

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: P798349

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798349
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-3000K
Description: Vaportite LED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

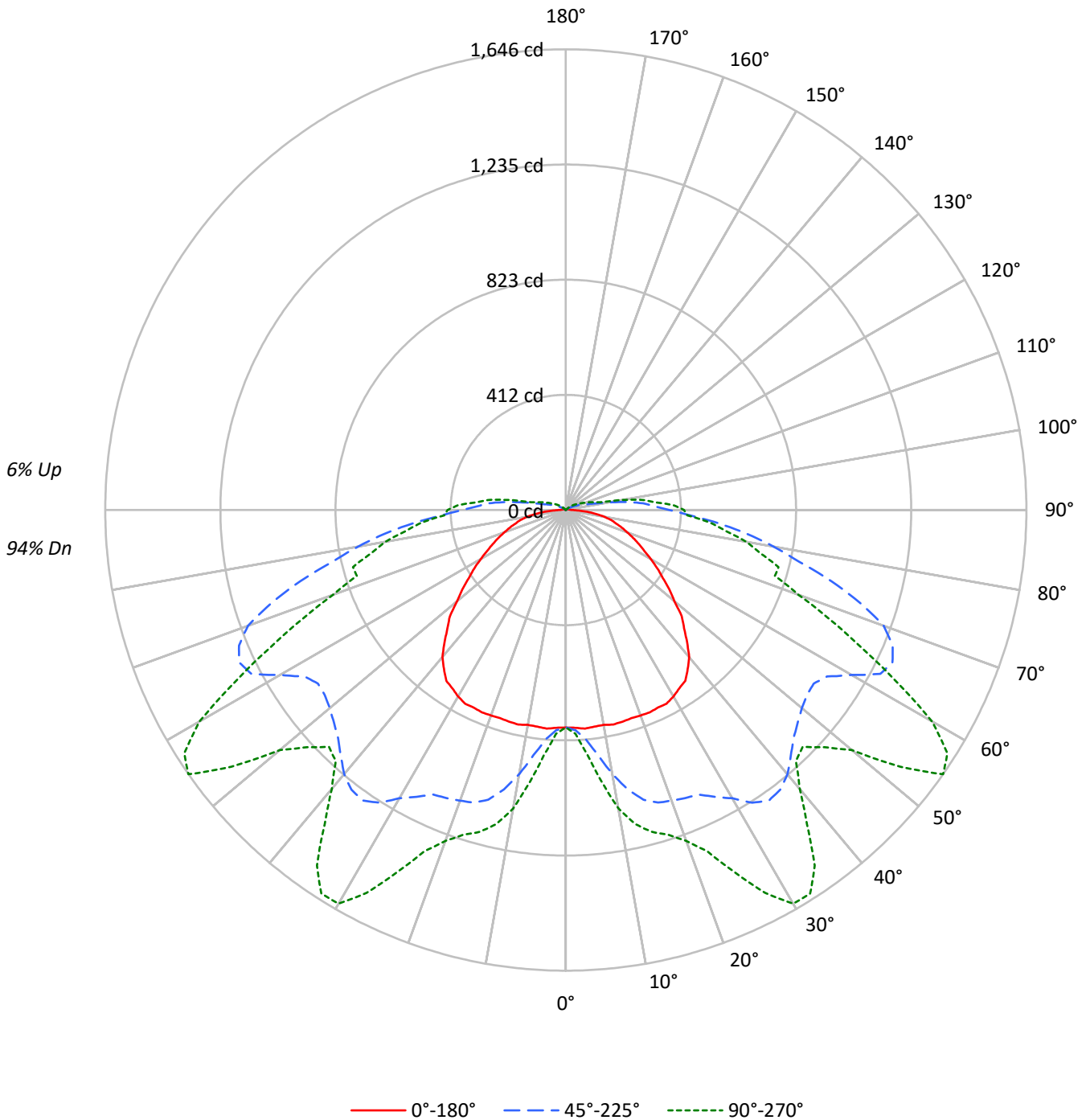
Lumens per Lamp: N/A
Luminaire Lumens: 6001.5 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 2.17 / 2.13
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.1
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: P798349
CATALOG NUMBER: 4VT3-SL3C3-P-UNV-HIGH-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P798349

CATALOG NUMBER: 4VT3-SL3C3-P-UNV-HIGH-3000K

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°	4180	4180	4180
5°	4236	4441	4731
10°	4261	5233	5917
15°	4361	5971	6634
20°	4474	6329	7203
25°	4625	6659	8481
30°	4780	7390	10092
35°	4891	8321	10190
40°	4817	8658	9139
45°	4551	8762	9108
50°	4240	9221	11165
55°	3968	10145	15447
60°	3775	12687	16270
65°	3670	16404	14878
70°	3679	19017	13931
75°	3872	20437	16367
80°	4361	23400	20307
85°	4736	33889	31956

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°

Vertical Angle: 87.5°

Luminance: 67343 cd/sqm



TEST NUMBER: P798349
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-HIGH-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	1.4
10°-20°	291.5	4.9
20°-30°	526.1	8.8
30°-40°	743.5	12.4
40°-50°	794.2	13.2
50°-60°	932.6	15.5
60°-70°	943.2	15.7
70°-80°	769.8	12.8
80°-90°	528.3	8.8
90°-100°	266.8	4.4
100°-110°	79.1	1.3
110°-120°	31.1	0.5
120°-130°	11.0	0.2
130°-140°	1.6	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°	900.3	15.0
0°-40°	1643.8	27.4
0°-60°	3370.7	56.2
0°-90°	5611.9	93.5
90°-120°	377.0	6.3
90°-150°	389.5	6.5
90°-180°	390.0	6.5
0°-180°	6001.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	784	794	822	860	876	75
15°	783	900	1072	1165	1191	222
25°	779	948	1121	1330	1428	360
35°	744	878	1266	1537	1551	461
45°	598	785	1151	1218	1197	462
55°	423	618	1081	1490	1646	381
65°	288	524	1288	1270	1168	287
75°	186	688	983	791	787	198
85°	77	589	549	520	518	76
90°	22	436	369	406	422	14
95°	15	220	277	319	319	11
105°	7	23	80	108	106	8
115°	3	3	32	56	56	3
125°	2	1	8	25	27	1
135°	0	0	0	4	4	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: P798349

CATALOG NUMBER: 4VT3-SL3C3-P-UNV-HIGH-3000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7
2.5°	778.9	782.6	784.1	780.4	782.6	784.1	782.6	784.9	786.4	788.6	787.1
5°	784.1	783.4	787.1	783.4	787.8	793.8	796.8	805.0	808.7	818.4	822.1
7.5°	780.4	785.6	785.6	789.3	797.5	819.9	822.8	837.0	854.1	870.5	882.4
10°	779.7	785.6	796.0	806.5	820.6	839.2	851.9	877.9	909.9	933.7	957.5
12.5°	784.9	787.1	805.0	819.1	847.4	867.5	883.9	924.0	958.3	988.8	1022.3
15°	782.6	788.6	808.7	833.2	873.4	900.2	917.3	966.5	1008.1	1037.9	1071.6
17.5°	779.7	790.8	816.1	848.1	895.0	929.3	947.9	996.2	1035.7	1074.5	1096.1
20°	781.2	793.8	822.8	866.7	912.9	945.6	965.0	1014.8	1053.5	1086.4	1105.0
22.5°	782.6	796.8	825.8	875.7	919.6	953.1	973.2	1018.6	1052.8	1090.9	1114.0
25°	778.9	794.5	829.5	870.5	924.0	947.9	968.7	1012.6	1049.1	1093.1	1121.4
27.5°	779.7	791.6	824.3	869.0	910.6	943.4	954.6	1004.4	1049.8	1099.1	1154.9
30°	769.2	783.4	819.1	850.4	891.3	921.8	938.9	994.0	1053.5	1118.4	1189.1
32.5°	755.0	770.0	802.0	824.3	872.7	898.7	923.3	992.5	1070.1	1151.2	1239.8
35°	744.5	749.0	764.8	789.3	843.7	877.9	909.2	992.5	1083.5	1172.8	1266.5
37.5°	715.5	717.7	731.1	767.8	816.9	865.3	900.2	993.3	1088.7	1175.7	1259.1
40°	685.7	686.5	700.6	737.1	793.1	846.6	885.3	983.6	1073.8	1154.2	1232.3
42.5°	641.1	647.0	667.1	703.6	775.2	820.6	865.3	953.1	1037.2	1116.2	1189.9
45°	597.9	606.1	622.5	665.6	739.3	784.9	828.8	914.4	991.8	1077.5	1151.2
47.5°	562.2	561.5	583.0	630.7	696.2	743.0	783.4	865.3	950.8	1045.4	1123.6
50°	506.4	518.3	541.4	589.0	650.8	702.1	737.8	819.1	911.4	1005.9	1101.3
52.5°	466.2	473.6	501.2	545.1	609.8	652.2	693.9	784.1	884.6	1000.0	1085.7
55°	422.9	432.6	461.0	504.9	577.1	618.0	660.4	760.9	877.9	991.8	1081.2
57.5°	387.9	395.3	421.4	470.7	544.3	592.7	641.8	744.5	869.0	985.1	1106.5
60°	350.7	358.1	391.6	440.7	519.0	569.6	616.5	731.1	866.0	1012.6	1178.7
62.5°	317.2	327.6	358.1	409.5	488.5	539.1	593.5	726.7	900.2	1093.1	1267.3
65°	288.2	299.3	332.8	384.2	461.7	524.2	589.7	765.5	968.7	1157.9	1288.1
67.5°	260.6	272.5	306.8	359.6	458.0	536.1	625.5	828.8	1017.8	1183.2	1264.3
70°	233.8	248.7	285.2	358.9	496.7	598.7	689.5	872.7	1043.1	1159.4	1208.5
72.5°	210.0	227.9	280.0	384.9	560.0	657.5	739.3	889.1	1016.3	1099.8	1102.1
75°	186.2	213.7	290.4	429.6	600.9	688.0	763.3	874.9	968.0	1008.1	982.8
77.5°	166.1	207.0	306.8	450.4	618.0	699.9	757.9	840.7	890.6	891.3	853.3
80°	140.7	192.2	302.3	450.4	609.1	685.0	734.9	779.7	793.1	782.6	755.0
82.5°	110.1	167.6	283.0	427.3	580.1	647.0	685.0	704.3	695.4	684.3	653.7
85°	76.7	134.7	250.2	396.8	533.2	589.0	620.2	620.2	597.2	564.4	548.8
87.5°	44.7	98.2	215.2	349.9	473.6	523.5	545.8	510.1	474.4	457.3	445.2
90°	21.6	65.5	173.6	308.3	408.0	436.3	437.0	390.1	365.6	368.5	369.3
92.5°	17.9	38.7	136.2	230.9	303.1	317.2	317.2	297.8	292.6	298.6	314.2
95°	14.9	16.4	71.4	153.5	207.0	220.4	227.9	232.4	246.5	263.6	277.0
97.5°	12.7	12.7	22.3	82.6	138.4	160.2	175.0	186.2	199.6	207.0	216.7
100°	10.4	10.4	11.9	27.5	77.4	97.5	108.7	116.1	128.0	140.7	155.0
102.5°	8.9	8.9	8.9	14.1	29.0	38.0	47.6	64.0	77.4	93.8	106.4
105°	7.4	7.4	7.4	8.9	17.9	23.1	30.5	43.9	55.8	70.0	80.4
107.5°	6.0	6.0	6.0	6.0	11.9	17.1	21.6	32.7	45.4	56.6	64.7
110°	4.5	4.5	4.5	5.2	7.4	11.2	14.9	24.6	34.2	43.9	52.8



TEST NUMBER: P798349
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-HIGH-3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	3.7	3.7	3.7	3.7	4.5	6.0	9.7	17.9	25.3	33.5	40.9
115°	3.0	3.0	3.0	3.0	3.0	3.0	4.5	11.2	17.9	23.8	32.0
117.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	6.0	12.7	18.6	23.8
120°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	7.4	13.4	18.6
122.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.7	3.0	8.2	13.4
125°	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	3.7	8.2
127.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	3.0
130°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.7	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



TEST NUMBER: P798349

CATALOG NUMBER: 4VT3-SL3C3-P-UNV-HIGH-3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7
2.5°	787.8	790.1	791.6	799.0	794.5	802.7	795.3	794.5	798.3	800.5
5°	832.5	843.7	852.6	863.0	860.0	865.3	864.5	864.5	880.9	875.7
7.5°	905.4	916.6	933.0	949.3	945.6	965.0	967.2	970.2	969.4	977.6
10°	980.6	1002.2	1018.6	1045.4	1043.1	1054.3	1069.3	1064.7	1076.8	1082.7
12.5°	1048.3	1073.0	1099.1	1123.6	1122.2	1128.9	1135.6	1140.0	1146.7	1149.7
15°	1099.1	1122.9	1145.2	1167.6	1165.3	1174.3	1178.0	1181.7	1190.6	1190.6
17.5°	1130.3	1146.0	1166.8	1191.4	1200.3	1204.8	1200.3	1213.0	1221.9	1216.7
20°	1137.0	1160.1	1192.9	1206.3	1221.1	1229.3	1233.8	1249.4	1248.7	1257.6
22.5°	1150.4	1181.7	1212.2	1253.9	1257.6	1277.7	1291.1	1307.5	1317.2	1319.4
25°	1172.8	1222.6	1267.3	1313.4	1329.8	1354.4	1382.8	1402.9	1419.3	1428.2
27.5°	1218.9	1280.7	1348.4	1405.1	1414.8	1444.6	1485.5	1515.3	1530.9	1542.1
30°	1277.7	1350.6	1420.7	1480.3	1507.8	1533.1	1571.1	1586.0	1611.3	1623.9
32.5°	1320.1	1393.2	1467.6	1524.2	1550.2	1573.3	1594.9	1608.3	1613.5	1625.4
35°	1340.2	1409.6	1486.2	1518.2	1536.8	1544.3	1554.0	1551.7	1552.5	1551.0
37.5°	1329.8	1394.0	1440.8	1466.9	1470.6	1469.1	1458.0	1432.7	1414.1	1415.5
40°	1302.3	1355.9	1385.8	1385.0	1376.1	1362.5	1337.2	1305.2	1293.3	1300.8
42.5°	1268.0	1303.0	1307.5	1297.8	1276.2	1274.0	1238.3	1227.8	1215.9	1216.7
45°	1224.9	1245.0	1251.7	1230.8	1218.2	1215.9	1199.6	1193.6	1195.8	1196.6
47.5°	1185.4	1207.0	1210.7	1205.5	1202.5	1207.0	1213.0	1227.8	1229.3	1253.9
50°	1160.9	1183.9	1209.2	1228.6	1236.0	1260.6	1294.1	1309.7	1328.3	1333.5
52.5°	1155.7	1195.1	1256.1	1304.5	1340.2	1373.1	1413.3	1470.6	1489.2	1507.1
55°	1170.5	1254.6	1352.1	1431.2	1490.0	1529.4	1584.5	1611.3	1630.6	1646.3
57.5°	1239.8	1371.6	1490.0	1545.8	1563.6	1583.7	1594.2	1601.6	1607.6	1616.5
60°	1351.4	1446.8	1510.1	1537.6	1544.3	1548.0	1541.3	1528.7	1516.8	1511.5
62.5°	1385.8	1441.6	1466.9	1455.0	1443.1	1433.4	1376.8	1352.9	1329.8	1336.5
65°	1364.0	1374.6	1345.4	1304.5	1269.5	1262.1	1211.5	1191.4	1161.6	1168.3
67.5°	1279.2	1245.0	1204.0	1149.7	1132.6	1107.3	1064.0	1045.4	1030.5	1020.1
70°	1194.4	1127.4	1073.0	1013.4	994.7	975.4	921.8	896.5	889.1	885.3
72.5°	1054.3	989.5	927.0	876.4	862.3	838.5	814.6	791.6	782.6	783.4
75°	912.1	852.6	812.4	789.3	790.8	787.8	783.4	778.2	781.2	787.1
77.5°	805.7	773.0	768.5	772.2	768.5	762.5	734.1	723.0	709.6	711.8
80°	729.7	713.3	686.5	673.1	678.3	672.3	666.4	651.5	657.5	655.2
82.5°	632.9	620.2	609.1	598.7	599.4	594.2	577.8	573.4	565.2	577.1
85°	542.1	524.2	521.3	517.5	519.8	517.5	516.8	510.8	512.3	517.5
87.5°	449.7	448.2	447.4	443.7	441.5	440.0	437.8	435.5	435.5	434.8
90°	373.0	378.2	391.6	398.3	405.8	410.2	419.2	419.9	422.9	422.1
92.5°	330.6	346.2	367.8	380.5	384.9	385.7	391.6	388.6	387.2	386.4
95°	291.1	297.8	306.8	312.7	319.4	320.2	320.9	317.2	317.9	318.7
97.5°	227.1	236.8	248.0	260.6	266.6	265.8	273.3	272.5	272.5	276.3
100°	167.6	180.3	188.4	202.6	199.6	196.6	201.8	198.9	211.5	207.0
102.5°	116.8	121.3	128.8	130.2	131.0	129.5	131.0	128.0	128.0	126.5
105°	89.3	96.0	102.7	107.2	107.9	107.9	108.7	106.4	106.4	105.7
107.5°	73.7	80.4	85.6	88.6	92.3	91.5	93.0	92.3	93.0	91.5
110°	59.5	66.2	72.2	75.2	78.1	78.1	78.9	78.9	78.1	78.1



TEST NUMBER: P798349
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-HIGH-3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	48.4	54.3	58.8	63.3	65.5	66.2	66.2	67.0	67.0	67.0
115°	38.0	43.9	49.9	53.6	55.8	56.6	57.3	56.6	55.8	55.8
117.5°	29.8	35.0	40.2	44.7	46.9	47.6	49.1	48.4	48.4	47.6
120°	23.8	28.3	33.5	37.2	38.7	40.2	41.7	40.9	40.2	40.9
122.5°	18.6	22.3	26.8	30.5	32.0	32.7	33.5	32.7	33.5	32.7
125°	13.4	17.1	20.8	23.8	25.3	26.8	27.5	26.8	26.8	26.8
127.5°	7.4	11.2	14.9	17.9	19.4	20.1	21.6	20.8	20.1	20.1
130°	2.2	6.7	10.4	12.7	14.1	15.6	15.6	15.6	14.9	14.1
132.5°	0.0	1.5	5.2	8.2	9.7	10.4	10.4	10.4	9.7	9.7
135°	0.0	0.0	0.7	3.0	4.5	5.2	6.0	5.2	5.2	4.5
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)