



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-FL-VHO-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L450 VHO NW  
[TESTLAB] Dekko  
[ISSUE DATE] 6/29/2017  
[TEST DATE] 04-3-2017  
[LUMCAT] CURV-4-LED-FL-VHO-40  
[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	9462
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	71.9
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	2850	2200	1461
55	3036	2417	1550
65	2965	2491	1607
75	2839	2530	1680
85	3959	3760	2810

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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>	313.207	313.207	313.207	313.207	313.207	313.207	313.207	313.207	313.207	313.207
<b>10</b>	342.082	343.631	340.917	336.306	330.904	324.836	319.845	316.268	313.221	313.622
<b>20</b>	417.941	416.904	407.242	391.623	373.951	355.462	338.859	326.509	317.132	316.390
<b>30</b>	520.499	512.981	493.379	465.107	431.258	393.197	361.294	336.132	319.616	315.007
<b>40</b>	578.142	574.144	552.014	510.294	467.085	419.663	371.966	335.493	311.045	303.077
<b>50</b>	546.434	543.925	524.498	492.373	447.801	401.262	351.087	311.492	283.609	273.164
<b>60</b>	425.259	425.778	417.188	398.147	366.175	331.955	292.078	258.159	233.105	222.881
<b>70</b>	273.938	276.356	273.083	264.683	248.185	228.334	205.718	182.657	164.588	155.958
<b>80</b>	135.968	138.944	138.790	136.284	131.107	123.067	114.282	103.517	92.410	86.572
<b>90</b>	56.562	56.754	56.432	56.500	56.059	55.422	54.699	53.569	51.975	50.050
<b>100</b>	547.005	528.196	527.742	514.197	469.908	409.074	346.877	282.965	215.813	180.720
<b>110</b>	1705.373	1676.650	1622.701	1520.294	1399.993	1238.540	1051.508	818.258	573.111	449.843
<b>120</b>	2134.561	2099.654	2034.922	1935.163	1781.868	1598.210	1356.997	1087.675	839.512	719.617
<b>130</b>	2247.236	2217.884	2145.087	2033.699	1886.538	1693.275	1468.078	1245.601	1023.907	945.708
<b>140</b>	2146.163	2119.568	2056.914	1958.564	1829.966	1694.296	1525.699	1334.387	1165.713	1117.162
<b>150</b>	1968.228	1948.202	1914.345	1867.225	1759.191	1634.827	1509.990	1357.233	1273.235	1241.826
<b>160</b>	1760.477	1744.950	1717.208	1673.584	1615.566	1537.130	1452.354	1393.832	1359.077	1333.432
<b>170</b>	1517.953	1512.877	1501.273	1483.011	1467.560	1449.757	1436.067	1416.788	1402.600	1398.558
<b>180</b>	1424.436	1424.436	1424.436	1424.436	1424.436	1424.436	1424.436	1424.436	1424.436	1424.436

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	129.02	N.A.	1.40
0-30	309.68	N.A.	3.30
0-40	578.86	N.A.	6.10
0-60	1251.78	N.A.	13.20
0-80	1718.33	N.A.	18.20
0-90	1814.37	N.A.	19.20
10-90	1783.76	N.A.	18.90
20-40	449.84	N.A.	4.80
20-50	783.21	N.A.	8.30
40-70	954.44	N.A.	10.10
60-80	466.56	N.A.	4.90
70-80	185.03	N.A.	2.00
80-90	96.04	N.A.	1.00
90-110	1112.03	N.A.	11.80
90-120	2498.37	N.A.	26.40
90-130	3967.3	N.A.	41.90
90-150	6338.53	N.A.	67.00
90-180	7647.4	N.A.	80.80
110-180	6535.37	N.A.	69.10
0-180	9461.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	30.61
10-20	98.40
20-30	180.66
30-40	269.18
40-50	333.36
50-60	339.55
60-70	281.53
70-80	185.03
80-90	96.04
90-100	251.75
100-110	860.28
110-120	1386.34
120-130	1468.93
130-140	1317.73
140-150	1053.49
150-160	743.41
160-170	427.86
170-180	137.61

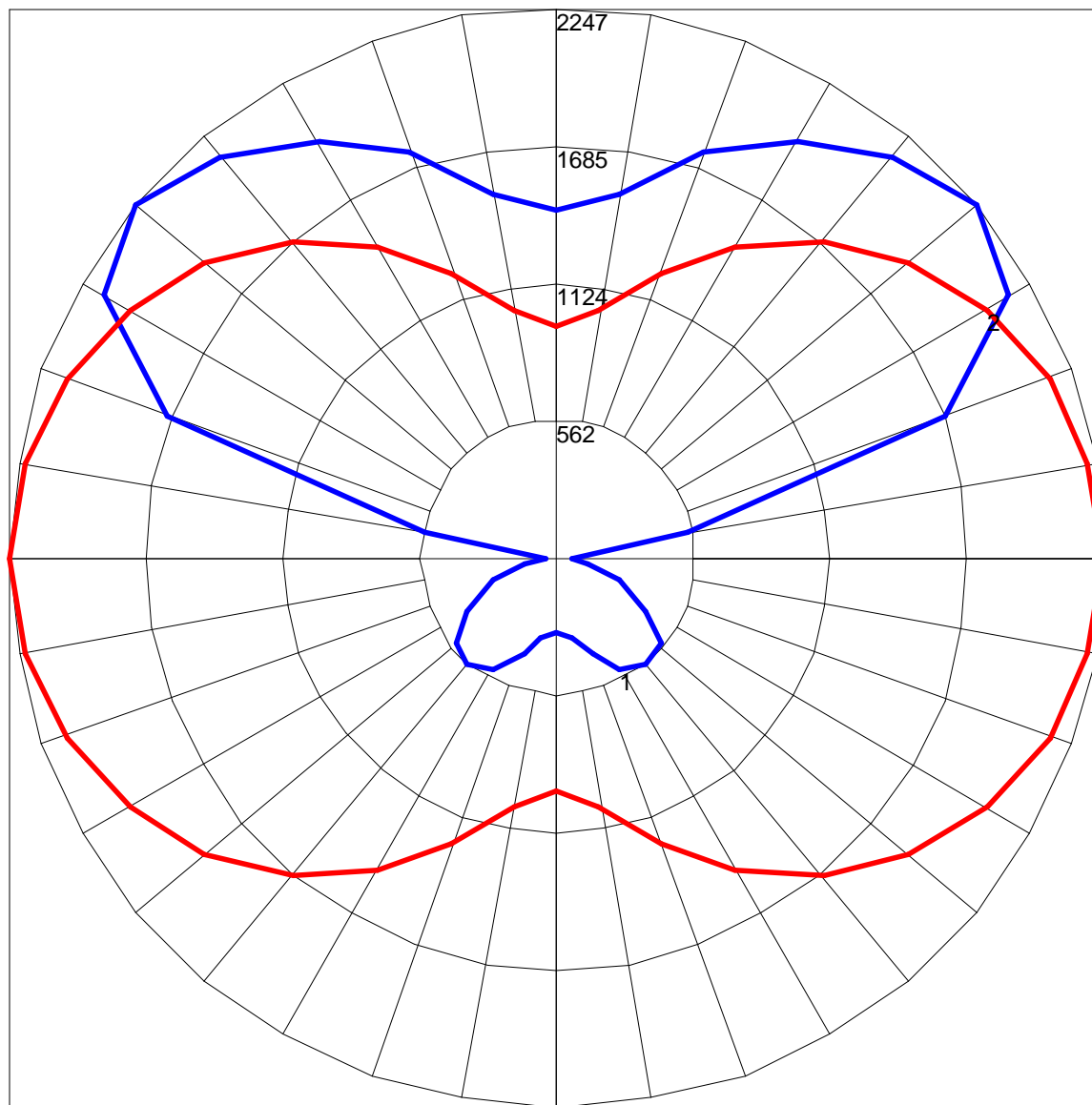
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2247.236 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.)