

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: P798356

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798356
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-MID-3500K
Description: Vaportite LED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

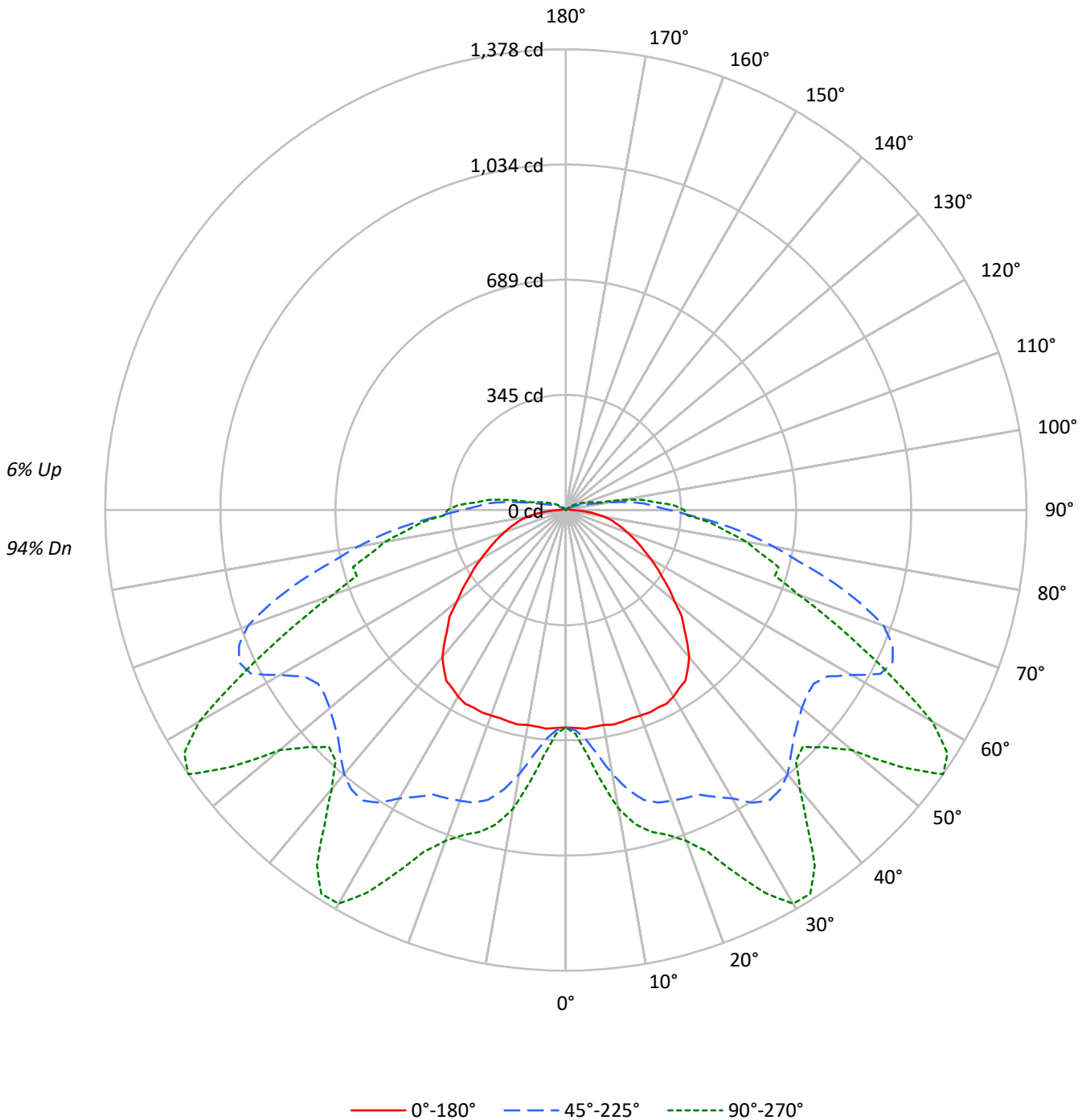
Lumens per Lamp: N/A
Luminaire Lumens: 5024.8 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 2.17 / 2.13
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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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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°	3500	3500	3500
5°	3547	3719	3961
10°	3568	4381	4954
15°	3651	4999	5555
20°	3746	5299	6030
25°	3873	5576	7101
30°	4002	6187	8449
35°	4096	6967	8532
40°	4033	7249	7652
45°	3810	7336	7625
50°	3550	7721	9348
55°	3323	8495	12933
60°	3160	10623	13622
65°	3073	13734	12457
70°	3081	15921	11665
75°	3242	17112	13703
80°	3651	19591	17003
85°	3964	28375	26757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°

Vertical Angle: 87.5°

Luminance: 56387 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	1.4
10°-20°	244.0	4.9
20°-30°	440.5	8.8
30°-40°	622.5	12.4
40°-50°	665.0	13.2
50°-60°	780.9	15.5
60°-70°	789.7	15.7
70°-80°	644.5	12.8
80°-90°	442.3	8.8
90°-100°	223.4	4.4
100°-110°	66.2	1.3
110°-120°	26.0	0.5
120°-130°	9.2	0.2
130°-140°	1.3	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°	753.8	15.0
0°-40°	1376.3	27.4
0°-60°	2822.1	56.2
0°-90°	4698.6	93.5
90°-120°	315.6	6.3
90°-150°	326.2	6.5
90°-180°	326.0	6.5
0°-180°	5024.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	656	665	688	720	733	62
15°	655	754	897	976	997	186
25°	652	794	939	1113	1196	302
35°	623	735	1060	1287	1299	386
45°	501	657	964	1020	1002	387
55°	354	517	905	1248	1378	319
65°	241	439	1078	1063	978	240
75°	156	576	823	662	659	166
85°	64	493	460	435	433	64
90°	18	365	309	340	353	12
95°	12	185	232	267	267	10
105°	6	19	67	90	88	7
115°	2	2	27	47	47	2
125°	1	1	7	21	22	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
2.5°	652.2	655.3	656.5	653.4	655.3	656.5	655.3	657.1	658.4	660.3	659.0
5°	656.5	655.9	659.0	655.9	659.6	664.6	667.1	674.0	677.1	685.2	688.3
7.5°	653.4	657.8	657.8	660.9	667.7	686.4	688.9	700.8	715.1	728.8	738.8
10°	652.8	657.8	666.5	675.2	687.0	702.6	713.2	735.0	761.8	781.8	801.7
12.5°	657.1	659.0	674.0	685.8	709.5	726.3	740.0	773.7	802.3	827.9	855.9
15°	655.3	660.3	677.1	697.6	731.3	753.7	768.0	809.2	844.1	869.0	897.2
17.5°	652.8	662.1	683.3	710.1	749.4	778.0	793.6	834.1	867.1	899.7	917.7
20°	654.0	664.6	688.9	725.7	764.3	791.7	807.9	849.7	882.1	909.6	925.2
22.5°	655.3	667.1	691.4	733.2	769.9	798.0	814.8	852.8	881.5	913.4	932.7
25°	652.2	665.2	694.5	728.8	773.7	793.6	811.0	847.8	878.3	915.2	938.9
27.5°	652.8	662.7	690.2	727.5	762.4	789.9	799.2	841.0	879.0	920.2	966.9
30°	644.0	655.9	685.8	712.0	746.2	771.8	786.1	832.2	882.1	936.4	995.6
32.5°	632.1	644.7	671.5	690.2	730.7	752.5	773.0	831.0	895.9	963.8	1038.0
35°	623.4	627.1	640.3	660.9	706.4	735.0	761.2	831.0	907.1	981.9	1060.4
37.5°	599.1	600.9	612.1	642.8	683.9	724.4	753.7	831.6	911.5	984.4	1054.2
40°	574.1	574.8	586.6	617.1	664.0	708.9	741.3	823.5	899.0	966.3	1031.8
42.5°	536.7	541.7	558.6	589.1	649.0	687.0	724.4	798.0	868.4	934.5	996.2
45°	500.6	507.5	521.2	557.3	619.0	657.1	693.9	765.6	830.4	902.1	963.8
47.5°	470.7	470.1	488.1	528.0	582.9	622.1	655.9	724.4	796.1	875.2	940.8
50°	424.0	433.9	453.3	493.1	544.9	587.8	617.8	685.8	763.1	842.2	922.1
52.5°	390.3	396.5	419.6	456.4	510.6	546.1	581.0	656.5	740.6	837.2	909.0
55°	354.1	362.2	386.0	422.7	483.2	517.4	553.0	637.1	735.0	830.4	905.3
57.5°	324.8	331.0	352.8	394.1	455.7	496.2	537.4	623.4	727.5	824.8	926.4
60°	293.6	299.8	327.9	369.0	434.6	476.9	516.2	612.1	725.1	847.8	986.9
62.5°	265.6	274.3	299.8	342.8	409.0	451.4	496.9	608.4	753.7	915.2	1061.0
65°	241.3	250.6	278.7	321.7	386.6	438.9	493.8	640.9	811.0	969.4	1078.5
67.5°	218.2	228.2	256.8	301.1	383.5	448.9	523.7	693.9	852.2	990.6	1058.5
70°	195.8	208.2	238.8	300.5	415.9	501.2	577.3	730.7	873.4	970.7	1011.8
72.5°	175.8	190.8	234.4	322.3	468.8	550.5	619.0	744.4	850.9	920.8	922.7
75°	155.9	179.0	243.1	359.7	503.1	576.0	639.1	732.5	810.4	844.1	822.9
77.5°	139.1	173.4	256.8	377.1	517.4	586.0	634.6	703.9	745.6	746.2	714.5
80°	117.8	160.9	253.1	377.1	510.0	573.5	615.3	652.8	664.0	655.3	632.1
82.5°	92.2	140.3	236.9	357.8	485.7	541.7	573.5	589.7	582.2	572.9	547.3
85°	64.2	112.8	209.5	332.2	446.4	493.1	519.3	519.3	500.0	472.6	459.5
87.5°	37.4	82.3	180.2	293.0	396.5	438.3	457.0	427.1	397.2	382.8	372.7
90°	18.1	54.8	145.3	258.1	341.6	365.3	365.9	326.6	306.1	308.6	309.2
92.5°	15.0	32.4	114.0	193.3	253.7	265.6	265.6	249.4	245.0	250.0	263.1
95°	12.5	13.7	59.8	128.5	173.4	184.6	190.8	194.5	206.4	220.7	231.9
97.5°	10.6	10.6	18.7	69.2	115.9	134.1	146.6	155.9	167.1	173.4	181.5
100°	8.7	8.7	10.0	23.1	64.8	81.6	91.0	97.2	107.2	117.8	129.7
102.5°	7.5	7.5	7.5	11.8	24.3	31.8	39.9	53.6	64.8	78.5	89.1
105°	6.2	6.2	6.2	7.5	15.0	19.3	25.5	36.8	46.7	58.6	67.3
107.5°	5.0	5.0	5.0	5.0	10.0	14.3	18.1	27.4	38.0	47.4	54.2
110°	3.7	3.7	3.7	4.4	6.2	9.3	12.5	20.6	28.7	36.8	44.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	3.1	3.1	3.1	3.1	3.7	5.0	8.1	15.0	21.2	28.0	34.3
115°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	9.3	15.0	19.9	26.8
117.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	5.0	10.6	15.6	19.9
120°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	6.2	11.2	15.6
122.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	2.5	6.9	11.2
125°	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	3.1	6.9
127.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	2.5
130°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.6	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°	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
2.5°	659.6	661.5	662.7	669.0	665.2	672.1	665.9	665.2	668.4	670.2
5°	697.0	706.4	713.8	722.6	720.1	724.4	723.8	723.8	737.5	733.2
7.5°	758.1	767.4	781.1	794.8	791.7	807.9	809.8	812.3	811.7	818.5
10°	821.0	839.1	852.8	875.2	873.4	882.7	895.3	891.4	901.5	906.5
12.5°	877.7	898.4	920.2	940.8	939.5	945.1	950.7	954.5	960.1	962.6
15°	920.2	940.2	958.8	977.5	975.7	983.1	986.3	989.4	996.9	996.9
17.5°	946.4	959.5	976.9	997.5	1005.0	1008.7	1005.0	1015.6	1023.0	1018.7
20°	952.0	971.3	998.7	1009.9	1022.4	1029.3	1033.0	1046.1	1045.5	1052.9
22.5°	963.2	989.4	1014.9	1049.8	1052.9	1069.8	1081.0	1094.7	1102.8	1104.7
25°	981.9	1023.7	1061.0	1099.7	1113.4	1133.9	1157.7	1174.6	1188.3	1195.8
27.5°	1020.5	1072.3	1129.0	1176.4	1184.5	1209.5	1243.7	1268.7	1281.7	1291.1
30°	1069.8	1130.8	1189.5	1239.4	1262.4	1283.6	1315.4	1327.9	1349.0	1359.6
32.5°	1105.3	1166.5	1228.8	1276.1	1297.9	1317.3	1335.3	1346.5	1350.9	1360.9
35°	1122.1	1180.2	1244.4	1271.2	1286.7	1293.0	1301.1	1299.2	1299.8	1298.6
37.5°	1113.4	1167.1	1206.3	1228.2	1231.3	1230.0	1220.7	1199.5	1183.9	1185.2
40°	1090.3	1135.2	1160.2	1159.6	1152.1	1140.8	1119.6	1092.8	1082.8	1089.1
42.5°	1061.7	1090.9	1094.7	1086.6	1068.5	1066.6	1036.7	1028.0	1018.0	1018.7
45°	1025.5	1042.3	1048.0	1030.5	1019.9	1018.0	1004.3	999.3	1001.2	1001.8
47.5°	992.5	1010.6	1013.7	1009.3	1006.8	1010.6	1015.6	1028.0	1029.3	1049.8
50°	971.9	991.2	1012.4	1028.6	1034.9	1055.4	1083.5	1096.6	1112.1	1116.5
52.5°	967.6	1000.6	1051.7	1092.2	1122.1	1149.6	1183.3	1231.3	1246.8	1261.8
55°	980.0	1050.4	1132.1	1198.2	1247.5	1280.5	1326.6	1349.0	1365.2	1378.3
57.5°	1038.0	1148.4	1247.5	1294.2	1309.2	1326.0	1334.7	1340.9	1345.9	1353.4
60°	1131.4	1211.3	1264.3	1287.4	1293.0	1296.1	1290.5	1279.9	1269.9	1265.5
62.5°	1160.2	1207.0	1228.2	1218.2	1208.2	1200.1	1152.8	1132.7	1113.4	1119.0
65°	1142.0	1150.9	1126.5	1092.2	1062.9	1056.7	1014.3	997.5	972.6	978.2
67.5°	1071.0	1042.3	1008.1	962.6	948.3	927.1	890.8	875.2	862.8	854.0
70°	1000.0	943.9	898.4	848.4	832.9	816.7	771.8	750.6	744.4	741.3
72.5°	882.7	828.5	776.1	733.8	721.9	702.0	682.1	662.7	655.3	655.9
75°	763.7	713.8	680.2	660.9	662.1	659.6	655.9	651.5	654.0	659.0
77.5°	674.6	647.2	643.4	646.5	643.4	638.4	614.6	605.3	594.1	595.9
80°	610.9	597.2	574.8	563.5	567.9	562.9	557.9	545.5	550.5	548.6
82.5°	529.9	519.3	510.0	501.2	501.9	497.5	483.8	480.0	473.2	483.2
85°	453.9	438.9	436.4	433.3	435.2	433.3	432.7	427.7	429.0	433.3
87.5°	376.5	375.2	374.6	371.5	369.6	368.4	366.5	364.6	364.6	364.0
90°	312.3	316.7	327.9	333.5	339.7	343.5	350.9	351.6	354.1	353.4
92.5°	276.8	289.9	307.9	318.5	322.3	322.9	327.9	325.4	324.1	323.5
95°	243.8	249.4	256.8	261.8	267.4	268.1	268.7	265.6	266.2	266.8
97.5°	190.2	198.3	207.6	218.2	223.2	222.6	228.8	228.2	228.2	231.3
100°	140.3	150.9	157.8	169.6	167.1	164.6	169.0	166.5	177.1	173.4
102.5°	97.8	101.6	107.8	109.0	109.7	108.4	109.7	107.2	107.2	105.9
105°	74.8	80.4	86.0	89.7	90.4	90.4	91.0	89.1	89.1	88.5
107.5°	61.7	67.3	71.7	74.2	77.3	76.6	77.9	77.3	77.9	76.6
110°	49.8	55.5	60.4	62.9	65.4	65.4	66.1	66.1	65.4	65.4



TEST NUMBER: P798356
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-MID-3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	40.5	45.5	49.2	53.0	54.8	55.5	55.5	56.1	56.1	56.1
115°	31.8	36.8	41.7	44.9	46.7	47.4	48.0	47.4	46.7	46.7
117.5°	24.9	29.3	33.6	37.4	39.3	39.9	41.1	40.5	40.5	39.9
120°	19.9	23.7	28.0	31.2	32.4	33.6	34.9	34.3	33.6	34.3
122.5°	15.6	18.7	22.4	25.5	26.8	27.4	28.0	27.4	28.0	27.4
125°	11.2	14.3	17.4	19.9	21.2	22.4	23.1	22.4	22.4	22.4
127.5°	6.2	9.3	12.5	15.0	16.2	16.8	18.1	17.4	16.8	16.8
130°	1.9	5.6	8.7	10.6	11.8	13.1	13.1	13.1	12.5	11.8
132.5°	0.0	1.2	4.4	6.9	8.1	8.7	8.7	8.7	8.1	8.1
135°	0.0	0.0	0.6	2.5	3.7	4.4	5.0	4.4	4.4	3.7
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)