



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-FB-SS-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L445 HO SS  
 [TESTLAB] Dekko  
 [TESTDATE] 03-31-2017  
 [ISSUEDATE] 9/2/2020  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] CURV-4-LED-FB-SS-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	4611
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	40.6
Ballast Factor	1.00
CIE Type	Indirect
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	474	390	313
55	419	290	166
65	344	172	51
75	271	138	28
85	397	334	97

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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>	142.360	142.360	142.360	142.360	142.360	142.360	142.360	142.360	142.360	142.360
<b>10</b>	141.273	142.088	142.642	141.996	141.207	139.938	138.503	137.717	136.821	136.020
<b>20</b>	135.936	136.942	136.588	134.646	131.921	129.516	127.461	125.617	124.449	123.303
<b>30</b>	123.609	125.360	122.514	118.149	115.079	113.099	111.109	109.243	107.322	105.711
<b>40</b>	105.755	107.176	102.659	96.270	92.696	89.832	87.742	85.532	82.927	80.254
<b>50</b>	81.087	81.390	76.928	70.201	64.852	60.042	55.071	50.929	46.716	43.317
<b>60</b>	52.977	52.043	47.536	41.927	34.171	26.730	19.884	14.898	11.990	9.859
<b>70</b>	28.085	27.034	22.997	16.396	11.282	8.946	7.287	5.201	3.464	2.145
<b>80</b>	11.104	11.864	11.526	11.393	10.404	9.205	8.003	5.885	3.673	1.839
<b>90</b>	8.202	8.129	7.777	7.455	6.794	6.128	5.241	4.332	3.335	2.868
<b>100</b>	222.140	214.364	207.806	204.773	190.064	170.065	150.337	127.174	94.079	79.114
<b>110</b>	854.306	835.210	803.450	755.574	699.935	633.853	548.835	433.574	305.833	243.379
<b>120</b>	1162.161	1149.066	1110.477	1045.758	970.159	864.430	743.834	613.273	480.880	422.909
<b>130</b>	1232.818	1208.030	1169.446	1112.818	1043.424	957.926	852.567	736.349	622.883	585.054
<b>140</b>	1215.485	1203.173	1178.692	1136.118	1076.861	1002.964	918.872	823.973	732.055	710.684
<b>150</b>	1180.815	1170.563	1149.808	1115.857	1072.780	1013.128	944.750	870.937	822.091	812.821
<b>160</b>	1106.554	1098.497	1083.335	1058.628	1025.895	985.249	942.465	908.387	888.997	888.480
<b>170</b>	996.962	991.662	985.371	976.097	965.089	954.982	944.263	935.993	933.908	935.039
<b>180</b>	953.408	953.408	953.408	953.408	953.408	953.408	953.408	953.408	953.408	953.408

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	51.84	N.A.	1.10
0-30	108.76	N.A.	2.40
0-40	174.17	N.A.	3.80
0-60	276.98	N.A.	6.00
0-80	310.48	N.A.	6.70
0-90	318.55	N.A.	6.90
10-90	305.07	N.A.	6.60
20-40	122.33	N.A.	2.70
20-50	182.83	N.A.	4.00
40-70	124.78	N.A.	2.70
60-80	33.49	N.A.	0.70
70-80	11.53	N.A.	0.30
80-90	8.07	N.A.	0.20
90-110	510.58	N.A.	11.10
90-120	1245.98	N.A.	27.00
90-130	2062.53	N.A.	44.70
90-150	3456.76	N.A.	75.00
90-180	4292.6	N.A.	93.10
110-180	3782.01	N.A.	82.00
0-180	4611.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	13.47
10-20	38.37
20-30	56.91
30-40	65.42
40-50	60.50
50-60	42.31
60-70	21.97
70-80	11.53
80-90	8.07
90-100	94.80
100-110	415.78
110-120	735.39
120-130	816.56
130-140	759.31
140-150	634.92
150-160	466.61
160-170	277.83
170-180	91.39

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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	97	97	97	97	84	84	84	84	59	59	59	37	37	37	17	17	17	7
1	88	84	81	77	76	73	70	67	52	50	48	32	32	31	15	14	14	6
2	80	74	68	63	69	64	59	55	45	43	40	29	27	26	13	12	12	5
3	73	65	58	52	63	56	51	46	40	37	34	25	23	22	12	11	10	4
4	67	57	50	44	58	50	44	39	35	32	29	22	20	19	10	9	9	4
5	61	51	43	38	53	44	38	33	32	28	24	20	18	16	9	8	8	3
6	56	45	38	32	48	39	33	29	28	24	21	18	16	14	8	7	7	3
7	52	40	33	28	45	35	29	25	25	21	18	16	14	12	8	7	6	3
8	48	36	29	24	41	32	26	22	23	19	16	15	12	11	7	6	5	2
9	44	33	26	21	38	29	23	19	21	17	14	13	11	9	6	5	5	2
10	41	30	23	19	36	26	21	17	19	15	13	12	10	8	6	5	4	2

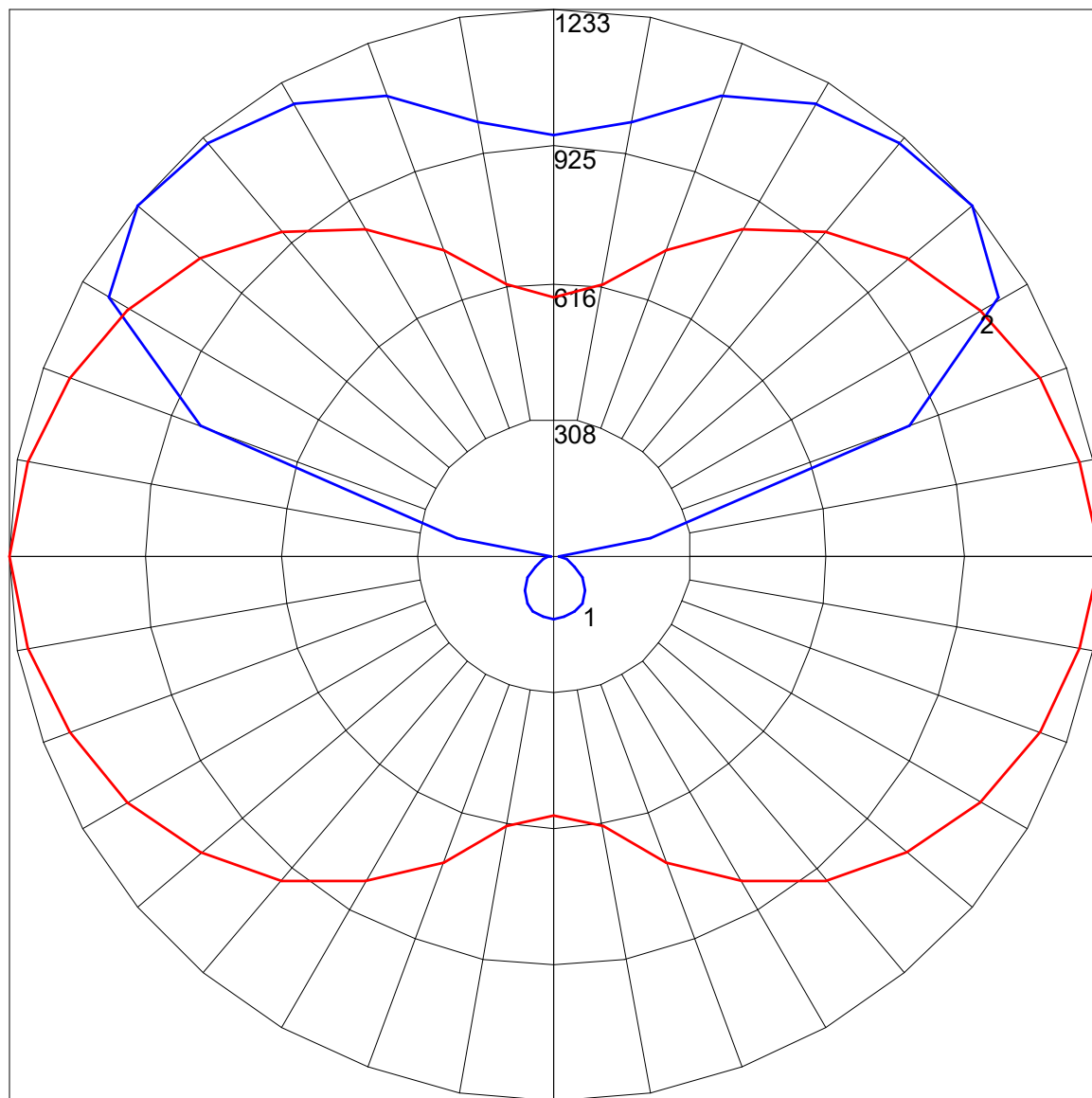
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**UGR TABLE - CORRECTED**

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	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	3H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	4H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	6H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	8H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	12H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
4H	2H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	3H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	4H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	6H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	8H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	12H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
8H	4H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	6H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	8H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	12H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
12H	4H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	6H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	8H	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3

Maximum UGR = 5.3

POLAR GRAPH



Maximum Candela = 1232.818 Located At Horizontal Angle = 0, Vertical Angle = 130  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)