

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: P798324

Luminaire Tested: 4VT3-SL3C3-W-UNV-HIGH-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798324
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-3000K
Description: Vaportite LED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

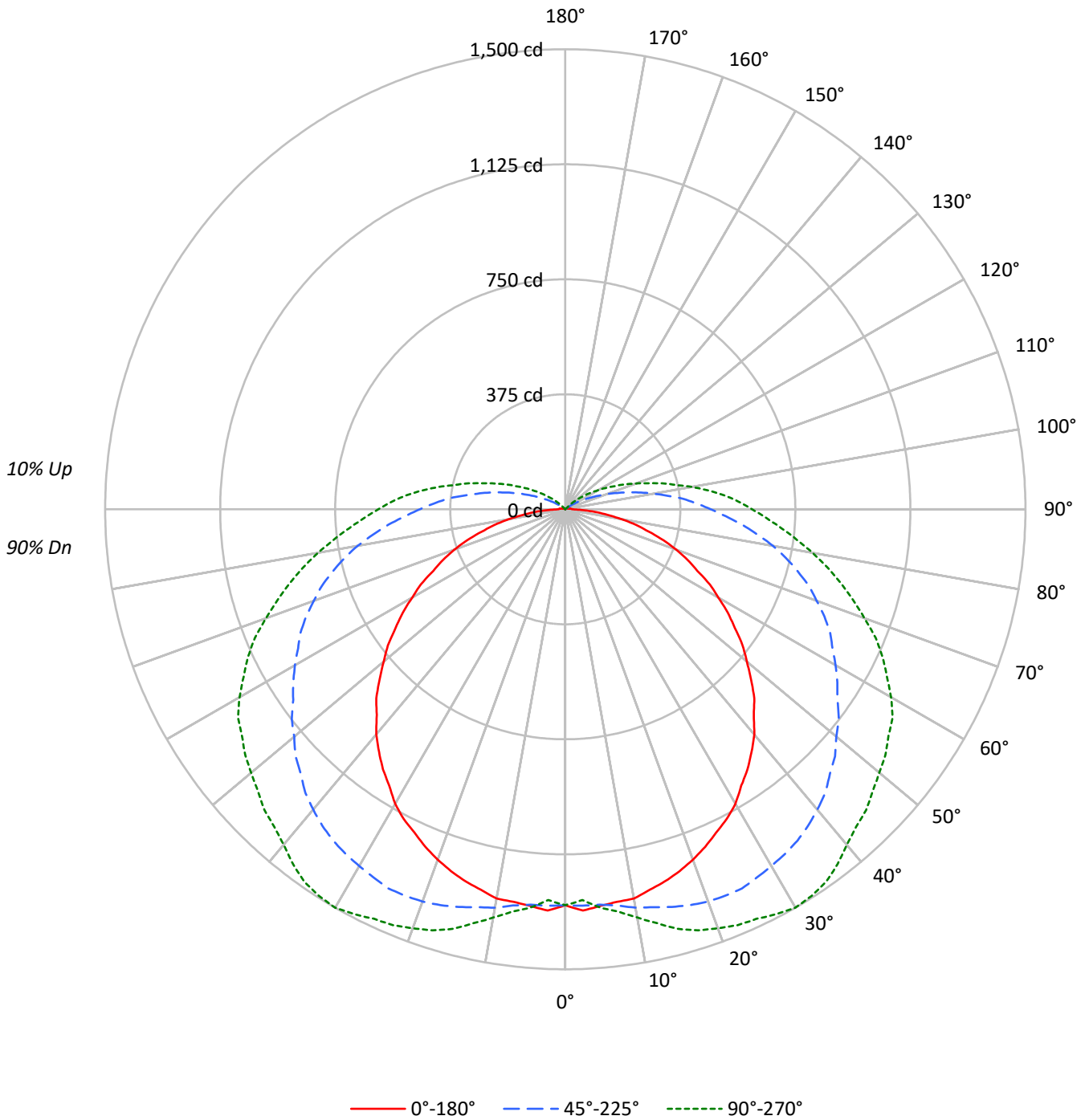
Lumens per Lamp: N/A
Luminaire Lumens: 6595.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.66
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 50.1
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	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°	6948	6948	6948
5°	7014	6990	7042
10°	7043	7209	7388
15°	6998	7478	7892
20°	6964	7794	8325
25°	6907	8099	8751
30°	6892	8346	9320
35°	6803	8667	9741
40°	6732	8982	10030
45°	6632	9283	10555
50°	6468	9658	11189
55°	6335	10161	12071
60°	6204	10953	13200
65°	6044	12127	14538
70°	6054	13722	16329
75°	5854	16326	19322
80°	5802	21317	25371
85°	5922	35735	43664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 80928 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	1.9
10°-20°	379.8	5.8
20°-30°	620.1	9.4
30°-40°	808.0	12.3
40°-50°	907.1	13.8
50°-60°	927.4	14.1
60°-70°	870.9	13.2
70°-80°	736.1	11.2
80°-90°	545.1	8.3
90°-100°	356.7	5.4
100°-110°	196.7	3.0
110°-120°	89.1	1.4
120°-130°	29.7	0.5
130°-140°	3.6	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°	1124.5	17.1
0°-40°	1932.5	29.3
0°-60°	3767.0	57.1
0°-90°	5919.1	89.8
90°-120°	642.6	9.7
90°-150°	675.8	10.2
90°-180°	676.0	10.3
0°-180°	6595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1298	1297	1294	1304	1304	124
15°	1256	1286	1342	1402	1416	354
25°	1163	1237	1364	1453	1474	537
35°	1036	1138	1319	1456	1483	648
45°	871	1001	1220	1349	1387	669
55°	675	834	1083	1241	1286	605
65°	475	655	952	1107	1142	475
75°	282	493	785	905	929	301
85°	96	332	579	686	707	97
90°	25	248	474	582	609	17
95°	19	178	387	486	521	14
105°	10	55	212	300	327	11
115°	4	5	89	163	180	5
125°	2	2	19	66	81	2
135°	1	0	0	4	13	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: P798324

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0
2.5°	1309.5	1293.8	1294.6	1292.5	1292.5	1301.3	1299.1	1293.1	1294.6	1291.8	1293.8
5°	1298.3	1291.0	1291.8	1296.1	1295.3	1296.8	1298.3	1294.6	1301.3	1299.1	1293.8
7.5°	1291.0	1285.1	1286.5	1280.6	1292.5	1295.3	1295.3	1293.1	1299.8	1302.0	1302.8
10°	1288.8	1277.6	1282.1	1273.2	1285.1	1298.3	1296.1	1304.3	1309.5	1314.7	1319.1
12.5°	1270.9	1266.5	1264.2	1270.9	1287.3	1297.6	1291.0	1296.8	1311.0	1320.6	1328.8
15°	1256.0	1254.5	1253.8	1260.5	1267.9	1285.8	1288.0	1303.5	1322.9	1328.1	1342.2
17.5°	1237.4	1233.0	1235.9	1241.2	1265.0	1276.1	1286.5	1297.6	1324.4	1334.8	1353.4
20°	1215.9	1213.0	1222.5	1229.2	1251.6	1265.0	1277.6	1295.3	1315.4	1340.7	1360.8
22.5°	1191.4	1190.0	1198.1	1211.5	1240.4	1253.1	1262.0	1286.5	1317.7	1338.5	1363.8
25°	1163.2	1163.2	1172.1	1193.7	1227.8	1236.7	1250.8	1272.4	1301.3	1328.1	1363.8
27.5°	1139.3	1139.3	1147.5	1169.1	1197.4	1221.1	1238.9	1254.5	1292.5	1322.1	1353.4
30°	1109.0	1112.7	1119.4	1139.3	1174.3	1195.2	1211.5	1241.9	1278.4	1311.0	1343.0
32.5°	1068.1	1069.5	1086.7	1111.2	1146.8	1167.6	1190.0	1220.3	1267.9	1288.0	1332.5
35°	1035.5	1035.5	1051.1	1076.2	1122.4	1137.9	1159.4	1195.2	1237.4	1273.9	1319.1
37.5°	997.5	998.3	1019.1	1053.3	1089.6	1109.7	1130.6	1169.9	1212.3	1250.1	1300.5
40°	958.2	964.2	974.6	1008.7	1051.8	1076.2	1094.1	1138.6	1192.9	1230.0	1278.4
42.5°	909.1	915.8	934.4	969.4	1010.9	1045.1	1066.6	1106.0	1156.5	1206.3	1254.5
45°	871.3	875.0	892.9	927.7	974.6	1001.2	1022.8	1072.5	1125.4	1174.3	1219.6
47.5°	820.8	828.9	846.7	886.2	935.9	965.7	984.1	1033.2	1089.6	1136.4	1192.2
50°	772.5	779.2	804.5	840.0	895.1	920.3	945.6	994.5	1058.4	1108.2	1153.5
52.5°	728.7	733.9	756.1	798.5	846.7	880.2	900.3	957.5	1020.6	1070.3	1123.9
55°	675.1	687.8	710.1	752.4	807.4	834.1	853.4	913.6	977.6	1035.5	1082.9
57.5°	628.4	641.0	664.1	708.6	762.0	787.3	817.9	877.2	935.9	996.8	1051.1
60°	576.4	589.7	615.7	664.9	718.3	744.3	770.2	834.8	898.1	955.2	1017.6
62.5°	531.1	540.7	572.0	612.8	667.7	698.2	727.2	791.1	866.1	924.7	981.9
65°	474.6	494.7	522.9	571.2	625.4	655.2	687.0	752.4	819.3	884.7	952.3
67.5°	431.5	443.4	476.9	522.1	580.2	615.7	644.8	718.3	785.9	850.5	914.3
70°	384.7	395.9	428.7	476.9	537.7	569.0	608.3	678.1	753.1	814.1	872.0
72.5°	335.8	349.2	380.3	430.1	497.0	533.3	566.8	641.8	719.0	774.7	832.6
75°	281.5	301.5	338.0	386.2	454.5	493.2	526.6	606.1	675.1	732.4	785.1
77.5°	236.2	251.8	292.6	352.1	421.2	456.0	491.8	567.5	635.8	688.5	737.6
80°	187.2	208.7	245.1	307.5	377.3	413.8	450.8	522.1	587.6	640.3	687.8
82.5°	138.9	158.2	203.5	268.2	339.5	374.3	405.6	475.4	538.5	591.2	632.1
85°	95.9	113.7	164.2	229.5	297.1	332.1	363.2	433.7	491.0	534.8	578.7
87.5°	53.4	77.2	129.2	191.0	257.8	291.1	319.4	385.5	438.9	485.8	523.6
90°	24.6	49.0	95.1	154.5	216.1	248.1	277.7	337.3	392.2	433.0	473.9
92.5°	20.8	29.8	70.5	124.0	183.5	212.4	242.2	297.8	346.2	392.2	428.7
95°	18.6	20.1	46.0	95.9	148.5	177.6	204.2	257.8	303.8	346.9	387.0
97.5°	16.4	16.4	28.3	67.6	118.0	141.8	167.1	219.1	262.3	303.0	338.0
100°	13.4	14.1	16.4	43.8	85.4	108.5	133.7	179.1	222.1	260.8	291.9
102.5°	11.9	11.9	12.7	26.8	58.6	79.5	101.8	141.8	185.0	219.1	252.6
105°	9.7	10.4	10.4	14.1	39.3	54.9	73.5	112.2	147.8	182.0	212.4
107.5°	8.2	8.2	8.2	8.9	23.8	35.7	50.5	81.7	115.9	148.5	176.8
110°	6.7	6.7	6.7	7.4	11.2	20.8	32.7	57.9	87.7	118.8	143.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	5.2	6.0	6.0	6.0	6.7	9.7	18.6	41.5	63.9	90.6	113.7
115°	4.5	4.5	4.5	4.5	5.2	5.2	7.4	24.6	46.0	66.8	89.2
117.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	11.9	30.5	48.2	66.8
120°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	16.4	33.5	48.2
122.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.5	18.6	32.7
125°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	6.0	18.6
127.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	1.5	6.7
130°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.7
132.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.7	0.7	0.7	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°	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0	1291.0
2.5°	1281.3	1287.3	1294.6	1297.6	1291.8	1296.8	1296.8	1289.5	1290.3	1275.4
5°	1288.0	1299.1	1309.5	1303.5	1304.3	1303.5	1311.7	1305.7	1303.5	1303.5
7.5°	1305.7	1315.4	1317.7	1324.4	1323.6	1331.1	1324.4	1330.3	1328.1	1322.9
10°	1324.4	1328.8	1334.8	1352.6	1354.1	1351.1	1362.3	1353.4	1354.1	1351.9
12.5°	1333.3	1358.6	1359.3	1377.0	1373.3	1384.5	1386.0	1388.9	1389.7	1382.3
15°	1354.9	1372.6	1386.7	1401.6	1401.6	1410.5	1418.7	1418.0	1418.7	1416.5
17.5°	1369.0	1396.4	1406.1	1418.7	1423.9	1433.6	1438.1	1445.5	1443.3	1439.6
20°	1379.3	1400.1	1421.7	1435.1	1432.9	1444.8	1456.5	1444.8	1452.8	1453.5
22.5°	1376.3	1409.0	1424.7	1441.8	1448.5	1452.8	1462.5	1471.4	1471.4	1467.7
25°	1378.5	1406.8	1430.6	1447.7	1452.8	1463.2	1475.9	1478.8	1483.3	1473.6
27.5°	1374.8	1407.6	1432.9	1451.3	1451.3	1473.6	1478.8	1491.5	1495.2	1488.5
30°	1376.3	1405.3	1429.1	1458.8	1465.5	1477.4	1490.8	1499.7	1498.2	1499.7
32.5°	1366.0	1399.4	1426.9	1458.8	1469.2	1475.9	1491.5	1493.0	1491.5	1494.5
35°	1348.2	1388.9	1430.6	1447.7	1456.5	1469.9	1473.6	1481.1	1493.7	1482.6
37.5°	1337.0	1377.0	1399.4	1426.2	1435.8	1447.0	1455.0	1456.5	1458.8	1458.0
40°	1316.2	1354.1	1374.1	1401.6	1405.3	1423.2	1418.0	1425.4	1432.1	1427.6
42.5°	1293.8	1324.4	1351.1	1370.5	1379.3	1383.7	1397.9	1400.9	1409.0	1403.8
45°	1259.0	1291.8	1320.6	1341.5	1348.9	1363.8	1370.5	1375.6	1383.7	1386.7
47.5°	1230.7	1263.5	1293.1	1323.6	1322.1	1339.2	1351.9	1349.7	1356.4	1359.3
50°	1192.9	1233.0	1269.4	1291.0	1298.3	1314.7	1319.9	1334.8	1341.5	1336.3
52.5°	1162.4	1206.3	1229.2	1265.0	1273.9	1287.3	1302.0	1303.5	1317.7	1315.4
55°	1131.3	1170.6	1207.8	1230.7	1241.2	1258.3	1268.7	1274.6	1280.6	1286.5
57.5°	1091.9	1142.3	1173.6	1202.6	1213.8	1224.8	1240.4	1247.9	1260.5	1265.0
60°	1061.4	1113.5	1139.3	1172.8	1184.0	1196.7	1207.8	1214.4	1224.0	1226.3
62.5°	1028.8	1075.5	1107.5	1138.6	1149.0	1159.4	1172.1	1183.3	1187.0	1181.8
65°	990.8	1038.4	1067.3	1098.6	1106.8	1126.8	1123.1	1134.3	1138.6	1141.6
67.5°	955.2	1007.9	1030.3	1048.9	1068.1	1065.8	1080.7	1080.0	1088.9	1094.8
70°	912.8	954.5	975.3	1002.7	1007.9	1014.6	1026.5	1029.5	1034.7	1037.7
72.5°	869.1	912.1	930.7	950.0	962.7	961.9	970.1	976.1	982.6	983.4
75°	825.9	854.2	877.2	895.9	905.4	906.9	917.3	915.8	931.4	929.2
77.5°	776.2	807.4	822.3	840.8	849.0	857.2	862.4	866.8	869.1	875.0
80°	717.5	754.6	765.8	785.9	791.8	800.7	803.0	812.7	816.4	818.6
82.5°	667.7	692.2	709.4	729.5	742.8	741.4	750.9	756.8	761.3	761.3
85°	612.0	640.3	655.9	673.6	686.3	688.5	698.2	698.2	704.1	707.1
87.5°	554.1	588.2	600.9	620.2	634.3	632.1	638.8	647.7	650.7	655.9
90°	502.9	530.3	551.1	569.7	582.4	583.9	591.2	598.6	600.1	609.0
92.5°	461.2	484.3	506.6	525.8	530.3	536.3	543.0	554.9	557.1	566.0
95°	413.0	441.2	459.0	478.4	485.8	490.3	497.7	506.6	513.9	520.6
97.5°	369.1	394.4	413.8	428.7	438.9	441.9	451.6	457.5	462.7	470.2
100°	322.4	344.7	365.4	382.5	390.7	392.9	403.3	407.8	412.3	419.0
102.5°	279.2	306.0	317.9	336.5	343.2	346.9	354.2	363.9	364.7	366.9
105°	235.5	261.5	278.5	291.9	300.1	303.0	310.5	320.9	321.6	326.8
107.5°	201.2	223.6	240.7	254.8	263.0	266.0	271.9	275.5	280.7	282.2
110°	167.9	188.0	204.9	216.9	223.6	229.5	236.2	242.2	245.1	245.9



TEST NUMBER: P798324
 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-HIGH-3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	135.9	155.2	170.1	185.0	191.0	195.4	202.0	209.4	213.1	213.1
115°	109.2	127.0	142.6	154.5	162.7	164.9	170.9	176.8	179.8	179.8
117.5°	83.9	102.5	116.7	127.0	132.9	135.9	143.3	149.3	151.5	153.0
120°	63.9	78.7	92.1	103.3	107.0	112.2	117.4	122.5	125.5	125.5
122.5°	46.7	60.1	69.8	79.5	86.2	87.7	94.4	100.3	101.8	103.3
125°	32.0	43.0	52.7	60.9	66.1	67.6	72.8	78.0	79.5	81.0
127.5°	16.4	27.5	36.5	44.5	48.2	51.2	55.7	60.1	61.6	62.4
130°	4.5	12.7	21.6	29.0	32.0	34.2	39.3	42.3	45.2	44.5
132.5°	0.0	2.2	7.4	14.1	16.4	19.3	23.8	26.8	28.3	29.8
135°	0.0	0.0	0.7	3.0	4.5	6.0	8.9	12.7	12.7	12.7
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)