

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: P798331

Luminaire Tested: 4VT3-SL3C3-W-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798331
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-3500K
Description: Vaportite LED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

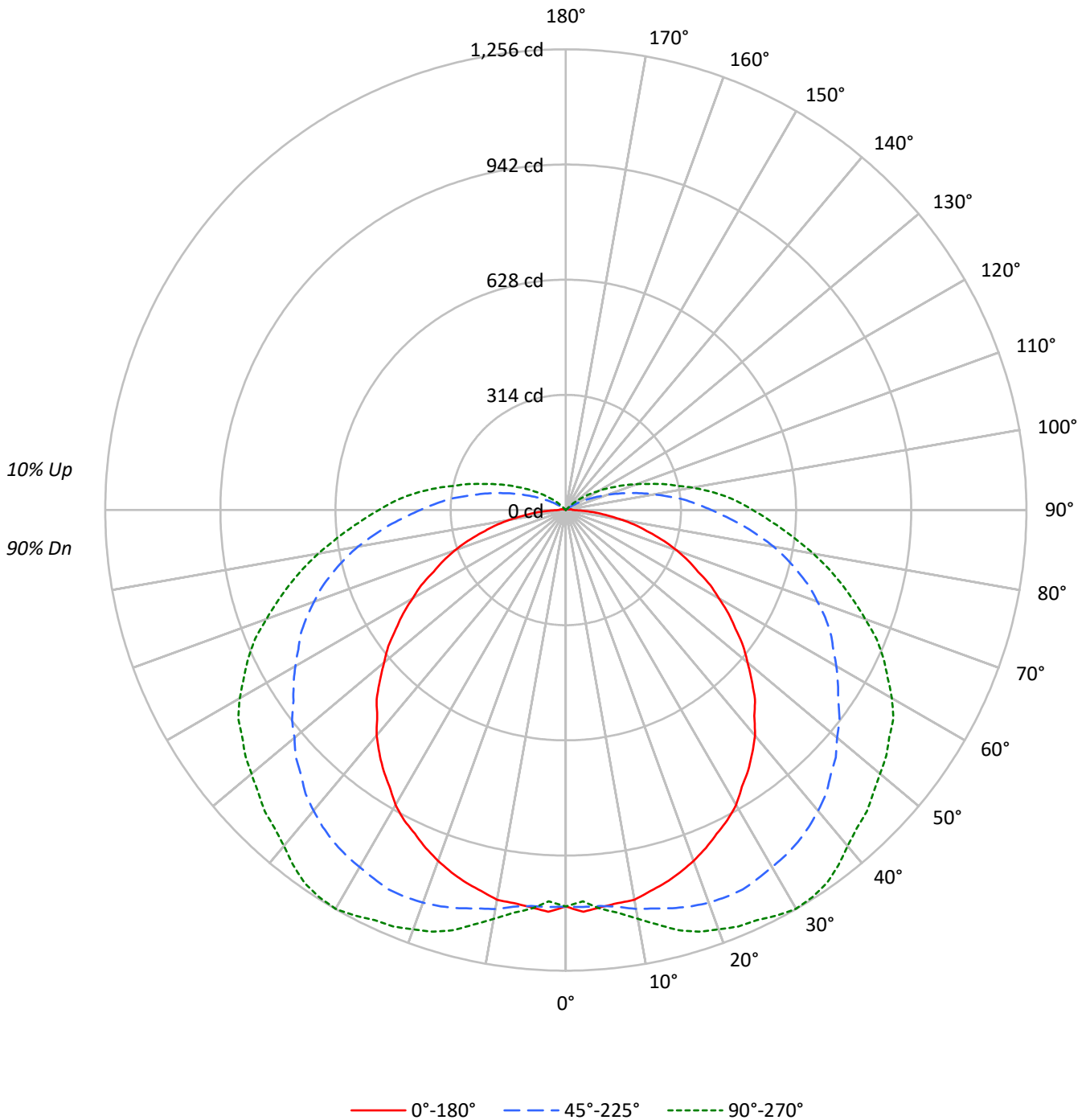
Lumens per Lamp: N/A
Luminaire Lumens: 5521.7 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.66
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 36.5
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	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°	5817	5817	5817
5°	5873	5853	5896
10°	5897	6036	6186
15°	5859	6262	6608
20°	5830	6525	6970
25°	5783	6780	7327
30°	5770	6988	7803
35°	5696	7257	8156
40°	5637	7520	8398
45°	5552	7772	8837
50°	5415	8086	9368
55°	5303	8508	10108
60°	5195	9171	11051
65°	5061	10153	12172
70°	5068	11489	13671
75°	4899	13668	16178
80°	4860	17846	21243
85°	4959	29918	36557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 67763 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	1.9
10°-20°	318.0	5.8
20°-30°	519.2	9.4
30°-40°	676.5	12.3
40°-50°	759.5	13.8
50°-60°	776.4	14.1
60°-70°	729.2	13.2
70°-80°	616.3	11.2
80°-90°	456.4	8.3
90°-100°	298.7	5.4
100°-110°	164.7	3.0
110°-120°	74.6	1.4
120°-130°	24.9	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°	941.5	17.1
0°-40°	1618.0	29.3
0°-60°	3153.9	57.1
0°-90°	4955.8	89.8
90°-120°	538.0	9.7
90°-150°	565.9	10.2
90°-180°	566.0	10.3
0°-180°	5521.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1087	1086	1083	1092	1091	103
15°	1052	1076	1124	1174	1186	297
25°	974	1035	1142	1216	1234	450
35°	867	953	1104	1220	1241	542
45°	730	838	1021	1129	1161	560
55°	565	698	907	1039	1077	507
65°	397	549	797	927	956	397
75°	236	413	657	758	778	252
85°	80	278	484	575	592	81
90°	21	208	397	488	510	14
95°	16	149	324	407	436	12
105°	8	46	178	251	274	9
115°	4	4	75	136	150	4
125°	1	1	16	55	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9
2.5°	1096.4	1083.3	1083.9	1082.1	1082.1	1089.5	1087.6	1082.6	1083.9	1081.5	1083.3
5°	1087.0	1080.9	1081.5	1085.1	1084.5	1085.8	1087.0	1083.9	1089.5	1087.6	1083.3
7.5°	1080.9	1075.9	1077.2	1072.2	1082.1	1084.5	1084.5	1082.6	1088.3	1090.1	1090.7
10°	1079.0	1069.7	1073.4	1065.9	1075.9	1087.0	1085.1	1092.0	1096.4	1100.7	1104.5
12.5°	1064.1	1060.3	1058.5	1064.1	1077.8	1086.4	1080.9	1085.8	1097.6	1105.7	1112.6
15°	1051.6	1050.4	1049.7	1055.4	1061.6	1076.5	1078.4	1091.4	1107.6	1111.9	1123.8
17.5°	1036.0	1032.3	1034.8	1039.2	1059.1	1068.4	1077.2	1086.4	1108.8	1117.5	1133.1
20°	1018.0	1015.6	1023.6	1029.2	1047.9	1059.1	1069.7	1084.5	1101.3	1122.5	1139.3
22.5°	997.5	996.3	1003.1	1014.4	1038.5	1049.1	1056.6	1077.2	1103.2	1120.7	1141.8
25°	973.9	973.9	981.3	999.4	1027.9	1035.4	1047.3	1065.3	1089.5	1111.9	1141.8
27.5°	953.9	953.9	960.8	978.8	1002.5	1022.3	1037.3	1050.4	1082.1	1106.9	1133.1
30°	928.5	931.6	937.2	953.9	983.2	1000.7	1014.4	1039.8	1070.3	1097.6	1124.4
32.5°	894.2	895.5	909.8	930.4	960.2	977.6	996.3	1021.7	1061.6	1078.4	1115.7
35°	866.9	866.9	880.0	901.1	939.7	952.7	970.7	1000.7	1036.0	1066.6	1104.5
37.5°	835.2	835.8	853.2	881.9	912.3	929.1	946.6	979.5	1015.0	1046.6	1088.9
40°	802.3	807.3	816.0	844.5	880.6	901.1	916.0	953.3	998.8	1029.8	1070.3
42.5°	761.1	766.8	782.3	811.6	846.4	875.0	893.0	926.0	968.3	1010.0	1050.4
45°	729.5	732.6	747.6	776.7	816.0	838.3	856.3	898.0	942.2	983.2	1021.1
47.5°	687.2	694.0	708.9	742.0	783.6	808.5	823.9	865.1	912.3	951.4	998.2
50°	646.7	652.4	673.5	703.3	749.4	770.5	791.7	832.7	886.1	927.9	965.8
52.5°	610.1	614.5	633.0	668.6	708.9	737.0	753.8	801.6	854.5	896.1	941.0
55°	565.2	575.8	594.5	629.9	676.0	698.3	714.5	764.9	818.5	866.9	906.7
57.5°	526.1	536.7	556.0	593.3	638.0	659.2	684.8	734.5	783.6	834.5	880.0
60°	482.6	493.7	515.5	556.7	601.4	623.2	644.9	699.0	751.9	799.8	852.0
62.5°	444.6	452.7	478.9	513.0	559.0	584.6	608.9	662.3	725.1	774.2	822.1
65°	397.4	414.2	437.8	478.3	523.6	548.6	575.2	629.9	686.0	740.7	797.3
67.5°	361.3	371.2	399.3	437.1	485.7	515.5	539.8	601.4	658.0	712.0	765.5
70°	322.1	331.5	358.9	399.3	450.2	476.4	509.3	567.7	630.5	681.6	730.1
72.5°	281.1	292.3	318.4	360.1	416.1	446.5	474.5	537.3	602.0	648.6	697.1
75°	235.6	252.5	283.0	323.4	380.6	413.0	440.9	507.4	565.2	613.2	657.3
77.5°	197.8	210.8	245.0	294.8	352.7	381.8	411.7	475.2	532.4	576.5	617.6
80°	156.8	174.7	205.2	257.5	315.9	346.4	377.5	437.1	492.0	536.1	575.8
82.5°	116.3	132.5	170.3	224.6	284.2	313.4	339.6	398.0	450.9	495.0	529.2
85°	80.3	95.2	137.4	192.2	248.7	278.0	304.1	363.1	411.1	447.7	484.5
87.5°	44.7	64.7	108.2	159.9	215.8	243.7	267.4	322.8	367.5	406.7	438.4
90°	20.6	41.0	79.6	129.3	180.9	207.7	232.5	282.4	328.4	362.5	396.8
92.5°	17.4	24.9	59.1	103.8	153.6	177.8	202.7	249.4	289.9	328.4	358.9
95°	15.6	16.8	38.5	80.3	124.4	148.7	171.0	215.8	254.3	290.5	324.0
97.5°	13.7	13.7	23.7	56.6	98.8	118.8	139.9	183.4	219.6	253.7	283.0
100°	11.2	11.8	13.7	36.6	71.5	90.8	111.9	149.9	185.9	218.3	244.4
102.5°	10.0	10.0	10.6	22.4	49.1	66.5	85.2	118.8	154.9	183.4	211.5
105°	8.1	8.7	8.7	11.8	32.9	46.0	61.6	94.0	123.7	152.4	177.8
107.5°	6.9	6.9	6.9	7.5	19.9	29.9	42.2	68.4	97.1	124.4	148.0
110°	5.6	5.6	5.6	6.2	9.3	17.4	27.4	48.5	73.4	99.4	120.0



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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	15.6	34.8	53.5	75.9	95.2
115°	3.7	3.7	3.7	3.7	4.4	4.4	6.2	20.6	38.5	56.0	74.6
117.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	10.0	25.5	40.4	56.0
120°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	13.7	28.0	40.4
122.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.7	15.6	27.4
125°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	5.0	15.6
127.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2	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°	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9
2.5°	1072.8	1077.8	1083.9	1086.4	1081.5	1085.8	1085.8	1079.7	1080.3	1067.8
5°	1078.4	1087.6	1096.4	1091.4	1092.0	1091.4	1098.2	1093.2	1091.4	1091.4
7.5°	1093.2	1101.3	1103.2	1108.8	1108.2	1114.4	1108.8	1113.8	1111.9	1107.6
10°	1108.8	1112.6	1117.5	1132.5	1133.7	1131.2	1140.6	1133.1	1133.7	1131.9
12.5°	1116.3	1137.5	1138.1	1152.9	1149.8	1159.2	1160.4	1162.9	1163.5	1157.3
15°	1134.4	1149.2	1161.0	1173.5	1173.5	1181.0	1187.8	1187.2	1187.8	1186.0
17.5°	1146.2	1169.1	1177.2	1187.8	1192.2	1200.3	1204.0	1210.3	1208.4	1205.3
20°	1154.8	1172.2	1190.3	1201.5	1199.7	1209.6	1219.5	1209.6	1216.4	1217.0
22.5°	1152.3	1179.7	1192.8	1207.1	1212.7	1216.4	1224.5	1231.9	1231.9	1228.8
25°	1154.2	1177.9	1197.8	1212.1	1216.4	1225.1	1235.7	1238.2	1241.9	1233.8
27.5°	1151.1	1178.5	1199.7	1215.1	1215.1	1233.8	1238.2	1248.8	1251.9	1246.3
30°	1152.3	1176.6	1196.5	1221.3	1227.0	1236.9	1248.1	1255.6	1254.4	1255.6
32.5°	1143.7	1171.6	1194.7	1221.3	1230.1	1235.7	1248.8	1250.0	1248.8	1251.3
35°	1128.8	1162.9	1197.8	1212.1	1219.5	1230.7	1233.8	1240.0	1250.6	1241.3
37.5°	1119.4	1152.9	1171.6	1194.1	1202.2	1211.5	1218.2	1219.5	1221.3	1220.7
40°	1102.0	1133.7	1150.4	1173.5	1176.6	1191.6	1187.2	1193.4	1199.0	1195.3
42.5°	1083.3	1108.8	1131.2	1147.4	1154.8	1158.5	1170.4	1172.9	1179.7	1175.4
45°	1054.1	1081.5	1105.7	1123.1	1129.4	1141.8	1147.4	1151.7	1158.5	1161.0
47.5°	1030.4	1057.8	1082.6	1108.2	1106.9	1121.3	1131.9	1130.0	1135.6	1138.1
50°	998.8	1032.3	1062.8	1080.9	1087.0	1100.7	1105.1	1117.5	1123.1	1118.8
52.5°	973.2	1010.0	1029.2	1059.1	1066.6	1077.8	1090.1	1091.4	1103.2	1101.3
55°	947.2	980.1	1011.2	1030.4	1039.2	1053.5	1062.2	1067.2	1072.2	1077.2
57.5°	914.2	956.4	982.6	1006.9	1016.2	1025.5	1038.5	1044.8	1055.4	1059.1
60°	888.6	932.2	953.9	982.0	991.3	1001.9	1011.2	1016.7	1024.8	1026.7
62.5°	861.3	900.5	927.3	953.3	962.0	970.7	981.3	990.7	993.8	989.4
65°	829.6	869.4	893.6	919.8	926.6	943.5	940.3	949.7	953.3	955.8
67.5°	799.8	843.9	862.6	878.2	894.2	892.4	904.8	904.2	911.7	916.7
70°	764.3	799.2	816.6	839.5	843.9	849.5	859.5	862.0	866.3	868.8
72.5°	727.6	763.6	779.2	795.4	806.0	805.4	812.2	817.2	822.7	823.3
75°	691.5	715.2	734.5	750.1	758.0	759.3	768.0	766.8	779.8	778.0
77.5°	649.9	676.0	688.5	703.9	710.8	717.7	722.0	725.8	727.6	732.6
80°	600.8	631.8	641.1	658.0	662.9	670.4	672.3	680.4	683.5	685.4
82.5°	559.0	579.6	593.9	610.7	621.9	620.7	628.7	633.7	637.4	637.4
85°	512.4	536.1	549.2	564.0	574.6	576.5	584.6	584.6	589.5	592.0
87.5°	463.9	492.5	503.1	519.3	531.1	529.2	534.8	542.3	544.8	549.2
90°	421.1	444.0	461.4	477.0	487.6	488.9	495.0	501.2	502.4	509.9
92.5°	386.2	405.5	424.2	440.3	444.0	449.0	454.6	464.6	466.4	473.9
95°	345.8	369.4	384.3	400.5	406.7	410.5	416.7	424.2	430.3	435.9
97.5°	309.0	330.2	346.4	358.9	367.5	370.0	378.1	383.1	387.4	393.7
100°	269.9	288.6	305.9	320.3	327.1	329.0	337.7	341.4	345.2	350.8
102.5°	233.8	256.2	266.2	281.8	287.4	290.5	296.6	304.7	305.3	307.2
105°	197.1	218.9	233.2	244.4	251.2	253.7	259.9	268.7	269.3	273.7
107.5°	168.5	187.2	201.5	213.3	220.2	222.7	227.7	230.7	235.0	236.3
110°	140.6	157.4	171.6	181.6	187.2	192.2	197.8	202.7	205.2	205.9



TEST NUMBER: P798331
 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-MID-3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	113.8	130.0	142.4	154.9	159.9	163.6	169.1	175.3	178.4	178.4
115°	91.5	106.3	119.4	129.3	136.2	138.1	143.1	148.0	150.5	150.5
117.5°	70.3	85.9	97.7	106.3	111.3	113.8	120.0	125.0	126.9	128.1
120°	53.5	65.9	77.1	86.5	89.6	94.0	98.3	102.6	105.0	105.0
122.5°	39.1	50.3	58.4	66.5	72.2	73.4	79.0	84.0	85.2	86.5
125°	26.8	36.0	44.1	51.0	55.3	56.6	60.9	65.3	66.5	67.8
127.5°	13.7	23.1	30.5	37.3	40.4	42.9	46.6	50.3	51.6	52.2
130°	3.7	10.6	18.1	24.3	26.8	28.7	32.9	35.4	37.9	37.3
132.5°	0.0	1.9	6.2	11.8	13.7	16.2	19.9	22.4	23.7	24.9
135°	0.0	0.0	0.6	2.5	3.7	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)