



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-5050-FL-VHO-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L450 VHO NW 50 50\_Scaled  
[TESTLAB] Dekko  
[ISSUE DATE] 6/29/2017  
[TEST DATE] 04-03-2017  
[LUMCAT] CURV-4-LED-5050-FL-VHO-30  
[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	6869
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	72
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	4561	4087	3344
55	4412	4056	3300
65	3983	3815	3195
75	3418	3480	3046
85	4291	4638	4290

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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>	909.130	909.130	909.130	909.130	909.130	909.130	909.130	909.130	909.130	909.130
<b>10</b>	941.719	940.102	934.201	928.068	919.085	911.447	904.216	898.403	895.273	893.836
<b>20</b>	996.053	991.702	979.891	963.437	941.576	917.566	895.852	878.423	865.893	861.716
<b>30</b>	1031.152	1025.981	1010.187	982.628	947.791	905.625	867.940	834.738	813.473	805.182
<b>40</b>	979.111	975.804	959.826	931.738	894.102	846.209	800.815	759.978	730.707	719.300
<b>50</b>	820.470	819.616	810.252	791.939	760.270	724.490	682.997	640.835	611.657	599.882
<b>60</b>	591.586	593.419	591.247	583.485	566.498	545.019	517.185	486.715	464.630	456.201
<b>70</b>	347.565	347.967	353.470	353.400	349.705	338.129	329.813	314.260	302.211	297.083
<b>80</b>	146.022	150.206	153.903	157.076	158.677	158.660	156.357	151.515	145.569	142.833
<b>90</b>	62.649	63.665	65.017	66.304	66.941	66.838	67.006	66.436	66.316	65.781
<b>100</b>	248.877	259.530	270.844	271.535	258.057	238.131	219.091	201.553	183.344	171.156
<b>110</b>	622.399	612.364	618.725	608.056	582.696	545.405	491.498	428.771	361.535	326.246
<b>120</b>	807.631	804.219	797.271	780.583	743.964	694.387	627.237	547.406	485.715	455.455
<b>130</b>	879.591	885.740	870.288	850.665	809.314	747.378	685.880	637.292	583.132	556.757
<b>140</b>	872.569	881.425	861.220	839.105	815.943	773.206	735.579	688.361	647.580	632.452
<b>150</b>	836.473	840.887	833.050	817.743	802.132	782.272	757.131	727.357	701.046	692.117
<b>160</b>	801.011	802.725	805.845	794.876	783.256	770.040	753.825	737.585	729.795	723.504
<b>170</b>	754.635	753.621	755.049	754.630	754.003	749.640	747.273	745.091	741.302	740.297
<b>180</b>	738.710	738.710	738.710	738.710	738.710	738.710	738.710	738.710	738.710	738.710

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	348.74	N.A.	5.10
0-30	777.40	N.A.	11.30
0-40	1337.71	N.A.	19.50
0-60	2522.41	N.A.	36.70
0-80	3215.01	N.A.	46.80
0-90	3334.37	N.A.	48.50
10-90	3247.24	N.A.	47.30
20-40	988.97	N.A.	14.40
20-50	1604.25	N.A.	23.40
40-70	1619.43	N.A.	23.60
60-80	692.61	N.A.	10.10
70-80	257.88	N.A.	3.80
80-90	119.36	N.A.	1.70
90-110	565.69	N.A.	8.20
90-120	1163.23	N.A.	16.90
90-130	1806.21	N.A.	26.30
90-150	2888.53	N.A.	42.10
90-180	3534.28	N.A.	51.50
110-180	2968.58	N.A.	43.20
0-180	6868.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.13
10-20	261.61
20-30	428.66
30-40	560.32
40-50	615.28
50-60	569.41
60-70	434.73
70-80	257.88
80-90	119.36
90-100	163.95
100-110	401.74
110-120	597.54
120-130	642.97
130-140	593.00
140-150	489.33
150-160	359.13
160-170	215.57
170-180	71.04

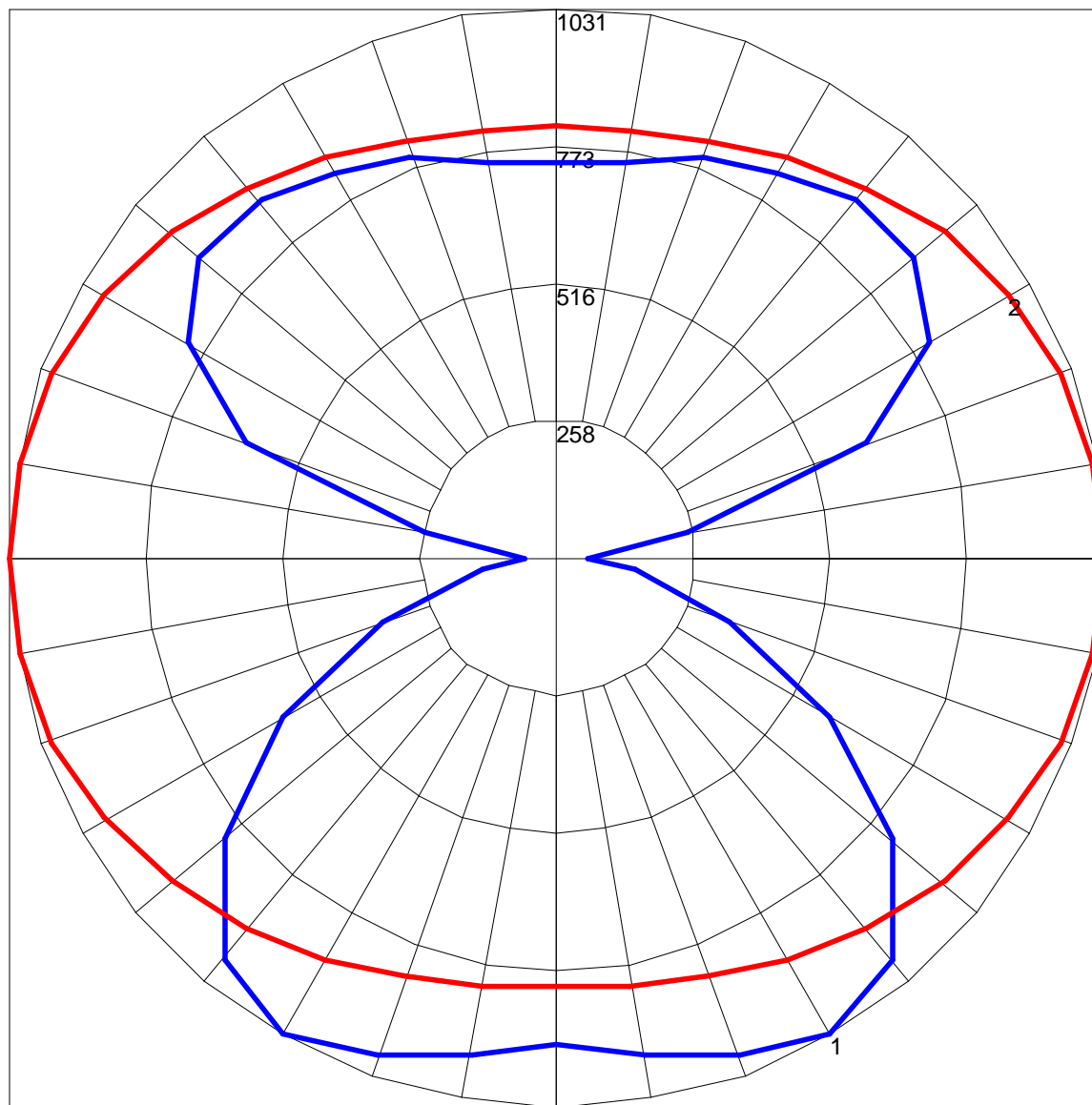
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	47	46	45	40
2	88	80	74	68	80	74	68	64	62	58	54	51	48	46	41	39	37	32
3	80	70	62	56	73	65	58	53	54	49	45	45	41	38	36	33	31	27
4	73	62	53	47	67	57	50	44	48	42	38	40	36	32	32	29	26	23
5	67	55	46	40	61	51	43	38	43	37	33	35	31	28	29	25	23	19
6	61	49	40	35	56	45	38	32	38	32	28	32	27	24	26	22	20	17
7	56	44	36	30	52	41	33	28	35	29	25	29	24	21	23	20	17	15
8	52	40	32	26	48	37	30	25	31	26	22	26	22	19	21	18	15	13
9	49	36	28	23	45	34	27	22	29	23	19	24	20	16	20	16	14	12
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12	10

POLAR GRAPH



Maximum Candela = 1031.152 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)