



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-5050-FB-HO-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L445 HO NW 50 50  
[TESTLAB] Dekko  
[TESTDATE] 04-05-2017  
[ISSUEDATE] 9/2/2020  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] CURV-4-LED-5050-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	2590
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
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	2032	1750	1534
55	1661	1199	821
65	1113	552	254
75	489	159	87
85	120	182	124

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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>	700.192	700.192	700.192	700.192	700.192	700.192	700.192	700.192	700.192	700.192
<b>10</b>	690.409	690.010	689.143	686.886	685.254	682.817	679.545	676.498	673.791	671.445
<b>20</b>	647.317	646.853	645.292	640.111	632.990	624.533	618.157	613.247	608.717	605.345
<b>30</b>	570.550	569.062	561.837	549.877	541.219	536.279	530.791	525.625	519.484	515.773
<b>40</b>	465.415	462.403	447.246	431.896	421.889	415.361	411.181	406.942	399.073	392.655
<b>50</b>	336.275	330.623	311.233	293.872	278.852	264.466	248.262	235.029	222.423	212.710
<b>60</b>	195.208	189.560	169.521	147.107	124.895	99.343	76.838	63.519	55.763	49.923
<b>70</b>	67.187	61.280	48.051	31.296	19.785	16.338	13.863	12.044	10.544	10.023
<b>80</b>	3.375	4.029	4.658	4.875	4.933	4.819	4.503	3.916	2.942	2.501
<b>90</b>	2.453	2.800	3.458	4.140	3.974	4.019	3.781	3.394	3.128	3.526
<b>100</b>	78.187	81.227	78.376	79.049	63.405	56.712	48.489	45.975	41.853	40.425
<b>110</b>	197.817	203.269	201.210	195.866	177.263	162.137	150.761	137.012	121.488	117.729
<b>120</b>	245.269	285.768	279.437	260.050	250.832	232.252	205.294	185.801	180.435	181.212
<b>130</b>	276.741	356.213	268.724	321.677	266.576	253.346	232.395	228.417	228.144	228.959
<b>140</b>	285.652	301.205	309.646	272.157	271.863	267.501	268.085	267.921	268.191	268.281
<b>150</b>	277.962	279.684	284.617	287.394	291.409	294.267	295.958	296.408	296.382	298.043
<b>160</b>	297.858	298.027	301.612	305.244	307.435	309.360	310.757	311.918	312.383	313.684
<b>170</b>	310.229	309.356	310.417	312.587	313.747	314.747	315.276	316.520	316.666	318.926
<b>180</b>	312.921	312.921	312.921	312.921	312.921	312.921	312.921	312.921	312.921	312.921

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	251.85	N.A.	9.70
0-30	522.72	N.A.	20.20
0-40	826.43	N.A.	31.90
0-60	1271.67	N.A.	49.10
0-80	1360.42	N.A.	52.50
0-90	1364.62	N.A.	52.70
10-90	1298.62	N.A.	50.10
20-40	574.58	N.A.	22.20
20-50	844.96	N.A.	32.60
40-70	516.98	N.A.	20.00
60-80	88.75	N.A.	3.40
70-80	17.01	N.A.	0.70
80-90	4.20	N.A.	0.20
90-110	156.67	N.A.	6.00
90-120	355.18	N.A.	13.70
90-130	579.55	N.A.	22.40
90-150	969.48	N.A.	37.40
90-180	1225.63	N.A.	47.30
110-180	1068.96	N.A.	41.30
0-180	2590.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	66.01
10-20	185.85
20-30	270.87
30-40	303.71
40-50	270.38
50-60	174.86
60-70	71.74
70-80	17.01
80-90	4.20
90-100	35.52
100-110	121.14
110-120	198.52
120-130	224.36
130-140	211.33
140-150	178.61
150-160	138.26
160-170	87.98
170-180	29.91

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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

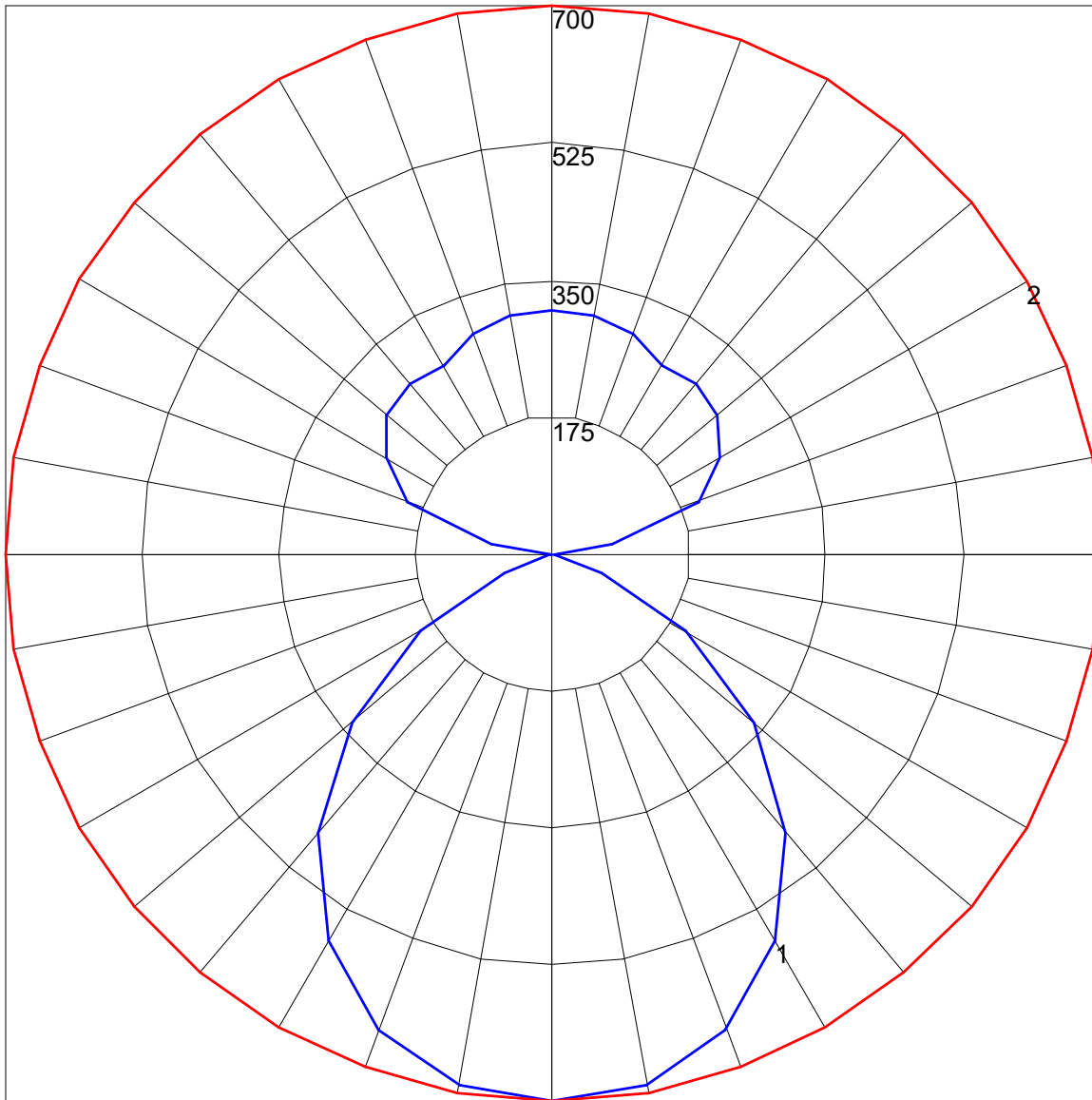
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**UGR TABLE - CORRECTED**

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	9.6	10.4	10.5	11.3	12.6	4.7	5.5	5.6	6.4	7.7
	3H	10.2	11.0	11.2	11.9	13.2	4.7	5.4	5.6	6.4	7.6
	4H	10.3	11.0	11.3	12.0	13.2	4.6	5.3	5.6	6.3	7.5
	6H	10.3	10.9	11.3	11.9	13.2	4.5	5.2	5.5	6.1	7.4
	8H	10.2	10.8	11.2	11.8	13.1	4.5	5.1	5.5	6.1	7.4
	12H	10.2	10.7	11.2	11.7	13.0	4.5	5.0	5.5	6.0	7.3
4H	2H	9.4	10.1	10.4	11.1	12.4	5.0	5.7	6.0	6.7	8.0
	3H	10.1	10.7	11.1	11.7	13.0	5.1	5.6	6.1	6.6	7.9
	4H	10.3	10.8	11.3	11.8	13.1	5.0	5.5	6.0	6.5	7.8
	6H	10.2	10.7	11.2	11.7	13.0	5.0	5.4	6.0	6.4	7.7
	8H	10.2	10.6	11.2	11.6	12.9	4.9	5.3	5.9	6.3	7.7
	12H	10.1	10.5	11.2	11.5	12.8	4.9	5.3	5.9	6.3	7.6
8H	4H	10.1	10.5	11.1	11.5	12.9	5.0	5.4	6.0	6.4	7.7
	6H	10.1	10.4	11.1	11.5	12.8	4.9	5.3	6.0	6.3	7.6
	8H	10.1	10.3	11.1	11.4	12.7	4.9	5.2	6.0	6.2	7.6
	12H	10.0	10.3	11.0	11.3	12.7	4.9	5.2	6.0	6.2	7.6
12H	4H	10.1	10.4	11.1	11.4	12.8	4.9	5.3	6.0	6.3	7.6
	6H	10.0	10.3	11.1	11.4	12.7	4.9	5.2	5.9	6.2	7.6
	8H	10.0	10.3	11.0	11.3	12.7	4.9	5.1	5.9	6.2	7.6

Maximum UGR = 13.2

POLAR GRAPH



Maximum Candela = 700.192 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.)