



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-2080-FL-VHO-35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L450 VHO NW 20 80\_Scaled  
[TESTLAB] Dekko  
[ISSUE DATE] 6/29/2017  
[TEST DATE] 04-03-2017  
[LUMCAT] CURV-4-LED-2080-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\_SOURCE TYPE] LED  
[\_SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5583
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	72
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	5915	5440	4640
55	5588	5270	4480
65	4924	4819	4192
75	4008	4151	3737
85	4319	4749	4223

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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>	1335.044	1335.044	1335.044	1335.044	1335.044	1335.044	1335.044	1335.044	1335.044	1335.044
<b>10</b>	1365.101	1360.946	1354.398	1346.237	1337.199	1327.293	1318.280	1311.892	1307.198	1305.696
<b>20</b>	1402.240	1395.047	1382.305	1362.448	1339.375	1312.163	1287.995	1266.377	1253.626	1249.301
<b>30</b>	1400.160	1392.255	1373.267	1340.574	1305.051	1262.394	1221.663	1186.160	1160.947	1150.922
<b>40</b>	1285.891	1278.311	1262.745	1232.780	1195.214	1148.904	1101.430	1053.967	1022.566	1006.432
<b>50</b>	1047.722	1045.983	1038.072	1021.447	994.626	953.661	909.989	869.054	837.118	824.310
<b>60</b>	740.645	743.136	742.464	738.026	724.730	699.925	672.535	642.314	618.957	609.516
<b>70</b>	420.335	424.706	428.623	429.899	428.339	419.766	407.274	397.272	384.615	378.832
<b>80</b>	158.478	163.381	168.676	173.147	175.343	175.532	172.721	168.044	163.862	160.808
<b>90</b>	51.538	53.467	55.646	56.200	55.987	54.999	53.114	52.093	50.263	44.531
<b>100</b>	118.664	119.252	128.521	136.962	131.949	127.038	115.606	101.637	79.037	68.422
<b>110</b>	203.982	204.609	196.652	196.725	193.504	188.231	169.361	140.687	120.609	112.953
<b>120</b>	243.086	245.977	240.632	231.348	215.803	200.470	178.694	162.457	153.918	151.721
<b>130</b>	254.011	260.255	256.684	243.793	231.490	219.809	206.193	195.623	187.273	185.875
<b>140</b>	251.689	261.901	257.955	253.623	246.313	235.494	229.219	222.504	217.174	214.164
<b>150</b>	249.605	258.383	257.945	255.112	255.004	251.496	246.475	240.175	237.068	236.183
<b>160</b>	247.250	254.937	257.639	258.653	257.152	254.645	255.739	253.713	251.479	249.755
<b>170</b>	242.361	251.468	253.408	255.634	256.279	255.702	257.315	257.438	257.389	256.797
<b>180</b>	251.264	251.264	251.264	251.264	251.264	251.264	251.264	251.264	251.264	251.264

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	504.11	N.A.	9.00
0-30	1106.94	N.A.	19.80
0-40	1873.34	N.A.	33.60
0-60	3433.69	N.A.	61.50
0-80	4291.88	N.A.	76.90
0-90	4413.12	N.A.	79.00
10-90	4285.77	N.A.	76.80
20-40	1369.23	N.A.	24.50
20-50	2188.77	N.A.	39.20
40-70	2110.55	N.A.	37.80
60-80	858.19	N.A.	15.40
70-80	308.00	N.A.	5.50
80-90	121.24	N.A.	2.20
90-110	244.68	N.A.	4.40
90-120	431.93	N.A.	7.70
90-130	623.71	N.A.	11.20
90-150	957.09	N.A.	17.10
90-180	1170.15	N.A.	21.00
110-180	925.47	N.A.	16.60
0-180	5583.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	127.35
10-20	376.76
20-30	602.83
30-40	766.40
40-50	819.54
50-60	740.81
60-70	550.20
70-80	308.00
80-90	121.24
90-100	91.73
100-110	152.95
110-120	187.25
120-130	191.78
130-140	179.76
140-150	153.62
150-160	116.67
160-170	72.23
170-180	24.16

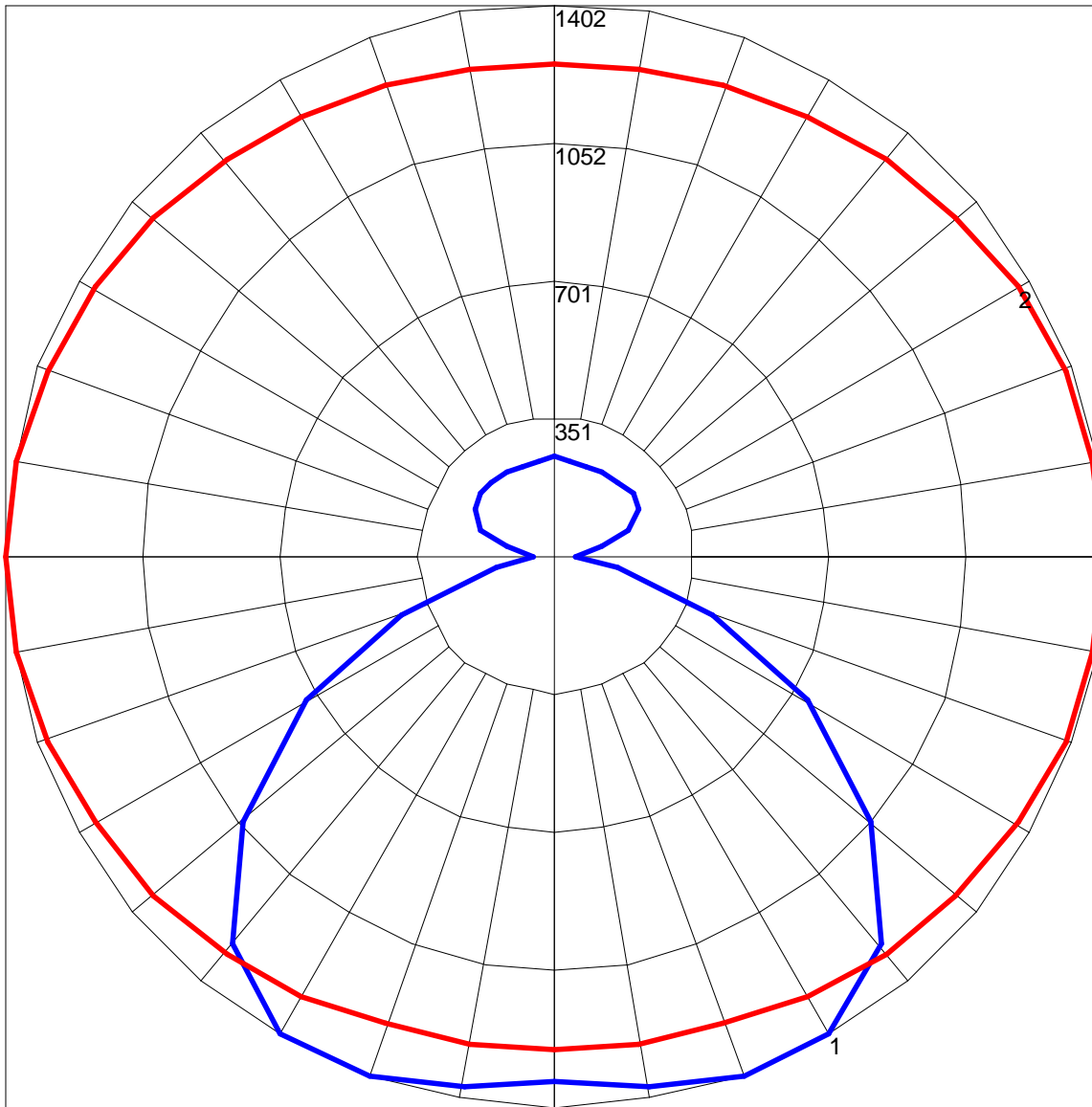
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1402.24 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.)