



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-8-LED-6040-FL-VHO-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L450 VHO NW 60 40\_Scaled  
 [TESTLAB] Dekko  
 [ISSUE DATE] 6/29/2017  
 [TEST DATE] 04-03-2017  
 [LUMCAT] CURV-8-LED-6040-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	14578
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	144
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)	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	4092	3647	2897
55	3943	3623	2897
65	3567	3438	2857
75	3075	3210	2836
85	4154	4566	4182

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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>	1524.628	1524.628	1524.628	1524.628	1524.628	1524.628	1524.628	1524.628	1524.628	1524.628
<b>10</b>	1613.173	1613.173	1602.105	1588.269	1568.900	1549.531	1530.162	1516.327	1505.259	1496.958
<b>20</b>	1762.592	1757.058	1732.155	1693.416	1638.076	1588.269	1538.463	1499.725	1469.288	1452.685
<b>30</b>	1845.602	1840.068	1801.330	1745.990	1674.047	1599.338	1510.793	1441.617	1394.578	1369.675
<b>40</b>	1759.825	1754.291	1723.853	1668.513	1596.571	1508.026	1411.180	1325.403	1264.528	1239.625
<b>50</b>	1469.288	1469.288	1452.685	1419.481	1364.141	1286.664	1209.188	1134.478	1070.837	1045.934
<b>60</b>	1054.235	1059.769	1057.002	1043.167	1015.496	971.224	918.651	868.844	821.805	807.970
<b>70</b>	628.114	636.415	639.182	641.949	636.415	619.812	597.676	567.239	545.103	539.569
<b>80</b>	260.100	268.401	279.469	290.537	298.838	298.838	296.071	290.537	282.236	279.469
<b>90</b>	143.885	143.885	149.419	146.652	146.652	143.885	141.118	138.351	135.584	127.283
<b>100</b>	509.132	520.200	570.006	570.006	534.035	506.365	478.694	451.024	406.752	373.548
<b>110</b>	1519.094	1499.725	1483.123	1449.918	1377.976	1297.732	1175.983	990.593	813.504	716.658
<b>120</b>	2097.401	2078.032	2039.294	1961.817	1856.670	1710.018	1532.929	1306.033	1120.643	1023.797
<b>130</b>	2307.695	2299.394	2232.985	2155.509	2039.294	1873.273	1682.348	1535.696	1366.908	1289.431
<b>140</b>	2282.791	2282.791	2224.684	2149.975	2053.129	1928.613	1812.398	1671.280	1552.298	1499.725
<b>150</b>	2158.276	2163.810	2147.208	2094.634	2047.595	1964.584	1856.670	1745.990	1668.513	1638.076
<b>160</b>	2055.896	2039.294	2039.294	2014.391	1964.584	1909.244	1845.602	1793.029	1765.359	1745.990
<b>170</b>	1881.574	1876.040	1876.040	1870.506	1864.971	1856.670	1842.835	1837.301	1826.233	1815.165
<b>180</b>	1804.097	1804.097	1804.097	1804.097	1804.097	1804.097	1804.097	1804.097	1804.097	1804.097

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	596.82	N.A.	4.10
0-30	1346.13	N.A.	9.20
0-40	2336.16	N.A.	16.00
0-60	4444.05	N.A.	30.50
0-80	5697.29	N.A.	39.10
0-90	5931.01	N.A.	40.70
10-90	5783.85	N.A.	39.70
20-40	1739.34	N.A.	11.90
20-50	2832.87	N.A.	19.40
40-70	2888.46	N.A.	19.80
60-80	1253.24	N.A.	8.60
70-80	472.67	N.A.	3.20
80-90	233.72	N.A.	1.60
90-110	1270.96	N.A.	8.70
90-120	2725.28	N.A.	18.70
90-130	4327.71	N.A.	29.70
90-150	7041.09	N.A.	48.30
90-180	8647.11	N.A.	59.30
110-180	7376.15	N.A.	50.60
0-180	14578.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	147.16
10-20	449.66
20-30	749.31
30-40	990.02
40-50	1093.54
50-60	1014.36
60-70	780.57
70-80	472.67
80-90	233.72
90-100	349.11
100-110	921.84
110-120	1454.32
120-130	1602.43
130-140	1486.52
140-150	1226.86
150-160	896.39
160-170	534.98
170-180	174.66

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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	95	91	87	83	86	83	79	76	68	65	63	54	52	51	41	40	39	33
2	86	79	72	67	78	72	66	62	59	55	51	47	44	42	36	34	32	27
3	78	69	61	55	71	63	56	51	51	47	43	41	38	35	31	29	27	22
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	28	25	23	19
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	25	22	20	16
6	60	48	40	34	54	44	37	31	36	31	26	29	25	22	22	19	17	14
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	20	17	15	12
8	51	39	31	26	46	36	29	24	30	24	20	24	20	17	18	15	13	11
9	48	35	28	23	43	32	26	21	27	22	18	22	18	15	17	14	12	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	9

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**UGR TABLE - CORRECTED**

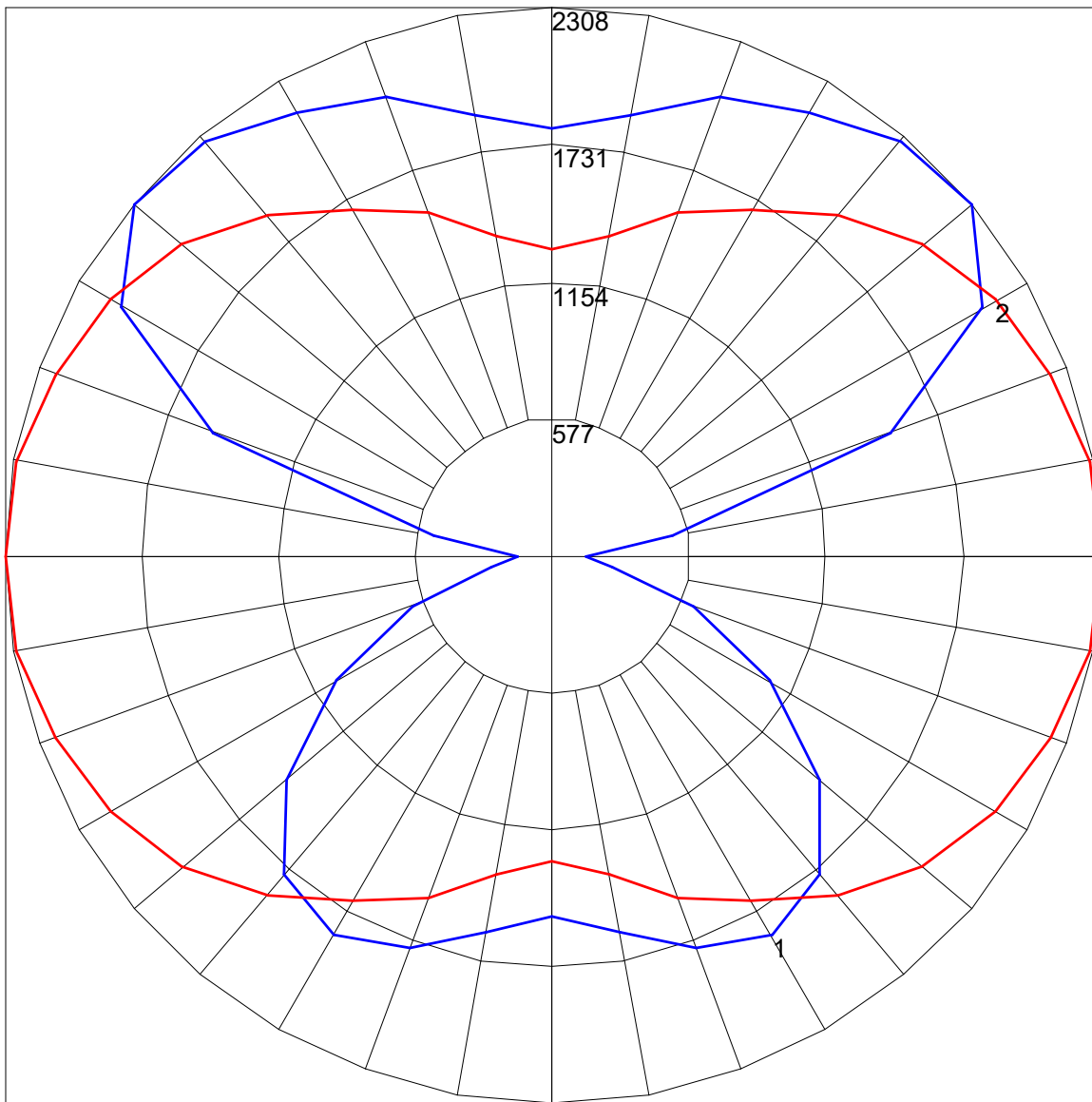
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	12.7	13.5	13.7	14.5	15.9	11.2	12.0	12.2	13.0	14.4
	3H	14.4	15.1	15.4	16.1	17.6	13.0	13.7	14.0	14.8	16.2
	4H	15.0	15.7	16.0	16.7	18.1	13.7	14.4	14.8	15.5	16.9
	6H	15.4	16.1	16.5	17.1	18.5	14.4	15.0	15.4	16.1	17.5
	8H	15.6	16.2	16.7	17.3	18.7	14.7	15.3	15.7	16.4	17.8
	12H	15.8	16.4	16.9	17.5	18.9	15.0	15.6	16.1	16.7	18.1
4H	2H	13.2	13.9	14.2	14.9	16.3	12.0	12.7	13.0	13.7	15.1
	3H	15.1	15.7	16.1	16.7	18.2	14.0	14.6	15.1	15.7	17.1
	4H	15.8	16.4	16.9	17.4	18.9	14.9	15.4	16.0	16.5	18.0
	6H	16.4	16.9	17.5	18.0	19.4	15.7	16.1	16.7	17.2	18.7
	8H	16.7	17.1	17.8	18.2	19.7	16.0	16.5	17.1	17.6	19.0
	12H	17.0	17.4	18.1	18.5	20.0	16.4	16.8	17.5	17.9	19.4
8H	4H	16.1	16.5	17.2	17.6	19.1	15.3	15.7	16.4	16.8	18.3
	6H	16.9	17.2	18.0	18.3	19.8	16.2	16.6	17.3	17.7	19.2
	8H	17.3	17.6	18.4	18.7	20.2	16.8	17.1	17.9	18.2	19.7
	12H	17.7	18.0	18.8	19.1	20.6	17.3	17.6	18.4	18.7	20.2
12H	4H	16.1	16.5	17.2	17.6	19.1	15.3	15.7	16.4	16.8	18.3
	6H	16.9	17.3	18.0	18.4	19.9	16.3	16.7	17.4	17.8	19.3
	8H	17.4	17.7	18.5	18.8	20.3	16.9	17.2	18.0	18.3	19.8

Maximum UGR = 20.6

POLAR GRAPH



Maximum Candela = 2307.695 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.)