

### IES INDOOR REPORT

PHOTOMETRIC FILENAME : LVTS-45-MVD-830-40-50 IES FILE.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]LVTS45MVD830  
 [TESTLAB]QUANTUM ONTARIO LAB  
 [ISSUEDATE]  
 [LUMCAT]LVTS45MVD830  
 [LUMINAIRE]LVTS Series, 45W  
 [LAMP](112) (2) Quantum QT5040 Modules 3000K  
 [OTHER]INPUT WATTS: 47, AMPS: .4724, VAC: 119.98, THDi: 11.6%,  
 [ MOUNTING]HORIZONTAL  
 [ ABSOLUTE\_TEST]ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED  
 [MORE]STANDARD IN THE GONIOPHOTOMETER WITH TEST DISTANCE OF 24 FEET  
 [ ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
 [ ABSOLUTELUMENS]5882  
 [MANUFAC] GlobalLux Lighting LLC  
 [ SEARCH\_CRI] 85  
 [ SEARCH\_COLORTEMP] 3000K  
 [ SEARCH\_APPLICATION] Commercial, Industrial,Wet Location  
 [ SEARCH\_MOUNTING] Ceiling, Surface, Wire

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5882
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	56.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
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



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8913	7639	8201
55	7990	7989	7291
65	7008	6635	5720
75	5969	4156	3944
85	3928	2097	1629

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0.0</b>	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
<b>2.5</b>	2018	2007	1998	2002	2003	2006	2002	1998	1993	1985
<b>5.0</b>	2007	1997	1990	1997	2000	2003	1998	1993	1987	1979
<b>7.5</b>	1997	1985	1979	1983	1982	1983	1980	1978	1974	1968
<b>10.0</b>	1981	1969	1961	1964	1963	1963	1960	1960	1957	1951
<b>12.5</b>	1960	1948	1937	1938	1939	1946	1944	1939	1933	1928
<b>15.0</b>	1930	1920	1911	1912	1914	1917	1912	1906	1903	1900
<b>17.5</b>	1898	1881	1876	1878	1880	1884	1878	1870	1867	1865
<b>20.0</b>	1857	1842	1833	1840	1843	1843	1844	1835	1829	1836
<b>22.5</b>	1810	1800	1792	1797	1796	1795	1798	1790	1788	1791
<b>25.0</b>	1764	1748	1739	1747	1745	1744	1750	1748	1740	1748
<b>27.5</b>	1707	1692	1685	1694	1694	1691	1702	1695	1693	1700
<b>30.0</b>	1645	1633	1628	1632	1632	1637	1640	1645	1641	1646
<b>32.5</b>	1585	1569	1565	1566	1567	1578	1584	1587	1577	1585
<b>35.0</b>	1511	1499	1497	1502	1504	1511	1524	1518	1520	1522
<b>37.5</b>	1443	1432	1428	1429	1439	1447	1456	1448	1452	1458
<b>40.0</b>	1375	1359	1358	1357	1366	1379	1384	1383	1384	1393
<b>42.5</b>	1299	1284	1282	1284	1297	1304	1310	1310	1319	1329
<b>45.0</b>	1221	1208	1206	1214	1224	1231	1239	1242	1254	1271
<b>47.5</b>	1145	1132	1130	1140	1149	1158	1165	1179	1198	1228
<b>50.0</b>	1062	1051	1052	1062	1073	1086	1100	1123	1156	1207
<b>52.5</b>	984	975	975	990	1000	1019	1045	1080	1130	1194
<b>55.0</b>	903	899	902	917	936	961	998	1047	1115	1175
<b>57.5</b>	827	823	830	848	872	907	956	1025	1094	1128
<b>60.0</b>	749	750	760	783	814	860	923	999	1045	1048
<b>62.5</b>	673	676	692	720	758	816	895	952	960	943
<b>65.0</b>	600	606	627	658	705	776	846	868	854	818
<b>67.5</b>	532	539	563	601	655	730	774	760	732	703
<b>70.0</b>	461	472	500	542	605	661	672	645	620	591
<b>72.5</b>	396	407	438	483	545	567	561	535	511	485
<b>75.0</b>	332	342	375	422	463	467	456	433	412	398
<b>77.5</b>	268	282	310	352	372	371	362	344	330	319
<b>80.0</b>	206	219	246	273	285	282	276	266	253	249
<b>82.5</b>	146	159	180	198	206	209	203	198	191	189
<b>85.0</b>	94	104	120	134	142	146	143	142	138	137
<b>87.5</b>	53	60	73	86	95	100	101	101	100	99
<b>90.0</b>	34	39	49	59	67	72	75	76	76	75
<b>92.5</b>	34	35	41	48	55	59	62	63	63	61
<b>95.0</b>	35	35	38	42	47	52	54	55	55	53
<b>97.5</b>	34	34	36	39	43	47	50	51	50	48
<b>100.0</b>	34	33	35	37	41	44	46	47	47	46
<b>102.5</b>	32	31	32	35	39	42	45	46	46	44
<b>105.0</b>	29	28	29	32	37	41	43	44	44	43
<b>107.5</b>	0	0	0	0	0	0	0	0	0	0
<b>110.0</b>	0	0	0	0	0	0	0	0	0	0
<b>112.5</b>	0	0	0	0	0	0	0	0	0	0
<b>115.0</b>	0	0	0	0	0	0	0	0	0	0
<b>117.5</b>	0	0	0	0	0	0	0	0	0	0
<b>120.0</b>	0	0	0	0	0	0	0	0	0	0
<b>122.5</b>	0	0	0	0	0	0	0	0	0	0
<b>125.0</b>	0	0	0	0	0	0	0	0	0	0
<b>127.5</b>	0	0	0	0	0	0	0	0	0	0
<b>130.0</b>	0	0	0	0	0	0	0	0	0	0
<b>132.5</b>	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

**Vert. 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	2000	2000	2000	2000	2000	2000	2000	2000	2000
2.5	1985	1992	1995	1999	1998	2000	2001	1998	1995
5.0	1978	1984	1987	1990	1989	1988	1988	1984	1980
7.5	1969	1975	1979	1980	1979	1979	1980	1975	1971
10.0	1948	1951	1955	1957	1954	1956	1961	1958	1956
12.5	1929	1933	1930	1933	1934	1933	1935	1931	1927
15.0	1901	1904	1906	1910	1912	1912	1910	1906	1903
17.5	1867	1873	1876	1880	1880	1884	1880	1878	1878
20.0	1835	1841	1844	1852	1849	1850	1853	1850	1844
22.5	1795	1806	1810	1812	1810	1812	1812	1811	1805
25.0	1758	1763	1763	1767	1766	1764	1767	1765	1765
27.5	1702	1707	1713	1716	1714	1719	1717	1714	1713
30.0	1652	1658	1660	1662	1662	1663	1662	1661	1660
32.5	1594	1599	1601	1602	1601	1608	1601	1600	1599
35.0	1532	1539	1539	1539	1538	1539	1538	1537	1534
37.5	1468	1472	1475	1477	1479	1485	1487	1482	1488
40.0	1403	1407	1417	1425	1438	1452	1459	1467	1468
42.5	1342	1357	1378	1404	1428	1448	1456	1461	1456
45.0	1296	1330	1366	1397	1414	1431	1433	1442	1438
47.5	1275	1323	1355	1378	1396	1406	1410	1408	1410
50.0	1263	1304	1334	1346	1353	1352	1346	1347	1343
52.5	1242	1276	1285	1284	1283	1282	1277	1274	1275
55.0	1205	1210	1210	1205	1196	1179	1171	1160	1148
57.5	1133	1128	1110	1089	1066	1049	1043	1040	1032
60.0	1037	1009	982	963	951	941	941	941	933
62.5	910	883	860	848	847	846	849	851	852
65.0	791	765	750	748	755	760	769	768	771
67.5	677	654	656	658	669	675	683	685	688
70.0	568	559	567	577	589	592	599	602	600
72.5	474	478	487	499	502	506	511	515	510
75.0	394	400	409	418	421	423	425	426	426
77.5	319	326	331	337	341	341	341	341	341
80.0	251	255	258	259	262	259	261	260	255

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**CANDELA TABULATION - (Cont.)**

82.5	189	190	192	192	190	187	184	187	186
85.0	134	134	134	133	131	129	127	127	127
87.5	99	97	96	95	94	93	89	89	87
90.0	74	73	72	70	69	67	65	64	63
92.5	60	58	56	55	53	51	49	48	48
95.0	51	49	47	45	43	41	40	39	39
97.5	46	44	42	40	38	36	35	34	34
100.0	44	42	39	37	36	34	33	32	32
102.5	42	40	38	36	35	33	32	32	31
105.0	42	40	38	36	34	33	32	31	31
107.5	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	727.59	N.A.	12.40
0-30	1535.51	N.A.	26.10
0-40	2489.9	N.A.	42.30
0-60	4463.31	N.A.	75.90
0-80	5647.85	N.A.	96.00
0-90	5804.12	N.A.	98.70
10-90	5615.1	N.A.	95.50
20-40	1762.31	N.A.	30.00
20-50	2772.57	N.A.	47.10
40-70	2718.23	N.A.	46.20
60-80	1184.54	N.A.	20.10
70-80	439.71	N.A.	7.50
80-90	156.28	N.A.	2.70
90-110	77.75	N.A.	1.30
90-120	77.75	N.A.	1.30
90-130	77.75	N.A.	1.30
90-150	77.75	N.A.	1.30
90-180	77.75	N.A.	1.30
110-180	0.00	N.A.	0.00
0-180	5881.86	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	189.03
10-20	538.57
20-30	807.92
30-40	954.39
40-50	1010.26
50-60	963.15
60-70	744.83
70-80	439.71
80-90	156.28
90-100	52.71
100-110	25.04
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

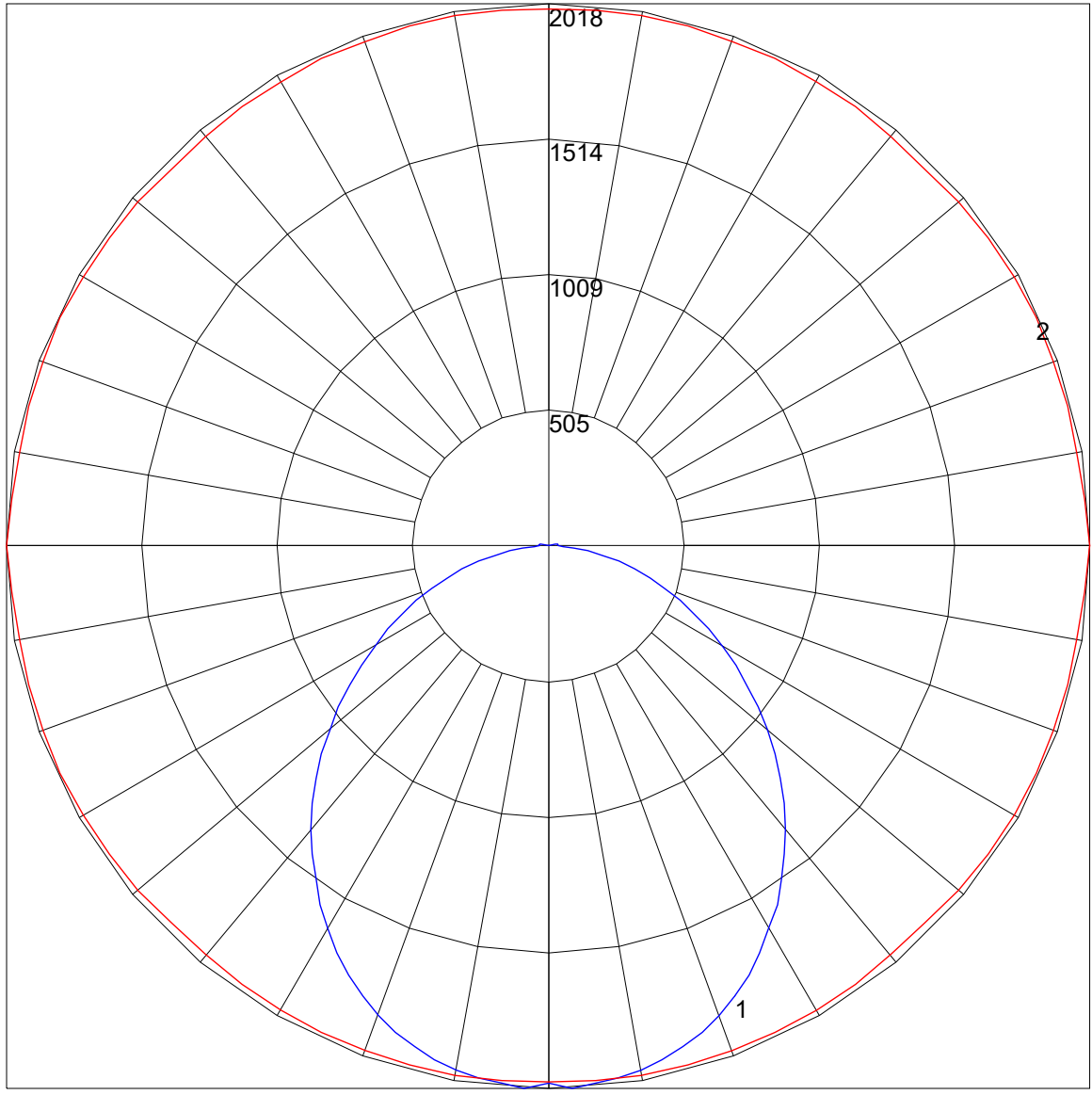
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	88	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	75	71	77	73	70	67
3	89	78	70	63	86	76	69	62	73	67	61	70	65	60	68	63	59	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	52	46	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	40	67	54	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	38	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 2018 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.)