

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: P798354

Luminaire Tested: 4VT3-SL3C3-P-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798354
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-4000K
Description: Vaportite LED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

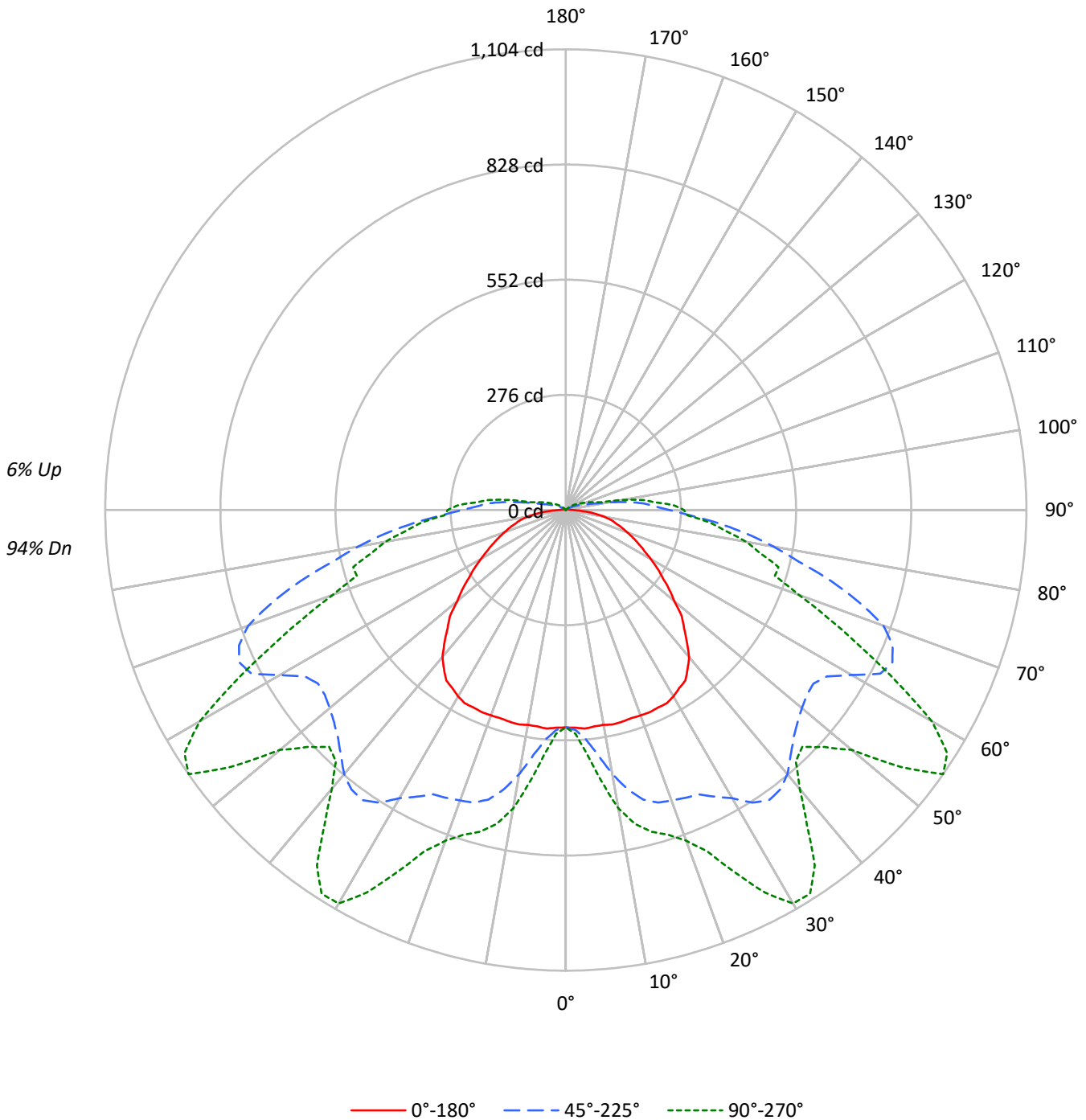
Lumens per Lamp: N/A
Luminaire Lumens: 4023.6 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 2.17 / 2.13
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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



TEST NUMBER: P798354
CATALOG NUMBER: 4VT3-SL3C3-P-UNV-LOW-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P798354
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-LOW-4000K

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°	2802	2802	2802
5°	2840	2977	3172
10°	2857	3509	3967
15°	2924	4003	4447
20°	2999	4243	4829
25°	3101	4464	5686
30°	3205	4954	6766
35°	3280	5579	6832
40°	3230	5805	6127
45°	3051	5874	6106
50°	2843	6182	7485
55°	2660	6802	10356
60°	2531	8506	10908
65°	2460	10998	9975
70°	2467	12749	9341
75°	2595	13701	10973
80°	2923	15686	13615
85°	3174	22718	21428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
 Vertical Angle: 87.5°
 Luminance: 45146 cd/sqm



TEST NUMBER: P798354
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-LOW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	1.4
10°-20°	195.4	4.9
20°-30°	352.7	8.8
30°-40°	498.5	12.4
40°-50°	532.5	13.2
50°-60°	625.3	15.5
60°-70°	632.3	15.7
70°-80°	516.1	12.8
80°-90°	354.2	8.8
90°-100°	178.9	4.4
100°-110°	53.0	1.3
110°-120°	20.8	0.5
120°-130°	7.4	0.2
130°-140°	1.1	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°	603.6	15.0
0°-40°	1102.0	27.4
0°-60°	2259.8	56.2
0°-90°	3762.4	93.5
90°-120°	252.7	6.3
90°-150°	261.2	6.5
90°-180°	261.0	6.5
0°-180°	4023.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	521	521	521	521	521	
5°	526	532	551	577	587	50
15°	525	604	718	781	798	149
25°	522	636	752	892	958	242
35°	499	589	849	1030	1040	309
45°	401	526	772	817	802	310
55°	284	414	725	999	1104	256
65°	193	352	864	851	783	192
75°	125	461	659	530	528	133
85°	51	395	368	348	347	51
90°	14	292	248	272	283	10
95°	10	148	186	214	214	8
105°	5	16	54	72	71	5
115°	2	2	22	37	37	2
125°	1	0	6	17	18	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: P798354

CATALOG NUMBER: 4VT3-SL3C3-P-UNV-LOW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	520.7	520.7	520.7	520.7	520.7	520.7	520.7	520.7	520.7	520.7	520.7
2.5°	522.2	524.7	525.7	523.2	524.7	525.7	524.7	526.2	527.2	528.7	527.7
5°	525.7	525.2	527.7	525.2	528.2	532.2	534.2	539.7	542.2	548.6	551.1
7.5°	523.2	526.7	526.7	529.2	534.7	549.6	551.6	561.1	572.6	583.6	591.6
10°	522.7	526.7	533.7	540.7	550.1	562.6	571.1	588.6	610.0	626.0	642.0
12.5°	526.2	527.7	539.7	549.1	568.1	581.6	592.6	619.5	642.5	662.9	685.4
15°	524.7	528.7	542.2	558.6	585.6	603.5	615.0	647.9	675.9	695.8	718.4
17.5°	522.7	530.2	547.2	568.6	600.0	623.0	635.5	667.9	694.3	720.4	734.9
20°	523.7	532.2	551.6	581.1	612.0	634.0	646.9	680.4	706.3	728.4	740.8
22.5°	524.7	534.2	553.6	587.1	616.5	639.0	652.4	682.9	705.8	731.4	746.8
25°	522.2	532.7	556.1	583.6	619.5	635.5	649.4	678.9	703.3	732.9	751.8
27.5°	522.7	530.7	552.6	582.6	610.5	632.5	640.0	673.4	703.8	736.9	774.3
30°	515.7	525.2	549.1	570.1	597.5	618.0	629.5	666.4	706.3	749.8	797.2
32.5°	506.1	516.2	537.7	552.6	585.1	602.5	619.0	665.4	717.4	771.8	831.2
35°	499.2	502.1	512.7	529.2	565.6	588.6	609.5	665.4	726.4	786.2	849.1
37.5°	479.7	481.2	490.2	514.7	547.7	580.1	603.5	665.9	729.9	788.2	844.1
40°	459.7	460.2	469.7	494.2	531.7	567.6	593.6	659.4	719.9	773.8	826.2
42.5°	429.8	433.8	447.3	471.7	519.7	550.1	580.1	639.0	695.3	748.3	797.7
45°	400.9	406.3	417.3	446.3	495.7	526.2	555.6	613.0	664.9	722.4	771.8
47.5°	376.9	376.4	390.9	422.8	466.7	498.2	525.2	580.1	637.5	700.8	753.3
50°	339.5	347.5	362.9	394.9	436.3	470.7	494.7	549.1	611.0	674.4	738.3
52.5°	312.5	317.5	336.0	365.4	408.8	437.3	465.2	525.7	593.1	670.4	727.9
55°	283.5	290.0	309.1	338.5	386.9	414.3	442.8	510.1	588.6	664.9	724.9
57.5°	260.1	265.0	282.5	315.5	364.9	397.4	430.3	499.2	582.6	660.4	741.8
60°	235.1	240.1	262.5	295.5	348.0	381.9	413.3	490.2	580.6	678.9	790.2
62.5°	212.7	219.6	240.1	274.5	327.5	361.4	397.9	487.2	603.5	732.9	849.6
65°	193.2	200.7	223.1	257.6	309.5	351.5	395.4	513.2	649.4	776.3	863.6
67.5°	174.7	182.7	205.7	241.1	307.1	359.4	419.3	555.6	682.4	793.2	847.6
70°	156.8	166.7	191.2	240.6	333.0	401.4	462.2	585.1	699.3	777.3	810.2
72.5°	140.8	152.8	187.7	258.1	375.4	440.8	495.7	596.0	681.4	737.4	738.8
75°	124.8	143.3	194.7	288.0	402.9	461.2	511.7	586.6	648.9	675.9	658.9
77.5°	111.4	138.8	205.7	302.0	414.3	469.2	508.1	563.6	597.0	597.5	572.1
80°	94.3	128.8	202.7	302.0	408.3	459.2	492.7	522.7	531.7	524.7	506.1
82.5°	73.8	112.4	189.7	286.5	388.9	433.8	459.2	472.2	466.2	458.7	438.3
85°	51.4	90.3	167.7	266.0	357.4	394.9	415.8	415.8	400.4	378.4	367.9
87.5°	29.9	65.9	144.3	234.6	317.5	351.0	365.9	342.0	318.0	306.6	298.5
90°	14.5	43.9	116.4	206.7	273.5	292.5	293.0	261.6	245.1	247.1	247.6
92.5°	12.0	25.9	91.3	154.8	203.2	212.7	212.7	199.7	196.2	200.2	210.7
95°	10.0	11.0	47.9	102.9	138.8	147.8	152.8	155.8	165.3	176.7	185.7
97.5°	8.5	8.5	15.0	55.4	92.8	107.4	117.4	124.8	133.8	138.8	145.3
100°	7.0	7.0	8.0	18.5	51.9	65.4	72.8	77.8	85.8	94.3	103.9
102.5°	6.0	6.0	6.0	9.5	19.5	25.4	31.9	42.9	51.9	62.9	71.4
105°	5.0	5.0	5.0	6.0	12.0	15.5	20.5	29.4	37.4	46.9	53.9
107.5°	4.0	4.0	4.0	4.0	8.0	11.5	14.5	22.0	30.4	37.9	43.4
110°	3.0	3.0	3.0	3.5	5.0	7.5	10.0	16.5	23.0	29.4	35.4



TEST NUMBER: P798354
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-LOW-4000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.5	2.5	2.5	2.5	3.0	4.0	6.5	12.0	17.0	22.5	27.4
115°	2.0	2.0	2.0	2.0	2.0	2.0	3.0	7.5	12.0	16.0	21.5
117.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.0	8.5	12.5	16.0
120°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	5.0	9.0	12.5
122.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	2.0	5.5	9.0
125°	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2.5	5.5
127.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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



TEST NUMBER: P798354

CATALOG NUMBER: 4VT3-SL3C3-P-UNV-LOW-4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	520.7	520.7	520.7	520.7	520.7	520.7	520.7	520.7	520.7	520.7
2.5°	528.2	529.7	530.7	535.7	532.7	538.2	533.2	532.7	535.2	536.7
5°	558.1	565.6	571.6	578.6	576.6	580.1	579.6	579.6	590.6	587.1
7.5°	607.0	614.5	625.5	636.5	634.0	646.9	648.4	650.4	649.9	655.4
10°	657.4	671.9	682.9	700.8	699.3	706.8	716.9	713.8	721.9	725.9
12.5°	702.8	719.4	736.9	753.3	752.3	756.8	761.3	764.3	768.8	770.8
15°	736.9	752.8	767.8	782.8	781.3	787.2	789.7	792.2	798.2	798.2
17.5°	757.8	768.3	782.3	798.7	804.7	807.7	804.7	813.2	819.2	815.7
20°	762.3	777.8	799.7	808.7	818.7	824.2	827.2	837.6	837.1	843.1
22.5°	771.3	792.2	812.7	840.6	843.1	856.6	865.6	876.6	883.0	884.5
25°	786.2	819.7	849.6	880.6	891.5	908.0	927.1	940.5	951.5	957.5
27.5°	817.2	858.6	904.0	942.0	948.5	968.5	995.9	1015.9	1026.3	1033.8
30°	856.6	905.5	952.5	992.4	1010.9	1027.8	1053.3	1063.3	1080.2	1088.7
32.5°	885.0	934.0	983.9	1021.9	1039.3	1054.8	1069.3	1078.2	1081.7	1089.7
35°	898.5	945.0	996.4	1017.9	1030.3	1035.3	1041.8	1040.3	1040.8	1039.8
37.5°	891.5	934.5	966.0	983.4	985.9	984.9	977.4	960.5	948.0	949.0
40°	873.1	909.0	929.0	928.6	922.6	913.5	896.5	875.1	867.1	872.1
42.5°	850.1	873.6	876.6	870.1	855.6	854.1	830.2	823.2	815.2	815.7
45°	821.2	834.6	839.1	825.2	816.7	815.2	804.2	800.2	801.7	802.2
47.5°	794.7	809.2	811.7	808.2	806.2	809.2	813.2	823.2	824.2	840.6
50°	778.3	793.7	810.7	823.7	828.7	845.1	867.6	878.1	890.5	894.0
52.5°	774.8	801.2	842.1	874.6	898.5	920.6	947.5	985.9	998.4	1010.4
55°	784.8	841.1	906.5	959.5	998.9	1025.3	1062.3	1080.2	1093.2	1103.7
57.5°	831.2	919.6	998.9	1036.3	1048.3	1061.8	1068.8	1073.7	1077.7	1083.7
60°	906.0	970.0	1012.4	1030.8	1035.3	1037.8	1033.3	1024.8	1016.9	1013.4
62.5°	929.0	966.5	983.4	975.5	967.5	961.0	923.1	907.0	891.5	896.0
65°	914.5	921.6	902.0	874.6	851.1	846.1	812.2	798.7	778.8	783.3
67.5°	857.6	834.6	807.2	770.8	759.3	742.3	713.3	700.8	690.8	683.9
70°	800.7	755.8	719.4	679.4	666.9	653.9	618.0	601.0	596.0	593.6
72.5°	706.8	663.4	621.5	587.6	578.1	562.1	546.2	530.7	524.7	525.2
75°	611.5	571.6	544.7	529.2	530.2	528.2	525.2	521.7	523.7	527.7
77.5°	540.2	518.2	515.2	517.7	515.2	511.2	492.2	484.7	475.7	477.2
80°	489.2	478.2	460.2	451.3	454.7	450.8	446.8	436.8	440.8	439.3
82.5°	424.3	415.8	408.3	401.4	401.9	398.4	387.4	384.4	378.9	386.9
85°	363.4	351.5	349.5	347.0	348.5	347.0	346.5	342.5	343.5	347.0
87.5°	301.5	300.5	300.0	297.5	296.0	295.0	293.5	292.0	292.0	291.5
90°	250.1	253.6	262.5	267.0	272.0	275.0	281.0	281.5	283.5	283.0
92.5°	221.6	232.1	246.6	255.1	258.1	258.6	262.5	260.6	259.6	259.1
95°	195.2	199.7	205.7	209.7	214.2	214.6	215.1	212.7	213.2	213.7
97.5°	152.3	158.8	166.3	174.7	178.7	178.2	183.2	182.7	182.7	185.2
100°	112.4	120.8	126.3	135.8	133.8	131.8	135.3	133.3	141.8	138.8
102.5°	78.3	81.3	86.3	87.3	87.8	86.8	87.8	85.8	85.8	84.8
105°	59.9	64.4	68.9	71.8	72.3	72.3	72.8	71.4	71.4	70.9
107.5°	49.4	53.9	57.4	59.4	61.9	61.4	62.4	61.9	62.4	61.4
110°	39.9	44.4	48.4	50.4	52.4	52.4	52.9	52.9	52.4	52.4



TEST NUMBER: P798354
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-LOW-4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	32.4	36.4	39.4	42.4	43.9	44.4	44.4	44.9	44.9	44.9
115°	25.4	29.4	33.4	35.9	37.4	37.9	38.4	37.9	37.4	37.4
117.5°	20.0	23.5	26.9	29.9	31.4	31.9	32.9	32.4	32.4	31.9
120°	16.0	19.0	22.5	24.9	25.9	26.9	27.9	27.4	26.9	27.4
122.5°	12.5	15.0	18.0	20.5	21.5	22.0	22.5	22.0	22.5	22.0
125°	9.0	11.5	14.0	16.0	17.0	18.0	18.5	18.0	18.0	18.0
127.5°	5.0	7.5	10.0	12.0	13.0	13.5	14.5	14.0	13.5	13.5
130°	1.5	4.5	7.0	8.5	9.5	10.5	10.5	10.5	10.0	9.5
132.5°	0.0	1.0	3.5	5.5	6.5	7.0	7.0	7.0	6.5	6.5
135°	0.0	0.0	0.5	2.0	3.0	3.5	4.0	3.5	3.5	3.0
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)