



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : OPT24-LED-FS2-48W-4000K.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-4000K

[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	6743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
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	2696	2793	2916
55	2587	2829	3152
65	2468	3022	3556
75	2290	3412	4072
85	2175	3933	3840

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	1995	1995	1995	1995	1995
<b>2.5</b>	2046	2013	1997	1982	1967
<b>5.0</b>	2046	2015	1997	1982	1969
<b>7.5</b>	2041	2010	1993	1980	1965
<b>10.0</b>	2032	2002	1985	1973	1960
<b>12.5</b>	2018	1988	1973	1964	1954
<b>15.0</b>	2000	1972	1960	1952	1942
<b>17.5</b>	1978	1950	1942	1937	1929
<b>20.0</b>	1952	1924	1919	1919	1910
<b>22.5</b>	1917	1894	1892	1896	1889
<b>25.0</b>	1877	1861	1862	1869	1864
<b>27.5</b>	1836	1823	1826	1837	1836
<b>30.0</b>	1788	1778	1788	1803	1801
<b>32.5</b>	1736	1728	1743	1765	1765
<b>35.0</b>	1680	1675	1697	1721	1723
<b>37.5</b>	1620	1619	1645	1677	1677
<b>40.0</b>	1556	1557	1589	1629	1630
<b>42.5</b>	1488	1494	1531	1575	1584
<b>45.0</b>	1418	1428	1469	1524	1534
<b>47.5</b>	1340	1352	1406	1469	1486
<b>50.0</b>	1265	1277	1340	1416	1439
<b>52.5</b>	1184	1202	1274	1362	1393
<b>55.0</b>	1104	1126	1207	1308	1345
<b>57.5</b>	1023	1050	1143	1255	1299
<b>60.0</b>	940	972	1078	1201	1247
<b>62.5</b>	857	896	1015	1143	1186
<b>65.0</b>	776	816	950	1078	1118
<b>67.5</b>	688	735	887	1007	1043
<b>70.0</b>	605	658	818	929	962
<b>72.5</b>	521	584	740	841	874
<b>75.0</b>	441	514	657	751	784
<b>77.5</b>	362	443	569	653	677
<b>80.0</b>	287	371	479	537	556
<b>82.5</b>	214	295	375	405	406
<b>85.0</b>	141	211	255	255	249
<b>87.5</b>	73	113	118	100	91
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	745.43	N.A.	11.10
0-30	1605.67	N.A.	23.80
0-40	2668.67	N.A.	39.60
0-60	4895.2	N.A.	72.60
0-80	6497.02	N.A.	96.30
0-90	6743.15	N.A.	100.00
10-90	6552.6	N.A.	97.20
20-40	1923.24	N.A.	28.50
20-50	3060.5	N.A.	45.40
40-70	3163.19	N.A.	46.90
60-80	1601.82	N.A.	23.80
70-80	665.16	N.A.	9.90
80-90	246.13	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	6743.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	190.55
10-20	554.89
20-30	860.23
30-40	1063.00
40-50	1137.26
50-60	1089.27
60-70	936.66
70-80	665.16
80-90	246.13
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

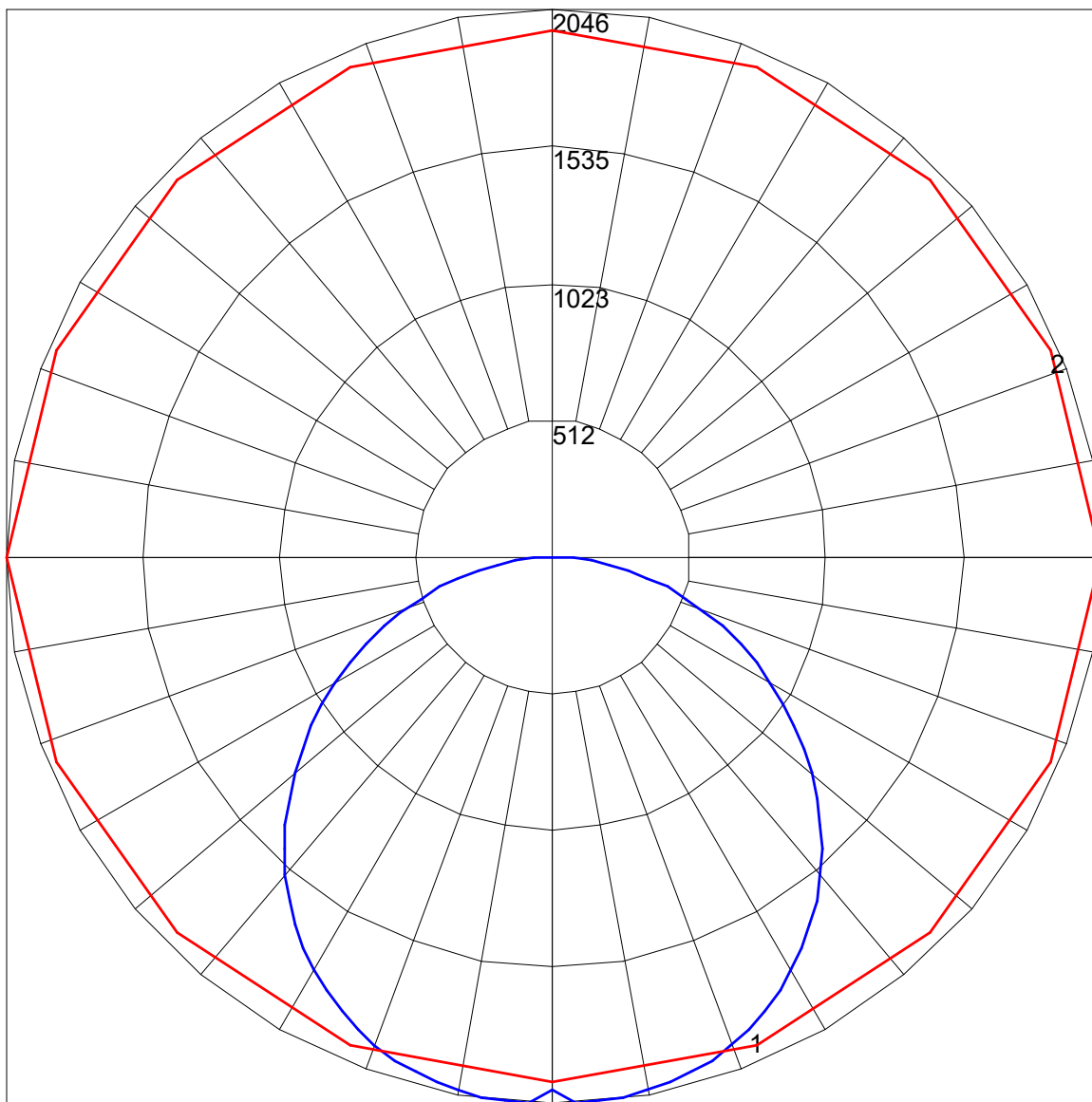
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2046 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.)