

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: P798352

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798352
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-LOW-3000K
Description: Vaportite LED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

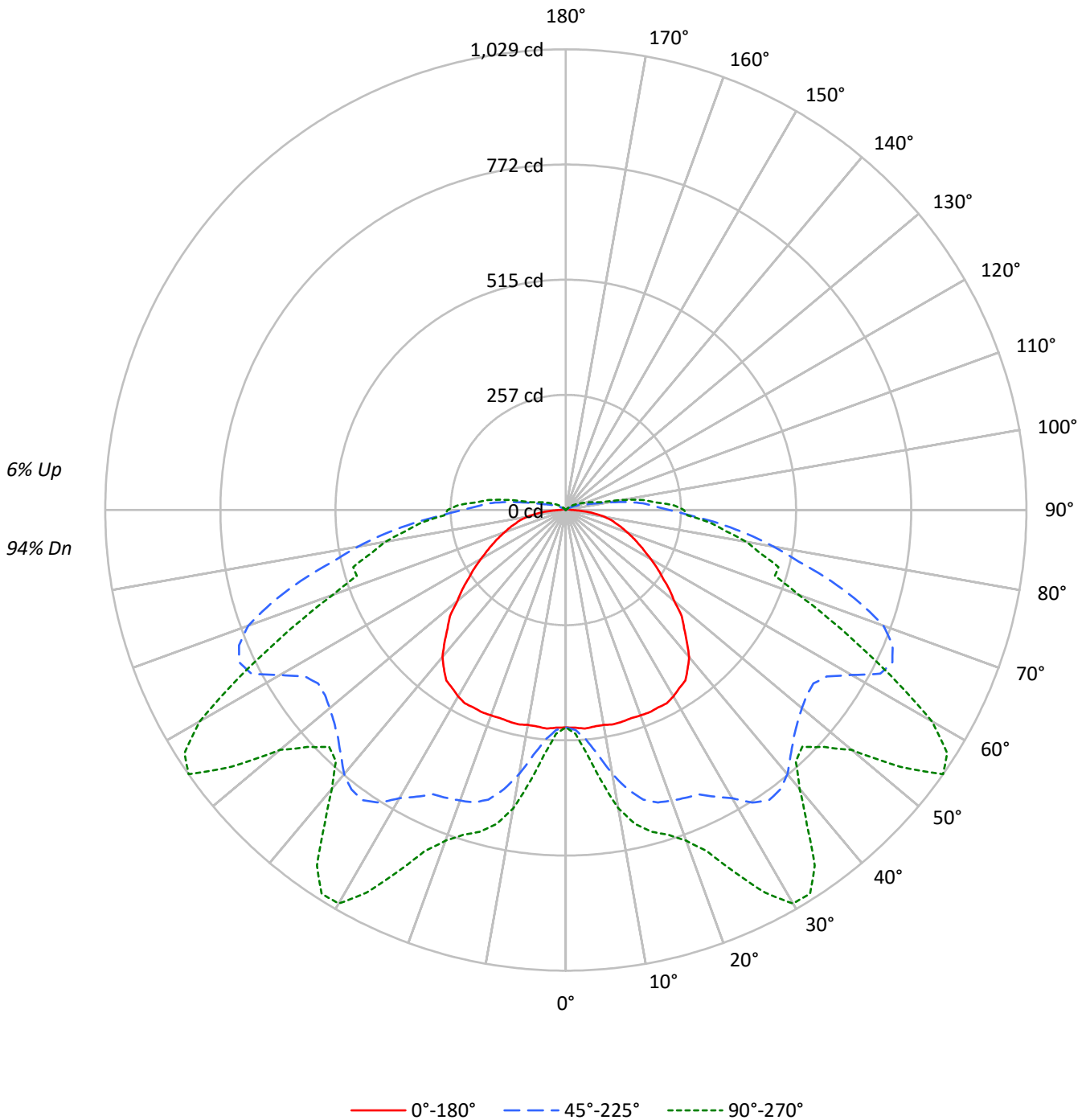
Lumens per Lamp: N/A
Luminaire Lumens: 3750.2 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 2.17 / 2.13
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.3
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°	2612	2612	2612
5°	2647	2775	2956
10°	2663	3270	3698
15°	2725	3731	4145
20°	2796	3955	4501
25°	2890	4161	5299
30°	2987	4618	6307
35°	3056	5200	6368
40°	3010	5410	5710
45°	2844	5476	5691
50°	2649	5762	6977
55°	2479	6339	9652
60°	2358	7929	10167
65°	2294	10250	9296
70°	2299	11884	8705
75°	2420	12772	10227
80°	2724	14623	12689
85°	2958	21174	19970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
 Vertical Angle: 87.5°
 Luminance: 42086 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.4
10°-20°	182.1	4.9
20°-30°	328.8	8.8
30°-40°	464.6	12.4
40°-50°	496.3	13.2
50°-60°	582.8	15.5
60°-70°	589.4	15.7
70°-80°	481.0	12.8
80°-90°	330.1	8.8
90°-100°	166.7	4.4
100°-110°	49.4	1.3
110°-120°	19.4	0.5
120°-130°	6.9	0.2
130°-140°	1.0	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°	562.6	15.0
0°-40°	1027.2	27.4
0°-60°	2106.3	56.2
0°-90°	3506.8	93.5
90°-120°	235.6	6.3
90°-150°	243.4	6.5
90°-180°	243.0	6.5
0°-180°	3750.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	490	496	514	537	547	47
15°	489	562	670	728	744	138
25°	487	592	701	831	892	225
35°	465	549	791	960	969	288
45°	374	490	719	761	748	289
55°	264	386	676	931	1029	238
65°	180	328	805	793	730	179
75°	116	430	614	494	492	124
85°	48	368	343	325	323	47
90°	14	273	231	254	264	9
95°	9	138	173	200	199	7
105°	5	14	50	67	66	5
115°	2	2	20	35	35	2
125°	1	0	5	16	17	1
135°	0	0	0	3	3	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: P798352

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	486.7	489.1	490.0	487.7	489.1	490.0	489.1	490.4	491.4	492.8	491.8
5°	490.0	489.5	491.8	489.5	492.3	496.0	497.9	503.0	505.3	511.4	513.7
7.5°	487.7	490.9	490.9	493.2	498.4	512.3	514.2	523.0	533.7	543.9	551.4
10°	487.2	490.9	497.4	503.9	512.8	524.4	532.3	548.6	568.6	583.5	598.3
12.5°	490.4	491.8	503.0	511.8	529.5	542.1	552.3	577.4	598.8	617.9	638.8
15°	489.1	492.8	505.3	520.7	545.8	562.5	573.2	603.9	630.0	648.6	669.6
17.5°	487.2	494.2	510.0	530.0	559.3	580.7	592.3	622.5	647.2	671.4	684.9
20°	488.1	496.0	514.2	541.6	570.4	590.9	603.0	634.2	658.3	678.9	690.5
22.5°	489.1	497.9	516.0	547.2	574.6	595.6	608.1	636.5	657.9	681.7	696.1
25°	486.7	496.5	518.4	543.9	577.4	592.3	605.3	632.8	655.5	683.1	700.7
27.5°	487.2	494.6	515.1	543.0	569.0	589.5	596.5	627.6	656.0	686.8	721.7
30°	480.7	489.5	511.8	531.4	557.0	576.0	586.7	621.1	658.3	698.9	743.1
32.5°	471.8	481.1	501.1	515.1	545.3	561.6	576.9	620.2	668.7	719.4	774.7
35°	465.2	468.0	477.9	493.2	527.2	548.6	568.1	620.2	677.0	732.8	791.4
37.5°	447.1	448.5	456.9	479.8	510.4	540.7	562.5	620.7	680.3	734.7	786.8
40°	428.5	429.0	437.8	460.6	495.6	529.0	553.2	614.6	671.0	721.2	770.0
42.5°	400.6	404.3	416.9	439.7	484.4	512.8	540.7	595.6	648.1	697.5	743.5
45°	373.6	378.7	389.0	415.9	462.0	490.4	517.9	571.4	619.7	673.3	719.4
47.5°	351.3	350.8	364.3	394.1	435.0	464.3	489.5	540.7	594.2	653.2	702.1
50°	316.4	323.9	338.3	368.0	406.6	438.7	461.1	511.8	569.5	628.6	688.2
52.5°	291.3	296.0	313.2	340.6	381.1	407.6	433.6	490.0	552.8	624.9	678.4
55°	264.2	270.3	288.1	315.5	360.6	386.2	412.7	475.5	548.6	619.7	675.6
57.5°	242.4	247.0	263.3	294.1	340.1	370.4	401.1	465.2	543.0	615.5	691.4
60°	219.1	223.8	244.7	275.4	324.3	356.0	385.3	456.9	541.1	632.8	736.6
62.5°	198.2	204.7	223.8	255.9	305.3	336.9	370.8	454.1	562.5	683.1	791.9
65°	180.1	187.0	208.0	240.1	288.5	327.6	368.5	478.4	605.3	723.5	804.9
67.5°	162.9	170.3	191.7	224.7	286.2	335.0	390.8	517.9	636.0	739.3	790.0
70°	146.1	155.4	178.2	224.3	310.4	374.1	430.8	545.3	651.8	724.5	755.2
72.5°	131.2	142.4	175.0	240.5	349.9	410.8	462.0	555.6	635.1	687.3	688.7
75°	116.4	133.6	181.5	268.4	375.5	429.9	477.0	546.7	604.9	630.0	614.2
77.5°	103.8	129.4	191.7	281.5	386.2	437.3	473.6	525.3	556.5	557.0	533.2
80°	87.9	120.1	188.9	281.5	380.6	428.0	459.2	487.2	495.6	489.1	471.8
82.5°	68.8	104.7	176.8	267.0	362.5	404.3	428.0	440.1	434.5	427.6	408.5
85°	47.9	84.2	156.4	248.0	333.2	368.0	387.6	387.6	373.2	352.7	342.9
87.5°	27.9	61.4	134.5	218.7	296.0	327.1	341.1	318.8	296.4	285.7	278.2
90°	13.5	40.9	108.5	192.6	254.9	272.6	273.1	243.8	228.4	230.3	230.8
92.5°	11.2	24.2	85.1	144.3	189.4	198.2	198.2	186.1	182.9	186.6	196.3
95°	9.3	10.2	44.6	95.9	129.4	137.7	142.4	145.2	154.0	164.7	173.1
97.5°	7.9	7.9	14.0	51.6	86.5	100.1	109.4	116.4	124.7	129.4	135.4
100°	6.5	6.5	7.4	17.2	48.4	60.9	67.9	72.5	80.0	87.9	96.8
102.5°	5.6	5.6	5.6	8.8	18.1	23.7	29.8	40.0	48.4	58.6	66.5
105°	4.7	4.7	4.7	5.6	11.2	14.4	19.1	27.4	34.9	43.7	50.2
107.5°	3.7	3.7	3.7	3.7	7.4	10.7	13.5	20.5	28.4	35.3	40.5
110°	2.8	2.8	2.8	3.3	4.7	7.0	9.3	15.3	21.4	27.4	33.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.3	2.3	2.3	2.3	2.8	3.7	6.0	11.2	15.8	20.9	25.6
115°	1.9	1.9	1.9	1.9	1.9	1.9	2.8	7.0	11.2	14.9	20.0
117.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	3.7	7.9	11.6	14.9
120°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	4.7	8.4	11.6
122.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	1.9	5.1	8.4
125°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2.3	5.1
127.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.9
130°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.5	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°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	492.3	493.7	494.6	499.3	496.5	501.6	497.0	496.5	498.8	500.2
5°	520.2	527.2	532.8	539.3	537.4	540.7	540.2	540.2	550.4	547.2
7.5°	565.8	572.8	583.0	593.2	590.9	603.0	604.4	606.2	605.8	610.9
10°	612.8	626.2	636.5	653.2	651.8	658.8	668.2	665.3	672.8	676.6
12.5°	655.1	670.5	686.8	702.1	701.2	705.4	709.6	712.4	716.6	718.4
15°	686.8	701.7	715.6	729.6	728.2	733.8	736.1	738.4	744.0	744.0
17.5°	706.3	716.1	729.1	744.5	750.0	752.8	750.0	757.9	763.5	760.3
20°	710.5	724.9	745.4	753.8	763.1	768.2	771.0	780.7	780.3	785.9
22.5°	718.9	738.4	757.5	783.5	785.9	798.4	806.8	817.0	823.1	824.5
25°	732.8	764.0	791.9	820.7	831.0	846.3	864.1	876.6	886.9	892.4
27.5°	761.7	800.3	842.6	878.0	884.1	902.7	928.3	946.9	956.6	963.6
30°	798.4	844.0	887.8	925.0	942.2	958.0	981.7	991.0	1006.8	1014.8
32.5°	824.9	870.6	917.1	952.4	968.7	983.1	996.6	1005.0	1008.2	1015.7
35°	837.5	880.8	928.7	948.7	960.3	965.0	971.0	969.6	970.1	969.2
37.5°	831.0	871.1	900.4	916.6	919.0	918.0	911.0	895.2	883.6	884.5
40°	813.8	847.2	865.9	865.5	859.9	851.4	835.6	815.6	808.2	812.8
42.5°	792.4	814.2	817.0	811.0	797.5	796.1	773.8	767.3	759.8	760.3
45°	765.4	777.9	782.1	769.1	761.2	759.8	749.6	745.9	747.3	747.7
47.5°	740.7	754.2	756.6	753.3	751.4	754.2	757.9	767.3	768.2	783.5
50°	725.4	739.8	755.6	767.7	772.4	787.7	808.6	818.4	830.0	833.3
52.5°	722.1	746.8	784.9	815.2	837.5	858.0	883.1	919.0	930.6	941.7
55°	731.4	784.0	844.9	894.3	931.0	955.7	990.1	1006.8	1018.9	1028.7
57.5°	774.7	857.1	931.0	965.9	977.1	989.6	996.2	1000.8	1004.5	1010.1
60°	844.5	904.1	943.6	960.8	965.0	967.3	963.1	955.2	947.8	944.5
62.5°	865.9	900.8	916.6	909.2	901.7	895.7	860.4	845.4	831.0	835.1
65°	852.4	859.0	840.7	815.2	793.3	788.6	757.0	744.5	725.9	730.0
67.5°	799.3	777.9	752.4	718.4	707.7	691.9	664.8	653.2	643.9	637.4
70°	746.3	704.5	670.5	633.2	621.6	609.5	576.0	560.2	555.6	553.2
72.5°	658.8	618.3	579.3	547.7	538.8	523.9	509.1	494.6	489.1	489.5
75°	570.0	532.8	507.7	493.2	494.2	492.3	489.5	486.3	488.1	491.8
77.5°	503.5	483.0	480.2	482.5	480.2	476.5	458.7	451.8	443.4	444.8
80°	455.9	445.7	429.0	420.6	423.9	420.1	416.4	407.1	410.8	409.4
82.5°	395.5	387.6	380.6	374.1	374.6	371.3	361.1	358.3	353.2	360.6
85°	338.7	327.6	325.7	323.4	324.8	323.4	322.9	319.2	320.1	323.4
87.5°	281.0	280.1	279.6	277.3	275.9	274.9	273.5	272.2	272.2	271.7
90°	233.1	236.3	244.7	248.9	253.5	256.3	261.9	262.4	264.2	263.8
92.5°	206.6	216.3	229.8	237.7	240.5	241.0	244.7	242.9	241.9	241.5
95°	181.9	186.1	191.7	195.4	199.6	200.1	200.5	198.2	198.7	199.1
97.5°	141.9	148.0	155.0	162.9	166.6	166.1	170.8	170.3	170.3	172.6
100°	104.7	112.6	117.8	126.6	124.7	122.9	126.1	124.3	132.2	129.4
102.5°	73.0	75.8	80.5	81.4	81.9	80.9	81.9	80.0	80.0	79.1
105°	55.8	60.0	64.2	67.0	67.4	67.4	67.9	66.5	66.5	66.0
107.5°	46.0	50.2	53.5	55.3	57.7	57.2	58.1	57.7	58.1	57.2
110°	37.2	41.4	45.1	47.0	48.8	48.8	49.3	49.3	48.8	48.8



TEST NUMBER: P798352
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-LOW-3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	30.2	33.9	36.7	39.5	40.9	41.4	41.4	41.9	41.9	41.9
115°	23.7	27.4	31.2	33.5	34.9	35.3	35.8	35.3	34.9	34.9
117.5°	18.6	21.9	25.1	27.9	29.3	29.8	30.7	30.2	30.2	29.8
120°	14.9	17.7	20.9	23.3	24.2	25.1	26.0	25.6	25.1	25.6
122.5°	11.6	14.0	16.7	19.1	20.0	20.5	20.9	20.5	20.9	20.5
125°	8.4	10.7	13.0	14.9	15.8	16.7	17.2	16.7	16.7	16.7
127.5°	4.7	7.0	9.3	11.2	12.1	12.6	13.5	13.0	12.6	12.6
130°	1.4	4.2	6.5	7.9	8.8	9.8	9.8	9.8	9.3	8.8
132.5°	0.0	0.9	3.3	5.1	6.0	6.5	6.5	6.5	6.0	6.0
135°	0.0	0.0	0.5	1.9	2.8	3.3	3.7	3.3	3.3	2.8
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)