

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: METALUX

Report Number: P236620

Luminaire Tested: **VRVT4LED-LD5-24-DR-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236620
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: METALUX
Catalog Number: VRVT4LED-LD5-24-DR-UNV-L840-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
10 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (560) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24013.9 lumens
Efficiency: N/A
Efficacy: 133.9 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

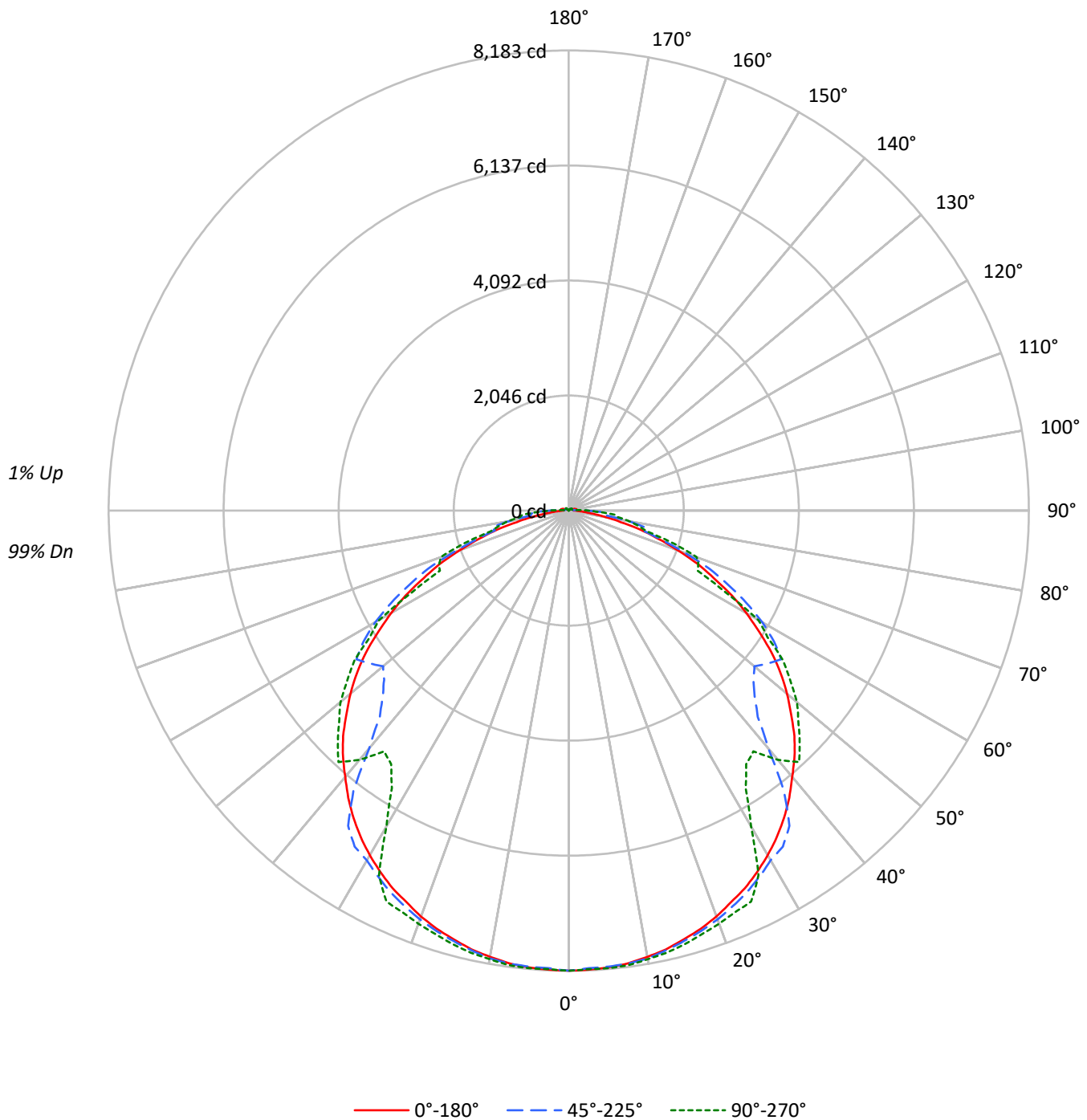
Input Watts (W): 179.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	20499	20499	20499
5°	20399	20093	20115
10°	20281	19823	19770
15°	20143	19443	19445
20°	20035	19145	19162
25°	19924	18838	19074
30°	19779	18504	16471
35°	19579	18210	14410
40°	19241	15319	15741
45°	18960	13650	16594
50°	18417	13402	16061
55°	17706	15442	15144
60°	16536	14556	13795
65°	14961	12765	9901
70°	12928	10186	10686
75°	10475	7340	7347
80°	7257	6992	6715
85°	4500	5716	6289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.0	3.2
10°-20°	2242.6	9.3
20°-30°	3447.4	14.4
30°-40°	3954.9	16.5
40°-50°	4208.3	17.5
50°-60°	3933.6	16.4
60°-70°	2856.2	11.9
70°-80°	1599.1	6.7
80°-90°	639.2	2.7
90°-100°	152.3	0.6
100°-110°	82.6	0.3
110°-120°	52.8	0.2
120°-130°	38.3	0.2
130°-140°	20.3	0.1
140°-150°	6.3	0.0
150°-160°	2.1	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	6466.0	26.9
0°-40°	10420.8	43.4
0°-60°	18562.7	77.3
0°-90°	23657.2	98.5
90°-120°	287.7	1.2
90°-150°	352.6	1.5
90°-180°	357.0	1.5
0°-180°	24013.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8183	8183	8183	8183	8183	
5°	8155	8142	8139	8163	8167	775
15°	7893	7938	7924	7967	7980	2231
25°	7412	7438	7491	7585	7673	3415
35°	6674	6687	6841	5584	5504	4171
45°	5676	5739	4672	5795	5808	4365
55°	4405	4280	4609	4655	4656	3919
65°	2852	2445	3135	2772	2530	2834
75°	1327	1441	1360	1702	1439	1399
85°	265	400	682	803	819	304
90°	88	235	330	366	344	58
95°	112	117	99	101	100	99
105°	114	94	70	68	64	120
115°	54	57	50	48	50	56
125°	25	23	65	65	62	23
135°	11	9	35	24	43	9
145°	6	5	5	9	10	4
155°	5	5	5	4	2	2
165°	6	6	6	5	2	2
175°	7	7	7	6	4	1
180°	6	6	6	6	6	



TEST NUMBER: P236620

CATALOG NUMBER: VRVT4LED-LD5-24-DR-UNV-L840-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1
2.5°	8172.1	8168.1	8168.1	8169.1	8162.1	8158.1	8158.1	8140.1	8131.1	8137.1	8146.1
5°	8155.1	8162.1	8158.1	8157.1	8145.1	8142.1	8138.1	8121.1	8112.1	8125.1	8139.1
7.5°	8120.1	8120.1	8119.1	8119.1	8114.1	8111.1	8115.1	8107.1	8101.1	8110.1	8125.1
10°	8058.1	8065.1	8062.1	8067.1	8060.1	8063.1	8061.1	8055.1	8063.1	8074.1	8085.1
12.5°	7991.1	7991.1	7991.1	8006.1	8008.1	8013.1	8018.1	8005.1	7997.1	7995.1	8009.1
15°	7893.1	7892.1	7916.1	7931.1	7934.1	7938.1	7929.1	7916.1	7914.1	7921.1	7924.1
17.5°	7800.1	7799.1	7809.1	7820.1	7832.1	7825.1	7815.1	7816.1	7816.1	7817.1	7836.1
20°	7681.1	7673.1	7709.1	7710.1	7696.1	7694.1	7698.1	7704.1	7704.1	7719.1	7737.1
22.5°	7537.1	7552.1	7571.1	7574.1	7571.1	7571.1	7562.1	7585.1	7584.1	7592.1	7617.1
25°	7412.1	7415.1	7408.1	7414.1	7425.1	7438.1	7420.1	7439.1	7451.1	7464.1	7491.1
27.5°	7250.1	7250.1	7241.1	7262.1	7266.1	7272.1	7267.1	7289.1	7303.1	7315.1	7341.1
30°	7077.1	7072.1	7071.1	7098.1	7088.1	7113.1	7102.1	7109.1	7136.1	7141.1	7182.1
32.5°	6886.1	6872.1	6879.1	6902.1	6904.1	6914.1	6896.1	6914.1	6945.1	6989.1	7084.1
35°	6674.1	6668.1	6674.1	6679.1	6693.1	6687.1	6686.1	6721.1	6757.1	6872.1	6841.1
37.5°	6440.1	6433.1	6456.1	6459.1	6476.1	6462.1	6472.1	6514.1	6623.1	6621.1	6289.1
40°	6183.1	6226.1	6209.1	6219.1	6229.1	6237.1	6250.1	6330.1	6401.1	6082.1	5520.1
42.5°	5942.1	5943.1	5961.1	5975.1	5986.1	5994.1	6018.1	6112.1	5931.1	5346.1	4974.1
45°	5676.1	5674.1	5684.1	5688.1	5717.1	5739.1	5820.1	5773.1	5255.1	4795.1	4672.1
47.5°	5362.1	5369.1	5405.1	5423.1	5431.1	5515.1	5529.1	5246.1	4633.1	4440.1	4454.1
50°	5067.1	5097.1	5094.1	5116.1	5195.1	5239.1	5160.1	4524.1	4188.1	4216.1	4310.1
52.5°	4750.1	4767.1	4754.1	4797.1	4879.1	4840.1	4602.1	4017.1	3938.1	4010.1	4465.1
55°	4405.1	4385.1	4437.1	4476.1	4480.1	4280.1	3925.1	3670.1	3695.1	3940.1	4609.1
57.5°	4015.1	4040.1	4064.1	4136.1	4000.1	3658.1	3425.1	3394.1	3450.1	4197.1	4325.1
60°	3647.1	3661.1	3707.1	3761.1	3371.1	3133.1	3060.1	3091.1	3440.1	4064.1	3975.1
62.5°	3271.1	3300.1	3330.1	3305.1	2802.0	2768.0	2775.0	2839.0	3552.1	3632.1	3569.1
65°	2852.0	2895.1	2944.1	2775.0	2439.0	2445.0	2453.0	2748.0	3224.1	3177.1	3135.1
67.5°	2485.0	2499.0	2528.0	2221.0	2115.0	2123.0	2150.0	2783.0	2835.0	2791.0	2714.0
70°	2059.0	2102.0	2099.0	1787.0	1804.0	1807.0	1918.0	2459.0	2394.0	2346.0	2203.0
72.5°	1672.0	1709.0	1604.0	1475.0	1481.0	1540.0	1926.0	1991.0	1913.0	1801.0	1738.0
75°	1327.0	1324.0	1178.0	1147.0	1188.0	1441.0	1637.0	1482.0	1427.0	1432.0	1360.0
77.5°	943.0	988.0	865.0	871.0	1007.0	1203.0	1155.0	1091.0	1144.0	1092.0	1401.0
80°	676.0	677.0	617.0	635.0	827.0	812.0	811.0	837.0	834.0	1059.0	1069.0
82.5°	434.0	424.0	420.0	421.0	583.0	577.0	582.0	602.0	789.0	750.0	678.0
85°	265.0	264.0	256.0	333.0	381.0	400.0	412.0	587.0	508.0	589.0	682.0
87.5°	164.0	170.0	166.0	243.0	280.0	347.0	395.0	377.0	489.0	454.0	566.0
90°	88.0	93.0	113.0	168.0	248.0	235.0	269.0	305.0	378.0	374.0	330.0
92.5°	80.0	84.0	108.0	148.0	174.0	186.0	201.0	203.0	200.0	207.0	203.0
95°	112.0	110.0	113.0	121.0	120.0	117.0	120.0	116.0	109.0	103.0	99.0
97.5°	141.0	134.0	121.0	101.0	87.0	86.0	86.0	84.0	77.0	74.0	72.0
100°	140.0	136.0	123.0	110.0	92.0	84.0	79.0	74.0	72.0	70.0	69.0
102.5°	131.0	127.0	118.0	109.0	103.0	96.0	87.0	76.0	72.0	71.0	70.0
105°	114.0	112.0	106.0	99.0	95.0	94.0	91.0	83.0	74.0	71.0	70.0
107.5°	98.0	96.0	92.0	87.0	85.0	84.0	83.0	81.0	75.0	69.0	67.0
110°	81.0	79.0	76.0	73.0	74.0	72.0	72.0	71.0	69.0	66.0	62.0



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CATALOG NUMBER: VRVT4LED-LD5-24-DR-UNV-L840-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	67.0	65.0	62.0	62.0	63.0	64.0	63.0	62.0	61.0	58.0	57.0
115°	54.0	53.0	51.0	51.0	53.0	57.0	60.0	62.0	57.0	52.0	50.0
117.5°	44.0	44.0	42.0	41.0	45.0	49.0	51.0	56.0	61.0	59.0	51.0
120°	36.0	36.0	35.0	33.0	35.0	39.0	44.0	54.0	52.0	57.0	63.0
122.5°	30.0	30.0	28.0	27.0	27.0	30.0	31.0	41.0	60.0	54.0	53.0
125°	25.0	24.0	24.0	22.0	22.0	23.0	26.0	28.0	35.0	60.0	65.0
127.5°	20.0	20.0	19.0	18.0	17.0	17.0	19.0	28.0	27.0	29.0	47.0
130°	17.0	17.0	16.0	15.0	14.0	13.0	13.0	20.0	34.0	30.0	27.0
132.5°	14.0	13.0	13.0	12.0	11.0	11.0	10.0	11.0	20.0	36.0	35.0
135°	11.0	11.0	10.0	10.0	9.0	9.0	8.0	8.0	10.0	17.0	35.0
137.5°	9.0	9.0	9.0	8.0	8.0	8.0	7.0	7.0	7.0	9.0	14.0
140°	8.0	8.0	8.0	7.0	7.0	6.0	6.0	6.0	5.0	6.0	8.0
142.5°	7.0	7.0	7.0	6.0	6.0	6.0	6.0	5.0	5.0	5.0	6.0
145°	6.0	6.0	6.0	6.0	6.0	5.0	5.0	5.0	4.0	4.0	5.0
147.5°	6.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
150°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
152.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
155°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
157.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
160°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	6.0
162.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
165°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
167.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
170°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0
172.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0
175°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.0	7.0
177.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.0	7.0
180°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1
2.5°	8140.1	8147.1	8141.1	8158.1	8162.1	8163.1	8171.1	8172.1	8168.1	8163.1
5°	8136.1	8152.1	8144.1	8162.1	8163.1	8166.1	8174.1	8176.1	8172.1	8167.1
7.5°	8125.1	8140.1	8138.1	8150.1	8157.1	8149.1	8160.1	8166.1	8160.1	8153.1
10°	8073.1	8081.1	8077.1	8094.1	8097.1	8095.1	8108.1	8112.1	8111.1	8101.1
12.5°	8009.1	8022.1	8026.1	8033.1	8033.1	8034.1	8046.1	8051.1	8058.1	8052.1
15°	7931.1	7937.1	7951.1	7965.1	7967.1	7973.1	7972.1	7993.1	7980.1	7980.1
17.5°	7845.1	7853.1	7859.1	7874.1	7886.1	7885.1	7886.1	7899.1	7904.1	7896.1
20°	7744.1	7748.1	7765.1	7782.1	7787.1	7795.1	7807.1	7816.1	7821.1	7816.1
22.5°	7642.1	7656.1	7661.1	7681.1	7686.1	7698.1	7717.1	7734.1	7744.1	7728.1
25°	7511.1	7514.1	7548.1	7564.1	7585.1	7598.1	7644.1	7685.1	7695.1	7673.1
27.5°	7370.1	7391.1	7478.1	7498.1	7479.1	7476.1	7449.1	7420.1	7268.1	7310.1
30°	7264.1	7291.1	7232.1	7060.1	7034.1	6901.1	6757.1	6548.1	6494.1	6483.1
32.5°	7085.1	6901.1	6606.1	6282.1	6187.1	6068.1	5972.1	5894.1	5844.1	5851.1
35°	6566.1	6162.1	5799.1	5639.1	5584.1	5547.1	5492.1	5497.1	5514.1	5504.1
37.5°	5841.1	5478.1	5366.1	5318.1	5307.1	5317.1	5327.1	5351.1	5382.1	5395.1
40°	5213.1	5099.1	5120.1	5146.1	5188.1	5252.1	5376.1	5536.1	5702.1	5783.1
42.5°	4880.1	4907.1	5003.1	5236.1	5459.1	5660.1	5851.1	5999.1	6055.1	6065.1
45°	4682.1	4831.1	5281.1	5695.1	5795.1	5834.1	5897.1	5881.1	5854.1	5808.1
47.5°	4597.1	5175.1	5518.1	5611.1	5557.1	5525.1	5536.1	5505.1	5546.1	5536.1
50°	4929.1	5275.1	5263.1	5227.1	5270.1	5298.1	5345.1	5316.1	5324.1	5300.1
52.5°	4970.1	4966.1	4967.1	5051.1	5022.1	4986.1	4989.1	5029.1	5039.1	4965.1
55°	4667.1	4711.1	4686.1	4678.1	4655.1	4596.1	4534.1	4561.1	4639.1	4656.1
57.5°	4361.1	4297.1	4314.1	4226.1	4312.1	4403.1	4266.1	4207.1	4175.1	4193.1
60°	3966.1	3878.1	4017.1	3885.1	3860.1	3896.1	4004.1	4065.1	3934.1	3898.1
62.5°	3509.1	3615.1	3540.1	3584.1	3467.1	3295.1	3060.1	3060.1	3113.1	3130.1
65°	3158.1	3148.1	2812.0	2714.0	2772.0	2826.0	2812.0	2612.0	2571.0	2530.0
67.5°	2643.0	2312.0	2435.0	2292.0	2257.0	2231.0	2275.0	2371.0	2485.0	2494.0
70°	2014.0	2069.0	1942.0	2160.0	2321.0	2483.0	2555.0	2540.0	2477.0	2421.0
72.5°	1662.0	1805.0	2197.0	2137.0	2085.0	2095.0	2052.0	2029.0	1996.0	1976.0
75°	1716.0	1751.0	1721.0	1693.0	1702.0	1685.0	1620.0	1537.0	1465.0	1439.0
77.5°	1334.0	1394.0	1300.0	1165.0	1159.0	1201.0	1232.0	1281.0	1303.0	1279.0
80°	941.0	884.0	1003.0	1096.0	1128.0	1166.0	1109.0	1087.0	1087.0	1099.0
82.5°	803.0	908.0	870.0	816.0	817.0	829.0	829.0	855.0	902.0	874.0
85°	608.0	676.0	811.0	820.0	803.0	821.0	847.0	846.0	829.0	819.0
87.5°	592.0	591.0	576.0	506.0	500.0	517.0	517.0	508.0	506.0	500.0
90°	341.0	340.0	339.0	355.0	366.0	354.0	345.0	339.0	341.0	344.0
92.5°	198.0	201.0	201.0	206.0	199.0	190.0	185.0	178.0	175.0	168.0
95°	98.0	100.0	102.0	100.0	101.0	101.0	100.0	101.0	99.0	100.0
97.5°	73.0	74.0	75.0	77.0	79.0	79.0	81.0	81.0	81.0	82.0
100°	68.0	68.0	68.0	68.0	69.0	69.0	70.0	70.0	71.0	71.0
102.5°	70.0	69.0	68.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
105°	70.0	69.0	69.0	68.0	68.0	67.0	66.0	65.0	65.0	64.0
107.5°	67.0	69.0	70.0	70.0	70.0	69.0	68.0	67.0	66.0	67.0
110°	60.0	60.0	62.0	62.0	63.0	64.0	65.0	65.0	65.0	65.0



TEST NUMBER: P236620

CATALOG NUMBER: VRVT4LED-LD5-24-DR-UNV-L840-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	56.0	54.0	54.0	55.0	56.0	56.0	57.0	57.0	57.0	57.0
115°	49.0	47.0	47.0	47.0	48.0	49.0	49.0	50.0	50.0	50.0
117.5°	45.0	42.0	41.0	41.0	41.0	41.0	42.0	42.0	42.0	43.0
120°	61.0	50.0	41.0	37.0	36.0	36.0	36.0	36.0	36.0	36.0
122.5°	58.0	65.0	65.0	54.0	53.0	48.0	44.0	41.0	37.0	37.0
125°	51.0	53.0	54.0	60.0	65.0	66.0	71.0	67.0	64.0	62.0
127.5°	66.0	74.0	51.0	50.0	50.0	51.0	53.0	53.0	55.0	59.0
130°	33.0	53.0	65.0	66.0	71.0	79.0	58.0	48.0	47.0	48.0
132.5°	27.0	25.0	31.0	48.0	55.0	58.0	63.0	67.0	64.0	65.0
135°	45.0	36.0	27.0	24.0	24.0	24.0	29.0	32.0	38.0	43.0
137.5°	26.0	42.0	49.0	41.0	38.0	33.0	28.0	24.0	23.0	23.0
140°	11.0	17.0	27.0	41.0	46.0	48.0	51.0	48.0	46.0	42.0
142.5°	8.0	10.0	11.0	14.0	17.0	20.0	24.0	33.0	36.0	37.0
145°	6.0	8.0	8.0	9.0	9.0	10.0	10.0	10.0	10.0	10.0
147.5°	5.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
150°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
152.5°	5.0	5.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	2.0
155°	5.0	5.0	5.0	4.0	4.0	4.0	3.0	2.0	2.0	2.0
157.5°	5.0	5.0	5.0	4.0	4.0	4.0	3.0	2.0	2.0	2.0
160°	6.0	6.0	5.0	4.0	4.0	4.0	3.0	2.0	2.0	2.0
162.5°	6.0	6.0	5.0	5.0	4.0	4.0	3.0	3.0	2.0	2.0
165°	6.0	6.0	6.0	5.0	5.0	4.0	4.0	3.0	3.0	2.0
167.5°	7.0	6.0	6.0	5.0	5.0	5.0	4.0	3.0	3.0	3.0
170°	7.0	7.0	6.0	6.0	5.0	5.0	4.0	4.0	3.0	3.0
172.5°	7.0	7.0	6.0	6.0	5.0	5.0	5.0	4.0	4.0	4.0
175°	7.0	7.0	6.0	6.0	6.0	6.0	5.0	4.0	4.0	4.0
177.5°	7.0	7.0	6.0	6.0	6.0	6.0	5.0	4.0	4.0	4.0
180°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

(END OF REPORT)