

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: P798351

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798351
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-4000K
Description: Vaportite LED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

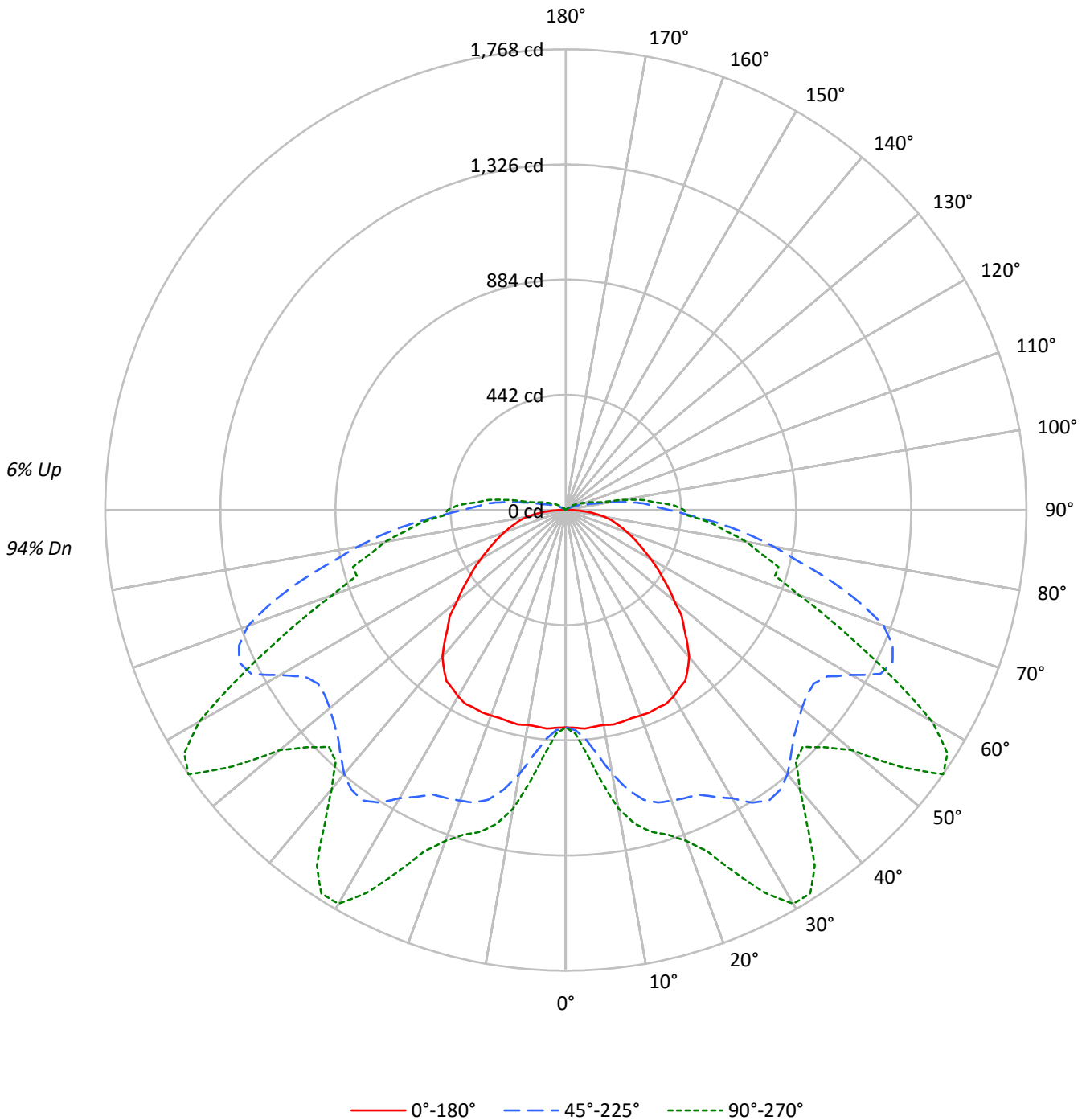
Lumens per Lamp: N/A
Luminaire Lumens: 6446.3 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 2.17 / 2.13
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.2
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°	4490	4490	4490
5°	4550	4770	5082
10°	4576	5621	6356
15°	4684	6413	7126
20°	4805	6798	7737
25°	4968	7153	9109
30°	5135	7938	10840
35°	5254	8938	10945
40°	5175	9299	9816
45°	4888	9411	9783
50°	4554	9904	11993
55°	4262	10898	16592
60°	4055	13628	17476
65°	3941	17620	15981
70°	3953	20427	14965
75°	4159	21953	17579
80°	4683	25133	21813
85°	5082	36402	34327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°

Vertical Angle: 87.5°

Luminance: 72340 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	1.4
10°-20°	313.1	4.9
20°-30°	565.1	8.8
30°-40°	798.6	12.4
40°-50°	853.1	13.2
50°-60°	1001.8	15.5
60°-70°	1013.1	15.7
70°-80°	826.8	12.8
80°-90°	567.4	8.8
90°-100°	286.6	4.4
100°-110°	84.9	1.3
110°-120°	33.4	0.5
120°-130°	11.8	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°	967.0	15.0
0°-40°	1765.6	27.4
0°-60°	3620.5	56.2
0°-90°	6027.8	93.5
90°-120°	404.9	6.3
90°-150°	418.4	6.5
90°-180°	418.0	6.5
0°-180°	6446.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	842	853	883	924	941	80
15°	841	967	1151	1252	1279	238
25°	837	1018	1204	1428	1534	387
35°	800	943	1360	1651	1666	495
45°	642	843	1236	1308	1285	497
55°	454	664	1161	1600	1768	409
65°	310	563	1384	1364	1255	308
75°	200	739	1056	849	845	213
85°	82	633	590	558	556	82
90°	23	469	397	436	453	16
95°	16	237	298	343	342	12
105°	8	25	86	116	114	8
115°	3	3	34	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2
2.5°	836.6	840.6	842.2	838.2	840.6	842.2	840.6	843.0	844.6	847.0	845.4
5°	842.2	841.4	845.4	841.4	846.2	852.6	855.8	864.6	868.6	879.0	883.0
7.5°	838.2	843.8	843.8	847.8	856.6	880.6	883.8	899.0	917.4	935.0	947.8
10°	837.4	843.8	855.0	866.2	881.4	901.4	915.0	943.0	977.3	1002.9	1028.5
12.5°	843.0	845.4	864.6	879.8	910.2	931.8	949.4	992.5	1029.3	1062.1	1098.0
15°	840.6	847.0	868.6	895.0	938.2	966.9	985.3	1038.1	1082.9	1114.8	1151.0
17.5°	837.4	849.4	876.6	911.0	961.3	998.1	1018.1	1070.1	1112.4	1154.2	1177.3
20°	839.0	852.6	883.8	931.0	980.5	1015.7	1036.5	1090.1	1131.6	1167.0	1186.9
22.5°	840.6	855.8	887.0	940.6	987.7	1023.7	1045.3	1094.0	1130.8	1171.7	1196.5
25°	836.6	853.4	891.0	935.0	992.5	1018.1	1040.5	1087.7	1126.8	1174.1	1204.5
27.5°	837.4	850.2	885.4	933.4	978.1	1013.3	1025.3	1078.9	1127.6	1180.5	1240.5
30°	826.3	841.4	879.8	913.4	957.4	990.1	1008.5	1067.7	1131.6	1201.3	1277.3
32.5°	810.9	827.1	861.4	885.4	937.4	965.3	991.7	1066.1	1149.4	1236.5	1331.6
35°	799.7	804.5	821.5	847.8	906.2	943.0	976.5	1066.1	1163.8	1259.7	1360.4
37.5°	768.5	770.9	785.3	824.7	877.4	929.4	966.9	1066.9	1169.4	1262.9	1352.4
40°	736.6	737.4	752.5	791.7	851.8	909.4	951.0	1056.5	1153.4	1239.7	1323.6
42.5°	688.6	695.0	716.6	755.7	832.6	881.4	929.4	1023.7	1114.0	1198.9	1278.1
45°	642.2	651.0	668.6	715.0	794.1	843.0	890.2	982.1	1065.3	1157.4	1236.5
47.5°	603.9	603.1	626.2	677.4	747.8	798.1	841.4	929.4	1021.3	1122.8	1206.9
50°	543.9	556.7	581.5	632.6	699.0	754.1	792.5	879.8	978.9	1080.5	1182.9
52.5°	500.7	508.7	538.3	585.5	655.0	700.6	745.4	842.2	950.2	1074.1	1166.2
55°	454.2	464.6	495.1	542.3	619.8	663.8	709.4	817.3	943.0	1065.3	1161.4
57.5°	416.6	424.6	452.6	505.5	584.7	636.6	689.4	799.7	933.4	1058.1	1188.5
60°	376.7	384.7	420.6	473.4	557.5	611.9	662.2	785.3	930.2	1087.7	1266.1
62.5°	340.7	351.9	384.7	439.8	524.7	579.1	637.4	780.5	966.9	1174.1	1361.2
65°	309.5	321.5	357.5	412.6	495.9	563.1	633.4	822.3	1040.5	1243.7	1383.6
67.5°	279.9	292.7	329.5	386.3	491.9	575.9	671.8	890.2	1093.2	1270.9	1358.0
70°	251.2	267.2	306.3	385.5	533.5	643.0	740.6	937.4	1120.4	1245.3	1298.1
72.5°	225.6	244.8	300.7	413.4	601.5	706.2	794.1	955.0	1091.7	1181.3	1183.7
75°	200.0	229.6	311.9	461.4	645.4	739.0	819.9	939.8	1039.7	1082.9	1055.7
77.5°	178.4	222.4	329.5	483.8	663.8	751.7	814.1	903.0	956.6	957.4	916.6
80°	151.1	206.4	324.7	483.8	654.2	735.8	789.3	837.4	851.8	840.6	810.9
82.5°	118.3	180.0	303.9	459.0	623.0	695.0	735.8	756.5	747.0	735.0	702.2
85°	82.3	144.7	268.8	426.2	572.7	632.6	666.2	666.2	641.4	606.3	589.5
87.5°	48.0	105.5	231.2	375.9	508.7	562.3	586.3	547.9	509.5	491.1	478.2
90°	23.2	70.3	186.4	331.1	438.2	468.6	469.4	419.0	392.7	395.9	396.7
92.5°	19.2	41.6	146.3	248.0	325.5	340.7	340.7	319.9	314.3	320.7	337.5
95°	16.0	17.6	76.7	164.8	222.4	236.8	244.8	249.6	264.8	283.1	297.5
97.5°	13.6	13.6	24.0	88.7	148.7	172.0	188.0	200.0	214.4	222.4	232.8
100°	11.2	11.2	12.8	29.6	83.1	104.7	116.7	124.7	137.5	151.1	166.4
102.5°	9.6	9.6	9.6	15.2	31.2	40.8	51.2	68.7	83.1	100.7	114.3
105°	8.0	8.0	8.0	9.6	19.2	24.8	32.8	47.2	60.0	75.1	86.3
107.5°	6.4	6.4	6.4	6.4	12.8	18.4	23.2	35.2	48.8	60.8	69.5
110°	4.8	4.8	4.8	5.6	8.0	12.0	16.0	26.4	36.8	47.2	56.8



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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	10.4	19.2	27.2	36.0	44.0
115°	3.2	3.2	3.2	3.2	3.2	3.2	4.8	12.0	19.2	25.6	34.4
117.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	6.4	13.6	20.0	25.6
120°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	8.0	14.4	20.0
122.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	3.2	8.8	14.4
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°	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2	834.2
2.5°	846.2	848.6	850.2	858.2	853.4	862.2	854.2	853.4	857.4	859.8
5°	894.2	906.2	915.8	927.0	923.8	929.4	928.6	928.6	946.2	940.6
7.5°	972.5	984.5	1002.1	1019.7	1015.7	1036.5	1038.9	1042.1	1041.3	1050.1
10°	1053.3	1076.5	1094.0	1122.8	1120.4	1132.4	1148.6	1143.6	1156.6	1163.0
12.5°	1126.0	1152.6	1180.5	1206.9	1205.3	1212.5	1219.7	1224.5	1231.7	1234.9
15°	1180.5	1206.1	1230.1	1254.1	1251.7	1261.3	1265.3	1269.3	1278.9	1278.9
17.5°	1214.1	1230.9	1253.3	1279.7	1289.3	1294.1	1289.3	1302.9	1312.4	1306.8
20°	1221.3	1246.1	1281.3	1295.7	1311.6	1320.4	1325.2	1342.0	1341.2	1350.8
22.5°	1235.7	1269.3	1302.1	1346.8	1350.8	1372.4	1386.8	1404.4	1414.8	1417.2
25°	1259.7	1313.2	1361.2	1410.8	1428.4	1454.7	1485.3	1506.9	1524.4	1534.0
27.5°	1309.2	1375.6	1448.3	1509.3	1519.6	1551.6	1595.6	1627.6	1644.4	1656.3
30°	1372.4	1450.7	1526.0	1590.0	1619.6	1646.7	1687.5	1703.5	1730.7	1744.3
32.5°	1418.0	1496.5	1576.4	1637.2	1665.1	1689.9	1713.1	1727.5	1733.1	1745.9
35°	1439.5	1514.0	1596.4	1630.8	1650.7	1658.7	1669.1	1666.7	1667.5	1665.9
37.5°	1428.4	1497.3	1547.6	1575.6	1579.6	1578.0	1566.0	1538.8	1518.8	1520.4
40°	1398.8	1456.3	1488.5	1487.7	1478.1	1463.5	1436.3	1402.0	1389.2	1397.2
42.5°	1362.0	1399.6	1404.4	1394.0	1370.8	1368.4	1330.0	1318.8	1306.0	1306.8
45°	1315.6	1337.2	1344.4	1322.0	1308.4	1306.0	1288.5	1282.1	1284.5	1285.3
47.5°	1273.3	1296.5	1300.5	1294.9	1291.7	1296.5	1302.9	1318.8	1320.4	1346.8
50°	1246.9	1271.7	1298.9	1319.6	1327.6	1354.0	1390.0	1406.8	1426.8	1432.4
52.5°	1241.3	1283.7	1349.2	1401.2	1439.5	1474.9	1518.0	1579.6	1599.6	1618.8
55°	1257.3	1347.6	1452.3	1537.2	1600.4	1642.8	1701.9	1730.7	1751.5	1768.3
57.5°	1331.6	1473.3	1600.4	1660.3	1679.5	1701.1	1712.3	1720.3	1726.7	1736.3
60°	1451.5	1554.0	1622.0	1651.5	1658.7	1662.7	1655.5	1642.0	1629.2	1623.6
62.5°	1488.5	1548.4	1575.6	1562.8	1550.0	1539.6	1478.9	1453.1	1428.4	1435.5
65°	1465.1	1476.5	1445.1	1401.2	1363.6	1355.6	1301.3	1279.7	1247.7	1254.9
67.5°	1374.0	1337.2	1293.3	1234.9	1216.5	1189.3	1142.8	1122.8	1106.8	1095.6
70°	1282.9	1210.9	1152.6	1088.5	1068.5	1047.7	990.1	962.9	955.0	951.0
72.5°	1132.4	1062.9	995.7	941.4	926.2	900.6	875.0	850.2	840.6	841.4
75°	979.7	915.8	872.6	847.8	849.4	846.2	841.4	835.8	839.0	845.4
77.5°	865.4	830.2	825.5	829.4	825.5	819.1	788.5	776.5	762.1	764.5
80°	783.7	766.1	737.4	723.0	728.6	722.2	715.8	699.8	706.2	703.8
82.5°	679.8	666.2	654.2	643.0	643.8	638.2	620.6	615.9	607.1	619.8
85°	582.3	563.1	559.9	555.9	558.3	555.9	555.1	548.7	550.3	555.9
87.5°	483.0	481.4	480.6	476.6	474.2	472.6	470.2	467.8	467.8	467.0
90°	400.7	406.3	420.6	427.8	435.8	440.6	450.2	451.0	454.2	453.4
92.5°	355.1	371.9	395.1	408.6	413.4	414.2	420.6	417.4	415.8	415.0
95°	312.7	319.9	329.5	335.9	343.1	343.9	344.7	340.7	341.5	342.3
97.5°	244.0	254.4	266.4	279.9	286.3	285.5	293.5	292.7	292.7	296.7
100°	180.0	193.6	202.4	217.6	214.4	211.2	216.8	213.6	227.2	222.4
102.5°	125.5	130.3	138.3	139.9	140.7	139.1	140.7	137.5	137.5	135.9
105°	95.9	103.1	110.3	115.1	115.9	115.9	116.7	114.3	114.3	113.5
107.5°	79.1	86.3	91.9	95.1	99.1	98.3	99.9	99.1	99.9	98.3
110°	64.0	71.1	77.5	80.7	83.9	83.9	84.7	84.7	83.9	83.9



TEST NUMBER: P798351
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-HIGH-4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	52.0	58.4	63.2	67.9	70.3	71.1	71.1	71.9	71.9	71.9
115°	40.8	47.2	53.6	57.6	60.0	60.8	61.6	60.8	60.0	60.0
117.5°	32.0	37.6	43.2	48.0	50.4	51.2	52.8	52.0	52.0	51.2
120°	25.6	30.4	36.0	40.0	41.6	43.2	44.8	44.0	43.2	44.0
122.5°	20.0	24.0	28.8	32.8	34.4	35.2	36.0	35.2	36.0	35.2
125°	14.4	18.4	22.4	25.6	27.2	28.8	29.6	28.8	28.8	28.8
127.5°	8.0	12.0	16.0	19.2	20.8	21.6	23.2	22.4	21.6	21.6
130°	2.4	7.2	11.2	13.6	15.2	16.8	16.8	16.8	16.0	15.2
132.5°	0.0	1.6	5.6	8.8	10.4	11.2	11.2	11.2	10.4	10.4
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)