



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-6040-FL-VHO-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L450 VHO NW 60 40  
[TESTLAB] Dekko  
[ISSUE DATE] 6/29/2017  
[TEST DATE] 04-03-2017  
[LUMCAT] CURV-4-LED-6040-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\_SOURCE TYPE] LED  
[\_SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7771
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	71.9
Ballast Factor	1.00
CIE Type	General Diffuse
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	4364	3888	3088
55	4204	3864	3089
65	3802	3665	3044
75	3276	3418	3019
85	4419	4868	4468

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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>	812.552	812.552	812.552	812.552	812.552	812.552	812.552	812.552	812.552	812.552
<b>10</b>	860.547	859.508	853.948	846.684	837.058	825.414	816.266	808.110	801.775	798.195
<b>20</b>	940.062	936.488	922.986	902.673	872.955	846.491	820.312	799.067	782.687	774.279
<b>30</b>	984.303	980.422	960.803	931.274	892.915	851.876	805.840	768.687	743.452	730.209
<b>40</b>	938.472	935.277	918.950	889.372	850.762	804.260	751.750	707.187	674.582	660.316
<b>50</b>	783.314	783.154	774.807	756.176	727.002	685.987	645.138	604.442	571.388	557.953
<b>60</b>	562.125	564.894	563.826	556.209	541.945	518.048	490.405	463.396	438.695	430.631
<b>70</b>	334.354	338.656	341.020	341.737	338.515	329.782	318.373	302.297	290.706	287.107
<b>80</b>	138.697	143.544	149.022	154.359	159.170	159.763	158.483	155.300	150.071	148.842
<b>90</b>	76.213	77.225	79.271	78.744	78.028	76.526	75.054	73.504	71.840	68.440
<b>100</b>	270.960	276.596	303.303	303.406	285.172	270.419	254.964	240.130	216.234	199.172
<b>110</b>	809.676	799.726	790.756	772.974	734.900	691.638	627.173	527.808	434.197	382.236
<b>120</b>	1117.903	1108.048	1087.461	1045.341	989.212	911.587	817.554	696.020	597.710	545.810
<b>130</b>	1229.542	1226.036	1190.223	1148.824	1087.422	998.653	896.476	818.613	728.005	688.046
<b>140</b>	1216.838	1216.676	1186.294	1145.731	1093.932	1027.899	965.734	891.549	827.127	800.058
<b>150</b>	1150.265	1152.963	1144.565	1116.593	1091.199	1047.575	990.291	930.965	889.307	873.131
<b>160</b>	1095.407	1087.141	1087.566	1073.626	1046.949	1017.561	983.110	955.150	941.217	929.996
<b>170</b>	1003.502	1000.743	999.767	997.804	993.828	989.589	982.732	979.778	972.860	967.096
<b>180</b>	962.168	962.168	962.168	962.168	962.168	962.168	962.168	962.168	962.168	962.168

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	318.11	N.A.	4.10
0-30	717.54	N.A.	9.20
0-40	1245.37	N.A.	16.00
0-60	2369.28	N.A.	30.50
0-80	3037.25	N.A.	39.10
0-90	3161.87	N.A.	40.70
10-90	3083.43	N.A.	39.70
20-40	927.26	N.A.	11.90
20-50	1510.26	N.A.	19.40
40-70	1540.02	N.A.	19.80
60-80	667.97	N.A.	8.60
70-80	251.86	N.A.	3.20
80-90	124.62	N.A.	1.60
90-110	677.32	N.A.	8.70
90-120	1452.66	N.A.	18.70
90-130	2306.85	N.A.	29.70
90-150	3753.18	N.A.	48.30
90-180	4609.26	N.A.	59.30
110-180	3931.94	N.A.	50.60
0-180	7771.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	78.44
10-20	239.67
20-30	399.44
30-40	527.83
40-50	583.00
50-60	540.91
60-70	416.11
70-80	251.86
80-90	124.62
90-100	185.95
100-110	491.37
110-120	775.34
120-130	854.19
130-140	792.36
140-150	653.97
150-160	477.78
160-170	285.16
170-180	93.13

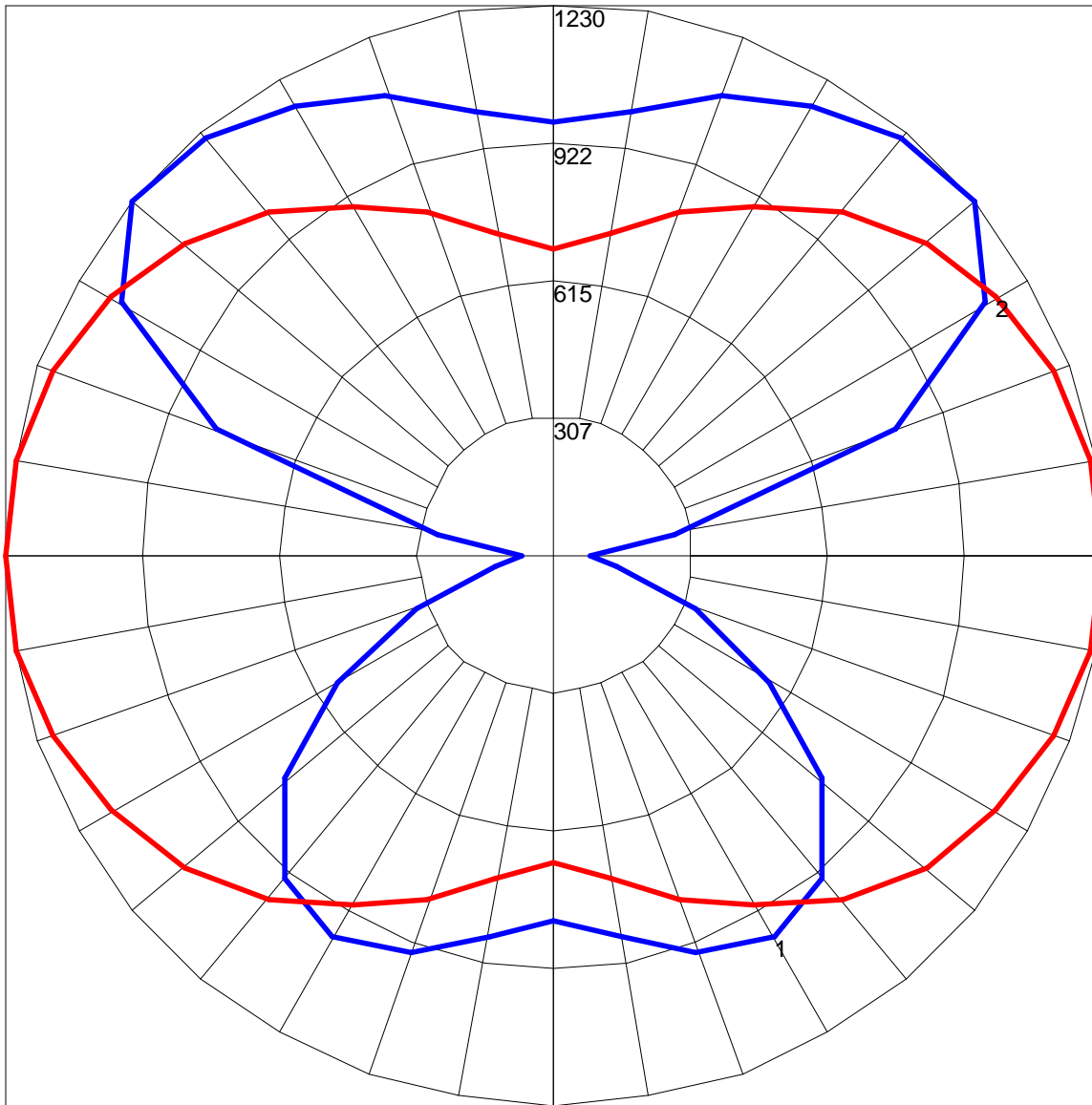
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	95	91	87	83	86	83	79	76	68	65	63	54	52	51	41	40	39	33
2	86	79	72	67	78	72	66	62	59	55	51	47	44	42	36	34	32	27
3	78	69	61	55	71	63	56	51	51	47	43	41	38	35	31	29	27	22
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	28	25	23	19
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	25	22	20	16
6	60	48	40	34	54	44	37	31	36	31	26	29	25	22	22	19	17	14
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	20	17	15	12
8	51	39	31	26	46	36	29	24	30	24	20	24	20	17	18	15	13	11
9	48	35	28	23	43	32	26	21	27	22	18	22	18	15	17	14	12	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	9

POLAR GRAPH



Maximum Candela = 1229.542 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.)