



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : OPT24-LED-FS1-34W-4000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11307

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 12/04/19

[TEST DATE] 09/30/19

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] OPT24-LED-FS1-34W-4000K

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Indoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4509
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
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)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 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	1800	1867	1949
55	1727	1891	2107
65	1648	2023	2379
75	1527	2280	2711
85	1481	2637	2576

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : OPT24-LED-FS1-34W-4000K.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1333	1333	1333	1333	1333
<b>2.5</b>	1367	1345	1334	1325	1314
<b>5.0</b>	1366	1346	1334	1325	1314
<b>7.5</b>	1364	1343	1332	1323	1314
<b>10.0</b>	1357	1337	1327	1319	1311
<b>12.5</b>	1348	1329	1320	1314	1306
<b>15.0</b>	1336	1318	1310	1305	1298
<b>17.5</b>	1321	1304	1297	1295	1289
<b>20.0</b>	1303	1286	1282	1282	1277
<b>22.5</b>	1281	1266	1265	1266	1263
<b>25.0</b>	1255	1243	1244	1249	1246
<b>27.5</b>	1226	1217	1221	1228	1227
<b>30.0</b>	1195	1188	1194	1206	1205
<b>32.5</b>	1160	1156	1165	1180	1180
<b>35.0</b>	1122	1120	1133	1152	1151
<b>37.5</b>	1083	1082	1099	1121	1123
<b>40.0</b>	1040	1041	1063	1088	1091
<b>42.5</b>	994	998	1022	1053	1058
<b>45.0</b>	947	953	982	1018	1025
<b>47.5</b>	896	904	940	982	993
<b>50.0</b>	845	854	897	947	962
<b>52.5</b>	791	804	853	912	932
<b>55.0</b>	737	753	807	875	899
<b>57.5</b>	683	702	763	840	868
<b>60.0</b>	628	649	721	803	833
<b>62.5</b>	573	598	680	764	793
<b>65.0</b>	518	546	636	721	748
<b>67.5</b>	462	493	593	673	697
<b>70.0</b>	404	441	547	621	643
<b>72.5</b>	350	391	496	563	586
<b>75.0</b>	294	344	439	503	522
<b>77.5</b>	242	296	381	436	454
<b>80.0</b>	191	248	320	362	369
<b>82.5</b>	143	197	253	272	273
<b>85.0</b>	96	141	171	171	167
<b>87.5</b>	49	78	79	67	62
<b>90.0</b>	0	0	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : OPT24-LED-FS1-34W-4000K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	498.19	N.A.	11.00
0-30	1073.04	N.A.	23.80
0-40	1783.64	N.A.	39.60
0-60	3272.04	N.A.	72.60
0-80	4343.54	N.A.	96.30
0-90	4508.77	N.A.	100.00
10-90	4381.45	N.A.	97.20
20-40	1285.45	N.A.	28.50
20-50	2045.48	N.A.	45.40
40-70	2114.86	N.A.	46.90
60-80	1071.5	N.A.	23.80
70-80	445.04	N.A.	9.90
80-90	165.23	N.A.	3.70
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	4508.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	127.32
10-20	370.87
20-30	574.84
30-40	710.61
40-50	760.03
50-60	728.37
60-70	626.46
70-80	445.04
80-90	165.23
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

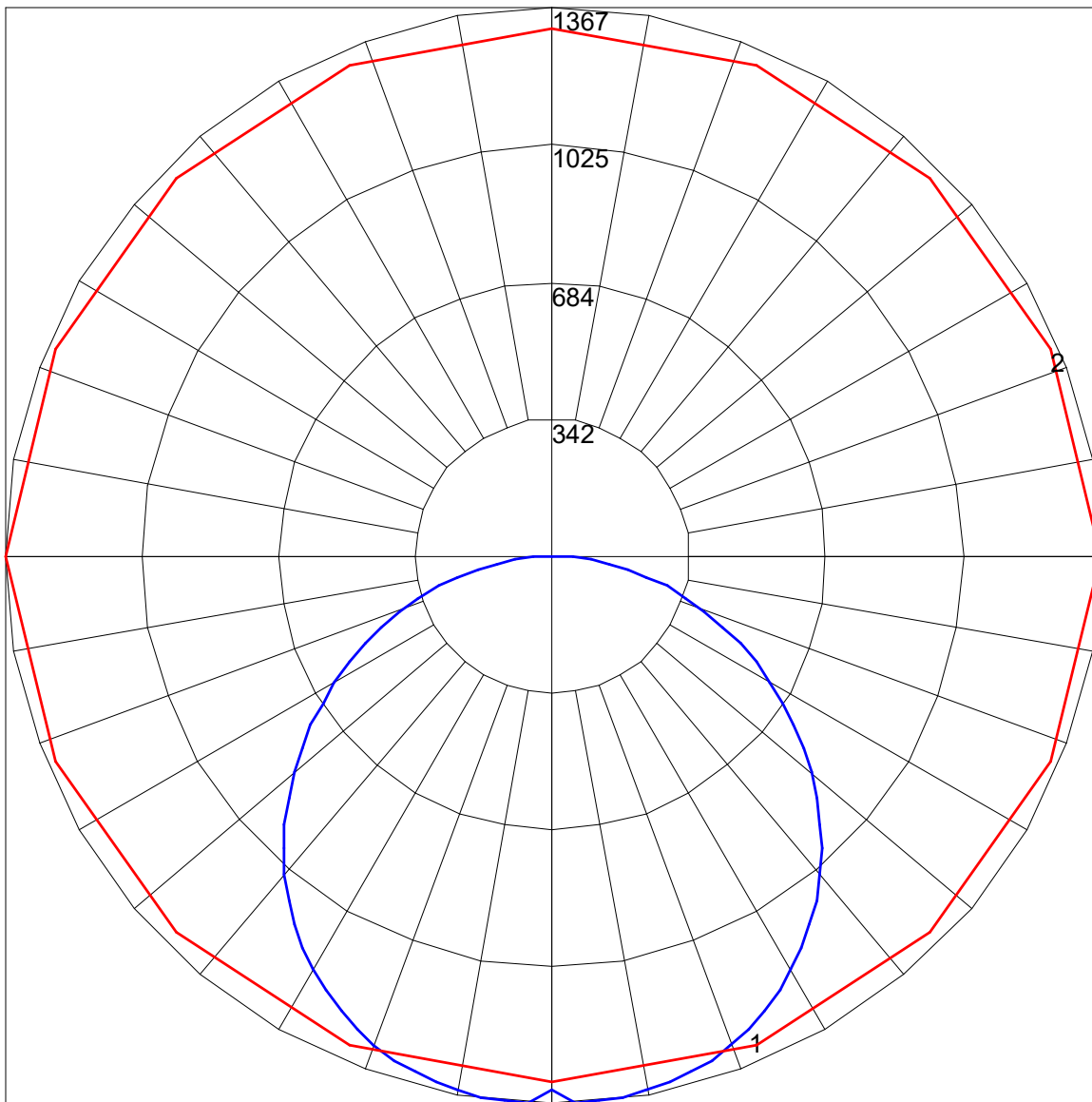
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : OPT24-LED-FS1-34W-4000K.IES**

**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	104	100	95	91	95	92	88	91	88	85	88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66
3	88	76	67	60	85	75	66	60	72	65	59	69	63	58	66	61	57	54
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41	39
6	68	54	44	37	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32	45	37	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	28	26
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

POLAR GRAPH



Maximum Candela = 1367 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.)