

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: P798330

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

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798330  
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-3000K  
Description: Vaportite LED Selectable  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

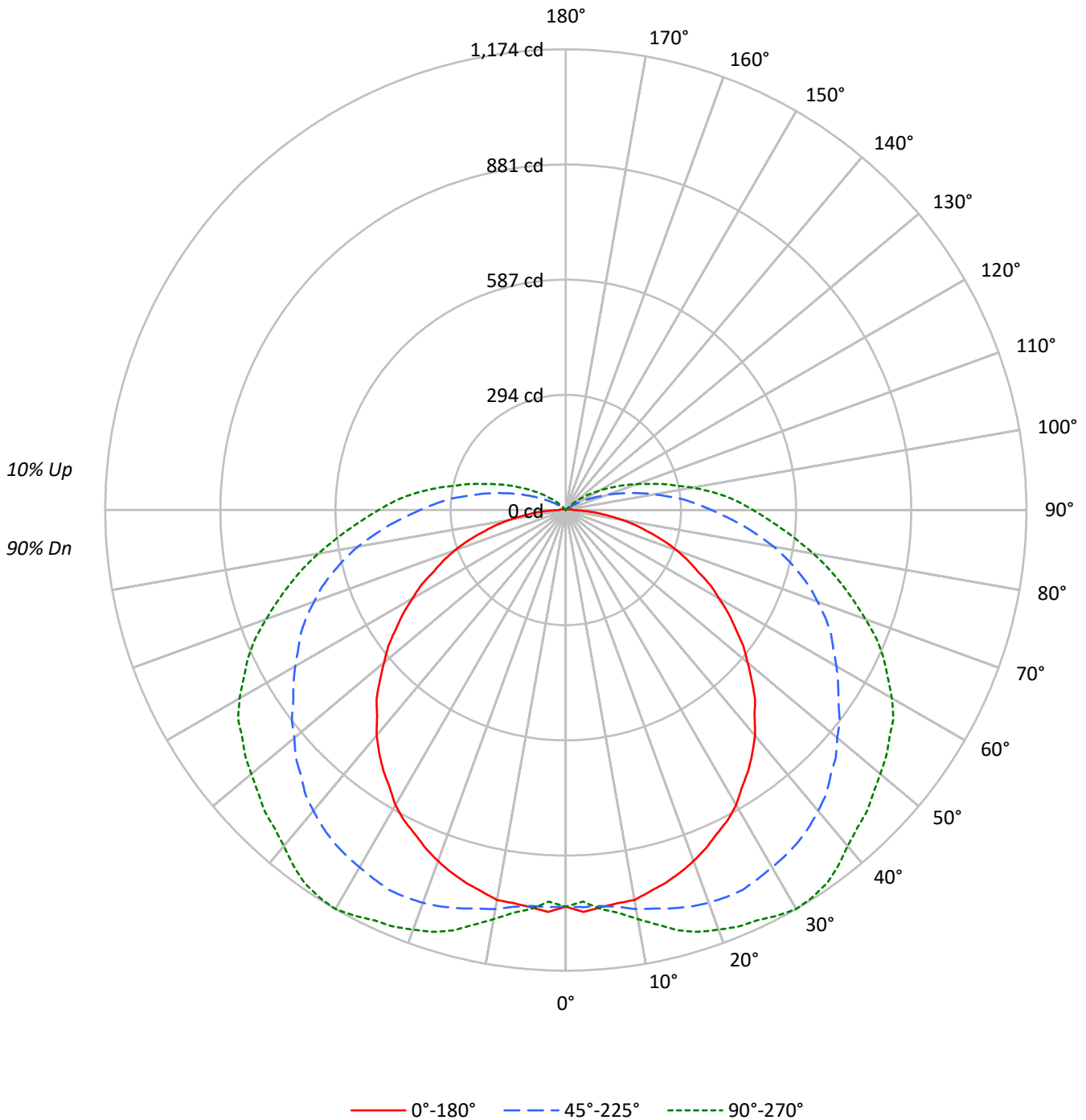
Lumens per Lamp: N/A  
Luminaire Lumens: 5163.2 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.66  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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



TEST NUMBER: P798330  
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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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°	5440	5440	5440
5°	5491	5472	5513
10°	5514	5644	5784
15°	5479	5855	6179
20°	5452	6102	6518
25°	5407	6340	6851
30°	5395	6534	7297
35°	5326	6785	7626
40°	5271	7031	7853
45°	5192	7267	8264
50°	5064	7562	8759
55°	4960	7955	9451
60°	4858	8576	10333
65°	4732	9494	11381
70°	4740	10743	12784
75°	4581	12782	15128
80°	4544	16690	19864
85°	4631	27973	34185

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 63358 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.6	1.9
10°-20°	297.3	5.8
20°-30°	485.5	9.4
30°-40°	632.6	12.3
40°-50°	710.2	13.8
50°-60°	726.0	14.1
60°-70°	681.8	13.2
70°-80°	576.3	11.2
80°-90°	426.8	8.3
90°-100°	279.3	5.4
100°-110°	154.0	3.0
110°-120°	69.7	1.4
120°-130°	23.3	0.5
130°-140°	2.8	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°	880.4	17.1
0°-40°	1513.0	29.3
0°-60°	2949.2	57.1
0°-90°	4634.0	89.8
90°-120°	503.1	9.7
90°-150°	529.1	10.2
90°-180°	529.0	10.2
0°-180°	5163.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1016	1015	1013	1021	1020	97
15°	983	1007	1051	1097	1109	278
25°	911	968	1068	1137	1154	421
35°	811	891	1033	1140	1161	507
45°	682	784	955	1056	1086	524
55°	529	653	848	972	1007	474
65°	372	513	746	866	894	372
75°	220	386	615	709	728	235
85°	75	260	453	537	554	76
90°	19	194	371	456	477	13
95°	15	139	303	380	408	11
105°	8	43	166	235	256	8
115°	4	4	70	127	141	4
125°	1	1	15	52	63	1
135°	1	0	0	4	10	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°	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7
2.5°	1025.2	1012.9	1013.5	1011.9	1011.9	1018.8	1017.0	1012.4	1013.5	1011.3	1012.9
5°	1016.4	1010.7	1011.3	1014.7	1014.1	1015.3	1016.4	1013.5	1018.8	1017.0	1012.9
7.5°	1010.7	1006.1	1007.2	1002.6	1011.9	1014.1	1014.1	1012.4	1017.6	1019.3	1019.9
10°	1009.0	1000.2	1003.7	996.7	1006.1	1016.4	1014.7	1021.1	1025.2	1029.3	1032.7
12.5°	995.0	991.5	989.8	995.0	1007.8	1015.9	1010.7	1015.3	1026.3	1033.9	1040.3
15°	983.3	982.2	981.6	986.8	992.7	1006.6	1008.4	1020.5	1035.7	1039.7	1050.8
17.5°	968.8	965.3	967.6	971.7	990.3	999.1	1007.2	1015.9	1036.8	1045.0	1059.5
20°	951.9	949.7	957.1	962.4	979.8	990.3	1000.2	1014.1	1029.8	1049.6	1065.4
22.5°	932.8	931.6	938.0	948.5	971.1	981.0	988.0	1007.2	1031.6	1047.9	1067.7
25°	910.6	910.6	917.6	934.5	961.2	968.2	979.3	996.2	1018.8	1039.7	1067.7
27.5°	892.0	892.0	898.4	915.3	937.4	956.0	969.9	982.2	1011.9	1035.1	1059.5
30°	868.2	871.1	876.4	892.0	919.4	935.7	948.5	972.3	1000.8	1026.3	1051.4
32.5°	836.2	837.3	850.7	870.0	897.8	914.1	931.6	955.4	992.7	1008.4	1043.2
35°	810.7	810.7	822.9	842.6	878.7	890.8	907.7	935.7	968.8	997.3	1032.7
37.5°	780.9	781.5	797.8	824.6	853.1	868.8	885.1	915.9	949.1	978.7	1018.2
40°	750.2	754.8	763.0	789.7	823.5	842.6	856.6	891.4	933.9	963.0	1000.8
42.5°	711.7	717.0	731.5	758.9	791.4	818.2	835.0	865.9	905.4	944.4	982.2
45°	682.1	685.0	699.0	726.3	763.0	783.9	800.8	839.7	881.0	919.4	954.8
47.5°	642.6	648.9	662.9	693.8	732.7	756.0	770.5	808.9	853.1	889.7	933.4
50°	604.8	610.0	629.8	657.7	700.8	720.5	740.3	778.6	828.6	867.6	903.1
52.5°	570.5	574.6	591.9	625.1	662.9	689.1	704.9	749.6	799.0	837.9	879.9
55°	528.6	538.5	555.9	589.0	632.1	653.0	668.1	715.2	765.3	810.7	847.8
57.5°	492.0	501.9	519.9	554.8	596.6	616.4	640.3	686.8	732.7	780.4	822.9
60°	451.3	461.7	482.1	520.5	562.3	582.7	603.0	653.6	703.1	747.8	796.7
62.5°	415.8	423.3	447.8	479.7	522.7	546.6	569.3	619.3	678.1	724.0	768.7
65°	371.6	387.3	409.3	447.2	489.6	512.9	537.9	589.0	641.5	692.6	745.5
67.5°	337.8	347.1	373.3	408.8	454.2	482.1	504.8	562.3	615.2	665.8	715.8
70°	301.2	310.0	335.6	373.3	421.0	445.5	476.2	530.9	589.6	637.4	682.7
72.5°	262.9	273.4	297.7	336.8	389.1	417.5	443.7	502.4	562.9	606.5	651.8
75°	220.3	236.1	264.6	302.4	355.9	386.2	412.3	474.5	528.6	573.4	614.7
77.5°	184.9	197.2	229.1	275.7	329.8	357.0	385.0	444.3	497.8	539.0	577.5
80°	146.6	163.4	191.9	240.7	295.4	323.9	353.0	408.8	460.0	501.3	538.5
82.5°	108.7	123.9	159.3	210.0	265.8	293.1	317.5	372.2	421.6	462.8	494.9
85°	75.0	89.0	128.5	179.7	232.6	260.0	284.3	339.5	384.4	418.7	453.0
87.5°	41.8	60.5	101.1	149.5	201.8	227.9	250.1	301.8	343.6	380.3	409.9
90°	19.2	38.3	74.5	121.0	169.2	194.2	217.4	264.0	307.0	339.0	371.0
92.5°	16.3	23.3	55.2	97.1	143.7	166.3	189.6	233.2	271.0	307.0	335.6
95°	14.6	15.7	36.0	75.0	116.3	139.0	159.9	201.8	237.8	271.6	303.0
97.5°	12.8	12.8	22.1	52.9	92.4	111.0	130.9	171.5	205.3	237.2	264.6
100°	10.5	11.1	12.8	34.3	66.9	84.9	104.6	140.2	173.9	204.1	228.5
102.5°	9.3	9.3	9.9	21.0	45.9	62.2	79.7	111.0	144.8	171.5	197.7
105°	7.6	8.2	8.2	11.1	30.8	43.0	57.6	87.9	115.7	142.5	166.3
107.5°	6.4	6.4	6.4	7.0	18.6	28.0	39.5	64.0	90.8	116.3	138.4
110°	5.2	5.2	5.2	5.8	8.7	16.3	25.6	45.3	68.6	93.0	112.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	4.1	4.7	4.7	4.7	5.2	7.6	14.6	32.5	50.0	71.0	89.0
115°	3.5	3.5	3.5	3.5	4.1	4.1	5.8	19.2	36.0	52.3	69.8
117.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	9.3	23.9	37.8	52.3
120°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	12.8	26.2	37.8
122.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	14.6	25.6
125°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	4.7	14.6
127.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2	5.2
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°	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7	1010.7
2.5°	1003.2	1007.8	1013.5	1015.9	1011.3	1015.3	1015.3	1009.6	1010.1	998.5
5°	1008.4	1017.0	1025.2	1020.5	1021.1	1020.5	1026.9	1022.3	1020.5	1020.5
7.5°	1022.3	1029.8	1031.6	1036.8	1036.2	1042.1	1036.8	1041.5	1039.7	1035.7
10°	1036.8	1040.3	1045.0	1059.0	1060.1	1057.8	1066.5	1059.5	1060.1	1058.4
12.5°	1043.8	1063.6	1064.2	1078.1	1075.2	1083.9	1085.1	1087.4	1088.0	1082.2
15°	1060.7	1074.6	1085.7	1097.3	1097.3	1104.3	1110.7	1110.1	1110.7	1109.0
17.5°	1071.8	1093.2	1100.8	1110.7	1114.8	1122.4	1125.9	1131.7	1129.9	1127.0
20°	1079.8	1096.1	1113.0	1123.5	1121.8	1131.1	1140.3	1131.1	1137.4	1138.0
22.5°	1077.5	1103.1	1115.4	1128.8	1134.0	1137.4	1145.0	1152.0	1152.0	1149.0
25°	1079.2	1101.4	1120.0	1133.4	1137.4	1145.5	1155.4	1157.8	1161.3	1153.7
27.5°	1076.3	1102.0	1121.8	1136.2	1136.2	1153.7	1157.8	1167.7	1170.6	1165.4
30°	1077.5	1100.2	1118.9	1142.0	1147.3	1156.6	1167.1	1174.1	1172.9	1174.1
32.5°	1069.5	1095.6	1117.1	1142.0	1150.2	1155.4	1167.7	1168.8	1167.7	1170.0
35°	1055.5	1087.4	1120.0	1133.4	1140.3	1150.8	1153.7	1159.5	1169.4	1160.7
37.5°	1046.7	1078.1	1095.6	1116.5	1124.1	1132.8	1139.1	1140.3	1142.0	1141.5
40°	1030.4	1060.1	1075.7	1097.3	1100.2	1114.2	1110.1	1115.9	1121.2	1117.7
42.5°	1012.9	1036.8	1057.8	1072.9	1079.8	1083.3	1094.4	1096.7	1103.1	1099.1
45°	985.7	1011.3	1033.9	1050.2	1056.1	1067.7	1072.9	1076.9	1083.3	1085.7
47.5°	963.5	989.2	1012.4	1036.2	1035.1	1048.5	1058.4	1056.6	1061.9	1064.2
50°	933.9	965.3	993.8	1010.7	1016.4	1029.3	1033.3	1045.0	1050.2	1046.1
52.5°	910.0	944.4	962.4	990.3	997.3	1007.8	1019.3	1020.5	1031.6	1029.8
55°	885.7	916.5	945.6	963.5	971.7	985.1	993.2	997.9	1002.6	1007.2
57.5°	854.8	894.3	918.8	941.5	950.3	958.9	971.1	976.9	986.8	990.3
60°	830.9	871.7	892.0	918.2	926.9	936.8	945.6	950.7	958.3	960.0
62.5°	805.4	842.0	867.1	891.4	899.6	907.7	917.6	926.4	929.3	925.2
65°	775.7	813.0	835.6	860.1	866.5	882.2	879.3	888.0	891.4	893.7
67.5°	747.8	789.1	806.6	821.1	836.2	834.4	846.1	845.5	852.5	857.1
70°	714.6	747.3	763.6	785.0	789.1	794.3	803.7	806.0	810.1	812.4
72.5°	680.4	714.1	728.6	743.8	753.7	753.1	759.5	764.2	769.3	769.9
75°	646.6	668.7	686.8	701.4	708.8	710.0	718.1	717.0	729.2	727.5
77.5°	607.7	632.1	643.8	658.2	664.7	671.1	675.1	678.6	680.4	685.0
80°	561.8	590.8	599.5	615.2	619.9	626.9	628.6	636.2	639.1	640.9
82.5°	522.7	542.0	555.4	571.1	581.6	580.4	587.9	592.5	596.0	596.0
85°	479.1	501.3	513.5	527.4	537.3	539.0	546.6	546.6	551.3	553.6
87.5°	433.8	460.5	470.4	485.6	496.6	494.9	500.1	507.1	509.4	513.5
90°	393.7	415.2	431.5	446.1	456.0	457.1	462.8	468.7	469.8	476.8
92.5°	361.1	379.2	396.6	411.7	415.2	419.8	425.1	434.4	436.1	443.1
95°	323.4	345.4	359.4	374.5	380.3	383.8	389.7	396.6	402.4	407.6
97.5°	289.0	308.8	323.9	335.6	343.6	346.0	353.5	358.2	362.3	368.1
100°	252.4	269.9	286.1	299.5	305.9	307.6	315.8	319.3	322.8	328.0
102.5°	218.6	239.6	248.9	263.5	268.7	271.6	277.3	284.9	285.5	287.2
105°	184.3	204.7	218.0	228.5	234.9	237.2	243.1	251.2	251.8	255.9
107.5°	157.5	175.0	188.4	199.5	205.9	208.2	212.9	215.7	219.8	220.9
110°	131.4	147.2	160.5	169.8	175.0	179.7	184.9	189.6	191.9	192.5





TEST NUMBER: P798330  
 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-MID-3000K

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	106.4	121.5	133.2	144.8	149.5	153.0	158.1	163.9	166.9	166.9
115°	85.5	99.4	111.6	121.0	127.4	129.1	133.8	138.4	140.8	140.8
117.5°	65.7	80.3	91.4	99.4	104.1	106.4	112.2	116.9	118.6	119.8
120°	50.0	61.6	72.1	80.9	83.8	87.9	91.9	95.9	98.2	98.2
122.5°	36.6	47.1	54.6	62.2	67.5	68.6	73.9	78.5	79.7	80.9
125°	25.1	33.7	41.2	47.7	51.7	52.9	57.0	61.1	62.2	63.4
127.5°	12.8	21.6	28.5	34.8	37.8	40.1	43.6	47.1	48.2	48.8
130°	3.5	9.9	16.9	22.7	25.1	26.8	30.8	33.1	35.4	34.8
132.5°	0.0	1.7	5.8	11.1	12.8	15.1	18.6	21.0	22.1	23.3
135°	0.0	0.0	0.6	2.3	3.5	4.7	7.0	9.9	9.9	9.9
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)