



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : OPT24-LED-FS2-38W-5000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11310\_scaled

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 12/04/19

[TESTDATE] 09/30/19

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] OPT24-LED-FS2-38W-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	5130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	38
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	2051	2125	2218
55	1969	2154	2397
65	1877	2300	2704
75	1745	2597	3101
85	1650	2992	2915

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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	1518	1518	1518	1518	1518
2.5	1557	1532	1519	1508	1496
5.0	1557	1533	1519	1508	1498
7.5	1553	1529	1517	1506	1495
10.0	1546	1523	1510	1501	1491
12.5	1535	1513	1501	1494	1486
15.0	1522	1500	1491	1485	1477
17.5	1505	1484	1477	1474	1467
20.0	1485	1464	1460	1460	1453
22.5	1459	1441	1440	1442	1437
25.0	1428	1416	1417	1422	1418
27.5	1397	1387	1389	1398	1397
30.0	1360	1353	1360	1371	1370
32.5	1321	1315	1326	1342	1342
35.0	1278	1274	1291	1310	1311
37.5	1233	1231	1252	1276	1276
40.0	1183	1185	1209	1239	1240
42.5	1132	1137	1165	1199	1205
45.0	1079	1086	1118	1159	1167
47.5	1019	1028	1070	1118	1130
50.0	963	971	1019	1077	1095
52.5	901	915	969	1036	1060
55.0	840	857	919	995	1023
57.5	778	799	869	955	988
60.0	715	739	820	913	949
62.5	652	681	772	869	902
65.0	590	621	723	820	850
67.5	524	559	675	766	794
70.0	461	501	622	707	732
72.5	396	444	563	640	665
75.0	336	391	500	572	597
77.5	275	337	433	497	515
80.0	218	283	365	409	423
82.5	163	225	285	308	309
85.0	107	160	194	194	189
87.5	56	86	90	76	69
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	567.11	N.A.	11.10
0-30	1221.6	N.A.	23.80
0-40	2030.3	N.A.	39.60
0-60	3724.19	N.A.	72.60
0-80	4942.9	N.A.	96.30
0-90	5130.19	N.A.	100.00
10-90	4985.22	N.A.	97.20
20-40	1463.19	N.A.	28.50
20-50	2328.4	N.A.	45.40
40-70	2406.4	N.A.	46.90
60-80	1218.7	N.A.	23.80
70-80	506.20	N.A.	9.90
80-90	187.29	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	5130.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	144.97
10-20	422.14
20-30	654.49
30-40	808.70
40-50	865.21
50-60	828.68
60-70	712.51
70-80	506.20
80-90	187.29
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

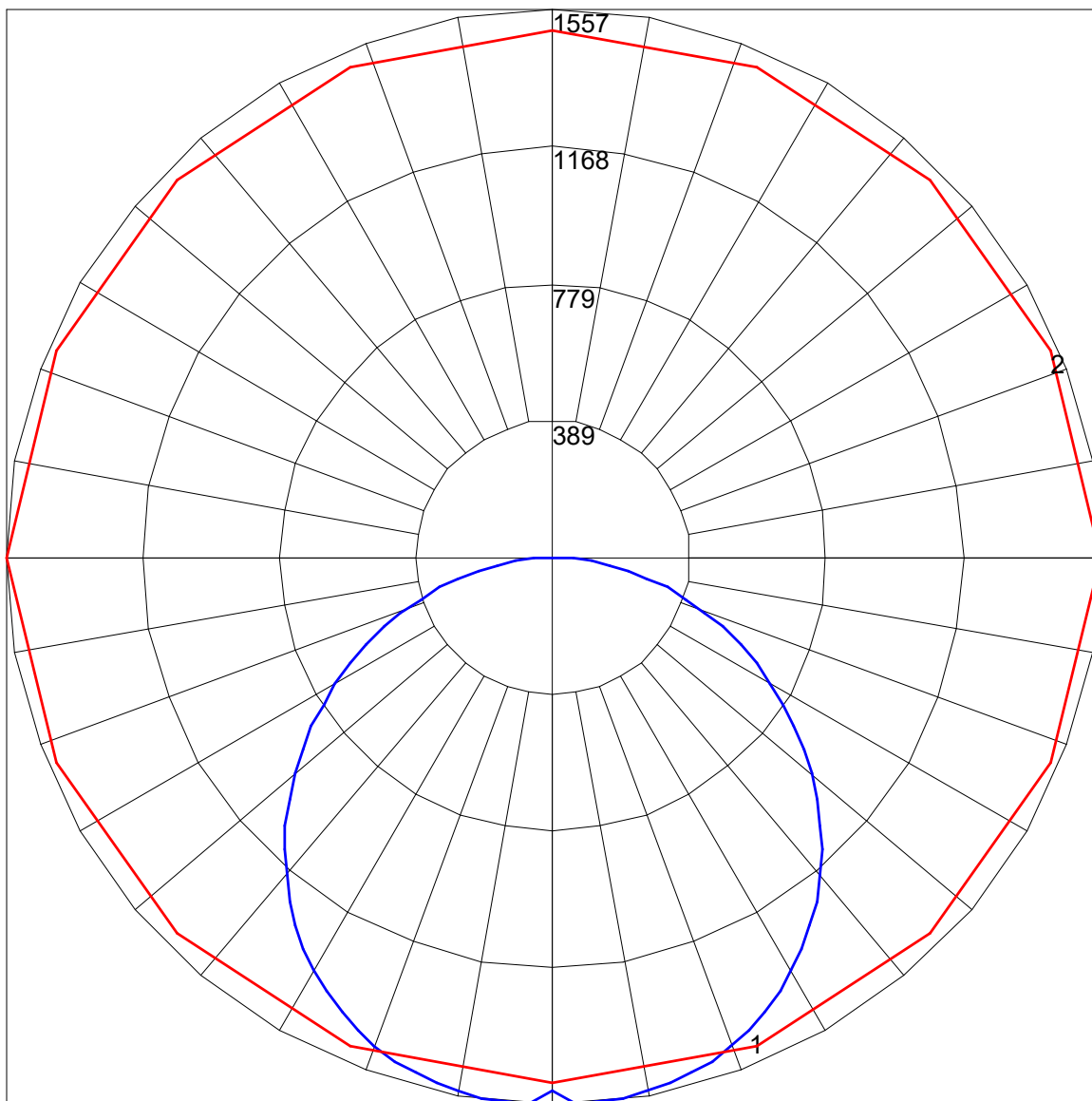
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1557 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.)