

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: P798332

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798332
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-MID-4000K
Description: Vaportite LED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

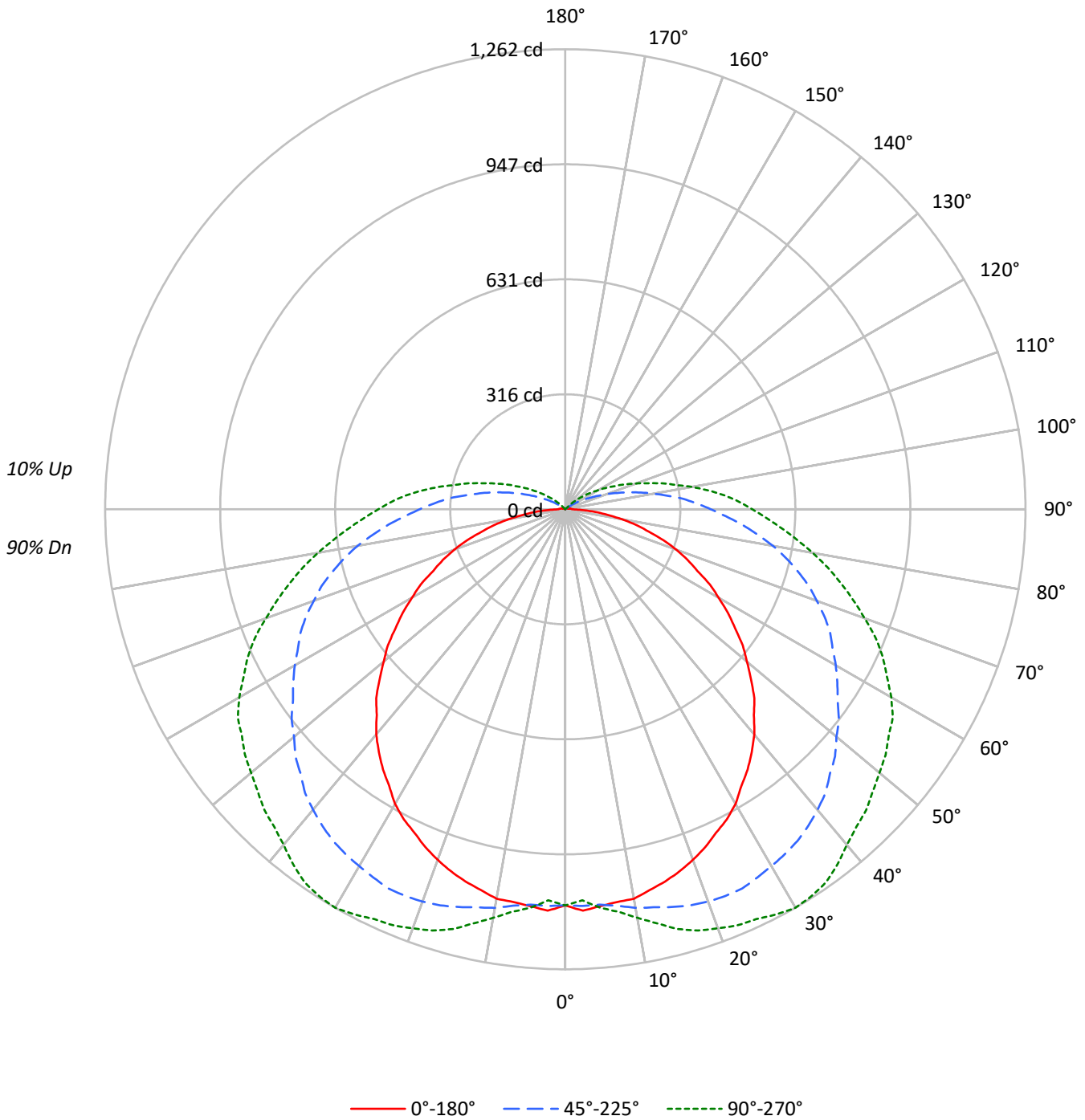
Lumens per Lamp: N/A
Luminaire Lumens: 5550.7 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.66
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 37.6
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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CATALOG NUMBER: 4VT3-SL3C3-W-UNV-MID-4000K

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°	5848	5848	5848
5°	5903	5883	5927
10°	5928	6068	6218
15°	5891	6294	6643
20°	5861	6560	7007
25°	5814	6817	7365
30°	5801	7024	7844
35°	5726	7295	8198
40°	5666	7559	8442
45°	5581	7813	8883
50°	5444	8128	9417
55°	5332	8553	10160
60°	5223	9219	11109
65°	5088	10207	12236
70°	5095	11550	13744
75°	4926	13741	16263
80°	4885	17942	21354
85°	4983	30079	36754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 68121 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	1.9
10°-20°	319.7	5.8
20°-30°	521.9	9.4
30°-40°	680.1	12.3
40°-50°	763.5	13.8
50°-60°	780.5	14.1
60°-70°	733.0	13.2
70°-80°	619.5	11.2
80°-90°	458.8	8.3
90°-100°	300.3	5.4
100°-110°	165.6	3.0
110°-120°	75.0	1.4
120°-130°	25.0	0.5
130°-140°	3.0	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°	946.4	17.1
0°-40°	1626.5	29.3
0°-60°	3170.5	57.1
0°-90°	4981.9	89.8
90°-120°	540.8	9.7
90°-150°	568.9	10.2
90°-180°	569.0	10.3
0°-180°	5550.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1093	1092	1089	1098	1097	104
15°	1057	1082	1130	1180	1192	298
25°	979	1041	1148	1223	1240	452
35°	872	958	1110	1226	1248	545
45°	733	843	1026	1135	1167	563
55°	568	702	912	1045	1083	510
65°	400	551	802	932	961	400
75°	237	415	661	762	782	253
85°	81	280	487	578	595	81
90°	21	209	399	490	513	14
95°	16	149	326	409	438	12
105°	8	46	179	252	275	9
115°	4	4	75	137	151	4
125°	1	1	16	56	68	1
135°	1	0	0	4	11	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: P798332

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1102.1	1089.0	1089.6	1087.8	1087.8	1095.2	1093.4	1088.3	1089.6	1087.2	1089.0
5°	1092.7	1086.6	1087.2	1090.9	1090.2	1091.5	1092.7	1089.6	1095.2	1093.4	1089.0
7.5°	1086.6	1081.6	1082.8	1077.8	1087.8	1090.2	1090.2	1088.3	1094.0	1095.9	1096.5
10°	1084.7	1075.3	1079.1	1071.6	1081.6	1092.7	1090.9	1097.7	1102.1	1106.5	1110.3
12.5°	1069.7	1065.9	1064.0	1069.7	1083.5	1092.1	1086.6	1091.5	1103.4	1111.5	1118.4
15°	1057.2	1055.9	1055.3	1060.9	1067.2	1082.2	1084.1	1097.1	1113.4	1117.8	1129.7
17.5°	1041.5	1037.7	1040.2	1044.6	1064.7	1074.1	1082.8	1092.1	1114.7	1123.4	1139.1
20°	1023.3	1021.0	1029.0	1034.6	1053.4	1064.7	1075.3	1090.2	1107.1	1128.4	1145.3
22.5°	1002.8	1001.5	1008.4	1019.7	1044.0	1054.6	1062.2	1082.8	1109.0	1126.6	1147.9
25°	979.0	979.0	986.5	1004.7	1033.4	1040.9	1052.8	1070.9	1095.2	1117.8	1147.9
27.5°	958.9	958.9	965.8	984.0	1007.8	1027.7	1042.7	1055.9	1087.8	1112.8	1139.1
30°	933.4	936.5	942.2	958.9	988.4	1005.9	1019.7	1045.3	1075.9	1103.4	1130.3
32.5°	898.9	900.2	914.6	935.3	965.2	982.7	1001.5	1027.1	1067.2	1084.1	1121.5
35°	871.5	871.5	884.7	905.8	944.7	957.7	975.9	1005.9	1041.5	1072.2	1110.3
37.5°	839.6	840.2	857.7	886.5	917.1	934.0	951.6	984.6	1020.3	1052.1	1094.6
40°	806.5	811.5	820.3	849.0	885.3	905.8	920.9	958.3	1004.0	1035.2	1075.9
42.5°	765.2	770.8	786.4	815.9	850.8	879.6	897.7	930.9	973.3	1015.3	1055.9
45°	733.3	736.5	751.5	780.8	820.3	842.7	860.9	902.7	947.2	988.4	1026.5
47.5°	690.9	697.6	712.7	745.9	787.7	812.8	828.3	869.6	917.1	956.4	1003.4
50°	650.2	655.8	677.1	707.0	753.4	774.5	795.8	837.1	890.8	932.8	970.8
52.5°	613.3	617.7	636.4	672.1	712.7	740.8	757.8	805.9	859.0	900.8	945.9
55°	568.2	578.9	597.7	633.2	679.6	702.0	718.3	768.9	822.8	871.5	911.5
57.5°	528.9	539.5	559.0	596.4	641.4	662.7	688.4	738.3	787.7	838.9	884.7
60°	485.2	496.3	518.2	559.6	604.6	626.5	648.3	702.6	755.9	804.0	856.5
62.5°	447.0	455.1	481.4	515.7	562.0	587.6	612.1	665.8	728.9	778.3	826.4
65°	399.5	416.4	440.1	480.8	526.4	551.4	578.2	633.2	689.6	744.6	801.5
67.5°	363.2	373.2	401.4	439.4	488.3	518.2	542.7	604.6	661.4	715.8	769.5
70°	323.8	333.2	360.8	401.4	452.6	478.9	512.0	570.7	633.9	685.2	734.0
72.5°	282.6	293.9	320.1	362.0	418.3	448.8	477.0	540.2	605.2	652.0	700.8
75°	236.9	253.8	284.5	325.1	382.6	415.1	443.2	510.1	568.2	616.5	660.8
77.5°	198.8	212.0	246.3	296.4	354.5	383.8	413.9	477.7	535.2	579.5	620.8
80°	157.6	175.6	206.3	258.8	317.6	348.3	379.4	439.4	494.6	538.9	578.9
82.5°	116.9	133.2	171.2	225.7	285.7	315.1	341.4	400.1	453.2	497.6	532.0
85°	80.7	95.7	138.2	193.2	250.0	279.5	305.7	365.0	413.3	450.1	487.1
87.5°	45.0	65.0	108.7	160.7	217.0	245.0	268.8	324.4	369.4	408.9	440.7
90°	20.7	41.2	80.0	130.0	181.9	208.8	233.8	283.9	330.1	364.4	398.9
92.5°	17.5	25.1	59.4	104.4	154.5	178.8	203.8	250.7	291.4	330.1	360.8
95°	15.7	16.9	38.7	80.7	125.0	149.4	171.9	217.0	255.7	292.0	325.7
97.5°	13.8	13.8	23.8	56.9	99.3	119.4	140.7	184.4	220.7	255.1	284.5
100°	11.3	11.9	13.8	36.8	71.9	91.3	112.5	150.7	186.9	219.5	245.7
102.5°	10.0	10.0	10.6	22.5	49.4	66.9	85.7	119.4	155.7	184.4	212.6
105°	8.1	8.8	8.8	11.9	33.1	46.2	61.9	94.5	124.4	153.2	178.8
107.5°	6.9	6.9	6.9	7.5	20.0	30.1	42.5	68.8	97.6	125.0	148.8
110°	5.6	5.6	5.6	6.3	9.4	17.5	27.6	48.7	73.8	100.0	120.6



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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	4.4	5.0	5.0	5.0	5.6	8.1	15.7	35.0	53.7	76.3	95.7
115°	3.8	3.8	3.8	3.8	4.4	4.4	6.3	20.7	38.7	56.2	75.0
117.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	10.0	25.7	40.6	56.2
120°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.8	13.8	28.2	40.6
122.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	15.7	27.6
125°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	5.0	15.7
127.5°	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	1.3	5.6
130°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.6
132.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.6	0.6	0.6	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°	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1078.5	1083.5	1089.6	1092.1	1087.2	1091.5	1091.5	1085.3	1086.0	1073.4
5°	1084.1	1093.4	1102.1	1097.1	1097.7	1097.1	1104.0	1099.0	1097.1	1097.1
7.5°	1099.0	1107.1	1109.0	1114.7	1114.0	1120.3	1114.7	1119.7	1117.8	1113.4
10°	1114.7	1118.4	1123.4	1138.5	1139.7	1137.2	1146.6	1139.1	1139.7	1137.8
12.5°	1122.2	1143.5	1144.1	1159.0	1155.9	1165.3	1166.5	1169.0	1169.6	1163.4
15°	1140.3	1155.2	1167.1	1179.7	1179.7	1187.2	1194.1	1193.4	1194.1	1192.2
17.5°	1152.2	1175.3	1183.4	1194.1	1198.5	1206.6	1210.4	1216.6	1214.7	1211.6
20°	1160.9	1178.4	1196.6	1207.9	1206.0	1216.0	1225.9	1216.0	1222.8	1223.4
22.5°	1158.4	1185.9	1199.1	1213.5	1219.1	1222.8	1230.9	1238.4	1238.4	1235.3
25°	1160.3	1184.1	1204.1	1218.5	1222.8	1231.5	1242.2	1244.7	1248.4	1240.3
27.5°	1157.1	1184.7	1206.0	1221.5	1221.5	1240.3	1244.7	1255.3	1258.5	1252.8
30°	1158.4	1182.8	1202.8	1227.8	1233.4	1243.4	1254.7	1262.2	1261.0	1262.2
32.5°	1149.7	1177.8	1201.0	1227.8	1236.5	1242.2	1255.3	1256.6	1255.3	1257.8
35°	1134.7	1169.0	1204.1	1218.5	1225.9	1237.2	1240.3	1246.6	1257.2	1247.8
37.5°	1125.3	1159.0	1177.8	1200.3	1208.5	1217.9	1224.6	1225.9	1227.8	1227.1
40°	1107.8	1139.7	1156.5	1179.7	1182.8	1197.8	1193.4	1199.7	1205.3	1201.6
42.5°	1089.0	1114.7	1137.2	1153.5	1160.9	1164.6	1176.5	1179.0	1185.9	1181.5
45°	1059.7	1087.2	1111.5	1129.1	1135.3	1147.9	1153.5	1157.7	1164.6	1167.1
47.5°	1035.9	1063.4	1088.3	1114.0	1112.8	1127.2	1137.8	1135.9	1141.6	1144.1
50°	1004.0	1037.7	1068.4	1086.6	1092.7	1106.5	1110.9	1123.4	1129.1	1124.7
52.5°	978.4	1015.3	1034.6	1064.7	1072.2	1083.5	1095.9	1097.1	1109.0	1107.1
55°	952.2	985.2	1016.6	1035.9	1044.6	1059.0	1067.8	1072.8	1077.8	1082.8
57.5°	919.0	961.4	987.8	1012.2	1021.6	1030.8	1044.0	1050.3	1060.9	1064.7
60°	893.3	937.1	958.9	987.1	996.5	1007.2	1016.6	1022.1	1030.2	1032.1
62.5°	865.9	905.2	932.1	958.3	967.1	975.9	986.5	995.9	999.0	994.6
65°	833.9	874.0	898.3	924.6	931.5	948.4	945.3	954.7	958.3	960.8
67.5°	804.0	848.3	867.1	882.8	898.9	897.1	909.6	909.0	916.5	921.5
70°	768.3	803.4	820.9	843.9	848.3	854.0	864.0	866.5	870.9	873.4
72.5°	731.5	767.7	783.3	799.6	810.2	809.6	816.5	821.5	827.0	827.7
75°	695.1	718.9	738.3	754.0	762.0	763.3	772.0	770.8	783.9	782.1
77.5°	653.3	679.6	692.1	707.7	714.5	721.4	725.8	729.6	731.5	736.5
80°	603.9	635.1	644.5	661.4	666.4	674.0	675.8	684.0	687.1	689.0
82.5°	562.0	582.6	597.0	613.9	625.2	624.0	632.0	637.0	640.8	640.8
85°	515.1	538.9	552.1	567.0	577.6	579.5	587.6	587.6	592.7	595.2
87.5°	466.4	495.1	505.7	522.0	533.9	532.0	537.7	545.2	547.7	552.1
90°	423.3	446.3	463.9	479.5	490.2	491.4	497.6	503.8	505.1	512.6
92.5°	388.2	407.6	426.4	442.6	446.3	451.3	457.0	467.0	468.9	476.4
95°	347.6	371.3	386.3	402.6	408.9	412.6	418.9	426.4	432.6	438.2
97.5°	310.7	332.0	348.3	360.8	369.4	371.9	380.1	385.1	389.5	395.7
100°	271.3	290.1	307.5	321.9	328.8	330.7	339.5	343.2	347.0	352.6
102.5°	235.0	257.6	267.6	283.2	288.9	292.0	298.1	306.3	306.9	308.8
105°	198.2	220.1	234.4	245.7	252.5	255.1	261.3	270.1	270.7	275.1
107.5°	169.4	188.2	202.6	214.5	221.4	223.9	228.9	231.9	236.3	237.5
110°	141.3	158.2	172.5	182.5	188.2	193.2	198.8	203.8	206.3	206.9



TEST NUMBER: P798332
 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-MID-4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	114.4	130.7	143.2	155.7	160.7	164.5	170.0	176.3	179.4	179.4
115°	91.9	106.9	120.0	130.0	136.9	138.8	143.8	148.8	151.3	151.3
117.5°	70.7	86.3	98.2	106.9	111.9	114.4	120.6	125.6	127.5	128.8
120°	53.7	66.3	77.5	86.9	90.1	94.5	98.8	103.1	105.6	105.6
122.5°	39.3	50.6	58.8	66.9	72.5	73.8	79.4	84.4	85.7	86.9
125°	26.9	36.2	44.3	51.2	55.6	56.9	61.3	65.6	66.9	68.1
127.5°	13.8	23.2	30.7	37.5	40.6	43.1	46.9	50.6	51.9	52.5
130°	3.8	10.6	18.2	24.4	26.9	28.8	33.1	35.6	38.1	37.5
132.5°	0.0	1.9	6.3	11.9	13.8	16.3	20.0	22.5	23.8	25.1
135°	0.0	0.0	0.6	2.5	3.8	5.0	7.5	10.6	10.6	10.6
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)