310
75°	201	744	1062	855	851	214
85°	83	637	593	562	559	82
90°	23	472	399	439	456	16
95°	16	238	299	345	344	12
105°	8	25	87	117	114	9
115°	3	3	35	60	60	3
125°	2	1	9	27	29	1
135°	0	0	0	5	5	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: P798350

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6
2.5°	842.0	846.0	847.6	843.6	846.0	847.6	846.0	848.4	850.0	852.4	850.8
5°	847.6	846.8	850.8	846.8	851.6	858.1	861.3	870.1	874.2	884.6	888.6
7.5°	843.6	849.2	849.2	853.2	862.1	886.2	889.4	904.7	923.2	940.9	953.8
10°	842.8	849.2	860.5	871.8	887.0	907.1	920.8	949.0	983.6	1009.3	1035.1
12.5°	848.4	850.8	870.1	885.4	916.0	937.7	955.4	998.9	1035.9	1068.9	1105.1
15°	846.0	852.4	874.2	900.7	944.2	973.1	991.6	1044.7	1089.8	1121.9	1158.3
17.5°	842.8	854.9	882.2	916.8	967.5	1004.5	1024.6	1076.9	1119.5	1161.5	1184.9
20°	844.4	858.1	889.4	936.9	986.8	1022.2	1043.1	1097.0	1138.8	1174.4	1194.5
22.5°	846.0	861.3	892.7	946.6	994.0	1030.2	1052.0	1101.0	1138.0	1179.2	1204.2
25°	842.0	858.9	896.7	940.9	998.9	1024.6	1047.1	1094.6	1134.0	1181.6	1212.2
27.5°	842.8	855.7	891.1	939.3	984.4	1019.8	1031.8	1085.7	1134.8	1188.1	1248.4
30°	831.5	846.8	885.4	919.2	963.5	996.4	1015.0	1074.5	1138.8	1209.0	1285.4
32.5°	816.1	832.3	866.9	891.1	943.4	971.5	998.1	1072.9	1156.7	1244.4	1340.1
35°	804.8	809.6	826.7	853.2	912.0	949.0	982.8	1072.9	1171.2	1267.7	1369.1
37.5°	773.4	775.9	790.3	829.9	883.0	935.3	973.1	1073.7	1176.8	1270.9	1361.0
40°	741.3	742.1	757.4	796.8	857.3	915.2	957.0	1063.2	1160.7	1247.6	1332.1
42.5°	693.0	699.4	721.1	760.6	838.0	887.0	935.3	1030.2	1121.1	1206.6	1286.2
45°	646.3	655.2	672.9	719.5	799.2	848.4	895.9	988.4	1072.1	1164.7	1244.4
47.5°	607.7	606.9	630.2	681.7	752.5	803.2	846.8	935.3	1027.8	1130.0	1214.6
50°	547.4	560.3	585.2	636.7	703.5	759.0	797.6	885.4	985.2	1087.4	1190.5
52.5°	503.9	512.0	541.7	589.2	659.2	705.1	750.1	847.6	956.2	1080.9	1173.6
55°	457.1	467.6	498.3	545.8	623.8	668.1	713.9	822.5	949.0	1072.1	1168.8
57.5°	419.3	427.3	455.5	508.8	588.4	640.7	693.8	804.8	939.3	1064.8	1196.1
60°	379.1	387.1	423.3	476.4	561.1	615.8	666.4	790.3	936.1	1094.6	1274.2
62.5°	342.9	354.1	387.1	442.6	528.1	582.8	641.5	785.5	973.1	1181.6	1369.9
65°	311.5	323.6	359.8	415.3	499.1	566.7	637.5	827.5	1047.1	1251.6	1392.4
67.5°	281.7	294.6	331.6	388.7	495.1	579.6	676.1	895.9	1100.2	1279.0	1366.7
70°	252.8	268.9	308.3	387.9	536.9	647.1	745.3	943.4	1127.6	1253.2	1306.3
72.5°	227.0	246.3	302.7	416.1	605.3	710.7	799.2	961.1	1098.6	1188.9	1191.3
75°	201.3	231.1	313.9	464.4	649.5	743.7	825.1	945.8	1046.3	1089.8	1062.4
77.5°	179.6	223.8	331.6	486.9	668.1	756.5	819.3	908.8	962.7	963.5	922.4
80°	152.0	207.7	326.8	486.9	658.4	740.5	794.4	842.8	857.3	846.0	816.1
82.5°	119.1	181.2	305.9	461.9	627.0	699.4	740.5	761.4	751.7	739.7	706.7
85°	82.9	145.6	270.5	429.0	576.3	636.7	670.5	670.5	645.5	610.1	593.2
87.5°	48.3	106.2	232.7	378.3	512.0	565.9	590.0	551.4	512.8	494.3	481.2
90°	23.3	70.8	187.6	333.2	441.0	471.6	472.4	421.7	395.2	398.4	399.2
92.5°	19.3	41.8	147.2	249.6	327.6	342.9	342.9	322.0	316.3	322.8	339.7
95°	16.1	17.7	77.2	165.9	223.8	238.3	246.3	251.2	266.4	285.0	299.4
97.5°	13.7	13.7	24.1	89.3	149.6	173.1	189.2	201.3	215.8	223.8	234.3
100°	11.3	11.3	12.9	29.8	83.7	105.4	117.5	125.5	138.4	152.0	167.5
102.5°	9.7	9.7	9.7	15.3	31.4	41.0	51.5	69.2	83.7	101.4	115.0
105°	8.0	8.0	8.0	9.7	19.3	24.9	33.0	47.5	60.3	75.6	86.9
107.5°	6.4	6.4	6.4	6.4	12.9	18.5	23.3	35.4	49.1	61.1	70.0
110°	4.8	4.8	4.8	5.6	8.0	12.1	16.1	26.5	37.0	47.5	57.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	4.0	4.0	4.0	4.0	4.8	6.4	10.5	19.3	27.4	36.2	44.2
115°	3.2	3.2	3.2	3.2	3.2	3.2	4.8	12.1	19.3	25.7	34.6
117.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	6.4	13.7	20.1	25.7
120°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	8.0	14.5	20.1
122.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	3.2	8.8	14.5
125°	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	4.0	8.8
127.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.2
130°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	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°	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6
2.5°	851.6	854.1	855.7	863.7	858.9	867.7	859.7	858.9	862.9	865.3
5°	899.9	912.0	921.6	932.9	929.7	935.3	934.5	934.5	952.2	946.6
7.5°	978.7	990.8	1008.5	1026.2	1022.2	1043.1	1045.5	1048.7	1047.9	1056.8
10°	1060.0	1083.3	1101.0	1130.0	1127.6	1139.6	1155.9	1150.9	1163.9	1170.4
12.5°	1133.2	1159.9	1188.1	1214.6	1213.0	1220.3	1227.5	1232.3	1239.6	1242.8
15°	1188.1	1213.8	1238.0	1262.1	1259.7	1269.3	1273.4	1277.4	1287.0	1287.0
17.5°	1221.9	1238.8	1261.3	1287.8	1297.5	1302.3	1297.5	1311.2	1320.8	1315.2
20°	1229.1	1254.0	1289.4	1303.9	1320.0	1328.9	1333.7	1350.6	1349.8	1359.4
22.5°	1243.6	1277.4	1310.4	1355.4	1359.4	1381.2	1395.6	1413.3	1423.8	1426.2
25°	1267.7	1321.6	1369.9	1419.8	1437.5	1464.0	1494.8	1516.5	1534.2	1543.8
27.5°	1317.6	1384.4	1457.6	1518.9	1529.3	1561.5	1605.8	1638.0	1654.8	1666.9
30°	1381.2	1460.0	1535.8	1600.1	1629.9	1657.3	1698.3	1714.4	1741.7	1755.4
32.5°	1427.0	1506.0	1586.5	1647.6	1675.8	1700.7	1724.0	1738.5	1744.1	1757.0
35°	1448.7	1523.7	1606.6	1641.2	1661.3	1669.3	1679.8	1677.4	1678.2	1676.6
37.5°	1437.5	1506.8	1557.5	1585.7	1589.7	1588.1	1576.0	1548.7	1528.5	1530.1
40°	1407.7	1465.6	1498.0	1497.2	1487.5	1472.9	1445.5	1410.9	1398.1	1406.1
42.5°	1370.7	1408.5	1413.3	1402.9	1379.5	1377.1	1338.5	1327.3	1314.4	1315.2
45°	1324.0	1345.8	1353.0	1330.5	1316.8	1314.4	1296.7	1290.2	1292.7	1293.5
47.5°	1281.4	1304.7	1308.8	1303.1	1299.9	1304.7	1311.2	1327.3	1328.9	1355.4
50°	1254.9	1279.8	1307.1	1328.1	1336.1	1362.7	1398.9	1415.8	1435.9	1441.5
52.5°	1249.2	1291.9	1357.8	1410.1	1448.7	1484.3	1527.7	1589.7	1609.8	1629.1
55°	1265.3	1356.2	1461.6	1547.0	1610.6	1653.2	1712.8	1741.7	1762.6	1779.5
57.5°	1340.1	1482.7	1610.6	1670.9	1690.2	1712.0	1723.2	1731.3	1737.7	1747.4
60°	1460.8	1563.9	1632.3	1662.1	1669.3	1673.4	1666.1	1652.4	1639.6	1633.9
62.5°	1498.0	1558.3	1585.7	1572.8	1559.9	1549.5	1488.3	1462.4	1437.5	1444.7
65°	1474.5	1485.9	1454.4	1410.1	1372.3	1364.3	1309.6	1287.8	1255.7	1262.9
67.5°	1382.8	1345.8	1301.5	1242.8	1224.3	1196.9	1150.1	1130.0	1113.9	1102.6
70°	1291.1	1218.6	1159.9	1095.4	1075.3	1054.4	996.4	969.1	961.1	957.0
72.5°	1139.6	1069.7	1002.1	947.4	932.1	906.3	880.6	855.7	846.0	846.8
75°	986.0	921.6	878.2	853.2	854.9	851.6	846.8	841.2	844.4	850.8
77.5°	870.9	835.5	830.7	834.7	830.7	824.3	793.6	781.5	767.0	769.4
80°	788.7	771.0	742.1	727.6	733.2	726.8	720.3	704.3	710.7	708.3
82.5°	684.1	670.5	658.4	647.1	647.9	642.3	624.6	619.8	610.9	623.8
85°	586.0	566.7	563.5	559.4	561.9	559.4	558.6	552.2	553.8	559.4
87.5°	486.1	484.5	483.7	479.6	477.2	475.6	473.2	470.8	470.8	470.0
90°	403.2	408.8	423.3	430.6	438.6	443.4	453.1	453.9	457.1	456.3
92.5°	357.4	374.3	397.6	411.3	416.1	416.9	423.3	420.1	418.5	417.7
95°	314.7	322.0	331.6	338.0	345.3	346.1	346.9	342.9	343.7	344.5
97.5°	245.5	256.0	268.1	281.7	288.2	287.4	295.4	294.6	294.6	298.6
100°	181.2	194.8	203.7	219.0	215.8	212.5	218.2	215.0	228.6	223.8
102.5°	126.3	131.1	139.2	140.8	141.6	140.0	141.6	138.4	138.4	136.8
105°	96.5	103.8	111.0	115.8	116.7	116.7	117.5	115.0	115.0	114.2
107.5°	79.6	86.9	92.5	95.7	99.8	99.0	100.6	99.8	100.6	99.0
110°	64.4	71.6	78.0	81.3	84.5	84.5	85.3	85.3	84.5	84.5



TEST NUMBER: P798350
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-HIGH-3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	52.3	58.7	63.6	68.4	70.8	71.6	71.6	72.4	72.4	72.4
115°	41.0	47.5	53.9	57.9	60.3	61.1	61.9	61.1	60.3	60.3
117.5°	32.2	37.8	43.4	48.3	50.7	51.5	53.1	52.3	52.3	51.5
120°	25.7	30.6	36.2	40.2	41.8	43.4	45.1	44.2	43.4	44.2
122.5°	20.1	24.1	29.0	33.0	34.6	35.4	36.2	35.4	36.2	35.4
125°	14.5	18.5	22.5	25.7	27.4	29.0	29.8	29.0	29.0	29.0
127.5°	8.0	12.1	16.1	19.3	20.9	21.7	23.3	22.5	21.7	21.7
130°	2.4	7.2	11.3	13.7	15.3	16.9	16.9	16.9	16.1	15.3
132.5°	0.0	1.6	5.6	8.8	10.5	11.3	11.3	11.3	10.5	10.5
135°	0.0	0.0	0.8	3.2	4.8	5.6	6.4	5.6	5.6	4.8
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)