



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : OPT24-LED-FS2-43W-5000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11310\_scaled

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 12/04/19

[TEST DATE] 09/30/19

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] OPT24-LED-FS2-43W-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	5780
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	43
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	2310	2393	2500
55	2219	2426	2702
65	2115	2592	3047
75	1963	2924	3490
85	1866	3378	3285

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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	1710	1710	1710	1710	1710
2.5	1754	1726	1712	1699	1686
5.0	1754	1727	1712	1699	1687
7.5	1750	1723	1709	1697	1685
10.0	1741	1716	1702	1692	1680
12.5	1730	1704	1692	1683	1675
15.0	1714	1690	1680	1673	1665
17.5	1696	1672	1665	1660	1653
20.0	1673	1649	1645	1645	1638
22.5	1643	1623	1622	1625	1619
25.0	1609	1595	1596	1602	1598
27.5	1574	1562	1565	1575	1574
30.0	1532	1524	1532	1545	1544
32.5	1488	1481	1494	1513	1513
35.0	1440	1436	1454	1476	1477
37.5	1389	1387	1410	1437	1437
40.0	1333	1335	1362	1396	1397
42.5	1275	1281	1312	1350	1358
45.0	1215	1224	1259	1306	1315
47.5	1149	1159	1205	1259	1274
50.0	1085	1095	1149	1214	1234
52.5	1015	1031	1092	1167	1194
55.0	947	965	1035	1122	1153
57.5	877	900	979	1076	1113
60.0	806	833	924	1029	1069
62.5	735	768	870	979	1016
65.0	665	699	815	924	958
67.5	590	630	761	863	894
70.0	519	564	701	796	824
72.5	446	500	634	721	749
75.0	378	441	563	644	672
77.5	310	380	488	560	580
80.0	246	318	411	461	476
82.5	183	253	321	347	348
85.0	121	181	219	219	213
87.5	63	97	101	85	78
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	639.00	N.A.	11.10
0-30	1376.32	N.A.	23.80
0-40	2287.42	N.A.	39.60
0-60	4196.01	N.A.	72.60
0-80	5568.99	N.A.	96.30
0-90	5779.97	N.A.	100.00
10-90	5616.62	N.A.	97.20
20-40	1648.42	N.A.	28.50
20-50	2623.24	N.A.	45.40
40-70	2711.42	N.A.	46.90
60-80	1372.98	N.A.	23.80
70-80	570.16	N.A.	9.90
80-90	210.98	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	5779.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	163.35
10-20	475.65
20-30	737.32
30-40	911.10
40-50	974.82
50-60	933.77
60-70	802.83
70-80	570.16
80-90	210.98
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

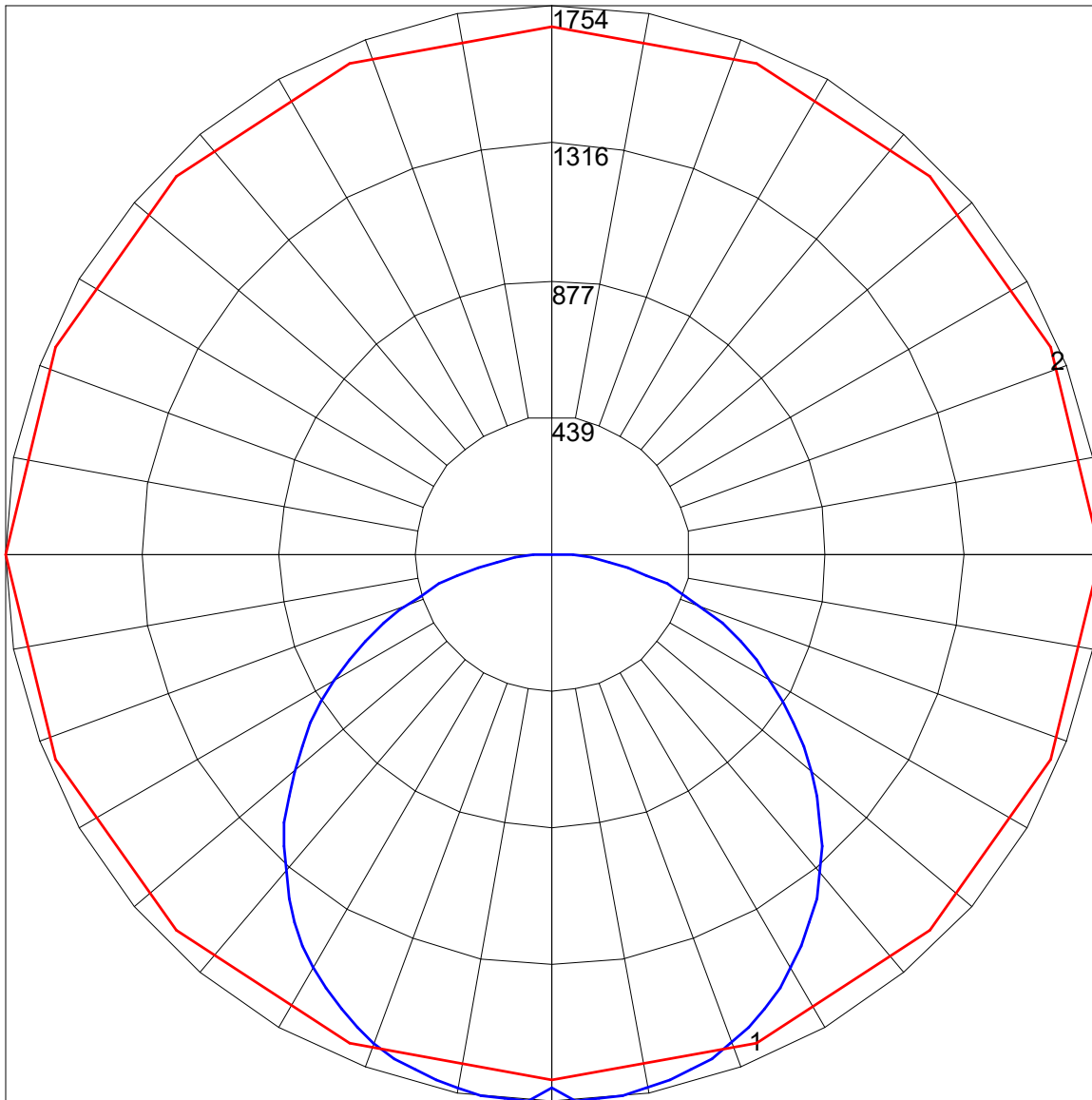
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1754 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.)