



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : OPT22-LED-FS1-34W-5000K.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11330\_scaled  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 12/04/19  
[TEST DATE] 10/08/19  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMEN CATEGORY] OPT22-LED-FS1-34W-5000K  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[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	4139
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3277	3441	3669
55	3117	3464	3970
65	2945	3677	4478
75	2711	4030	5100
85	2529	4257	4596

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1241	1241	1241	1241	1241
2.5	1270	1258	1243	1227	1222
5.0	1269	1257	1243	1227	1223
7.5	1267	1255	1240	1226	1221
10.0	1258	1249	1236	1223	1218
12.5	1249	1240	1229	1218	1214
15.0	1237	1229	1221	1211	1208
17.5	1222	1214	1209	1203	1201
20.0	1204	1199	1195	1192	1191
22.5	1184	1179	1178	1179	1179
25.0	1160	1157	1159	1163	1164
27.5	1132	1131	1137	1143	1147
30.0	1102	1101	1111	1122	1127
32.5	1068	1069	1083	1100	1106
35.0	1030	1033	1051	1073	1082
37.5	991	997	1016	1044	1054
40.0	949	956	981	1011	1025
42.5	907	914	943	981	995
45.0	862	869	905	947	965
47.5	810	822	865	914	935
50.0	763	777	822	880	905
52.5	715	730	781	847	877
55.0	665	683	739	814	847
57.5	616	634	698	780	818
60.0	564	586	658	745	783
62.5	515	538	619	709	745
65.0	463	490	578	667	704
67.5	411	439	535	622	656
70.0	358	393	491	570	605
72.5	310	344	440	516	549
75.0	261	300	388	455	491
77.5	215	253	333	394	423
80.0	169	207	275	323	340
82.5	126	159	210	239	248
85.0	82	107	138	146	149
87.5	41	51	65	59	55
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	463.42	N.A.	11.20
0-30	998.20	N.A.	24.10
0-40	1657.15	N.A.	40.00
0-60	3027.74	N.A.	73.20
0-80	3998.87	N.A.	96.60
0-90	4138.59	N.A.	100.00
10-90	4020.13	N.A.	97.10
20-40	1193.72	N.A.	28.80
20-50	1894.93	N.A.	45.80
40-70	1942.87	N.A.	46.90
60-80	971.12	N.A.	23.50
70-80	398.85	N.A.	9.60
80-90	139.72	N.A.	3.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4138.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	118.46
10-20	344.97
20-30	534.78
30-40	658.94
40-50	701.21
50-60	669.39
60-70	572.27
70-80	398.85
80-90	139.72
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

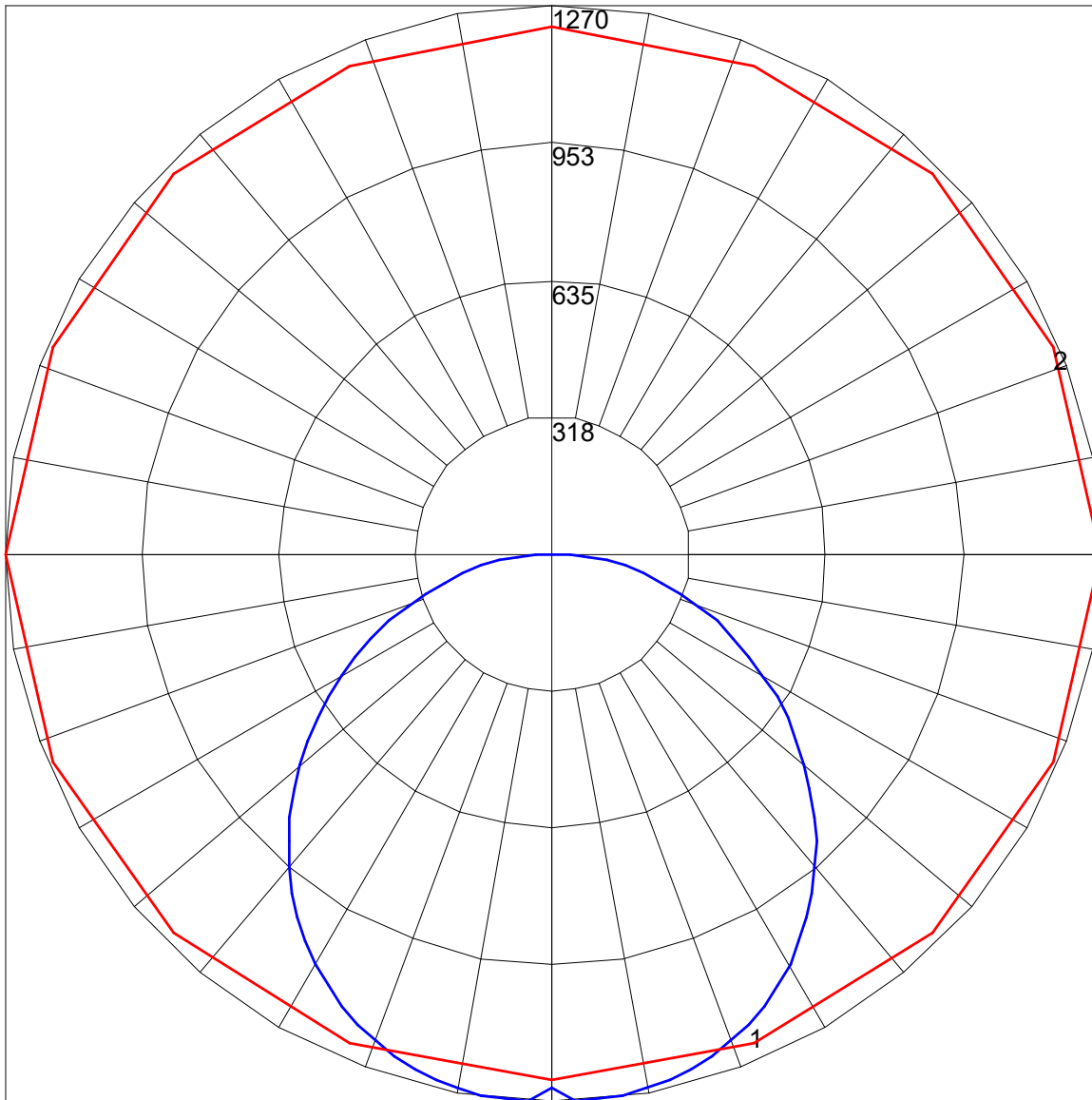
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	107	102	97	93	105	100	95	91	95	92	89	92	89	86	88	85	83	81
2	97	88	81	74	94	86	79	73	82	77	72	79	74	70	76	72	68	66
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	55
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	48	41	36	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

POLAR GRAPH



Maximum Candela = 1270 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)