



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-FL-VHO-35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L450 VHO NW\_Scaled  
[TESTLAB] Dekko  
[ISSUE DATE] 6/29/2017  
[TEST DATE] 04-3-2017  
[LUMCAT] CURV-4-LED-FL-VHO-35  
[MANUFAC] LSI INDUSTRIES, INC  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[\_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[\_SEARCH\_SOURCETYPE] LED  
[\_SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9149
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	72
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.75 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2756	2127	1412
55	2936	2337	1499
65	2867	2408	1553
75	2745	2446	1624
85	3828	3635	2717

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**CANDELA TABULATION**

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
<b>0</b>	302.847	302.847	302.847	302.847	302.847	302.847	302.847	302.847	302.847	302.847
<b>10</b>	330.767	332.264	329.640	325.182	319.959	314.091	309.265	305.807	302.860	303.248
<b>20</b>	404.117	403.114	393.771	378.669	361.581	343.704	327.650	315.709	306.642	305.925
<b>30</b>	503.282	496.013	477.059	449.723	416.992	380.191	349.343	325.013	309.044	304.587
<b>40</b>	559.019	555.152	533.755	493.414	451.635	405.781	359.662	324.396	300.756	293.052
<b>50</b>	528.359	525.933	507.149	476.086	432.989	387.989	339.474	301.188	274.227	264.128
<b>60</b>	411.192	411.694	403.388	384.977	354.062	320.974	282.417	249.620	225.394	215.509
<b>70</b>	264.877	267.215	264.050	255.928	239.976	220.782	198.914	176.615	159.144	150.799
<b>80</b>	131.471	134.348	134.199	131.776	126.770	118.996	110.501	100.093	89.353	83.709
<b>90</b>	54.691	54.876	54.565	54.631	54.205	53.588	52.890	51.797	50.255	48.394
<b>100</b>	528.911	510.724	510.285	497.188	454.365	395.542	335.403	273.606	208.674	174.742
<b>110</b>	1648.963	1621.190	1569.025	1470.006	1353.684	1197.571	1016.727	791.191	554.154	434.963
<b>120</b>	2063.954	2030.201	1967.611	1871.152	1722.927	1545.344	1312.110	1051.697	811.743	695.814
<b>130</b>	2172.902	2144.521	2074.132	1966.428	1824.135	1637.265	1419.517	1204.399	990.038	914.426
<b>140</b>	2075.173	2049.457	1988.876	1893.779	1769.435	1638.252	1475.232	1290.248	1127.154	1080.209
<b>150</b>	1903.123	1883.760	1851.022	1805.461	1701.001	1580.750	1460.043	1312.339	1231.119	1200.749
<b>160</b>	1702.244	1687.231	1660.407	1618.225	1562.126	1486.285	1404.313	1347.727	1314.121	1289.325
<b>170</b>	1467.743	1462.834	1451.614	1433.956	1419.016	1401.802	1388.565	1369.923	1356.205	1352.297
<b>180</b>	1377.318	1377.318	1377.318	1377.318	1377.318	1377.318	1377.318	1377.318	1377.318	1377.318

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	124.75	N.A.	1.40
0-30	299.43	N.A.	3.30
0-40	559.71	N.A.	6.10
0-60	1210.37	N.A.	13.20
0-80	1661.49	N.A.	18.20
0-90	1754.36	N.A.	19.20
10-90	1724.75	N.A.	18.90
20-40	434.96	N.A.	4.80
20-50	757.30	N.A.	8.30
40-70	922.87	N.A.	10.10
60-80	451.13	N.A.	4.90
70-80	178.91	N.A.	2.00
80-90	92.86	N.A.	1.00
90-110	1075.25	N.A.	11.80
90-120	2415.73	N.A.	26.40
90-130	3836.07	N.A.	41.90
90-150	6128.86	N.A.	67.00
90-180	7394.44	N.A.	80.80
110-180	6319.2	N.A.	69.10
0-180	9148.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	29.60
10-20	95.15
20-30	174.68
30-40	260.28
40-50	322.34
50-60	328.32
60-70	272.22
70-80	178.91
80-90	92.86
90-100	243.43
100-110	831.82
110-120	1340.48
120-130	1420.34
130-140	1274.14
140-150	1018.64
150-160	718.82
160-170	413.71
170-180	133.05

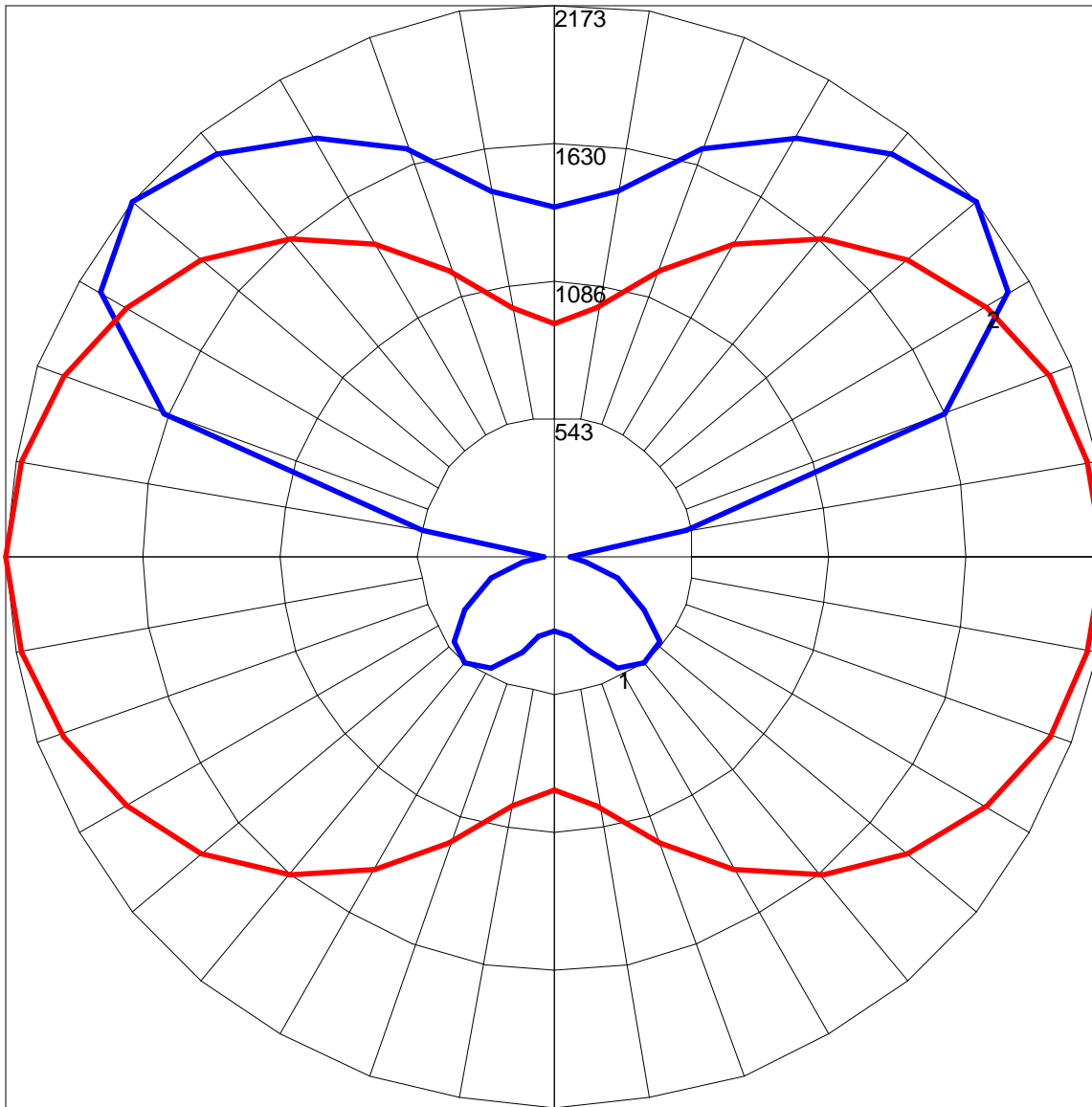
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	90	86	82	79	79	76	73	70	57	55	53	40	38	37	24	23	22	15
2	82	75	69	63	72	66	61	57	49	46	43	34	32	30	20	19	18	12
3	74	65	58	52	65	57	51	47	43	39	36	30	27	25	18	16	15	10
4	68	57	49	44	59	51	44	39	38	33	30	26	23	21	16	14	13	8
5	62	51	43	37	54	45	38	33	34	29	25	23	20	18	14	12	11	7
6	57	45	37	32	50	40	33	28	30	25	22	21	18	15	12	11	9	6
7	52	40	33	27	46	36	29	24	27	22	19	19	16	13	11	9	8	5
8	48	36	29	24	42	32	26	21	24	20	16	17	14	12	10	8	7	4
9	45	33	26	21	39	29	23	19	22	18	14	15	12	10	9	7	6	4
10	42	30	23	18	36	27	20	16	20	16	13	14	11	9	8	7	5	3

POLAR GRAPH



Maximum Candela = 2172.902 Located At Horizontal Angle = 0, Vertical Angle = 130  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)