

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: io LED

Report Number: P397392

Luminaire Tested: **VRVT4LED-LD5-24-DR-UNV-LG52-CD2-WL-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: VRVT4LED-LD5-24-DR-UNV-LG52-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

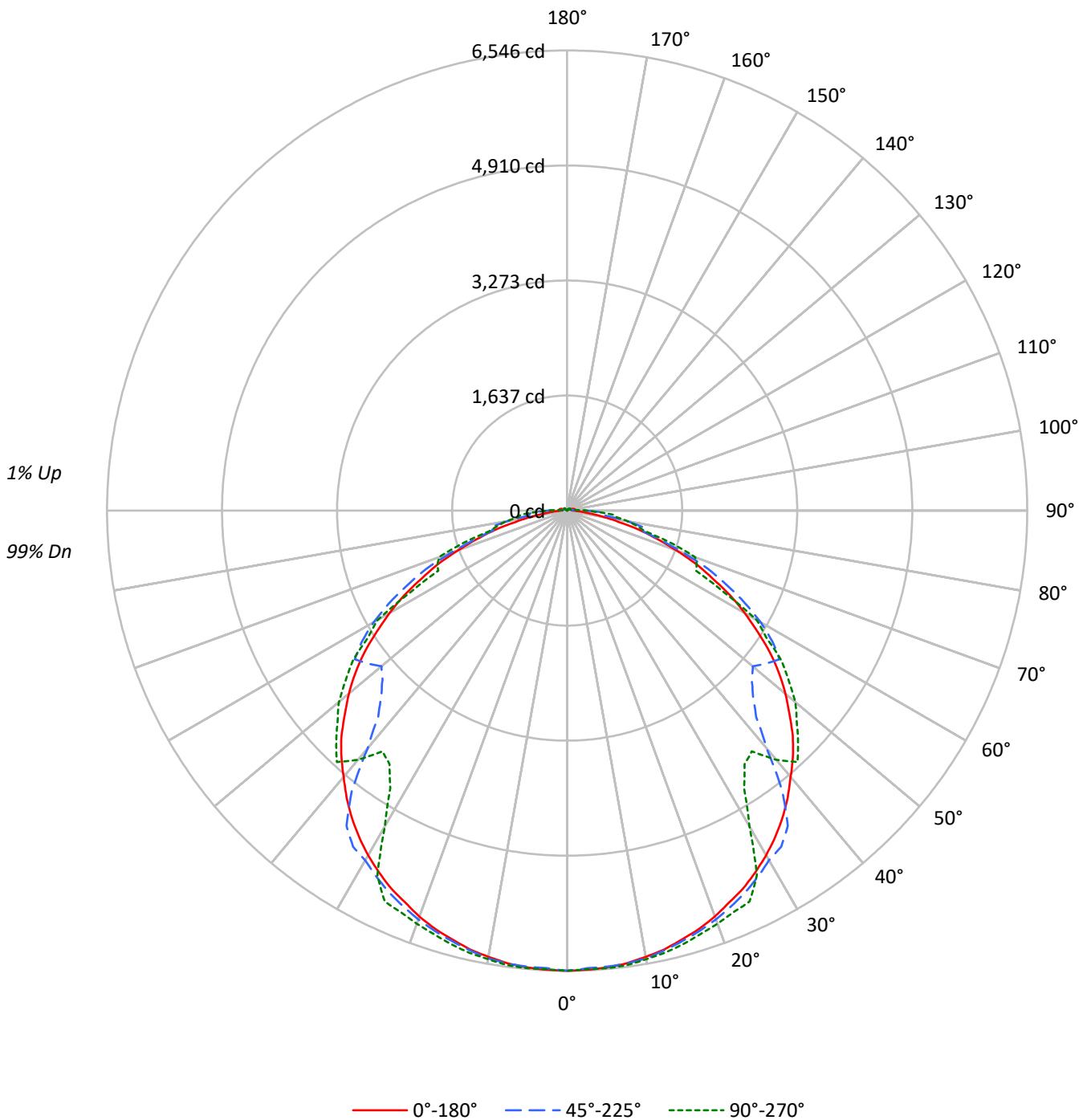
Lumens per Lamp: N/A
Luminaire Lumens: 19211.2 lumens
Efficiency: N/A
Efficacy: 45.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.17 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

Input Watts (W): 426.7
Input Voltage (V): NR
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: 25 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	0
RCR																		
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	95	88	81	76	84	79	74	80	76	72	77	74	70	68
3	89	79	71	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	55	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	69	56	47	41	67	55	47	40	53	45	40	51	44	39	49	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16399	16399	16399
5°	16319	16075	16092
10°	16225	15859	15816
15°	16114	15555	15556
20°	16028	15316	15330
25°	15939	15071	15259
30°	15823	14803	13177
35°	15663	14568	11528
40°	15393	12255	12593
45°	15168	10920	13275
50°	14734	10722	12849
55°	14165	12354	12116
60°	13229	11645	11036
65°	11969	10212	7921
70°	10342	8149	8549
75°	8380	5872	5878
80°	5806	5594	5372
85°	3600	4573	5031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.8	3.2
10°-20°	1794.1	9.3
20°-30°	2757.9	14.4
30°-40°	3163.9	16.5
40°-50°	3366.7	17.5
50°-60°	3146.9	16.4
60°-70°	2285.0	11.9
70°-80°	1279.3	6.7
80°-90°	511.3	2.7
90°-100°	121.8	0.6
100°-110°	66.1	0.3
110°-120°	42.2	0.2
120°-130°	30.7	0.2
130°-140°	16.2	0.1
140°-150°	5.0	0.0
150°-160°	1.7	0.0
160°-170°	1.2	0.0
170°-180°	0.5	0.0
0°-30°	5172.8	26.9
0°-40°	8336.7	43.4
0°-60°	14850.2	77.3
0°-90°	18925.9	98.5
90°-120°	230.1	1.2
90°-150°	282.0	1.5
90°-180°	285.0	1.5
0°-180°	19211.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6546	6546	6546	6546	6546	
5°	6524	6514	6511	6530	6534	620
15°	6314	6350	6339	6374	6384	1785
25°	5930	5950	5993	6068	6138	2732
35°	5339	5350	5473	4467	4403	3337
45°	4541	4591	3738	4636	4646	3492
55°	3524	3424	3687	3724	3725	3135
65°	2282	1956	2508	2218	2024	2267
75°	1062	1153	1088	1362	1151	1119
85°	212	320	546	642	655	243
90°	70	188	264	293	275	46
95°	90	94	79	81	80	79
105°	91	75	56	54	51	96
115°	43	46	40	38	40	45
125°	20	18	52	52	50	18
135°	9	7	28	19	34	7
145°	5	4	4	7	8	3
155°	4	4	4	3	2	2
165°	5	5	5	4	2	1
175°	6	6	6	5	3	0
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	6546.5	6546.5	6546.5	6546.5	6546.5	6546.5	6546.5	6546.5	6546.5	6546.5	6546.5
2.5°	6537.7	6534.5	6534.5	6535.3	6529.7	6526.5	6526.5	6512.1	6504.9	6509.7	6516.9
5°	6524.1	6529.7	6526.5	6525.7	6516.1	6513.7	6510.5	6496.9	6489.7	6500.1	6511.3
7.5°	6496.1	6496.1	6495.3	6495.3	6491.3	6488.9	6492.1	6485.7	6480.9	6488.1	6500.1
10°	6446.5	6452.1	6449.7	6453.7	6448.1	6450.5	6448.9	6444.1	6450.5	6459.3	6468.1
12.5°	6392.9	6392.9	6392.9	6404.9	6406.5	6410.5	6414.5	6404.1	6397.7	6396.1	6407.3
15°	6314.5	6313.7	6332.9	6344.9	6347.3	6350.5	6343.3	6332.9	6331.3	6336.9	6339.3
17.5°	6240.1	6239.3	6247.3	6256.1	6265.7	6260.1	6252.1	6252.9	6252.9	6253.7	6268.9
20°	6144.9	6138.5	6167.3	6168.1	6156.9	6155.3	6158.5	6163.3	6163.3	6175.3	6189.7
22.5°	6029.7	6041.7	6056.9	6059.3	6056.9	6056.9	6049.7	6068.1	6067.3	6073.7	6093.7
25°	5929.7	5932.1	5926.5	5931.3	5940.1	5950.5	5936.1	5951.3	5960.9	5971.3	5992.9
27.5°	5800.1	5800.1	5792.9	5809.7	5812.9	5817.7	5813.7	5831.3	5842.5	5852.1	5872.9
30°	5661.7	5657.7	5656.9	5678.5	5670.5	5690.5	5681.7	5687.3	5708.9	5712.9	5745.7
32.5°	5508.9	5497.7	5503.3	5521.7	5523.3	5531.3	5516.9	5531.3	5556.1	5591.3	5667.3
35°	5339.3	5334.5	5339.3	5343.3	5354.5	5349.7	5348.9	5376.9	5405.7	5497.7	5472.9
37.5°	5152.1	5146.5	5164.9	5167.3	5180.9	5169.7	5177.7	5211.3	5298.5	5296.9	5031.3
40°	4946.5	4980.9	4967.3	4975.3	4983.3	4989.7	5000.1	5064.1	5120.9	4865.7	4416.1
42.5°	4753.7	4754.5	4768.9	4780.1	4788.9	4795.3	4814.5	4889.7	4744.9	4276.9	3979.3
45°	4540.9	4539.3	4547.3	4550.5	4573.7	4591.3	4656.1	4618.5	4204.1	3836.1	3737.7
47.5°	4289.7	4295.3	4324.1	4338.5	4344.9	4412.1	4423.3	4196.9	3706.5	3552.1	3563.3
50°	4053.7	4077.7	4075.3	4092.9	4156.1	4191.3	4128.1	3619.3	3350.5	3372.9	3448.1
52.5°	3800.1	3813.7	3803.3	3837.7	3903.3	3872.1	3681.7	3213.7	3150.5	3208.1	3572.1
55°	3524.1	3508.1	3549.7	3580.9	3584.1	3424.1	3140.1	2936.1	2956.1	3152.1	3687.3
57.5°	3212.1	3232.1	3251.3	3308.9	3200.1	2926.5	2740.1	2715.3	2760.1	3357.7	3460.1
60°	2917.7	2928.9	2965.7	3008.9	2696.9	2506.5	2448.1	2472.9	2752.1	3251.3	3180.1
62.5°	2616.9	2640.1	2664.1	2644.1	2241.6	2214.4	2220.0	2271.2	2841.7	2905.7	2855.3
65°	2281.6	2316.1	2355.3	2220.0	1951.2	1956.0	1962.4	2198.4	2579.3	2541.7	2508.1
67.5°	1988.0	1999.2	2022.4	1776.8	1692.0	1698.4	1720.0	2226.4	2268.0	2232.8	2171.2
70°	1647.2	1681.6	1679.2	1429.6	1443.2	1445.6	1534.4	1967.2	1915.2	1876.8	1762.4
72.5°	1337.6	1367.2	1283.2	1180.0	1184.8	1232.0	1540.8	1592.8	1530.4	1440.8	1390.4
75°	1061.6	1059.2	942.4	917.6	950.4	1152.8	1309.6	1185.6	1141.6	1145.6	1088.0
77.5°	754.4	790.4	692.0	696.8	805.6	962.4	924.0	872.8	915.2	873.6	1120.8
80°	540.8	541.6	493.6	508.0	661.6	649.6	648.8	669.6	667.2	847.2	855.2
82.5°	347.2	339.2	336.0	336.8	466.4	461.6	465.6	481.6	631.2	600.0	542.4
85°	212.0	211.2	204.8	266.4	304.8	320.0	329.6	469.6	406.4	471.2	545.6
87.5°	131.2	136.0	132.8	194.4	224.0	277.6	316.0	301.6	391.2	363.2	452.8
90°	70.4	74.4	90.4	134.4	198.4	188.0	215.2	244.0	302.4	299.2	264.0
92.5°	64.0	67.2	86.4	118.4	139.2	148.8	160.8	162.4	160.0	165.6	162.4
95°	89.6	88.0	90.4	96.8	96.0	93.6	96.0	92.8	87.2	82.4	79.2
97.5°	112.8	107.2	96.8	80.8	69.6	68.8	68.8	67.2	61.6	59.2	57.6
100°	112.0	108.8	98.4	88.0	73.6	67.2	63.2	59.2	57.6	56.0	55.2
102.5°	104.8	101.6	94.4	87.2	82.4	76.8	69.6	60.8	57.6	56.8	56.0
105°	91.2	89.6	84.8	79.2	76.0	75.2	72.8	66.4	59.2	56.8	56.0
107.5°	78.4	76.8	73.6	69.6	68.0	67.2	66.4	64.8	60.0	55.2	53.6
110°	64.8	63.2	60.8	58.4	59.2	57.6	57.6	56.8	55.2	52.8	49.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	53.6	52.0	49.6	49.6	50.4	51.2	50.4	49.6	48.8	46.4	45.6
115°	43.2	42.4	40.8	40.8	42.4	45.6	48.0	49.6	45.6	41.6	40.0
117.5°	35.2	35.2	33.6	32.8	36.0	39.2	40.8	44.8	48.8	47.2	40.8
120°	28.8	28.8	28.0	26.4	28.0	31.2	35.2	43.2	41.6	45.6	50.4
122.5°	24.0	24.0	22.4	21.6	21.6	24.0	24.8	32.8	48.0	43.2	42.4
125°	20.0	19.2	19.2	17.6	17.6	18.4	20.8	22.4	28.0	48.0	52.0
127.5°	16.0	16.0	15.2	14.4	13.6	13.6	15.2	22.4	21.6	23.2	37.6
130°	13.6	13.6	12.8	12.0	11.2	10.4	10.4	16.0	27.2	24.0	21.6
132.5°	11.2	10.4	10.4	9.6	8.8	8.8	8.0	8.8	16.0	28.8	28.0
135°	8.8	8.8	8.0	8.0	7.2	7.2	6.4	6.4	8.0	13.6	28.0
137.5°	7.2	7.2	7.2	6.4	6.4	6.4	5.6	5.6	5.6	7.2	11.2
140°	6.4	6.4	6.4	5.6	5.6	4.8	4.8	4.8	4.0	4.8	6.4
142.5°	5.6	5.6	5.6	4.8	4.8	4.8	4.8	4.0	4.0	4.0	4.8
145°	4.8	4.8	4.8	4.8	4.8	4.0	4.0	4.0	3.2	3.2	4.0
147.5°	4.8	4.8	4.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
150°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
152.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
155°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
157.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
160°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.0	4.8
162.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
165°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
167.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
170°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.6
172.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.6
175°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.8	5.6
177.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.8	5.6
180°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	6546.5	6546.5	6546.5	6546.5	6546.5	6546.5	6546.5	6546.5	6546.5	6546.5
2.5°	6512.1	6517.7	6512.9	6526.5	6529.7	6530.5	6536.9	6537.7	6534.5	6530.5
5°	6508.9	6521.7	6515.3	6529.7	6530.5	6532.9	6539.3	6540.9	6537.7	6533.7
7.5°	6500.1	6512.1	6510.5	6520.1	6525.7	6519.3	6528.1	6532.9	6528.1	6522.5
10°	6458.5	6464.9	6461.7	6475.3	6477.7	6476.1	6486.5	6489.7	6488.9	6480.9
12.5°	6407.3	6417.7	6420.9	6426.5	6426.5	6427.3	6436.9	6440.9	6446.5	6441.7
15°	6344.9	6349.7	6360.9	6372.1	6373.7	6378.5	6377.7	6394.5	6384.1	6384.1
17.5°	6276.1	6282.5	6287.3	6299.3	6308.9	6308.1	6308.9	6319.3	6323.3	6316.9
20°	6195.3	6198.5	6212.1	6225.7	6229.7	6236.1	6245.7	6252.9	6256.9	6252.9
22.5°	6113.7	6124.9	6128.9	6144.9	6148.9	6158.5	6173.7	6187.3	6195.3	6182.5
25°	6008.9	6011.3	6038.5	6051.3	6068.1	6078.5	6115.3	6148.1	6156.1	6138.5
27.5°	5896.1	5912.9	5982.5	5998.5	5983.3	5980.9	5959.3	5936.1	5814.5	5848.1
30°	5811.3	5832.9	5785.7	5648.1	5627.3	5520.9	5405.7	5238.5	5195.3	5186.5
32.5°	5668.1	5520.9	5284.9	5025.7	4949.7	4854.5	4777.7	4715.3	4675.3	4680.9
35°	5252.9	4929.7	4639.3	4511.3	4467.3	4437.7	4393.7	4397.7	4411.3	4403.3
37.5°	4672.9	4382.5	4292.9	4254.5	4245.7	4253.7	4261.7	4280.9	4305.7	4316.1
40°	4170.5	4079.3	4096.1	4116.9	4150.5	4201.7	4300.9	4428.9	4561.7	4626.5
42.5°	3904.1	3925.7	4002.5	4188.9	4367.3	4528.1	4680.9	4799.3	4844.1	4852.1
45°	3745.7	3864.9	4224.9	4556.1	4636.1	4667.3	4717.7	4704.9	4683.3	4646.5
47.5°	3677.7	4140.1	4414.5	4488.9	4445.7	4420.1	4428.9	4404.1	4436.9	4428.9
50°	3943.3	4220.1	4210.5	4181.7	4216.1	4238.5	4276.1	4252.9	4259.3	4240.1
52.5°	3976.1	3972.9	3973.7	4040.9	4017.7	3988.9	3991.3	4023.3	4031.3	3972.1
55°	3733.7	3768.9	3748.9	3742.5	3724.1	3676.9	3627.3	3648.9	3711.3	3724.9
57.5°	3488.9	3437.7	3451.3	3380.9	3449.7	3522.5	3412.9	3365.7	3340.1	3354.5
60°	3172.9	3102.5	3213.7	3108.1	3088.1	3116.9	3203.3	3252.1	3147.3	3118.5
62.5°	2807.3	2892.1	2832.1	2867.3	2773.7	2636.1	2448.1	2448.1	2490.5	2504.1
65°	2526.5	2518.5	2249.6	2171.2	2217.6	2260.8	2249.6	2089.6	2056.8	2024.0
67.5°	2114.4	1849.6	1948.0	1833.6	1805.6	1784.8	1820.0	1896.8	1988.0	1995.2
70°	1611.2	1655.2	1553.6	1728.0	1856.8	1986.4	2044.0	2032.0	1981.6	1936.8
72.5°	1329.6	1444.0	1757.6	1709.6	1668.0	1676.0	1641.6	1623.2	1596.8	1580.8
75°	1372.8	1400.8	1376.8	1354.4	1361.6	1348.0	1296.0	1229.6	1172.0	1151.2
77.5°	1067.2	1115.2	1040.0	932.0	927.2	960.8	985.6	1024.8	1042.4	1023.2
80°	752.8	707.2	802.4	876.8	902.4	932.8	887.2	869.6	869.6	879.2
82.5°	642.4	726.4	696.0	652.8	653.6	663.2	663.2	684.0	721.6	699.2
85°	486.4	540.8	648.8	656.0	642.4	656.8	677.6	676.8	663.2	655.2
87.5°	473.6	472.8	460.8	404.8	400.0	413.6	413.6	406.4	404.8	400.0
90°	272.8	272.0	271.2	284.0	292.8	283.2	276.0	271.2	272.8	275.2
92.5°	158.4	160.8	160.8	164.8	159.2	152.0	148.0	142.4	140.0	134.4
95°	78.4	80.0	81.6	80.0	80.8	80.8	80.0	80.8	79.2	80.0
97.5°	58.4	59.2	60.0	61.6	63.2	63.2	64.8	64.8	64.8	65.6
100°	54.4	54.4	54.4	54.4	55.2	55.2	56.0	56.0	56.8	56.8
102.5°	56.0	55.2	54.4	53.6	53.6	53.6	53.6	53.6	53.6	53.6
105°	56.0	55.2	55.2	54.4	54.4	53.6	52.8	52.0	52.0	51.2
107.5°	53.6	55.2	56.0	56.0	56.0	55.2	54.4	53.6	52.8	53.6
110°	48.0	48.0	49.6	49.6	50.4	51.2	52.0	52.0	52.0	52.0



TEST NUMBER: P397392

CATALOG NUMBER: VRVT4LED-LD5-24-DR-UNV-LG52-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	44.8	43.2	43.2	44.0	44.8	44.8	45.6	45.6	45.6	45.6
115°	39.2	37.6	37.6	37.6	38.4	39.2	39.2	40.0	40.0	40.0
117.5°	36.0	33.6	32.8	32.8	32.8	32.8	33.6	33.6	33.6	34.4
120°	48.8	40.0	32.8	29.6	28.8	28.8	28.8	28.8	28.8	28.8
122.5°	46.4	52.0	52.0	43.2	42.4	38.4	35.2	32.8	29.6	29.6
125°	40.8	42.4	43.2	48.0	52.0	52.8	56.8	53.6	51.2	49.6
127.5°	52.8	59.2	40.8	40.0	40.0	40.8	42.4	42.4	44.0	47.2
130°	26.4	42.4	52.0	52.8	56.8	63.2	46.4	38.4	37.6	38.4
132.5°	21.6	20.0	24.8	38.4	44.0	46.4	50.4	53.6	51.2	52.0
135°	36.0	28.8	21.6	19.2	19.2	19.2	23.2	25.6	30.4	34.4
137.5°	20.8	33.6	39.2	32.8	30.4	26.4	22.4	19.2	18.4	18.4
140°	8.8	13.6	21.6	32.8	36.8	38.4	40.8	38.4	36.8	33.6
142.5°	6.4	8.0	8.8	11.2	13.6	16.0	19.2	26.4	28.8	29.6
145°	4.8	6.4	6.4	7.2	7.2	8.0	8.0	8.0	8.0	8.0
147.5°	4.0	4.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
150°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
152.5°	4.0	4.0	3.2	3.2	3.2	3.2	2.4	2.4	2.4	1.6
155°	4.0	4.0	4.0	3.2	3.2	3.2	2.4	1.6	1.6	1.6
157.5°	4.0	4.0	4.0	3.2	3.2	3.2	2.4	1.6	1.6	1.6
160°	4.8	4.8	4.0	3.2	3.2	3.2	2.4	1.6	1.6	1.6
162.5°	4.8	4.8	4.0	4.0	3.2	3.2	2.4	2.4	1.6	1.6
165°	4.8	4.8	4.8	4.0	4.0	3.2	3.2	2.4	2.4	1.6
167.5°	5.6	4.8	4.8	4.0	4.0	4.0	3.2	2.4	2.4	2.4
170°	5.6	5.6	4.8	4.8	4.0	4.0	3.2	3.2	2.4	2.4
172.5°	5.6	5.6	4.8	4.8	4.0	4.0	4.0	3.2	3.2	3.2
175°	5.6	5.6	4.8	4.8	4.8	4.8	4.0	3.2	3.2	3.2
177.5°	5.6	5.6	4.8	4.8	4.8	4.8	4.0	3.2	3.2	3.2
180°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)