



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-2080-FL-VHO-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L450 VHO NW 20 80  
[TESTLAB] Dekko  
[ISSUE DATE] 6/29/2017  
[TEST DATE] 04-03-2017  
[LUMCAT] CURV-4-LED-2080-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	5773
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	71.9
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.52
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	6116	5625	4798
55	5778	5449	4633
65	5091	4983	4334
75	4145	4293	3864
85	4466	4911	4366

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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>	1380.473	1380.473	1380.473	1380.473	1380.473	1380.473	1380.473	1380.473	1380.473	1380.473
<b>10</b>	1411.553	1407.256	1400.486	1392.047	1382.702	1372.458	1363.139	1356.534	1351.680	1350.127
<b>20</b>	1449.956	1442.518	1429.343	1408.809	1384.951	1356.814	1331.823	1309.470	1296.285	1291.812
<b>30</b>	1447.805	1439.631	1419.997	1386.192	1349.460	1305.351	1263.234	1226.523	1200.452	1190.086
<b>40</b>	1329.648	1321.809	1305.714	1274.729	1235.885	1187.999	1138.909	1089.832	1057.363	1040.679
<b>50</b>	1083.374	1081.576	1073.396	1056.205	1028.472	986.113	940.954	898.626	865.604	852.360
<b>60</b>	765.848	768.423	767.729	763.140	749.391	723.743	695.420	664.170	640.019	630.257
<b>70</b>	434.638	439.158	443.208	444.528	442.914	434.050	421.133	410.790	397.703	391.723
<b>80</b>	163.871	168.941	174.416	179.038	181.310	181.505	178.599	173.762	169.438	166.280
<b>90</b>	53.292	55.286	57.540	58.112	57.892	56.870	54.922	53.866	51.973	46.047
<b>100</b>	122.702	123.310	132.895	141.622	136.439	131.361	119.540	105.095	81.727	70.750
<b>110</b>	210.924	211.571	203.344	203.419	200.088	194.637	175.124	145.475	124.713	116.796
<b>120</b>	251.358	254.348	248.821	239.220	223.147	207.292	184.775	167.985	159.155	156.884
<b>130</b>	262.655	269.111	265.419	252.089	239.367	227.289	213.210	202.280	193.645	192.200
<b>140</b>	260.253	270.813	266.733	262.254	254.694	243.508	237.019	230.075	224.564	221.452
<b>150</b>	258.098	267.176	266.723	263.793	263.681	260.054	254.862	248.347	245.135	244.220
<b>160</b>	255.663	263.612	266.406	267.454	265.903	263.310	264.441	262.346	260.037	258.253
<b>170</b>	250.608	260.025	262.031	264.333	265.000	264.403	266.071	266.198	266.148	265.535
<b>180</b>	259.814	259.814	259.814	259.814	259.814	259.814	259.814	259.814	259.814	259.814

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	521.26	N.A.	9.00
0-30	1144.6	N.A.	19.80
0-40	1937.08	N.A.	33.60
0-60	3550.53	N.A.	61.50
0-80	4437.93	N.A.	76.90
0-90	4563.29	N.A.	79.00
10-90	4431.61	N.A.	76.80
20-40	1415.82	N.A.	24.50
20-50	2263.25	N.A.	39.20
40-70	2182.37	N.A.	37.80
60-80	887.40	N.A.	15.40
70-80	318.48	N.A.	5.50
80-90	125.36	N.A.	2.20
90-110	253.01	N.A.	4.40
90-120	446.63	N.A.	7.70
90-130	644.94	N.A.	11.20
90-150	989.66	N.A.	17.10
90-180	1209.97	N.A.	21.00
110-180	956.96	N.A.	16.60
0-180	5773.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.68
10-20	389.58
20-30	623.34
30-40	792.48
40-50	847.42
50-60	766.02
60-70	568.92
70-80	318.48
80-90	125.36
90-100	94.85
100-110	158.15
110-120	193.62
120-130	198.31
130-140	185.88
140-150	158.85
150-160	120.64
160-170	74.69
170-180	24.98

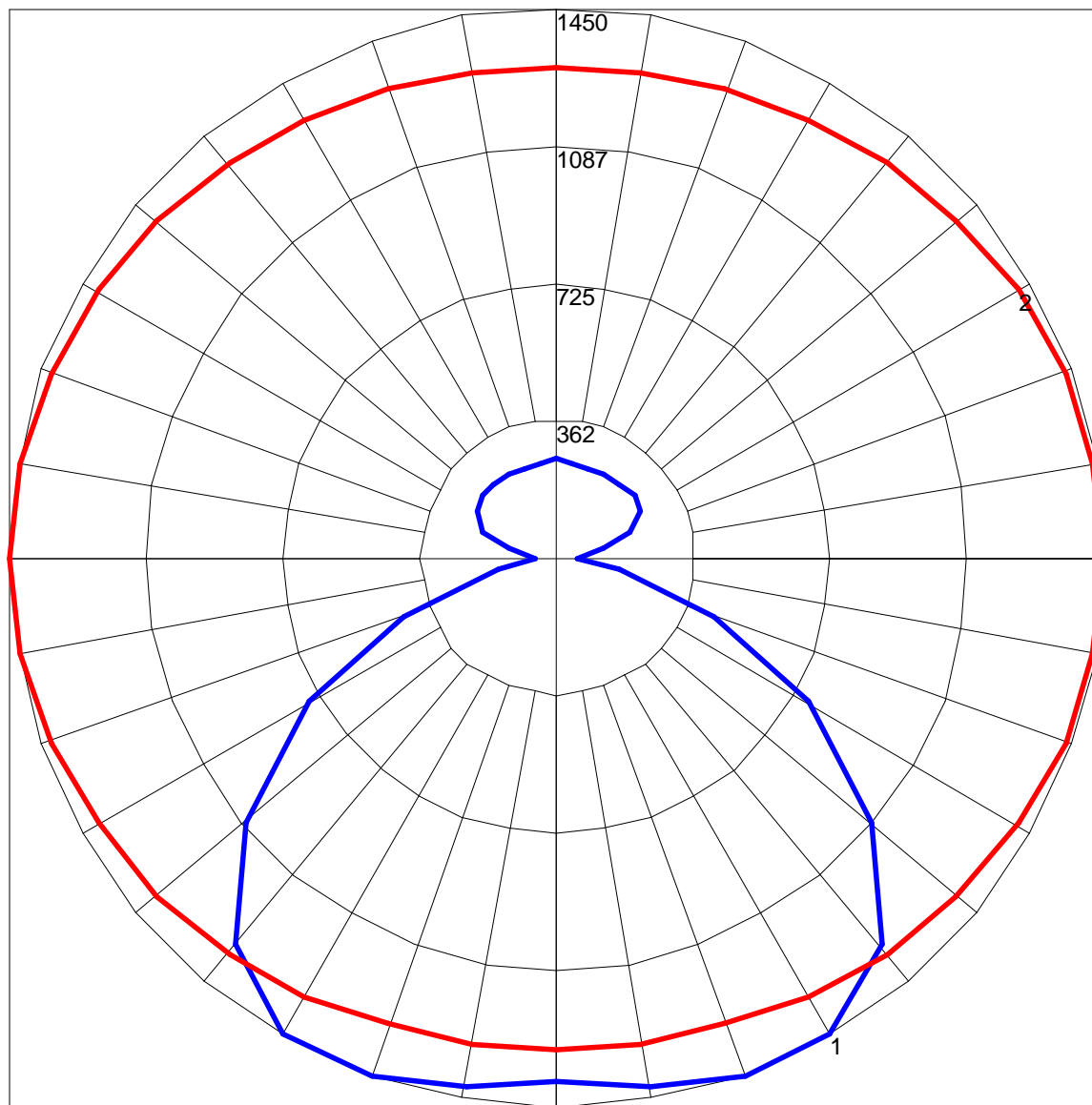
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	104	99	95	91	99	95	91	87	87	84	81	79	77	75	72	71	69	65
2	94	86	79	74	90	82	76	71	75	71	66	69	65	62	63	60	57	54
3	86	75	67	61	81	72	65	59	66	60	55	61	56	52	56	52	48	45
4	78	66	58	51	74	64	56	50	59	52	47	54	48	44	49	45	41	38
5	72	59	50	44	68	57	49	43	52	45	40	48	42	38	44	39	36	33
6	66	53	44	38	63	51	43	37	47	40	35	43	37	33	40	35	31	29
7	61	48	39	33	58	46	38	32	43	36	31	39	33	29	36	31	27	25
8	57	43	35	29	54	42	34	29	39	32	27	36	30	26	33	28	24	22
9	53	40	32	26	50	38	31	26	36	29	24	33	27	23	31	26	22	20
10	49	36	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

POLAR GRAPH



Maximum Candela = 1449.956 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)