



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-5050-FL-SS-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-SS-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	3880
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	41
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	2577	2309	1889
55	2492	2291	1864
65	2250	2155	1805
75	1931	1966	1721
85	2424	2620	2423

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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>	513.531	513.531	513.531	513.531	513.531	513.531	513.531	513.531	513.531	513.531
<b>10</b>	531.939	531.026	527.692	524.228	519.154	514.840	510.755	507.472	505.704	504.892
<b>20</b>	562.630	560.172	553.501	544.207	531.858	518.296	506.031	496.186	489.108	486.749
<b>30</b>	582.456	579.535	570.614	555.047	535.369	511.551	490.264	471.510	459.498	454.815
<b>40</b>	553.060	551.193	542.167	526.302	505.042	477.989	452.348	429.281	412.747	406.303
<b>50</b>	463.450	462.968	457.679	447.335	429.446	409.235	385.798	361.982	345.500	338.849
<b>60</b>	334.163	335.198	333.971	329.587	319.992	307.859	292.137	274.926	262.451	257.689
<b>70</b>	196.325	196.553	199.661	199.621	197.534	190.995	186.298	177.513	170.707	167.810
<b>80</b>	82.482	84.845	86.933	88.726	89.630	89.621	88.320	85.585	82.226	80.681
<b>90</b>	35.388	35.962	36.725	37.452	37.812	37.754	37.849	37.527	37.459	37.157
<b>100</b>	140.580	146.598	152.989	153.379	145.766	134.510	123.756	113.849	103.563	96.679
<b>110</b>	351.568	345.900	349.493	343.466	329.142	308.077	277.627	242.196	204.217	184.283
<b>120</b>	456.198	454.271	450.346	440.920	420.235	392.231	354.301	309.208	274.361	257.268
<b>130</b>	496.845	500.319	491.590	480.506	457.149	422.164	387.426	359.981	329.388	314.489
<b>140</b>	492.879	497.882	486.468	473.977	460.894	436.753	415.499	388.827	365.792	357.247
<b>150</b>	472.490	474.983	470.556	461.910	453.092	441.874	427.673	410.854	395.993	390.949
<b>160</b>	452.459	453.427	455.189	448.993	442.430	434.965	425.805	416.632	412.232	408.678
<b>170</b>	426.263	425.690	426.497	426.260	425.906	423.441	422.104	420.872	418.732	418.164
<b>180</b>	417.267	417.267	417.267	417.267	417.267	417.267	417.267	417.267	417.267	417.267

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	196.99	N.A.	5.10
0-30	439.12	N.A.	11.30
0-40	755.62	N.A.	19.50
0-60	1424.81	N.A.	36.70
0-80	1816.03	N.A.	46.80
0-90	1883.45	N.A.	48.50
10-90	1834.23	N.A.	47.30
20-40	558.63	N.A.	14.40
20-50	906.18	N.A.	23.40
40-70	914.75	N.A.	23.60
60-80	391.23	N.A.	10.10
70-80	145.66	N.A.	3.80
80-90	67.42	N.A.	1.70
90-110	319.54	N.A.	8.20
90-120	657.06	N.A.	16.90
90-130	1020.25	N.A.	26.30
90-150	1631.62	N.A.	42.10
90-180	1996.37	N.A.	51.50
110-180	1676.83	N.A.	43.20
0-180	3879.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.22
10-20	147.77
20-30	242.13
30-40	316.50
40-50	347.55
50-60	321.64
60-70	245.56
70-80	145.66
80-90	67.42
90-100	92.61
100-110	226.93
110-120	337.53
120-130	363.19
130-140	334.96
140-150	276.40
150-160	202.86
160-170	121.76
170-180	40.13

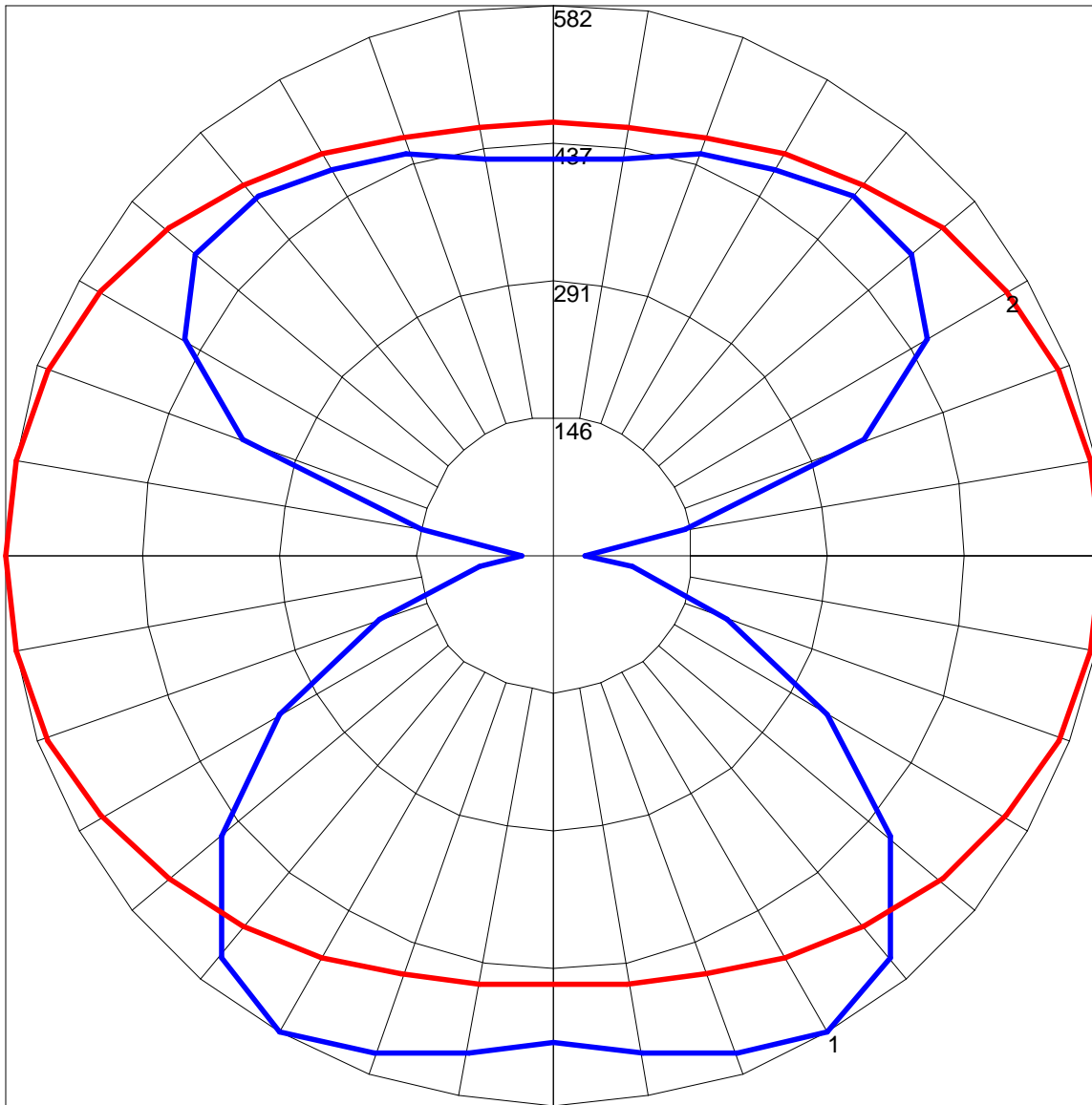
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 582.456 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.)