



IES INDOOR REPORT

PHOTOMETRIC FILENAME : OPT24-LED-FS2-48W-3500K.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-FS2-48W-3500K

[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	6203
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	48
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	2479	2570	2682
55	2381	2604	2899
65	2271	2780	3270
75	2109	3137	3750
85	2005	3624	3532

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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	1835	1835	1835	1835	1835
2.5	1883	1852	1837	1823	1809
5.0	1883	1854	1837	1823	1811
7.5	1878	1849	1834	1822	1808
10.0	1869	1841	1826	1815	1803
12.5	1857	1829	1815	1806	1797
15.0	1840	1814	1803	1796	1786
17.5	1820	1794	1786	1782	1774
20.0	1796	1770	1765	1765	1757
22.5	1764	1742	1741	1744	1738
25.0	1727	1712	1713	1719	1715
27.5	1689	1677	1680	1690	1689
30.0	1645	1635	1645	1658	1657
32.5	1597	1590	1603	1623	1623
35.0	1545	1541	1561	1584	1585
37.5	1490	1489	1513	1542	1542
40.0	1431	1433	1462	1498	1500
42.5	1368	1375	1408	1449	1457
45.0	1304	1314	1352	1402	1411
47.5	1233	1243	1294	1352	1367
50.0	1164	1175	1233	1303	1324
52.5	1089	1106	1172	1252	1281
55.0	1016	1036	1111	1204	1237
57.5	941	966	1051	1155	1195
60.0	865	894	992	1105	1147
62.5	789	824	934	1051	1091
65.0	714	751	874	992	1028
67.5	633	676	816	926	960
70.0	557	606	752	854	885
72.5	479	537	680	773	804
75.0	406	473	604	691	722
77.5	333	407	523	601	622
80.0	264	342	441	494	511
82.5	197	272	345	372	374
85.0	130	194	235	235	229
87.5	67	104	108	92	84
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	685.72	N.A.	11.10
0-30	1477.08	N.A.	23.80
0-40	2454.86	N.A.	39.60
0-60	4503.28	N.A.	72.60
0-80	5976.72	N.A.	96.30
0-90	6203.22	N.A.	100.00
10-90	6027.92	N.A.	97.20
20-40	1769.13	N.A.	28.50
20-50	2815.43	N.A.	45.40
40-70	2910.1	N.A.	46.90
60-80	1473.44	N.A.	23.80
70-80	611.76	N.A.	9.90
80-90	226.50	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	6203.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.30
10-20	510.43
20-30	791.35
30-40	977.78
40-50	1046.29
50-60	1002.13
60-70	861.68
70-80	611.76
80-90	226.50
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

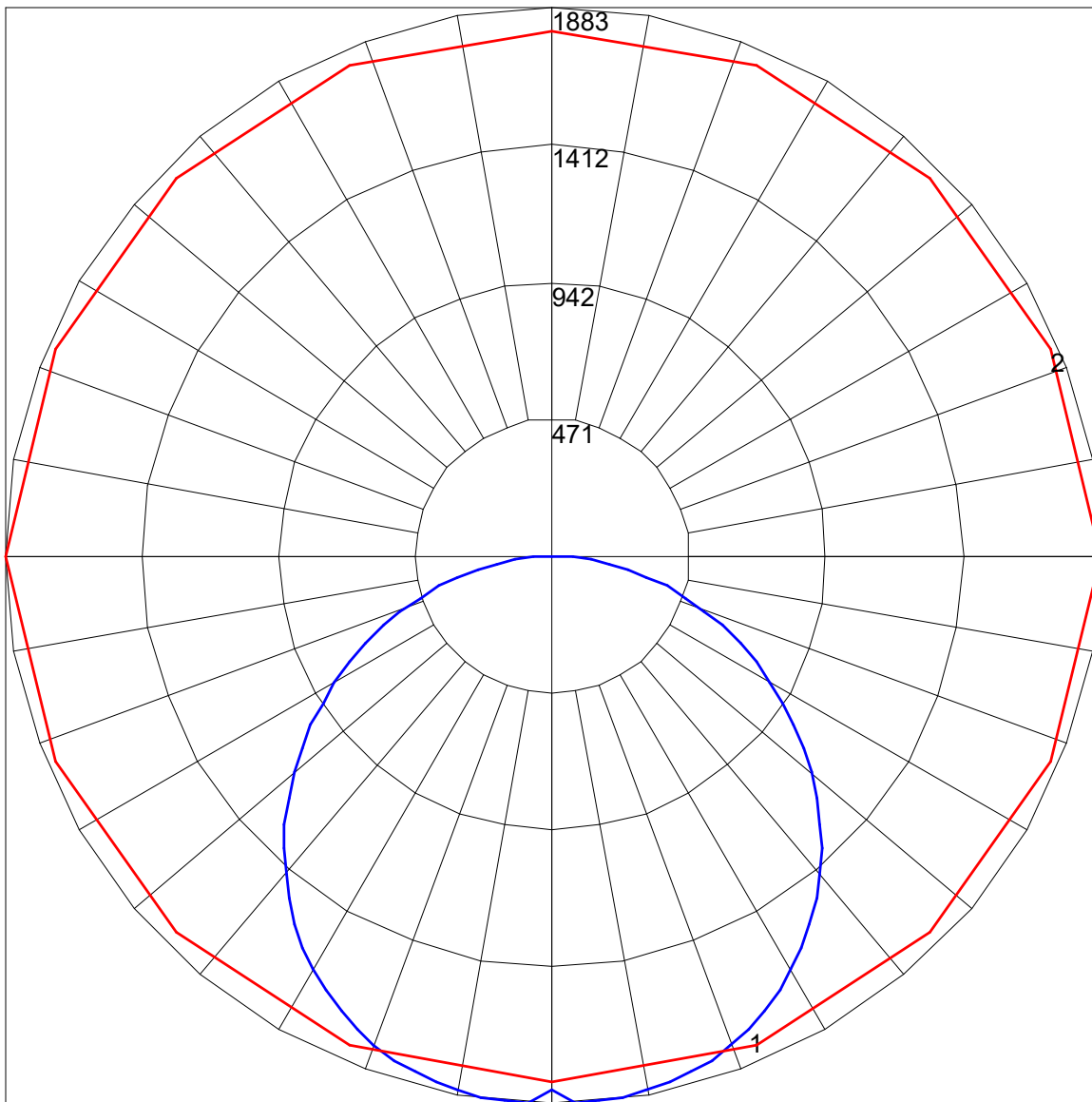
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1883 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.)