



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : OPT24-LED-FS1-30W-4000K.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11310  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 12/04/19  
[TEST DATE] 09/30/19  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMEN CATEGORY] OPT24-LED-FS1-30W-4000K  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCE TYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4066
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	30
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	1625	1684	1758
55	1561	1706	1901
65	1489	1823	2144
75	1382	2057	2457
85	1311	2375	2313

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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>
<b>0.0</b>	1203	1203	1203	1203	1203
<b>2.5</b>	1234	1214	1204	1195	1186
<b>5.0</b>	1234	1215	1204	1195	1187
<b>7.5</b>	1231	1212	1202	1194	1185
<b>10.0</b>	1225	1207	1197	1190	1182
<b>12.5</b>	1217	1199	1190	1184	1178
<b>15.0</b>	1206	1189	1182	1177	1171
<b>17.5</b>	1193	1176	1171	1168	1163
<b>20.0</b>	1177	1160	1157	1157	1152
<b>22.5</b>	1156	1142	1141	1143	1139
<b>25.0</b>	1132	1122	1123	1127	1124
<b>27.5</b>	1107	1099	1101	1108	1107
<b>30.0</b>	1078	1072	1078	1087	1086
<b>32.5</b>	1047	1042	1051	1064	1064
<b>35.0</b>	1013	1010	1023	1038	1039
<b>37.5</b>	977	976	992	1011	1011
<b>40.0</b>	938	939	958	982	983
<b>42.5</b>	897	901	923	950	955
<b>45.0</b>	855	861	886	919	925
<b>47.5</b>	808	815	848	886	896
<b>50.0</b>	763	770	808	854	868
<b>52.5</b>	714	725	768	821	840
<b>55.0</b>	666	679	728	789	811
<b>57.5</b>	617	633	689	757	783
<b>60.0</b>	567	586	650	724	752
<b>62.5</b>	517	540	612	689	715
<b>65.0</b>	468	492	573	650	674
<b>67.5</b>	415	443	535	607	629
<b>70.0</b>	365	397	493	560	580
<b>72.5</b>	314	352	446	507	527
<b>75.0</b>	266	310	396	453	473
<b>77.5</b>	218	267	343	394	408
<b>80.0</b>	173	224	289	324	335
<b>82.5</b>	129	178	226	244	245
<b>85.0</b>	85	127	154	154	150
<b>87.5</b>	44	68	71	60	55
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	449.50	N.A.	11.10
0-30	968.20	N.A.	23.80
0-40	1609.13	N.A.	39.60
0-60	2951.74	N.A.	72.60
0-80	3917.56	N.A.	96.40
0-90	4065.95	N.A.	100.00
10-90	3951.05	N.A.	97.20
20-40	1159.63	N.A.	28.50
20-50	1845.41	N.A.	45.40
40-70	1907.36	N.A.	46.90
60-80	965.81	N.A.	23.80
70-80	401.06	N.A.	9.90
80-90	148.39	N.A.	3.60
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	4065.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	114.90
10-20	334.60
20-30	518.70
30-40	640.94
40-50	685.78
50-60	656.84
60-70	564.75
70-80	401.06
80-90	148.39
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

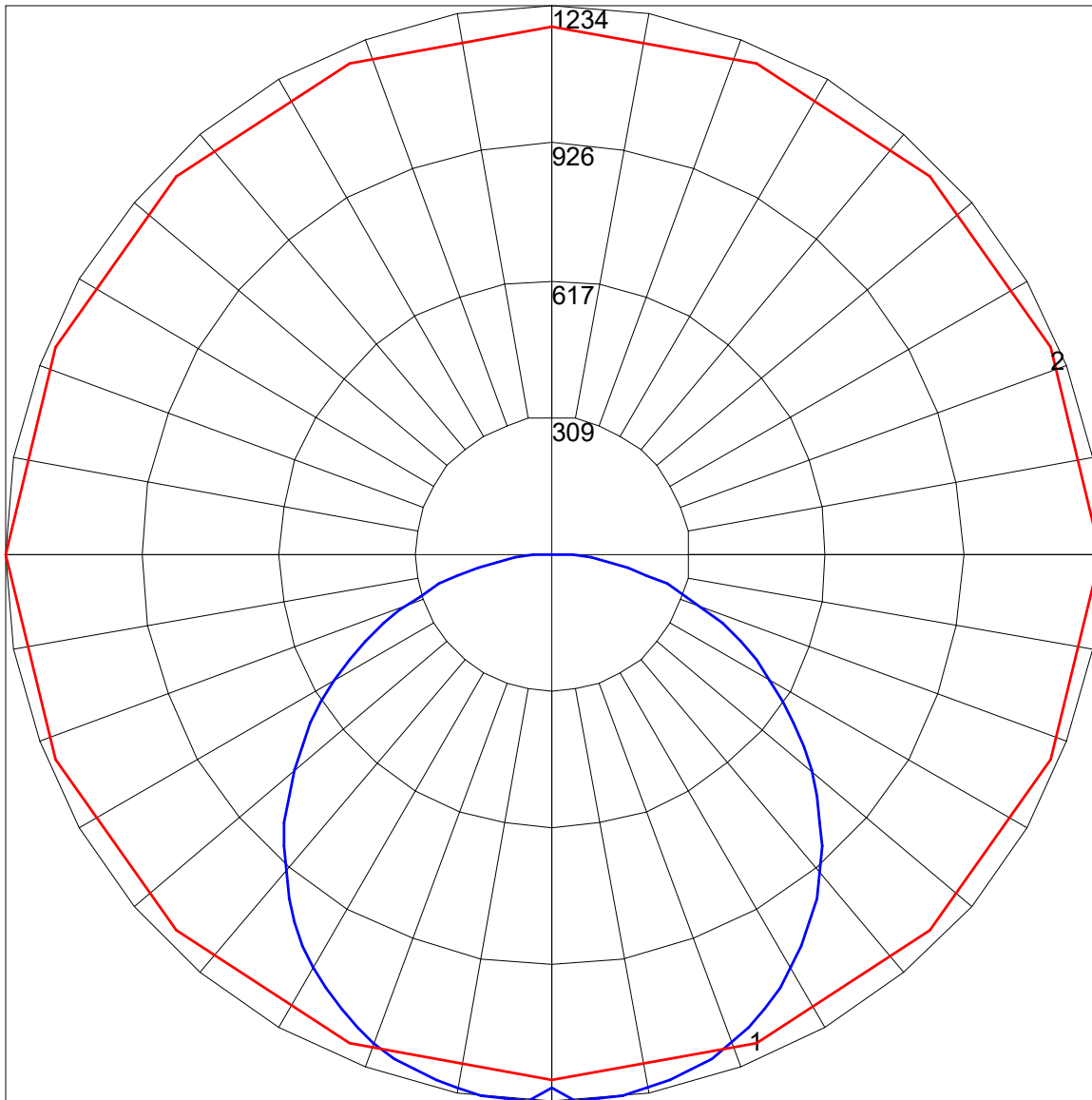
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	100	95	91	95	92	88	91	88	86	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 = 1234 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.)