



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-8-LED-FL-SS-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L450 VHO NW\_Scaled  
 [TESTLAB] Dekko  
 [ISSUE DATE] 6/29/2017  
 [TEST DATE] 04-3-2017  
 [LUMCAT] CURV-8-LED-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	10024
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	82
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	8.00 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	1509	1166	772
55	1606	1281	820
65	1571	1319	852
75	1504	1339	893
85	2089	1992	1494

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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>	331.271	331.271	331.271	331.271	331.271	331.271	331.271	331.271	331.271	331.271
<b>10</b>	362.523	364.086	360.961	356.273	350.022	343.772	339.084	334.396	331.271	332.834
<b>20</b>	442.216	442.216	431.278	415.652	396.900	376.587	359.398	345.335	335.959	335.959
<b>30</b>	551.598	543.785	521.908	492.219	456.279	417.214	382.837	356.273	339.084	334.396
<b>40</b>	612.539	607.851	584.412	540.660	495.344	445.341	393.775	354.710	329.709	320.333
<b>50</b>	578.162	576.599	556.286	521.908	475.030	425.027	371.899	329.709	300.019	289.081
<b>60</b>	450.029	451.591	442.216	421.902	387.525	351.585	309.395	273.455	246.891	235.953
<b>70</b>	290.644	292.206	289.081	279.705	262.517	242.203	217.201	193.762	175.011	165.636
<b>80</b>	143.759	146.884	146.884	143.759	139.071	129.696	120.320	109.382	98.444	92.193
<b>90</b>	59.379	59.379	59.379	59.379	59.379	59.379	57.816	56.254	54.691	53.128
<b>100</b>	579.725	559.411	559.411	545.347	498.469	432.840	367.211	300.019	228.140	192.200
<b>110</b>	1806.366	1776.676	1718.860	1611.041	1482.907	1312.584	1114.134	867.243	607.851	476.593
<b>120</b>	2261.082	2223.580	2156.388	2050.131	1887.621	1693.858	1437.592	1151.636	889.119	762.549
<b>130</b>	2381.402	2350.150	2272.020	2154.825	1998.565	1793.865	1554.787	1318.834	1084.444	1001.627
<b>140</b>	2273.583	2245.456	2179.827	2075.133	1939.187	1795.427	1615.728	1414.153	1234.454	1182.888
<b>150</b>	2084.508	2064.195	2028.255	1978.252	1864.182	1731.361	1600.102	1437.592	1348.524	1315.709
<b>160</b>	1865.744	1848.556	1818.866	1773.551	1711.047	1628.229	1539.161	1476.657	1439.155	1412.590
<b>170</b>	1607.915	1603.228	1590.727	1570.413	1554.787	1536.036	1521.972	1501.659	1486.033	1481.345
<b>180</b>	1509.472	1509.472	1509.472	1509.472	1509.472	1509.472	1509.472	1509.472	1509.472	1509.472

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	136.65	N.A.	1.40
0-30	328.09	N.A.	3.30
0-40	613.26	N.A.	6.10
0-60	1326.16	N.A.	13.20
0-80	1820.2	N.A.	18.20
0-90	1921.69	N.A.	19.20
10-90	1889.29	N.A.	18.80
20-40	476.61	N.A.	4.80
20-50	829.77	N.A.	8.30
40-70	1011.1	N.A.	10.10
60-80	494.04	N.A.	4.90
70-80	195.85	N.A.	2.00
80-90	101.49	N.A.	1.00
90-110	1178.17	N.A.	11.80
90-120	2646.94	N.A.	26.40
90-130	4203.05	N.A.	41.90
90-150	6715.17	N.A.	67.00
90-180	8101.83	N.A.	80.80
110-180	6923.66	N.A.	69.10
0-180	10023.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	32.40
10-20	104.25
20-30	191.45
30-40	285.16
40-50	353.16
50-60	359.74
60-70	298.19
70-80	195.85
80-90	101.49
90-100	266.63
100-110	911.54
110-120	1468.77
120-130	1556.11
130-140	1396.01
140-150	1116.11
150-160	787.56
160-170	453.29
170-180	145.81

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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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	90	86	82	79	79	76	73	70	57	55	53	40	38	37	24	23	22	15
2	82	75	69	63	72	66	61	57	49	46	43	34	32	30	20	19	18	12
3	74	65	58	52	65	57	51	47	43	39	36	30	27	25	18	16	15	10
4	68	57	49	44	59	51	44	39	38	33	30	26	23	21	16	14	13	8
5	62	51	43	37	54	45	38	33	34	29	25	23	20	18	14	12	11	7
6	57	45	37	32	50	40	33	28	30	25	22	21	18	15	12	11	9	6
7	52	40	33	27	46	36	29	24	27	22	19	19	16	13	11	9	8	5
8	48	36	29	24	42	32	26	21	24	20	16	17	14	12	10	8	7	4
9	45	33	26	21	39	29	23	19	22	18	14	15	12	10	9	7	6	4
10	42	30	23	18	36	27	20	16	20	16	13	14	11	9	8	7	5	3

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**UGR TABLE - CORRECTED**

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	8.0	8.0	8.5	9.2	10.8	8.0	8.0	8.0	8.0	8.0
	3H	9.3	9.9	10.5	11.1	12.7	8.0	8.0	8.0	8.0	9.2
	4H	10.1	10.6	11.3	11.8	13.5	8.0	8.0	8.0	8.3	10.0
	6H	10.7	11.2	11.9	12.4	14.1	8.0	8.0	8.5	9.0	10.6
	8H	11.0	11.5	12.2	12.7	14.3	8.0	8.1	8.8	9.3	11.0
	12H	11.3	11.8	12.5	12.9	14.6	8.0	8.5	9.2	9.7	11.4

UGR Viewed Endwise

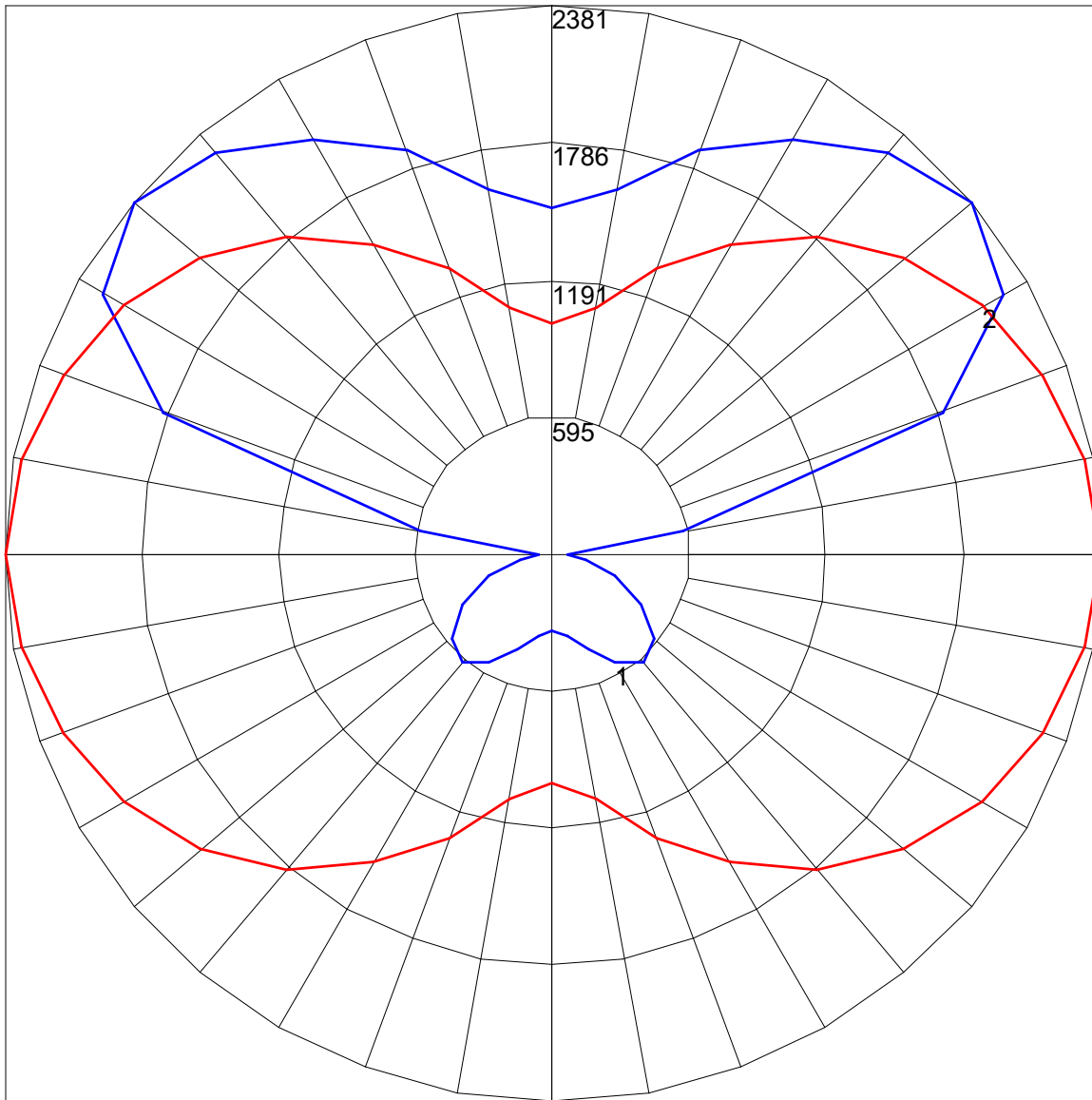
4H	2H	8.0	8.3	8.9	9.4	11.1	8.0	8.0	8.0	8.0	8.5
	3H	9.9	10.4	11.1	11.6	13.3	8.0	8.0	8.4	8.9	10.5
	4H	10.9	11.3	12.1	12.5	14.2	8.1	8.6	9.3	9.7	11.4
	6H	11.7	12.1	12.9	13.3	15.0	8.9	9.3	10.1	10.5	12.2
	8H	12.1	12.4	13.3	13.6	15.3	9.3	9.7	10.5	10.9	12.6
	12H	12.5	12.8	13.7	14.0	15.7	9.8	10.1	11.0	11.3	13.0

8H	4H	11.1	11.5	12.3	12.7	14.4	8.8	9.1	10.0	10.3	12.0
	6H	12.1	12.4	13.4	13.7	15.4	9.8	10.1	11.1	11.4	13.1
	8H	12.7	12.9	13.9	14.1	15.9	10.4	10.6	11.6	11.8	13.6
	12H	13.2	13.5	14.5	14.7	16.4	11.0	11.2	12.2	12.4	14.2

12H	4H	11.1	11.4	12.3	12.6	14.3	8.9	9.2	10.1	10.4	12.1
	6H	12.2	12.4	13.4	13.7	15.4	10.0	10.3	11.3	11.5	13.2
	8H	12.8	13.0	14.0	14.2	16.0	10.7	10.9	11.9	12.1	13.9

Maximum UGR = 16.4

POLAR GRAPH



Maximum Candela = 2381.402 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.)