



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L445 HO NW 60 40  
 [TESTLAB] Dekko  
 [TESTDATE] 04-10-2017  
 [ISSUEDATE] 9/2/2020  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] CURV-4-LED-6040-FB-HO-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	3345
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	48.5
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	1927	1701	1648
55	1575	1204	1012
65	1053	637	441
75	566	369	300
85	836	832	767

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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>	667.973	667.973	667.973	667.973	667.973	667.973	667.973	667.973	667.973	667.973
<b>10</b>	661.436	657.546	656.722	655.344	653.565	652.477	651.073	648.899	648.953	648.468
<b>20</b>	617.727	616.118	613.315	609.601	605.671	600.583	597.569	593.930	591.814	591.441
<b>30</b>	540.371	538.530	531.642	522.168	516.732	514.113	514.738	513.394	512.465	512.529
<b>40</b>	442.399	438.341	425.148	413.458	404.764	402.798	403.286	404.730	403.550	404.189
<b>50</b>	317.993	311.088	294.399	281.613	271.761	262.849	254.862	249.698	246.731	245.854
<b>60</b>	185.990	177.528	159.726	144.561	128.027	107.855	91.489	82.512	79.856	78.076
<b>70</b>	62.210	58.635	51.104	40.274	33.426	31.098	29.215	27.210	26.313	25.996
<b>80</b>	19.497	20.304	20.770	21.024	21.147	20.758	20.381	19.420	17.713	17.275
<b>90</b>	21.160	21.132	21.066	20.655	19.904	19.068	18.441	18.504	20.048	20.007
<b>100</b>	148.969	155.412	151.635	158.001	155.367	145.777	134.102	118.874	109.949	105.022
<b>110</b>	331.062	346.961	339.638	331.660	315.137	296.589	270.377	247.720	211.282	198.675
<b>120</b>	411.395	428.695	422.261	413.401	401.055	374.022	351.989	323.563	278.618	276.551
<b>130</b>	457.602	463.831	467.806	455.290	444.446	428.228	405.890	360.807	339.481	339.710
<b>140</b>	477.496	480.847	492.457	486.174	471.737	452.396	415.247	384.428	385.317	386.142
<b>150</b>	479.871	483.996	479.895	481.040	458.296	424.240	412.344	413.290	415.750	416.998
<b>160</b>	413.152	414.290	417.913	420.346	423.180	426.243	428.406	430.662	432.748	433.254
<b>170</b>	420.837	420.611	422.095	424.789	427.319	429.503	431.653	432.642	433.468	434.077
<b>180</b>	426.518	426.518	426.518	426.518	426.518	426.518	426.518	426.518	426.518	426.518

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	241.21	N.A.	7.20
0-30	501.54	N.A.	15.00
0-40	795.03	N.A.	23.80
0-60	1238.04	N.A.	37.00
0-80	1348.36	N.A.	40.30
0-90	1370.14	N.A.	41.00
10-90	1307.08	N.A.	39.10
20-40	553.82	N.A.	16.60
20-50	819.46	N.A.	24.50
40-70	522.69	N.A.	15.60
60-80	110.32	N.A.	3.30
70-80	30.64	N.A.	0.90
80-90	21.78	N.A.	0.70
90-110	315.07	N.A.	9.40
90-120	643.84	N.A.	19.20
90-130	997.82	N.A.	29.80
90-150	1611.72	N.A.	48.20
90-180	1974.68	N.A.	59.00
110-180	1659.61	N.A.	49.60
0-180	3344.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	63.06
10-20	178.15
20-30	260.32
30-40	293.49
40-50	265.65
50-60	177.36
60-70	79.68
70-80	30.64
80-90	21.78
90-100	87.01
100-110	228.06
110-120	328.77
120-130	353.98
130-140	334.08
140-150	279.82
150-160	201.46
160-170	120.73
170-180	40.77

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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	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

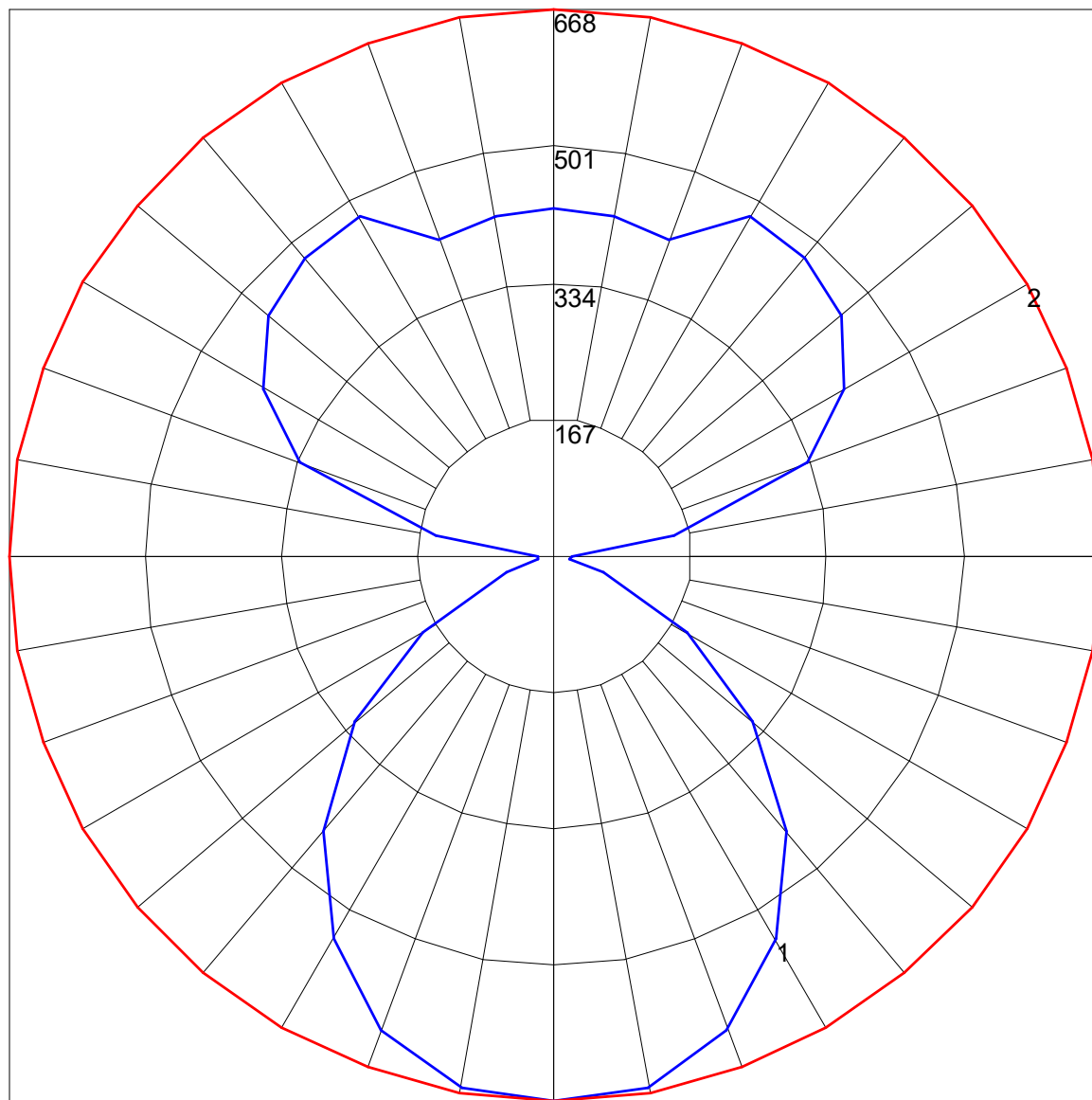
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	8.0	8.7	9.0	9.7	11.1	UGR Viewed Endwise				
	3H	8.6	9.3	9.7	10.3	11.8	4.7	5.4	5.7	6.5	7.8
	4H	8.8	9.4	9.9	10.5	11.9	5.0	5.6	6.0	6.7	8.1
	6H	8.9	9.5	10.0	10.5	12.0	5.1	5.7	6.2	6.8	8.2
	8H	8.9	9.5	10.0	10.6	12.0	5.3	5.9	6.4	6.9	8.4
	12H	9.1	9.6	10.1	10.6	12.1	5.5	6.0	6.5	7.1	8.5
4H							5.8	6.3	6.8	7.3	8.8
	2H	7.9	8.5	9.0	9.6	11.0	5.0	5.6	6.1	6.7	8.1
	3H	8.6	9.2	9.7	10.2	11.7	5.4	5.9	6.5	7.0	8.4
	4H	8.9	9.4	10.0	10.5	11.9	5.6	6.1	6.7	7.2	8.6
	6H	9.1	9.5	10.2	10.6	12.1	5.9	6.3	7.0	7.4	8.9
	8H	9.2	9.6	10.3	10.7	12.1	6.2	6.6	7.3	7.7	9.1
8H	12H	9.4	9.8	10.5	10.9	12.3	6.6	7.0	7.8	8.1	9.6
	4H	8.8	9.2	9.9	10.3	11.8	5.7	6.1	6.8	7.2	8.7
	6H	9.1	9.4	10.2	10.6	12.0	6.2	6.6	7.4	7.7	9.1
	8H	9.3	9.6	10.4	10.7	12.2	6.7	6.9	7.8	8.1	9.5
12H	12H	9.7	10.0	10.8	11.1	12.6	7.3	7.6	8.5	8.7	10.2
	4H	8.8	9.1	9.9	10.2	11.7	5.7	6.1	6.8	7.2	8.6
	6H	9.1	9.4	10.2	10.5	12.0	6.3	6.6	7.4	7.7	9.2
	8H	9.4	9.6	10.5	10.7	12.3	6.8	7.1	8.0	8.2	9.7

Maximum UGR = 12.6

POLAR GRAPH



Maximum Candela = 667.973 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.)