



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L445 HO SS  
 [TESTLAB] Dekko  
 [TESTDATE] 03-31-2017  
 [ISSUE DATE] 9/2/2020  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] CURV-4-LED-FB-SS-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	4916
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	505	415	334
55	447	309	177
65	367	183	54
75	289	147	29
85	423	357	103

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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>	151.769	151.769	151.769	151.769	151.769	151.769	151.769	151.769	151.769	151.769
<b>10</b>	150.611	151.480	152.070	151.382	150.541	149.188	147.658	146.820	145.864	145.011
<b>20</b>	144.921	145.994	145.616	143.546	140.640	138.076	135.886	133.920	132.674	131.453
<b>30</b>	131.780	133.647	130.612	125.959	122.685	120.574	118.453	116.464	114.416	112.698
<b>40</b>	112.746	114.260	109.445	102.633	98.823	95.770	93.542	91.186	88.409	85.559
<b>50</b>	86.446	86.769	82.013	74.841	69.139	64.011	58.711	54.295	49.804	46.180
<b>60</b>	56.479	55.483	50.678	44.698	36.430	28.497	21.198	15.883	12.782	10.511
<b>70</b>	29.941	28.821	24.517	17.480	12.028	9.537	7.769	5.545	3.693	2.287
<b>80</b>	11.838	12.648	12.288	12.146	11.091	9.814	8.532	6.274	3.916	1.960
<b>90</b>	8.744	8.667	8.291	7.948	7.243	6.533	5.587	4.618	3.555	3.058
<b>100</b>	236.823	228.534	221.541	218.308	202.626	181.306	160.274	135.580	100.297	84.343
<b>110</b>	910.774	890.416	856.556	805.516	746.199	675.750	585.112	462.233	326.048	259.466
<b>120</b>	1238.978	1225.017	1183.877	1114.881	1034.284	921.567	793.000	653.809	512.666	450.863
<b>130</b>	1314.305	1287.878	1246.744	1186.374	1112.392	1021.243	908.920	785.020	664.054	623.725
<b>140</b>	1295.826	1282.701	1256.601	1211.213	1148.040	1069.258	979.607	878.436	780.443	757.659
<b>150</b>	1258.865	1247.935	1225.808	1189.613	1143.688	1080.094	1007.196	928.504	876.430	866.547
<b>160</b>	1179.695	1171.106	1154.941	1128.602	1093.705	1050.372	1004.760	968.429	947.758	947.207
<b>170</b>	1062.860	1057.209	1050.502	1040.615	1028.880	1018.104	1006.677	997.861	995.637	996.844
<b>180</b>	1016.427	1016.427	1016.427	1016.427	1016.427	1016.427	1016.427	1016.427	1016.427	1016.427

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	55.27	N.A.	1.10
0-30	115.94	N.A.	2.40
0-40	185.68	N.A.	3.80
0-60	295.29	N.A.	6.00
0-80	331.00	N.A.	6.70
0-90	339.60	N.A.	6.90
10-90	325.24	N.A.	6.60
20-40	130.42	N.A.	2.70
20-50	194.91	N.A.	4.00
40-70	133.03	N.A.	2.70
60-80	35.71	N.A.	0.70
70-80	12.29	N.A.	0.30
80-90	8.60	N.A.	0.20
90-110	544.33	N.A.	11.10
90-120	1328.33	N.A.	27.00
90-130	2198.86	N.A.	44.70
90-150	3685.24	N.A.	75.00
90-180	4576.33	N.A.	93.10
110-180	4032.00	N.A.	82.00
0-180	4915.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	14.36
10-20	40.90
20-30	60.68
30-40	69.74
40-50	64.50
50-60	45.11
60-70	23.42
70-80	12.29
80-90	8.60
90-100	101.07
100-110	443.27
110-120	784.00
120-130	870.53
130-140	809.50
140-150	676.88
150-160	497.45
160-170	296.20
170-180	97.43

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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

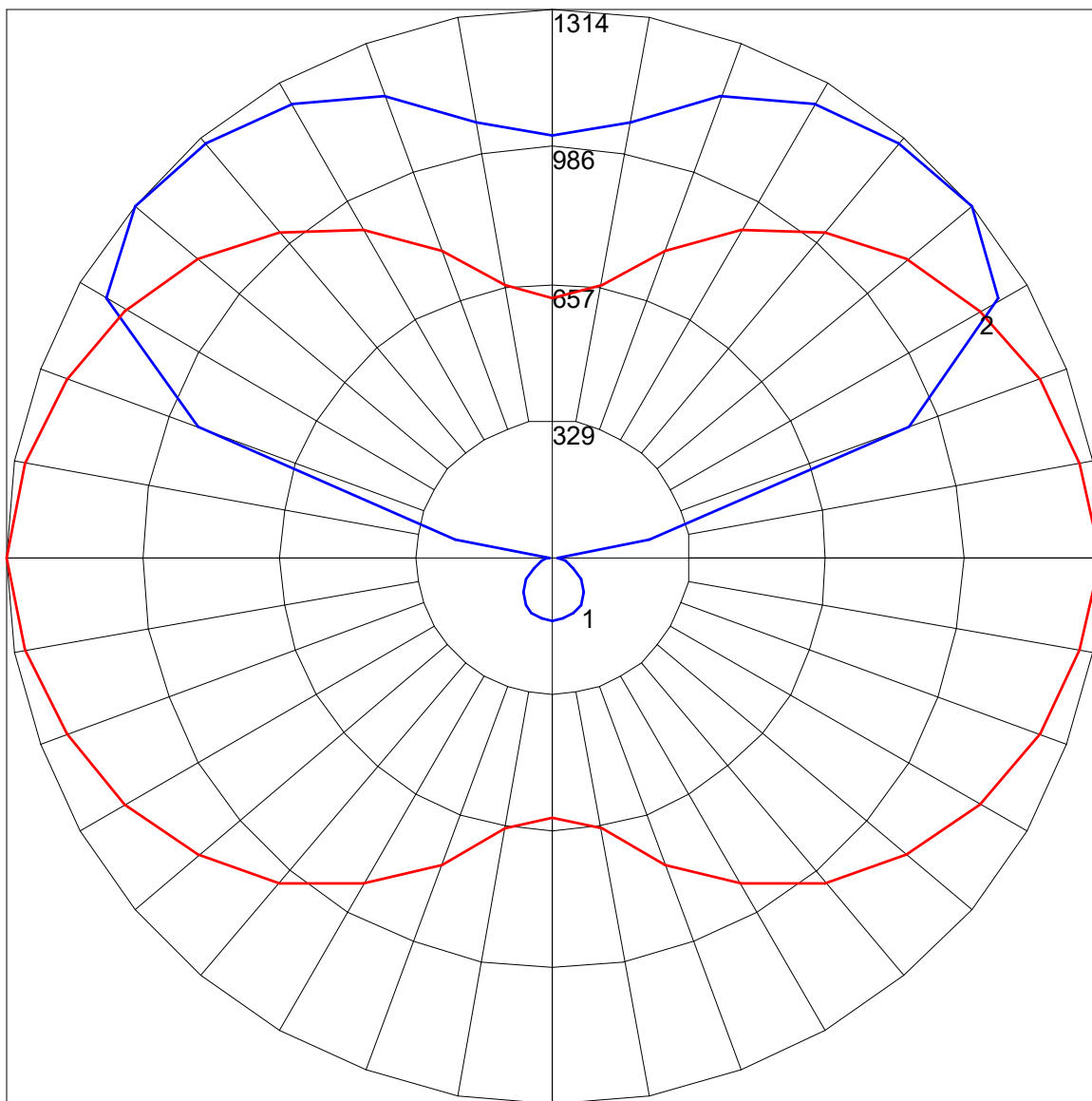
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**UGR TABLE - CORRECTED**

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	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	3H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	12H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
4H	2H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	3H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	12H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
8H	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	12H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
12H	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

Maximum UGR = 5.5

POLAR GRAPH



Maximum Candela = 1314.305 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.)