



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-8-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-8-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	13738
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	4562	4088	3345
55	4414	4059	3303
65	3984	3816	3197
75	3420	3482	3046
85	4296	4637	4296

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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>	1817.748	1817.748	1817.748	1817.748	1817.748	1817.748	1817.748	1817.748	1817.748	1817.748
<b>10</b>	1884.150	1881.383	1867.550	1856.483	1837.115	1823.282	1809.448	1795.614	1790.081	1787.314
<b>20</b>	1992.053	1983.753	1958.852	1925.651	1884.150	1834.349	1792.848	1756.880	1731.979	1723.679
<b>30</b>	2061.221	2052.921	2019.720	1964.385	1895.217	1812.215	1734.746	1668.344	1626.843	1610.243
<b>40</b>	1958.852	1950.552	1920.118	1864.783	1787.314	1693.245	1601.943	1518.940	1460.839	1438.705
<b>50</b>	1640.677	1637.910	1621.310	1582.575	1521.707	1449.772	1366.770	1281.001	1222.899	1200.765
<b>60</b>	1184.165	1186.931	1181.398	1167.564	1134.363	1090.096	1034.761	973.893	929.625	913.024
<b>70</b>	694.452	697.219	708.285	705.519	699.985	675.085	658.484	628.050	603.149	594.849
<b>80</b>	293.274	301.575	307.108	315.408	318.175	318.175	312.642	304.341	290.508	284.974
<b>90</b>	124.503	127.270	130.037	132.804	132.804	132.804	132.804	132.804	132.804	132.804
<b>100</b>	498.013	520.147	542.281	542.281	517.380	475.879	437.145	403.944	367.976	343.076
<b>110</b>	1245.033	1225.666	1236.733	1217.366	1164.798	1090.096	982.193	857.689	722.119	652.951
<b>120</b>	1615.776	1607.476	1593.642	1560.441	1488.506	1388.904	1253.333	1095.629	971.126	910.257
<b>130</b>	1759.647	1770.714	1740.280	1701.545	1618.543	1494.040	1372.303	1275.467	1167.564	1112.230
<b>140</b>	1745.813	1762.413	1723.679	1679.411	1632.377	1546.608	1471.906	1377.837	1294.834	1264.400
<b>150</b>	1673.878	1682.178	1665.578	1635.143	1604.709	1563.208	1513.407	1455.305	1402.737	1383.370
<b>160</b>	1601.943	1604.709	1613.009	1590.876	1565.975	1541.074	1507.873	1474.672	1460.839	1447.005
<b>170</b>	1510.640	1507.873	1510.640	1510.640	1507.873	1499.573	1494.040	1491.273	1482.973	1480.206
<b>180</b>	1477.439	1477.439	1477.439	1477.439	1477.439	1477.439	1477.439	1477.439	1477.439	1477.439

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	697.44	N.A.	5.10
0-30	1554.68	N.A.	11.30
0-40	2675.2	N.A.	19.50
0-60	5044.75	N.A.	36.70
0-80	6430.14	N.A.	46.80
0-90	6668.95	N.A.	48.50
10-90	6494.71	N.A.	47.30
20-40	1977.76	N.A.	14.40
20-50	3208.32	N.A.	23.40
40-70	3239.06	N.A.	23.60
60-80	1385.39	N.A.	10.10
70-80	515.88	N.A.	3.80
80-90	238.81	N.A.	1.70
90-110	1131.56	N.A.	8.20
90-120	2326.44	N.A.	16.90
90-130	3612.29	N.A.	26.30
90-150	5777.28	N.A.	42.10
90-180	7068.96	N.A.	51.50
110-180	5937.39	N.A.	43.20
0-180	13737.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	174.24
10-20	523.20
20-30	857.24
30-40	1120.52
40-50	1230.56
50-60	1138.99
60-70	869.51
70-80	515.88
80-90	238.81
90-100	327.95
100-110	803.62
110-120	1194.87
120-130	1285.85
130-140	1186.22
140-150	978.77
150-160	718.32
160-170	431.24
170-180	142.11

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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

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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	13.9	14.7	14.8	15.7	17.0	UGR Viewed Endwise				
	3H	15.5	16.3	16.5	17.3	18.6	12.4	13.3	13.3	14.2	15.5
	4H	16.1	16.9	17.1	17.9	19.2	14.2	15.0	15.1	15.9	17.2
	6H	16.5	17.2	17.5	18.2	19.6	14.9	15.6	15.9	16.6	17.9
	8H	16.7	17.4	17.7	18.4	19.7	15.4	16.1	16.4	17.1	18.5
	12H	16.9	17.6	18.0	18.6	19.9	15.7	16.4	16.7	17.4	18.7

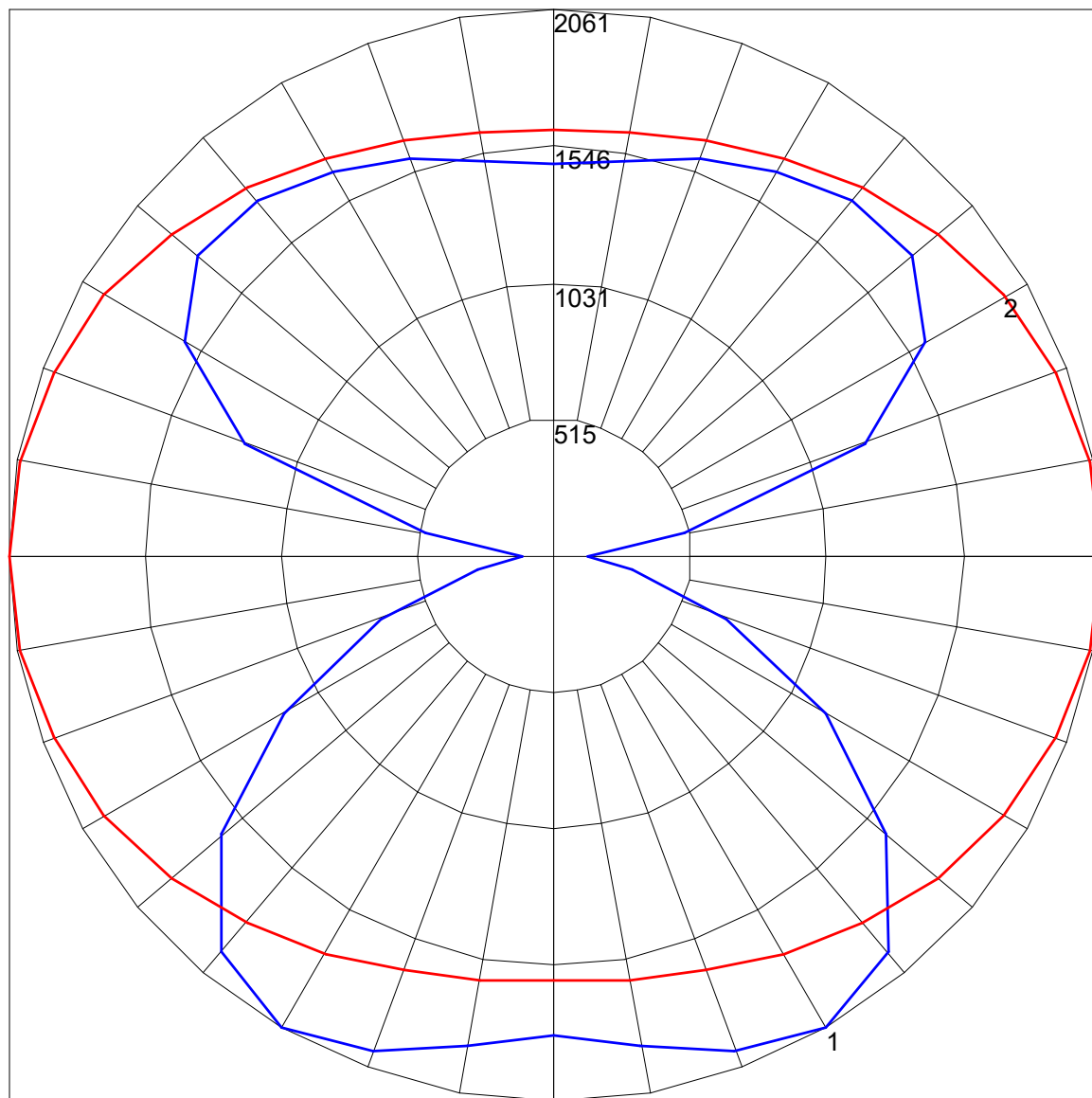
4H	2H	14.3	15.1	15.3	16.1	17.4	16.0	16.6	17.0	17.6	19.0
	3H	16.2	16.8	17.2	17.9	19.2	13.2	13.9	14.2	14.9	16.2
	4H	17.0	17.5	18.0	18.6	19.9	15.2	15.8	16.2	16.8	18.1
	6H	17.6	18.1	18.6	19.1	20.4	16.7	17.2	17.7	18.2	19.6
	8H	17.8	18.3	18.8	19.3	20.7	17.0	17.5	18.0	18.5	19.9
	12H	18.1	18.5	19.1	19.6	20.9	17.4	17.8	18.4	18.9	20.2

8H	4H	17.2	17.7	18.2	18.7	20.1	18.2	18.5	19.3	19.6	21.0
	6H	18.0	18.4	19.0	19.4	20.8	16.4	16.9	17.4	17.9	19.3
	8H	18.3	18.7	19.4	19.7	21.1	17.3	17.6	18.3	18.7	20.1
	12H	18.8	19.1	19.8	20.1	21.6	17.7	18.1	18.8	19.1	20.5

12H	4H	17.2	17.6	18.3	18.7	20.1	17.9	18.2	18.9	19.3	20.7
	6H	18.0	18.4	19.1	19.4	20.8	16.4	16.8	17.5	17.9	19.3
	8H	18.5	18.8	19.5	19.8	21.3	17.3	17.7	18.4	18.8	20.2

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 2061.221 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.)