

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : LVTS-34-MVD-830-40-50 IES FILE.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]P131691  
 [TESTLAB]Globalux Lighting  
 [ISSUEDATE]  
 [TESTDATE]  
 [MANUFAC]GGlobalux Lighting  
 [LUMCAT]LVTS-34  
 [LUMINAIRE]4' INDUSTRIAL VAPOR LIGHT WITH FROST LENS.  
 [MORE]TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33626)  
 [\_ MOUNTING]HORIZONTAL  
 [\_ ABSOLUTE\_TEST]ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED  
 [MORE]USING A 500 WATT, NIST TRACEABLE, OMNIDIRECTIONAL LAB LUMEN  
 [MORE]STANDARD IN THE GONIOPHOTOMETER WITH TEST DISTANCE OF 24 FEET  
 [\_ ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
 [\_ ABSOLUTELUMENS]3400

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4701
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	38.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.17 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6720	5995	5997
55	5922	5302	5496
65	5173	4664	4853
75	4439	3833	3830
85	3439	2884	2723

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0.0</b>	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9
<b>2.5</b>	1573.6	1568.2	1562.8	1563.9	1566.0	1568.2	1567.1	1564.9	1559.5	1555.2
<b>5.0</b>	1567.1	1561.7	1556.3	1558.4	1560.6	1561.7	1560.6	1559.5	1555.2	1550.9
<b>7.5</b>	1557.4	1551.9	1546.5	1548.7	1550.9	1553.0	1551.9	1550.9	1546.5	1542.2
<b>10.0</b>	1541.1	1536.8	1532.4	1534.6	1537.9	1540.0	1540.0	1538.9	1533.5	1530.3
<b>12.5</b>	1522.7	1517.3	1515.1	1516.2	1518.4	1522.7	1521.6	1520.5	1518.4	1515.1
<b>15.0</b>	1500.0	1494.5	1492.4	1493.5	1496.7	1501.0	1501.0	1500.0	1495.6	1496.7
<b>17.5</b>	1472.9	1468.5	1464.2	1467.5	1471.8	1472.9	1476.1	1475.0	1471.8	1471.8
<b>20.0</b>	1439.3	1435.0	1431.7	1436.1	1439.3	1444.7	1445.8	1445.8	1442.6	1445.8
<b>22.5</b>	1404.7	1399.2	1397.1	1400.3	1405.7	1409.0	1413.3	1414.4	1411.1	1414.4
<b>25.0</b>	1362.4	1359.2	1357.0	1362.4	1365.7	1372.2	1375.4	1377.6	1373.2	1379.7
<b>27.5</b>	1318.0	1314.8	1313.7	1319.1	1324.5	1331.0	1335.3	1337.5	1335.3	1340.8
<b>30.0</b>	1268.2	1266.0	1266.0	1270.4	1276.9	1283.4	1290.9	1294.2	1292.0	1298.5
<b>32.5</b>	1219.5	1215.1	1214.0	1221.6	1228.1	1235.7	1243.3	1245.4	1247.6	1253.0
<b>35.0</b>	1163.1	1158.8	1158.8	1167.5	1175.1	1183.7	1191.3	1193.5	1197.8	1204.3
<b>37.5</b>	1105.7	1102.5	1104.7	1111.2	1118.7	1129.6	1137.1	1141.5	1145.8	1154.5
<b>40.0</b>	1044.0	1041.8	1042.9	1051.6	1061.3	1072.2	1079.8	1086.2	1094.9	1102.5
<b>42.5</b>	983.4	980.1	982.3	992.0	1001.8	1012.6	1024.5	1028.8	1038.6	1051.6
<b>45.0</b>	920.6	918.4	921.6	930.3	943.3	952.0	963.9	971.5	983.4	997.4
<b>47.5</b>	855.6	854.5	859.9	867.5	879.4	892.4	904.3	916.2	929.2	942.2
<b>50.0</b>	790.6	791.7	797.1	806.8	820.9	833.9	846.9	858.8	869.6	887.0
<b>52.5</b>	727.8	729.9	735.4	746.2	760.3	774.3	787.3	801.4	815.5	832.8
<b>55.0</b>	669.3	670.4	676.9	685.5	699.6	715.9	729.9	747.3	762.4	779.8
<b>57.5</b>	608.6	610.8	617.3	629.2	642.2	656.3	673.6	691.0	710.4	726.7
<b>60.0</b>	553.4	554.5	561.0	572.9	585.9	601.1	619.5	636.8	657.4	675.8
<b>62.5</b>	497.1	499.3	507.9	516.6	529.6	546.9	564.2	585.9	605.4	626.0
<b>65.0</b>	442.9	445.1	453.8	462.4	476.5	493.8	514.4	533.9	555.6	575.1
<b>67.5</b>	391.0	393.1	400.7	410.5	424.5	444.0	463.5	484.1	503.6	523.1
<b>70.0</b>	340.1	341.1	349.8	360.6	374.7	394.2	413.7	433.2	452.7	472.2
<b>72.5</b>	291.3	293.5	302.2	311.9	326.0	345.5	365.0	385.5	400.7	419.1
<b>75.0</b>	246.9	248.0	254.5	265.3	280.5	298.9	317.3	336.8	352.0	367.1
<b>77.5</b>	201.4	202.5	210.1	220.9	237.2	254.5	270.8	289.2	304.3	318.4
<b>80.0</b>	158.1	159.2	166.8	179.8	194.9	213.4	228.5	244.8	258.8	271.8
<b>82.5</b>	119.1	121.3	128.9	140.8	156.0	172.2	188.4	202.5	216.6	227.4
<b>85.0</b>	82.3	85.6	93.1	105.1	120.2	136.5	151.6	164.6	177.6	188.4
<b>87.5</b>	50.9	54.2	63.9	75.8	91.0	105.1	119.1	133.2	145.1	153.8
<b>90.0</b>	24.9	31.4	41.2	52.0	66.1	80.1	93.1	106.1	117.0	125.6
<b>92.5</b>	21.7	23.8	29.2	36.8	47.7	58.5	71.5	82.3	92.1	100.7
<b>95.0</b>	20.6	20.6	23.8	28.2	35.7	44.4	54.2	65.0	73.6	81.2
<b>97.5</b>	18.4	18.4	20.6	23.8	29.2	35.7	43.3	52.0	59.6	66.1
<b>100.0</b>	17.3	17.3	18.4	20.6	24.9	30.3	35.7	43.3	48.7	55.2
<b>102.5</b>	16.2	15.2	16.2	18.4	21.7	26.0	30.3	35.7	41.2	46.6
<b>105.0</b>	15.2	14.1	14.1	15.2	18.4	22.7	27.1	31.4	36.8	41.2
<b>107.5</b>	13.0	13.0	11.9	13.0	16.2	19.5	22.7	27.1	32.5	35.7
<b>110.0</b>	11.9	10.8	9.7	10.8	13.0	16.2	20.6	23.8	28.2	32.5
<b>112.5</b>	9.7	9.7	8.7	8.7	10.8	14.1	17.3	20.6	24.9	28.2
<b>115.0</b>	8.7	8.7	7.6	7.6	8.7	10.8	15.2	18.4	21.7	24.9
<b>117.5</b>	7.6	7.6	6.5	6.5	6.5	9.7	11.9	16.2	19.5	21.7
<b>120.0</b>	6.5	6.5	5.4	5.4	5.4	7.6	9.7	13.0	16.2	19.5
<b>122.5</b>	5.4	5.4	5.4	4.3	4.3	5.4	8.7	10.8	14.1	17.3
<b>125.0</b>	4.3	4.3	4.3	3.2	3.2	4.3	6.5	8.7	10.8	14.1
<b>127.5</b>	3.2	3.2	3.2	3.2	3.2	2.2	4.3	6.5	9.7	11.9
<b>130.0</b>	3.2	3.2	3.2	2.2	2.2	2.2	3.2	5.4	7.6	9.7
<b>132.5</b>	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	5.4	7.6

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**CANDELA TABULATION - (Cont.)**

135.0	2.2	2.2	2.2	2.2	1.1	1.1	1.1	2.2	3.2	5.4
137.5	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	2.2	3.2
140.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
142.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
145.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
147.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
150.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
152.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
155.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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	0.0
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	0.0
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	0.0
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	0.0
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	0.0

**Vert. Angles**      **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9	1563.9
2.5	1556.3	1560.6	1562.8	1564.9	1564.9	1564.9	1566.0	1563.9	1562.8
5.0	1551.9	1556.3	1559.5	1561.7	1560.6	1561.7	1562.8	1561.7	1558.4
7.5	1544.4	1548.7	1551.9	1554.1	1554.1	1554.1	1555.2	1553.0	1550.9
10.0	1532.4	1537.9	1541.1	1543.3	1542.2	1544.4	1545.4	1543.3	1541.1
12.5	1518.4	1523.8	1527.0	1529.2	1529.2	1530.3	1531.4	1528.1	1525.9
15.0	1498.9	1505.4	1507.5	1510.8	1510.8	1511.9	1513.0	1511.9	1508.6
17.5	1477.2	1483.7	1487.0	1489.1	1490.2	1490.2	1491.3	1489.1	1487.0
20.0	1450.1	1456.6	1459.9	1463.1	1463.1	1465.3	1465.3	1463.1	1462.0
22.5	1419.8	1426.3	1429.6	1431.7	1432.8	1435.0	1435.0	1433.9	1433.9
25.0	1385.2	1391.7	1394.9	1398.2	1399.2	1402.5	1402.5	1401.4	1399.2
27.5	1347.3	1352.7	1357.0	1360.2	1362.4	1364.6	1365.7	1364.6	1363.5
30.0	1307.2	1312.6	1316.9	1320.2	1322.3	1326.7	1326.7	1325.6	1325.6
32.5	1262.8	1268.2	1273.6	1279.0	1279.0	1285.5	1284.4	1283.4	1283.4
35.0	1215.1	1221.6	1229.2	1232.5	1234.6	1239.0	1239.0	1239.0	1237.9
37.5	1165.3	1172.9	1180.5	1185.9	1189.1	1193.5	1195.6	1194.5	1192.4
40.0	1113.3	1123.1	1131.7	1138.2	1140.4	1145.8	1148.0	1146.9	1146.9
42.5	1063.5	1072.2	1081.9	1087.3	1093.8	1097.1	1100.3	1101.4	1099.2
45.0	1009.4	1018.0	1028.8	1035.3	1044.0	1049.4	1052.7	1052.7	1051.6
47.5	956.3	967.1	979.0	986.6	994.2	1003.9	1005.0	1007.2	1005.0
50.0	902.1	916.2	928.1	936.8	946.5	954.1	957.4	960.6	958.5
52.5	850.2	865.3	879.4	888.1	898.9	906.5	909.7	913.0	911.9
55.0	797.1	813.3	827.4	839.3	851.2	856.7	861.0	864.2	865.3
57.5	746.2	762.4	776.5	789.5	800.3	807.9	813.3	815.5	815.5
60.0	695.3	711.5	726.7	738.6	749.4	755.9	761.3	763.5	763.5
62.5	643.3	660.6	674.7	688.8	696.4	703.9	707.2	710.4	710.4
65.0	590.2	607.6	621.6	632.5	641.1	646.6	649.8	653.0	654.1
67.5	538.3	555.6	567.5	578.3	587.7	588.1	591.3	593.5	594.6
70.0	485.2	499.3	510.1	519.8	523.1	527.4	531.8	532.8	533.9
72.5	432.1	446.2	454.9	462.4	465.7	468.9	470.0	475.4	472.2
75.0	381.2	389.9	399.6	404.0	409.4	410.5	411.5	414.8	413.7
77.5	329.2	339.0	346.6	350.9	353.1	357.4	356.3	357.4	357.4
80.0	280.5	289.2	293.5	300.0	301.1	304.3	304.3	305.4	304.3

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	237.2	243.7	250.2	253.4	253.4	255.6	256.7	256.7	255.6
<b>85.0</b>	196.0	203.6	207.9	210.1	212.3	212.3	214.4	213.4	212.3
<b>87.5</b>	161.4	168.9	172.2	173.3	176.5	177.6	177.6	178.7	176.5
<b>90.0</b>	132.1	137.5	143.0	144.0	146.2	147.3	147.3	147.3	147.3
<b>92.5</b>	108.3	112.6	117.0	119.1	121.3	122.4	122.4	123.5	122.4
<b>95.0</b>	87.7	92.1	96.4	98.6	100.7	100.7	101.8	102.9	101.8
<b>97.5</b>	72.6	76.9	81.2	82.3	84.5	85.6	86.6	86.6	86.6
<b>100.0</b>	60.6	63.9	68.2	70.4	72.6	73.6	73.6	73.6	74.7
<b>102.5</b>	50.9	55.2	58.5	60.6	62.8	63.9	65.0	65.0	65.0
<b>105.0</b>	44.4	48.7	50.9	54.2	55.2	56.3	57.4	57.4	57.4
<b>107.5</b>	39.0	43.3	45.5	47.7	49.8	50.9	50.9	52.0	52.0
<b>110.0</b>	35.7	39.0	41.2	43.3	44.4	45.5	46.6	46.6	47.7
<b>112.5</b>	31.4	34.7	36.8	40.1	41.2	42.2	43.3	43.3	43.3
<b>115.0</b>	28.2	31.4	33.6	35.7	37.9	39.0	40.1	40.1	40.1
<b>117.5</b>	24.9	28.2	30.3	32.5	34.7	35.7	36.8	36.8	36.8
<b>120.0</b>	22.7	24.9	27.1	29.2	31.4	32.5	33.6	33.6	33.6
<b>122.5</b>	19.5	22.7	24.9	26.0	28.2	29.2	30.3	30.3	31.4
<b>125.0</b>	17.3	19.5	21.7	23.8	24.9	26.0	27.1	27.1	28.2
<b>127.5</b>	14.1	16.2	18.4	20.6	22.7	23.8	23.8	24.9	24.9
<b>130.0</b>	11.9	14.1	16.2	18.4	19.5	20.6	21.7	21.7	21.7
<b>132.5</b>	9.7	11.9	13.0	15.2	16.2	17.3	18.4	18.4	19.5
<b>135.0</b>	7.6	8.7	10.8	11.9	13.0	14.1	14.1	15.2	15.2
<b>137.5</b>	5.4	7.6	8.7	9.7	10.8	11.9	11.9	11.9	13.0
<b>140.0</b>	3.2	5.4	6.5	7.6	8.7	9.7	9.7	10.8	10.8
<b>142.5</b>	2.2	3.2	4.3	5.4	6.5	6.5	7.6	7.6	7.6
<b>145.0</b>	1.1	1.1	2.2	3.2	4.3	4.3	5.4	5.4	5.4
<b>147.5</b>	0.0	0.0	1.1	1.1	2.2	2.2	3.2	3.2	3.2
<b>150.0</b>	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
<b>152.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>155.0</b>	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>157.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>160.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>162.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>165.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>167.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>170.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>172.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>175.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>177.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>180.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LVTS-34-MVD-830-40-50 IES FILE.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	571.98	N.A.	12.20
0-30	1208.45	N.A.	25.70
0-40	1961.85	N.A.	41.70
0-60	3421.36	N.A.	72.80
0-80	4346.43	N.A.	92.50
0-90	4535.13	N.A.	96.50
10-90	4386.97	N.A.	93.30
20-40	1389.87	N.A.	29.60
20-50	2155.95	N.A.	45.90
40-70	2015.12	N.A.	42.90
60-80	925.07	N.A.	19.70
70-80	369.47	N.A.	7.90
80-90	188.70	N.A.	4.00
90-110	121.37	N.A.	2.60
90-120	145.50	N.A.	3.10
90-130	158.83	N.A.	3.40
90-150	166.04	N.A.	3.50
90-180	166.24	N.A.	3.50
110-180	44.87	N.A.	1.00
0-180	4701.37	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	148.17
10-20	423.81
20-30	636.47
30-40	753.40
40-50	766.08
50-60	693.43
60-70	555.61
70-80	369.47
80-90	188.70
90-100	80.50
100-110	40.87
110-120	24.13
120-130	13.33
130-140	5.69
140-150	1.52
150-160	0.20
160-170	0.00
170-180	0.00

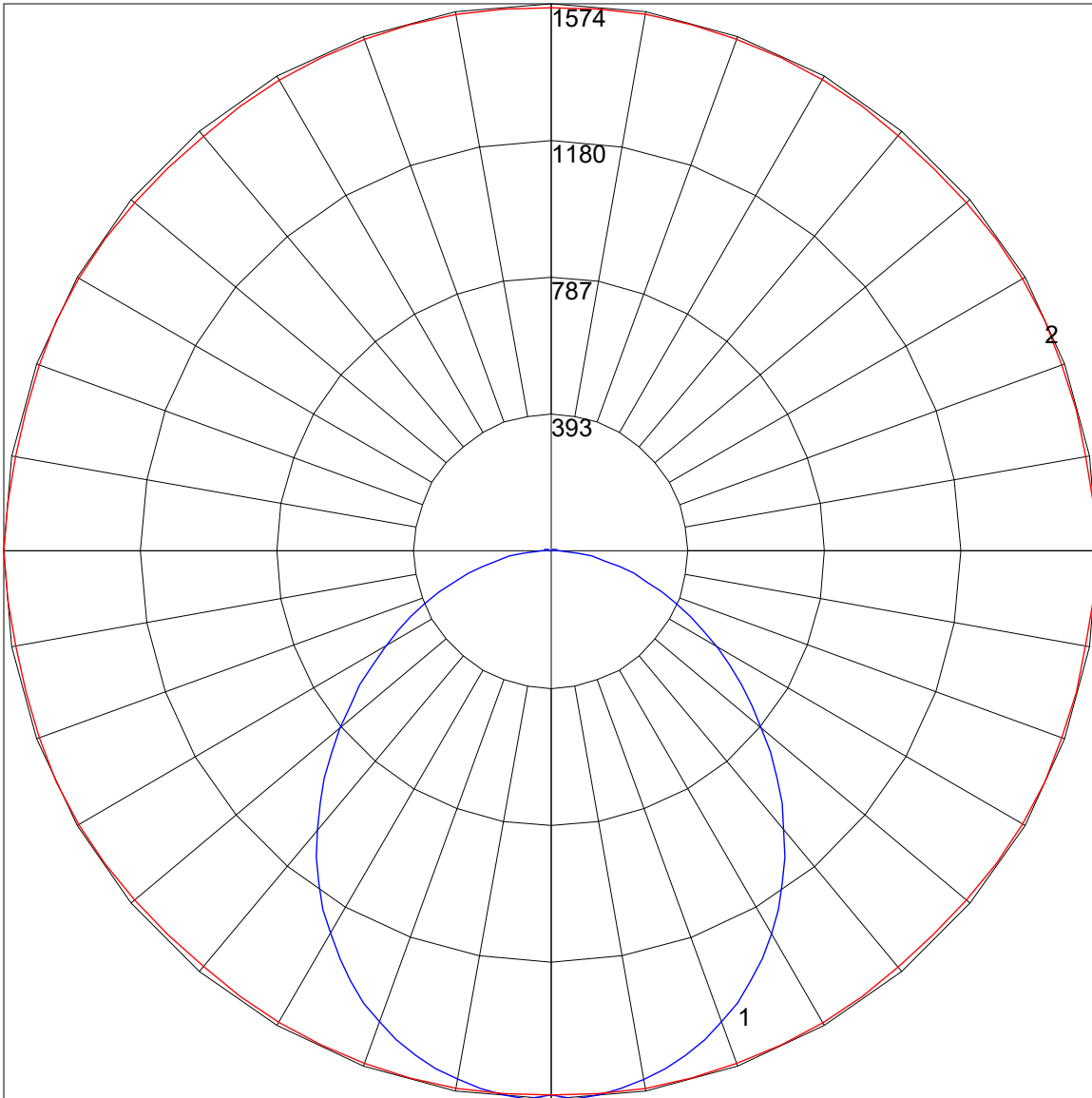
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LVTS-34-MVD-830-40-50 IES FILE.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	97	93	104	99	95	91	94	91	87	90	87	84	85	83	81	79
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	74	71	67	65
3	88	77	69	62	85	75	68	61	72	65	60	69	63	58	66	61	57	54
4	81	68	59	53	78	67	58	52	64	57	51	61	55	50	58	53	49	46
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	40
6	69	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	64	50	41	35	62	49	40	35	47	39	34	45	39	34	44	38	33	31
8	59	46	37	31	57	45	36	31	43	36	30	42	35	30	40	34	30	28
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	35	29	25	34	29	24	23

POLAR GRAPH



Maximum Candela = 1573.6 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)