



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-8-LED-5050-FB-VHO-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L445 VHO NW 50 50  
[TESTLAB] Dekko  
[TESTDATE] 03-31-2017  
[ISSUE DATE] 9/2/2020  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] CURV-8-LED-5050-FB-VHO-30  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7167
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	143.8
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	2811	2421	2123
55	2298	1659	1135
65	1540	764	352
75	676	220	120
85	166	252	171

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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>	1937.501	1937.501	1937.501	1937.501	1937.501	1937.501	1937.501	1937.501	1937.501	1937.501
<b>10</b>	1910.431	1909.327	1906.928	1900.682	1896.166	1889.423	1880.369	1871.938	1864.447	1857.956
<b>20</b>	1791.191	1789.907	1785.588	1771.251	1751.547	1728.145	1710.502	1696.916	1684.381	1675.050
<b>30</b>	1578.769	1574.652	1554.659	1521.565	1497.607	1483.938	1468.752	1454.457	1437.464	1427.196
<b>40</b>	1287.850	1279.515	1237.574	1195.099	1167.409	1149.345	1137.779	1126.049	1104.275	1086.516
<b>50</b>	930.507	914.867	861.213	813.173	771.611	731.804	686.966	650.349	615.467	588.590
<b>60</b>	540.160	524.531	469.082	407.060	345.597	274.892	212.618	175.763	154.302	138.142
<b>70</b>	185.913	169.568	132.962	86.599	54.747	45.209	38.360	33.327	29.176	27.735
<b>80</b>	9.339	11.149	12.889	13.490	13.650	13.335	12.460	10.836	8.141	6.921
<b>90</b>	6.788	7.748	9.569	11.456	10.996	11.121	10.462	9.392	8.655	9.757
<b>100</b>	216.351	224.763	216.874	218.736	175.448	156.928	134.174	127.217	115.811	111.860
<b>110</b>	547.379	562.466	556.768	541.981	490.504	448.649	417.171	379.126	336.169	325.768
<b>120</b>	678.684	790.749	773.230	719.584	694.077	642.665	568.069	514.130	499.282	501.432
<b>130</b>	765.770	985.677	743.586	890.112	737.642	701.034	643.060	632.053	631.297	633.552
<b>140</b>	790.428	833.464	856.821	753.086	752.272	740.202	741.818	741.364	742.111	742.360
<b>150</b>	769.149	773.914	787.564	795.248	806.358	814.266	818.945	820.191	820.119	824.715
<b>160</b>	824.203	824.671	834.591	844.641	850.703	856.030	859.896	863.108	864.395	867.995
<b>170</b>	858.435	856.019	858.955	864.960	868.169	870.936	872.400	875.843	876.247	882.500
<b>180</b>	865.884	865.884	865.884	865.884	865.884	865.884	865.884	865.884	865.884	865.884

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	696.90	N.A.	9.70
0-30	1446.41	N.A.	20.20
0-40	2286.82	N.A.	31.90
0-60	3518.85	N.A.	49.10
0-80	3764.43	N.A.	52.50
0-90	3776.05	N.A.	52.70
10-90	3593.41	N.A.	50.10
20-40	1589.92	N.A.	22.20
20-50	2338.09	N.A.	32.60
40-70	1430.55	N.A.	20.00
60-80	245.58	N.A.	3.40
70-80	47.07	N.A.	0.70
80-90	11.62	N.A.	0.20
90-110	433.51	N.A.	6.00
90-120	982.83	N.A.	13.70
90-130	1603.66	N.A.	22.40
90-150	2682.66	N.A.	37.40
90-180	3391.44	N.A.	47.30
110-180	2957.93	N.A.	41.30
0-180	7167.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	182.64
10-20	514.25
20-30	749.52
30-40	840.40
40-50	748.17
50-60	483.87
60-70	198.51
70-80	47.07
80-90	11.62
90-100	98.30
100-110	335.21
110-120	549.32
120-130	620.83
130-140	584.78
140-150	494.22
150-160	382.58
160-170	243.44
170-180	82.77

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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	100	96	92	89	92	89	86	83	76	74	72	65	63	62	54	53	52	47
2	92	85	79	75	85	79	74	70	68	65	62	58	56	53	49	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	46	44	42	40	36
4	78	68	60	55	72	63	57	52	55	50	46	47	44	41	40	37	35	32
5	72	61	53	47	66	57	50	45	50	44	40	43	39	36	36	34	31	28
6	66	55	47	42	61	51	45	40	45	40	36	39	35	32	33	30	28	25
7	61	50	42	37	57	47	40	35	41	36	32	36	32	28	31	28	25	23
8	57	45	38	33	53	43	36	31	38	32	28	33	29	26	28	25	23	20
9	53	42	34	29	50	39	33	28	35	29	26	30	26	23	26	23	21	19
10	50	38	31	27	46	36	30	26	32	27	23	28	24	21	24	21	19	17

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**UGR TABLE - CORRECTED**

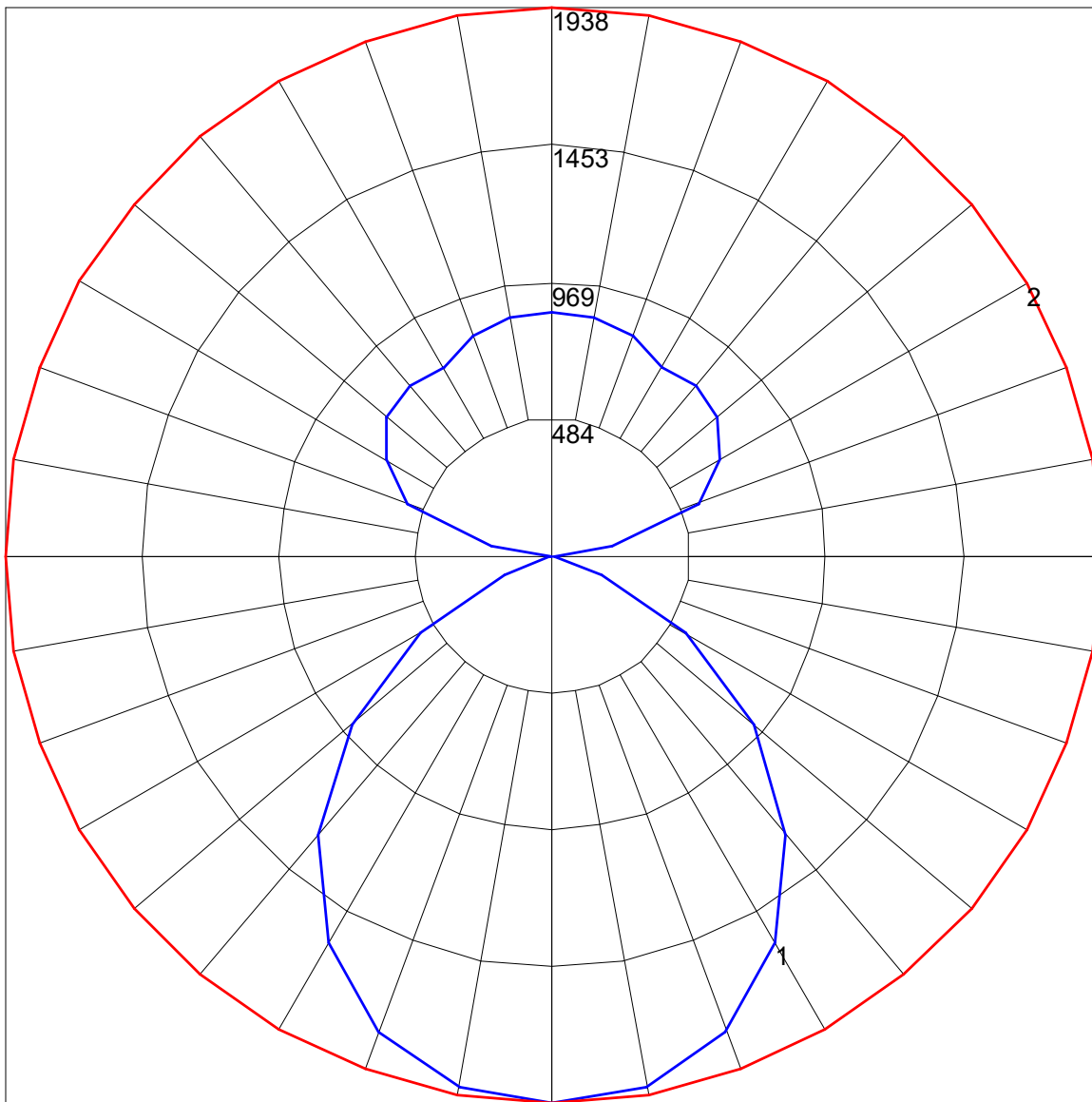
Reflectances

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	10.7	11.5	11.6	12.4	13.7	6.8	6.8	6.8	7.5	8.8
	3H	11.3	12.0	12.3	13.0	14.3	6.8	6.8	6.8	7.5	8.7
	4H	11.4	12.1	12.4	13.1	14.3	6.8	6.8	6.8	7.4	8.6
	6H	11.4	12.0	12.4	13.0	14.2	6.8	6.8	6.8	7.2	8.5
	8H	11.3	11.9	12.3	12.9	14.2	6.8	6.8	6.8	7.2	8.4
	12H	11.3	11.8	12.3	12.8	14.1	6.8	6.8	6.8	7.1	8.4
4H	2H	10.5	11.2	11.5	12.2	13.5	6.8	6.8	7.1	7.8	9.1
	3H	11.2	11.8	12.2	12.8	14.1	6.8	6.8	7.2	7.7	9.0
	4H	11.4	11.9	12.3	12.9	14.2	6.8	6.8	7.1	7.6	8.9
	6H	11.3	11.8	12.3	12.8	14.1	6.8	6.8	7.1	7.5	8.8
	8H	11.3	11.7	12.3	12.7	14.0	6.8	6.8	7.0	7.4	8.7
	12H	11.2	11.6	12.2	12.6	13.9	6.8	6.8	7.0	7.4	8.7
8H	4H	11.2	11.6	12.2	12.6	13.9	6.8	6.8	7.1	7.5	8.8
	6H	11.2	11.5	12.2	12.6	13.9	6.8	6.8	7.1	7.4	8.7
	8H	11.1	11.4	12.2	12.5	13.8	6.8	6.8	7.0	7.3	8.7
	12H	11.1	11.4	12.1	12.4	13.8	6.8	6.8	7.0	7.3	8.7
12H	4H	11.2	11.5	12.2	12.5	13.9	6.8	6.8	7.0	7.4	8.7
	6H	11.1	11.4	12.2	12.4	13.8	6.8	6.8	7.0	7.3	8.7
	8H	11.1	11.3	12.1	12.4	13.7	6.8	6.8	7.0	7.3	8.6

Maximum UGR = 14.3

POLAR GRAPH



Maximum Candela = 1937.501 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)