

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: P798329

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

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798329  
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-LOW-4000K  
Description: Vaportite LED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

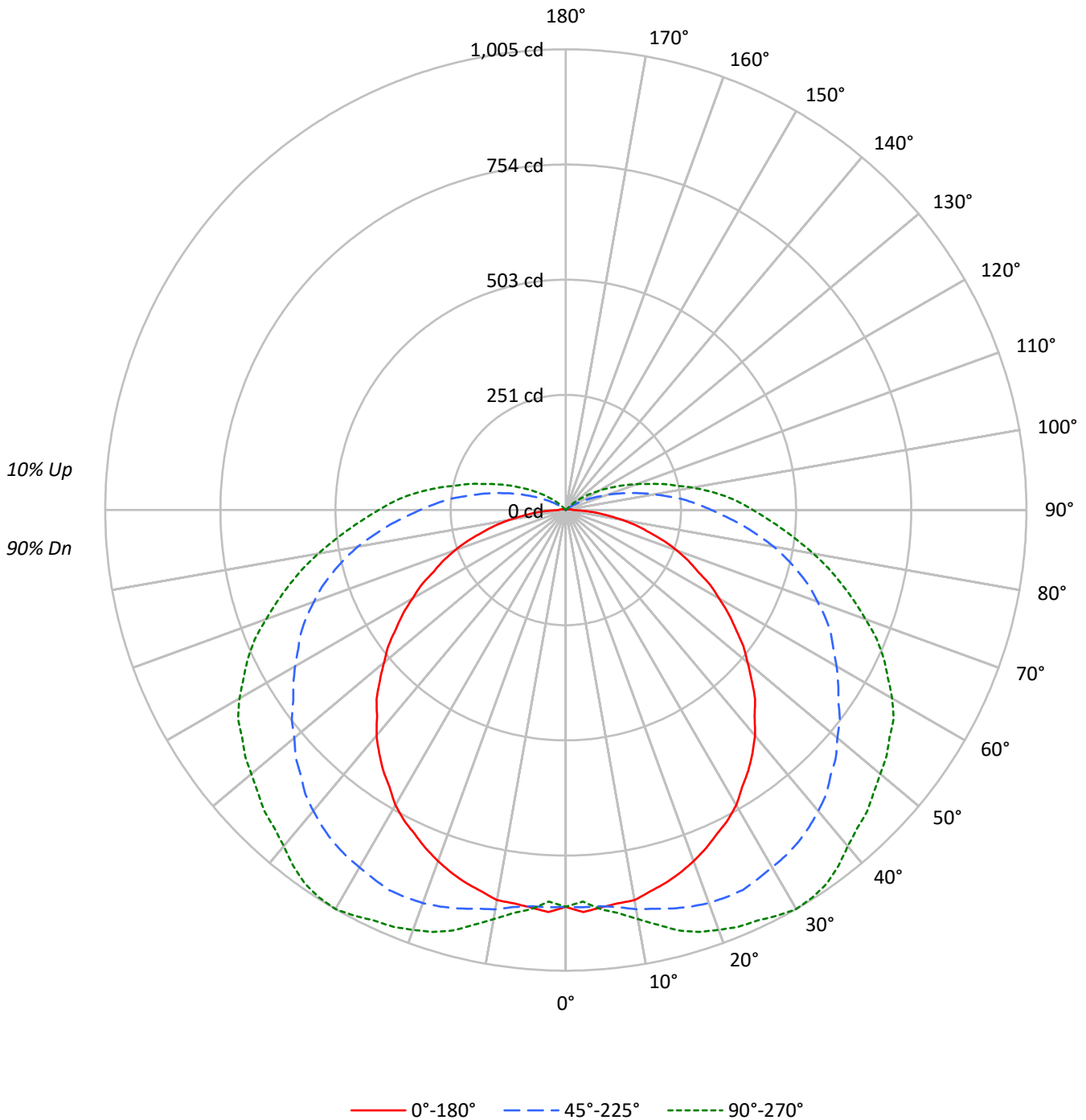
Lumens per Lamp: N/A  
Luminaire Lumens: 4421.4 lumens  
Efficiency: N/A  
Efficacy: 151.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.66  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 29.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	4658	4658	4658
5°	4702	4686	4721
10°	4722	4833	4953
15°	4692	5014	5291
20°	4668	5225	5581
25°	4631	5429	5867
30°	4621	5595	6248
35°	4561	5811	6530
40°	4513	6021	6724
45°	4446	6223	7076
50°	4336	6475	7501
55°	4247	6812	8093
60°	4160	7343	8849
65°	4052	8130	9746
70°	4058	9199	10947
75°	3924	10946	12953
80°	3890	14291	17009
85°	3971	23959	29276

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 54252 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.5	1.9
10°-20°	254.6	5.8
20°-30°	415.7	9.4
30°-40°	541.7	12.3
40°-50°	608.1	13.8
50°-60°	621.7	14.1
60°-70°	583.9	13.2
70°-80°	493.5	11.2
80°-90°	365.5	8.3
90°-100°	239.2	5.4
100°-110°	131.9	3.0
110°-120°	59.7	1.4
120°-130°	19.9	0.5
130°-140°	2.4	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°	753.9	17.1
0°-40°	1295.6	29.3
0°-60°	2525.5	57.1
0°-90°	3968.3	89.8
90°-120°	430.8	9.7
90°-150°	453.1	10.2
90°-180°	453.0	10.2
0°-180°	4421.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	870	869	867	874	874	83
15°	842	862	900	940	950	238
25°	780	829	914	974	988	360
35°	694	763	884	976	994	434
45°	584	671	818	904	930	449
55°	453	559	726	832	862	406
65°	318	439	638	742	765	318
75°	189	331	526	607	623	202
85°	64	223	388	460	474	65
90°	16	166	318	390	408	11
95°	12	119	259	326	349	10
105°	6	37	142	201	219	7
115°	3	4	60	109	120	3
125°	1	1	12	44	54	1
135°	0	0	0	3	8	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: P798329

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5
2.5°	877.9	867.4	867.9	866.5	866.5	872.4	870.9	866.9	867.9	866.0	867.4
5°	870.4	865.5	866.0	868.9	868.4	869.4	870.4	867.9	872.4	870.9	867.4
7.5°	865.5	861.5	862.5	858.5	866.5	868.4	868.4	866.9	871.4	872.9	873.4
10°	864.0	856.5	859.5	853.5	861.5	870.4	868.9	874.4	877.9	881.4	884.4
12.5°	852.1	849.1	847.6	852.1	863.0	869.9	865.5	869.4	878.9	885.4	890.9
15°	842.1	841.1	840.6	845.1	850.1	862.0	863.5	873.9	886.9	890.4	899.8
17.5°	829.6	826.6	828.6	832.1	848.1	855.5	862.5	869.9	887.9	894.9	907.3
20°	815.1	813.2	819.6	824.1	839.1	848.1	856.5	868.4	881.9	898.9	912.3
22.5°	798.8	797.8	803.3	812.2	831.6	840.1	846.1	862.5	883.4	897.4	914.3
25°	779.8	779.8	785.8	800.3	823.1	829.1	838.6	853.1	872.4	890.4	914.3
27.5°	763.8	763.8	769.3	783.8	802.8	818.6	830.6	841.1	866.5	886.4	907.3
30°	743.5	746.0	750.5	763.8	787.3	801.3	812.2	832.6	857.0	878.9	900.3
32.5°	716.0	717.0	728.5	745.0	768.8	782.8	797.8	818.1	850.1	863.5	893.4
35°	694.2	694.2	704.7	721.5	752.5	762.8	777.3	801.3	829.6	854.0	884.4
37.5°	668.8	669.2	683.2	706.2	730.5	744.0	758.0	784.3	812.7	838.1	871.9
40°	642.4	646.4	653.4	676.2	705.2	721.5	733.5	763.3	799.8	824.6	857.0
42.5°	609.5	614.0	626.4	649.9	677.7	700.7	715.0	741.5	775.3	808.7	841.1
45°	584.1	586.6	598.6	622.0	653.4	671.2	685.7	719.0	754.5	787.3	817.6
47.5°	550.3	555.7	567.7	594.1	627.4	647.4	659.8	692.7	730.5	761.8	799.3
50°	517.9	522.4	539.3	563.2	600.1	617.0	633.9	666.8	709.6	743.0	773.3
52.5°	488.5	492.0	506.9	535.3	567.7	590.1	603.6	641.9	684.2	717.5	753.5
55°	452.6	461.1	476.1	504.4	541.3	559.2	572.2	612.5	655.4	694.2	726.0
57.5°	421.3	429.8	445.2	475.1	510.9	527.9	548.3	588.1	627.4	668.3	704.7
60°	386.5	395.3	412.8	445.7	481.6	499.0	516.4	559.7	602.1	640.4	682.2
62.5°	356.0	362.5	383.5	410.8	447.6	468.1	487.5	530.4	580.6	620.0	658.3
65°	318.2	331.7	350.5	383.0	419.3	439.2	460.6	504.4	549.3	593.1	638.4
67.5°	289.3	297.3	319.7	350.0	389.0	412.8	432.3	481.6	526.9	570.2	613.0
70°	257.9	265.4	287.4	319.7	360.5	381.5	407.8	454.6	504.9	545.8	584.6
72.5°	225.1	234.1	254.9	288.4	333.2	357.5	380.0	430.3	482.1	519.4	558.2
75°	188.7	202.2	226.6	258.9	304.7	330.7	353.0	406.3	452.6	491.0	526.4
77.5°	158.4	168.8	196.2	236.1	282.4	305.7	329.7	380.5	426.3	461.6	494.5
80°	125.5	139.9	164.3	206.2	253.0	277.4	302.2	350.0	393.9	429.3	461.1
82.5°	93.1	106.1	136.4	179.8	227.6	251.0	271.9	318.7	361.0	396.3	423.8
85°	64.3	76.2	110.1	153.9	199.2	222.6	243.5	290.8	329.2	358.5	388.0
87.5°	35.8	51.8	86.6	128.0	172.8	195.2	214.1	258.4	294.3	325.7	351.0
90°	16.5	32.8	63.8	103.6	144.9	166.3	186.2	226.1	262.9	290.3	317.7
92.5°	14.0	20.0	47.3	83.1	123.0	142.4	162.3	199.7	232.1	262.9	287.4
95°	12.5	13.5	30.8	64.3	99.6	119.0	136.9	172.8	203.7	232.6	259.4
97.5°	11.0	11.0	19.0	45.3	79.1	95.1	112.1	146.9	175.8	203.2	226.6
100°	9.0	9.5	11.0	29.3	57.3	72.7	89.6	120.0	148.9	174.8	195.7
102.5°	8.0	8.0	8.5	18.0	39.3	53.3	68.3	95.1	124.0	146.9	169.3
105°	6.5	7.0	7.0	9.5	26.3	36.8	49.3	75.2	99.1	122.0	142.4
107.5°	5.5	5.5	5.5	6.0	16.0	23.9	33.8	54.8	77.7	99.6	118.5
110°	4.5	4.5	4.5	5.0	7.5	14.0	22.0	38.8	58.8	79.6	96.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	3.5	4.0	4.0	4.0	4.5	6.5	12.5	27.8	42.8	60.8	76.2
115°	3.0	3.0	3.0	3.0	3.5	3.5	5.0	16.5	30.8	44.8	59.8
117.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	8.0	20.5	32.3	44.8
120°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	11.0	22.5	32.3
122.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	12.5	22.0
125°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	12.5
127.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0	4.5
130°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.5
132.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.5	0.5	0.5	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°	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5
2.5°	859.0	863.0	867.9	869.9	866.0	869.4	869.4	864.5	865.0	855.0
5°	863.5	870.9	877.9	873.9	874.4	873.9	879.4	875.4	873.9	873.9
7.5°	875.4	881.9	883.4	887.9	887.4	892.4	887.9	891.9	890.4	886.9
10°	887.9	890.9	894.9	906.8	907.8	905.8	913.3	907.3	907.8	906.3
12.5°	893.9	910.8	911.3	923.2	920.7	928.2	929.2	931.2	931.7	926.7
15°	908.3	920.2	929.7	939.7	939.7	945.6	951.1	950.6	951.1	949.6
17.5°	917.8	936.2	942.7	951.1	954.6	961.1	964.1	969.1	967.6	965.1
20°	924.7	938.7	953.1	962.1	960.6	968.6	976.5	968.6	974.0	974.5
22.5°	922.7	944.7	955.1	966.6	971.1	974.0	980.5	986.5	986.5	984.0
25°	924.2	943.2	959.1	970.6	974.0	981.0	989.5	991.5	994.4	988.0
27.5°	921.7	943.7	960.6	973.0	973.0	988.0	991.5	999.9	1002.4	997.9
30°	922.7	942.2	958.1	978.0	982.5	990.5	999.4	1005.4	1004.4	1005.4
32.5°	915.8	938.2	956.6	978.0	985.0	989.5	999.9	1000.9	999.9	1001.9
35°	903.8	931.2	959.1	970.6	976.5	985.5	988.0	992.9	1001.4	993.9
37.5°	896.4	923.2	938.2	956.1	962.6	970.1	975.5	976.5	978.0	977.5
40°	882.4	907.8	921.2	939.7	942.2	954.1	950.6	955.6	960.1	957.1
42.5°	867.4	887.9	905.8	918.8	924.7	927.7	937.2	939.2	944.7	941.2
45°	844.1	866.0	885.4	899.4	904.3	914.3	918.8	922.2	927.7	929.7
47.5°	825.1	847.1	866.9	887.4	886.4	897.9	906.3	904.8	909.3	911.3
50°	799.8	826.6	851.1	865.5	870.4	881.4	884.9	894.9	899.4	895.9
52.5°	779.3	808.7	824.1	848.1	854.0	863.0	872.9	873.9	883.4	881.9
55°	758.5	784.8	809.7	825.1	832.1	843.6	850.6	854.5	858.5	862.5
57.5°	732.0	765.8	786.8	806.3	813.7	821.1	831.6	836.6	845.1	848.1
60°	711.6	746.5	763.8	786.3	793.8	802.3	809.7	814.1	820.6	822.1
62.5°	689.7	721.0	742.5	763.3	770.3	777.3	785.8	793.3	795.8	792.3
65°	664.3	696.2	715.5	736.5	742.0	755.5	753.0	760.5	763.3	765.3
67.5°	640.4	675.7	690.7	703.2	716.0	714.6	724.5	724.0	730.0	734.0
70°	612.0	639.9	653.9	672.2	675.7	680.2	688.2	690.2	693.7	695.7
72.5°	582.6	611.5	623.9	636.9	645.4	644.9	650.4	654.4	658.8	659.3
75°	553.7	572.7	588.1	600.6	607.0	608.0	615.0	614.0	624.4	622.9
77.5°	520.4	541.3	551.3	563.7	569.2	574.7	578.1	581.1	582.6	586.6
80°	481.1	505.9	513.4	526.9	530.8	536.8	538.3	544.8	547.3	548.8
82.5°	447.6	464.1	475.6	489.0	498.0	497.0	503.4	507.4	510.4	510.4
85°	410.3	429.3	439.7	451.6	460.1	461.6	468.1	468.1	472.1	474.1
87.5°	371.5	394.3	402.8	415.8	425.3	423.8	428.3	434.3	436.3	439.7
90°	337.2	355.5	369.5	382.0	390.5	391.5	396.3	401.3	402.3	408.3
92.5°	309.2	324.7	339.7	352.5	355.5	359.5	364.0	372.0	373.5	379.5
95°	276.9	295.8	307.7	320.7	325.7	328.7	333.7	339.7	344.6	349.0
97.5°	247.5	264.4	277.4	287.4	294.3	296.3	302.7	306.7	310.2	315.2
100°	216.1	231.1	245.0	256.4	261.9	263.4	270.4	273.4	276.4	280.9
102.5°	187.2	205.2	213.1	225.6	230.1	232.6	237.5	244.0	244.5	246.0
105°	157.9	175.3	186.7	195.7	201.2	203.2	208.1	215.1	215.6	219.1
107.5°	134.9	149.9	161.4	170.8	176.3	178.3	182.3	184.7	188.2	189.2
110°	112.6	126.0	137.4	145.4	149.9	153.9	158.4	162.3	164.3	164.8





TEST NUMBER: P798329  
 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-LOW-4000K

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	91.1	104.1	114.1	124.0	128.0	131.0	135.4	140.4	142.9	142.9
115°	73.2	85.1	95.6	103.6	109.1	110.6	114.6	118.5	120.5	120.5
117.5°	56.3	68.8	78.2	85.1	89.1	91.1	96.1	100.1	101.6	102.6
120°	42.8	52.8	61.8	69.2	71.7	75.2	78.7	82.1	84.1	84.1
122.5°	31.3	40.3	46.8	53.3	57.8	58.8	63.3	67.3	68.3	69.2
125°	21.5	28.8	35.3	40.8	44.3	45.3	48.8	52.3	53.3	54.3
127.5°	11.0	18.5	24.4	29.8	32.3	34.3	37.3	40.3	41.3	41.8
130°	3.0	8.5	14.5	19.5	21.5	23.0	26.3	28.3	30.3	29.8
132.5°	0.0	1.5	5.0	9.5	11.0	13.0	16.0	18.0	19.0	20.0
135°	0.0	0.0	0.5	2.0	3.0	4.0	6.0	8.5	8.5	8.5
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)