



IES INDOOR REPORT

PHOTOMETRIC FILENAME : OPT24-LED-48L-W-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9438
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]02/14/18
[TEST DATE]12/12/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]OPT24-LED-48L-W-50
[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	4736
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	38.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.44
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	1926	1996	2046
55	1847	1990	2140
65	1718	2023	2389
75	1475	2244	2706
85	1033	2668	3624

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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	1446	1446	1446	1446	1446
2.5	1480	1459	1448	1437	1422
5.0	1480	1459	1449	1438	1424
7.5	1476	1456	1446	1436	1423
10.0	1468	1449	1439	1431	1419
12.5	1458	1440	1431	1425	1414
15.0	1444	1427	1419	1415	1406
17.5	1427	1410	1405	1402	1393
20.0	1406	1391	1386	1386	1378
22.5	1382	1369	1368	1368	1361
25.0	1355	1344	1344	1348	1342
27.5	1323	1314	1317	1322	1317
30.0	1287	1281	1288	1296	1290
32.5	1248	1243	1255	1266	1260
35.0	1204	1204	1219	1234	1227
37.5	1161	1162	1180	1198	1193
40.0	1113	1117	1138	1159	1156
42.5	1064	1070	1095	1120	1118
45.0	1013	1021	1050	1078	1076
47.5	959	970	1003	1036	1037
50.0	904	916	952	991	996
52.5	845	860	900	945	954
55.0	788	802	849	900	913
57.5	728	743	795	853	872
60.0	664	684	741	806	830
62.5	601	625	688	762	790
65.0	540	566	636	720	751
67.5	475	505	587	675	700
70.0	412	446	541	620	641
72.5	350	386	490	559	581
75.0	284	327	432	498	521
77.5	219	274	368	435	458
80.0	163	224	304	367	390
82.5	112	171	239	296	314
85.0	67	116	173	214	235
87.5	29	63	102	128	136
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	539.55	N.A.	11.40
0-30	1159.82	N.A.	24.50
0-40	1921.96	N.A.	40.60
0-60	3491.29	N.A.	73.70
0-80	4563.06	N.A.	96.40
0-90	4735.5	N.A.	100.00
10-90	4597.44	N.A.	97.10
20-40	1382.41	N.A.	29.20
20-50	2191.46	N.A.	46.30
40-70	2203.79	N.A.	46.50
60-80	1071.77	N.A.	22.60
70-80	437.31	N.A.	9.20
80-90	172.45	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	4735.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.06
10-20	401.48
20-30	620.27
30-40	762.14
40-50	809.05
50-60	760.28
60-70	634.46
70-80	437.31
80-90	172.45
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

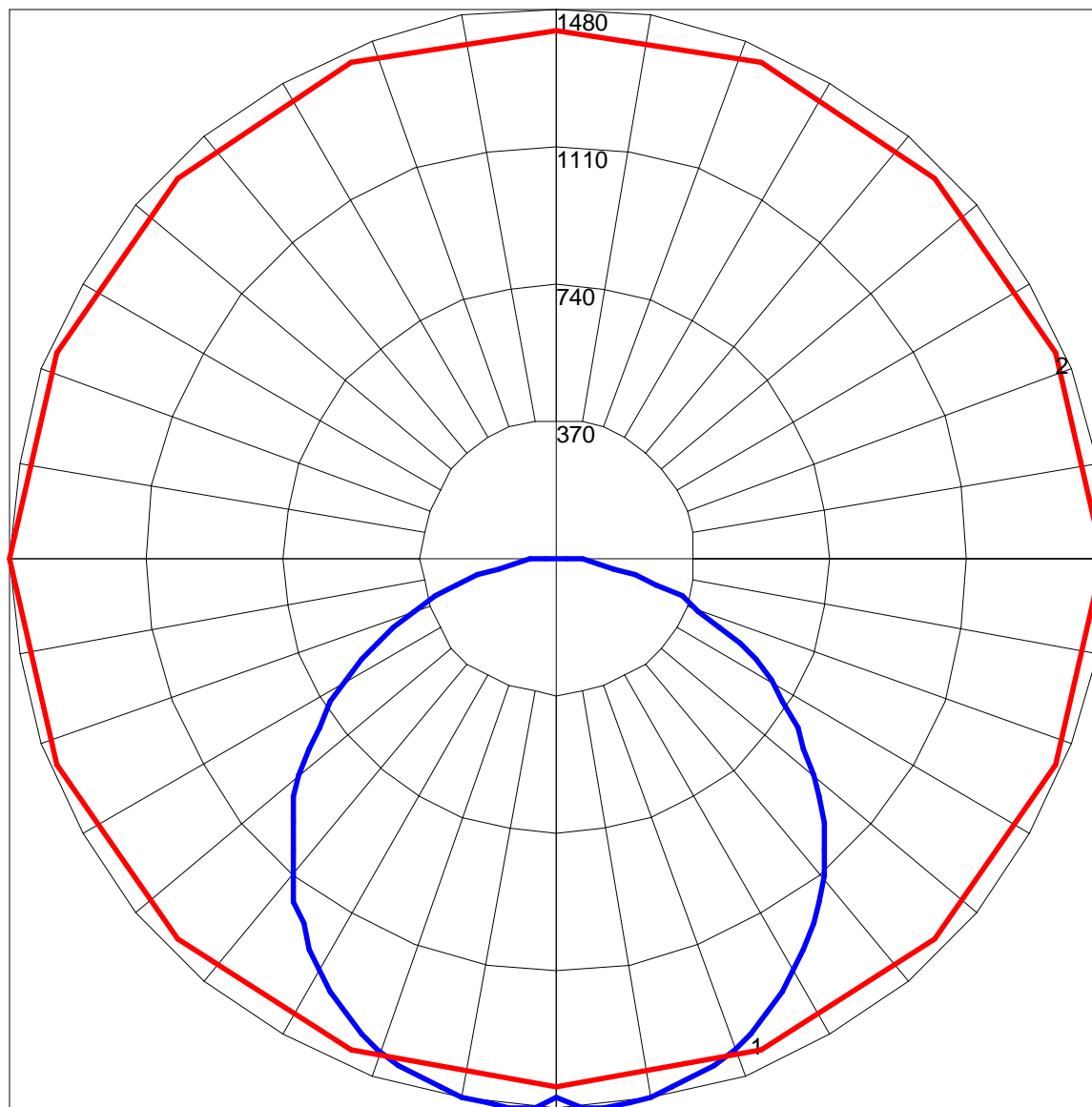
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	100	95	92	96	92	89	92	89	86	88	86	83	81
2	97	88	81	74	94	86	79	74	83	77	72	79	74	70	76	72	69	66
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	50	59	53	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 1480 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.)