



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-6040-FB-VHO-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L445 VHO NW  
 [TESTLAB] Dekko  
 [TESTDATE] 04-10-2017  
 [ISSUEDATE] 9/2/2020  
 [MANUFAC]LSI INDUSTRIES, INC.  
 [LUMCAT]CURV-4-LED-6040-FB-VHO-40  
 [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	4934
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	71.9
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	2843	2509	2430
55	2323	1776	1493
65	1553	940	651
75	835	544	442
85	1233	1227	1131

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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>	985.260	985.260	985.260	985.260	985.260	985.260	985.260	985.260	985.260	985.260
<b>10</b>	975.618	969.880	968.665	966.632	964.008	962.404	960.333	957.126	957.206	956.490
<b>20</b>	911.147	908.774	904.640	899.161	893.365	885.860	881.414	876.047	872.926	872.375
<b>30</b>	797.047	794.332	784.172	770.198	762.180	758.317	759.239	757.256	755.886	755.980
<b>40</b>	652.539	646.553	627.093	609.851	597.027	594.127	594.847	596.977	595.236	596.179
<b>50</b>	469.040	458.855	434.239	415.379	400.847	387.702	375.921	368.305	363.928	362.635
<b>60</b>	274.335	261.854	235.596	213.227	188.840	159.086	134.946	121.705	117.788	115.162
<b>70</b>	91.760	86.487	75.378	59.404	49.303	45.870	43.092	40.135	38.812	38.344
<b>80</b>	28.758	29.948	30.636	31.010	31.192	30.618	30.062	28.645	26.127	25.481
<b>90</b>	31.211	31.170	31.072	30.466	29.358	28.125	27.200	27.293	29.571	29.510
<b>100</b>	219.729	229.233	223.662	233.051	229.166	215.021	197.800	175.339	162.175	154.907
<b>110</b>	488.316	511.767	500.966	489.199	464.827	437.469	398.806	365.387	311.641	293.046
<b>120</b>	606.808	632.325	622.835	609.766	591.556	551.682	519.184	477.255	410.962	407.913
<b>130</b>	674.963	684.151	690.014	671.553	655.558	631.636	598.688	532.190	500.734	501.072
<b>140</b>	704.307	709.249	726.374	717.107	695.812	667.284	612.489	567.031	568.343	569.559
<b>150</b>	707.810	713.894	707.845	709.534	675.987	625.754	608.207	609.603	613.231	615.072
<b>160</b>	609.399	611.078	616.422	620.010	624.191	628.708	631.899	635.226	638.303	639.050
<b>170</b>	620.735	620.401	622.590	626.564	630.296	633.517	636.688	638.147	639.365	640.264
<b>180</b>	629.114	629.114	629.114	629.114	629.114	629.114	629.114	629.114	629.114	629.114

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	355.79	N.A.	7.20
0-30	739.77	N.A.	15.00
0-40	1172.67	N.A.	23.80
0-60	1826.11	N.A.	37.00
0-80	1988.83	N.A.	40.30
0-90	2020.96	N.A.	41.00
10-90	1927.94	N.A.	39.10
20-40	816.88	N.A.	16.60
20-50	1208.71	N.A.	24.50
40-70	770.97	N.A.	15.60
60-80	162.72	N.A.	3.30
70-80	45.19	N.A.	0.90
80-90	32.12	N.A.	0.70
90-110	464.73	N.A.	9.40
90-120	949.66	N.A.	19.20
90-130	1471.78	N.A.	29.80
90-150	2377.28	N.A.	48.20
90-180	2912.65	N.A.	59.00
110-180	2447.92	N.A.	49.60
0-180	4933.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	93.01
10-20	262.78
20-30	383.97
30-40	432.90
40-50	391.83
50-60	261.61
60-70	117.53
70-80	45.19
80-90	32.12
90-100	128.34
100-110	336.39
110-120	484.93
120-130	522.12
130-140	492.77
140-150	412.73
150-160	297.15
160-170	178.08
170-180	60.14

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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	96	92	89	86	88	84	81	79	70	67	66	56	54	53	43	42	42	36
2	88	82	76	71	80	75	70	66	62	58	55	50	48	46	39	37	36	31
3	81	72	65	60	74	66	60	56	55	51	47	45	42	39	35	33	32	27
4	74	64	57	51	68	59	53	48	49	45	41	40	37	34	32	30	28	24
5	68	58	50	44	62	53	46	41	44	39	36	36	33	30	29	26	25	21
6	63	52	44	39	58	48	41	36	40	35	31	33	29	27	26	24	22	19
7	59	47	39	34	53	43	37	32	37	31	28	30	26	24	24	22	20	17
8	54	43	35	30	50	39	33	28	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	25	31	26	22	26	22	19	21	18	16	14
10	47	36	29	24	43	33	27	23	28	23	20	24	20	17	19	17	15	13

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**UGR TABLE - CORRECTED**

Reflectances

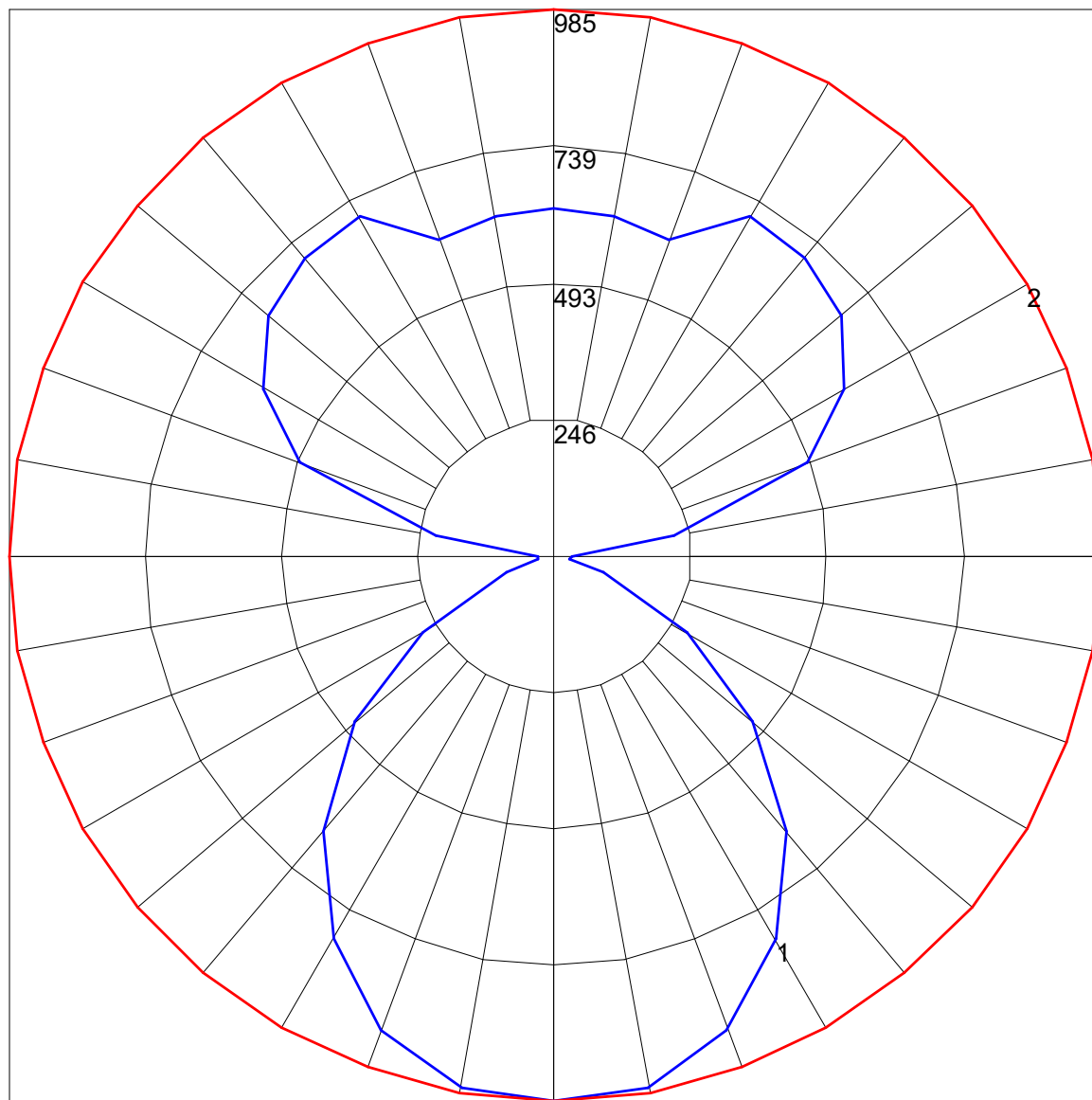
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	9.3	10.0	10.3	11.0	12.4	UGR Viewed Endwise				
	3H	9.9	10.6	11.0	11.6	13.1	6.0	6.7	7.0	7.8	9.2
	4H	10.1	10.7	11.2	11.8	13.2	6.3	6.9	7.3	8.0	9.4
	6H	10.2	10.8	11.3	11.8	13.3	6.4	7.0	7.5	8.1	9.5
	8H	10.2	10.8	11.3	11.9	13.3	6.6	7.2	7.7	8.2	9.7
	12H	10.4	10.9	11.4	11.9	13.4	6.8	7.3	7.8	8.4	9.8
							7.1	7.6	8.1	8.6	10.1
4H	2H	9.2	9.8	10.3	10.9	12.3	6.3	6.9	7.4	8.0	9.4
	3H	9.9	10.5	11.0	11.5	13.0	6.7	7.2	7.8	8.3	9.7
	4H	10.2	10.7	11.3	11.8	13.2	6.9	7.4	8.0	8.5	9.9
	6H	10.4	10.8	11.5	11.9	13.4	7.2	7.6	8.3	8.7	10.2
	8H	10.5	10.9	11.6	12.0	13.4	7.5	7.9	8.6	9.0	10.4
	12H	10.7	11.1	11.8	12.2	13.6	7.9	8.3	9.1	9.4	10.9
8H	4H	10.1	10.5	11.2	11.6	13.1	7.0	7.4	8.1	8.5	10.0
	6H	10.4	10.7	11.5	11.9	13.3	7.5	7.9	8.7	9.0	10.4
	8H	10.6	10.9	11.8	12.0	13.5	8.0	8.2	9.1	9.4	10.8
	12H	11.0	11.3	12.1	12.4	13.9	8.7	8.9	9.8	10.0	11.5
12H	4H	10.1	10.4	11.2	11.5	13.0	7.0	7.4	8.1	8.5	9.9
	6H	10.4	10.7	11.5	11.8	13.3	7.6	7.9	8.7	9.0	10.5
	8H	10.7	10.9	11.8	12.0	13.6	8.1	8.4	9.3	9.5	11.0

Maximum UGR = 13.9

POLAR GRAPH



Maximum Candela = 985.26 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.)