



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : OPT24-LED-FS1-25W-4000K.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11313  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 12/04/19  
[TEST DATE] 09/30/19  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMEN CATEGORY] OPT24-LED-FS1-25W-4000K  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
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	1365	1416	1479
55	1312	1434	1598
65	1247	1536	1810
75	1169	1740	2067
85	1126	2051	2020

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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>
<b>0.0</b>	1008	1008	1008	1008	1008
<b>2.5</b>	1034	1017	1008	1001	994
<b>5.0</b>	1034	1017	1008	1001	994
<b>7.5</b>	1031	1016	1007	1000	993
<b>10.0</b>	1027	1011	1003	997	991
<b>12.5</b>	1020	1004	998	993	987
<b>15.0</b>	1010	996	991	987	982
<b>17.5</b>	998	985	981	979	975
<b>20.0</b>	985	973	970	970	966
<b>22.5</b>	969	958	956	958	956
<b>25.0</b>	950	941	941	945	942
<b>27.5</b>	929	922	924	930	928
<b>30.0</b>	905	900	904	912	911
<b>32.5</b>	879	875	883	893	893
<b>35.0</b>	851	848	859	871	871
<b>37.5</b>	820	819	832	848	849
<b>40.0</b>	788	788	804	824	826
<b>42.5</b>	753	754	775	799	803
<b>45.0</b>	718	720	745	772	778
<b>47.5</b>	678	684	712	745	753
<b>50.0</b>	640	648	680	717	730
<b>52.5</b>	601	610	646	691	706
<b>55.0</b>	560	572	612	664	682
<b>57.5</b>	519	533	580	636	658
<b>60.0</b>	478	494	547	609	632
<b>62.5</b>	436	454	514	580	602
<b>65.0</b>	392	413	483	548	569
<b>67.5</b>	350	373	451	512	531
<b>70.0</b>	307	335	415	473	490
<b>72.5</b>	266	298	376	429	444
<b>75.0</b>	225	262	335	381	398
<b>77.5</b>	185	227	291	332	344
<b>80.0</b>	147	190	243	276	283
<b>82.5</b>	110	151	193	210	211
<b>85.0</b>	73	107	133	134	131
<b>87.5</b>	39	61	60	53	51
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	376.66	N.A.	11.00
0-30	811.68	N.A.	23.70
0-40	1349.64	N.A.	39.50
0-60	2478.05	N.A.	72.50
0-80	3292.5	N.A.	96.30
0-90	3419.82	N.A.	100.00
10-90	3323.56	N.A.	97.20
20-40	972.98	N.A.	28.50
20-50	1548.83	N.A.	45.30
40-70	1604.02	N.A.	46.90
60-80	814.45	N.A.	23.80
70-80	338.84	N.A.	9.90
80-90	127.31	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	3419.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	96.26
10-20	280.41
20-30	435.02
30-40	537.96
40-50	575.85
50-60	552.56
60-70	475.61
70-80	338.84
80-90	127.31
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

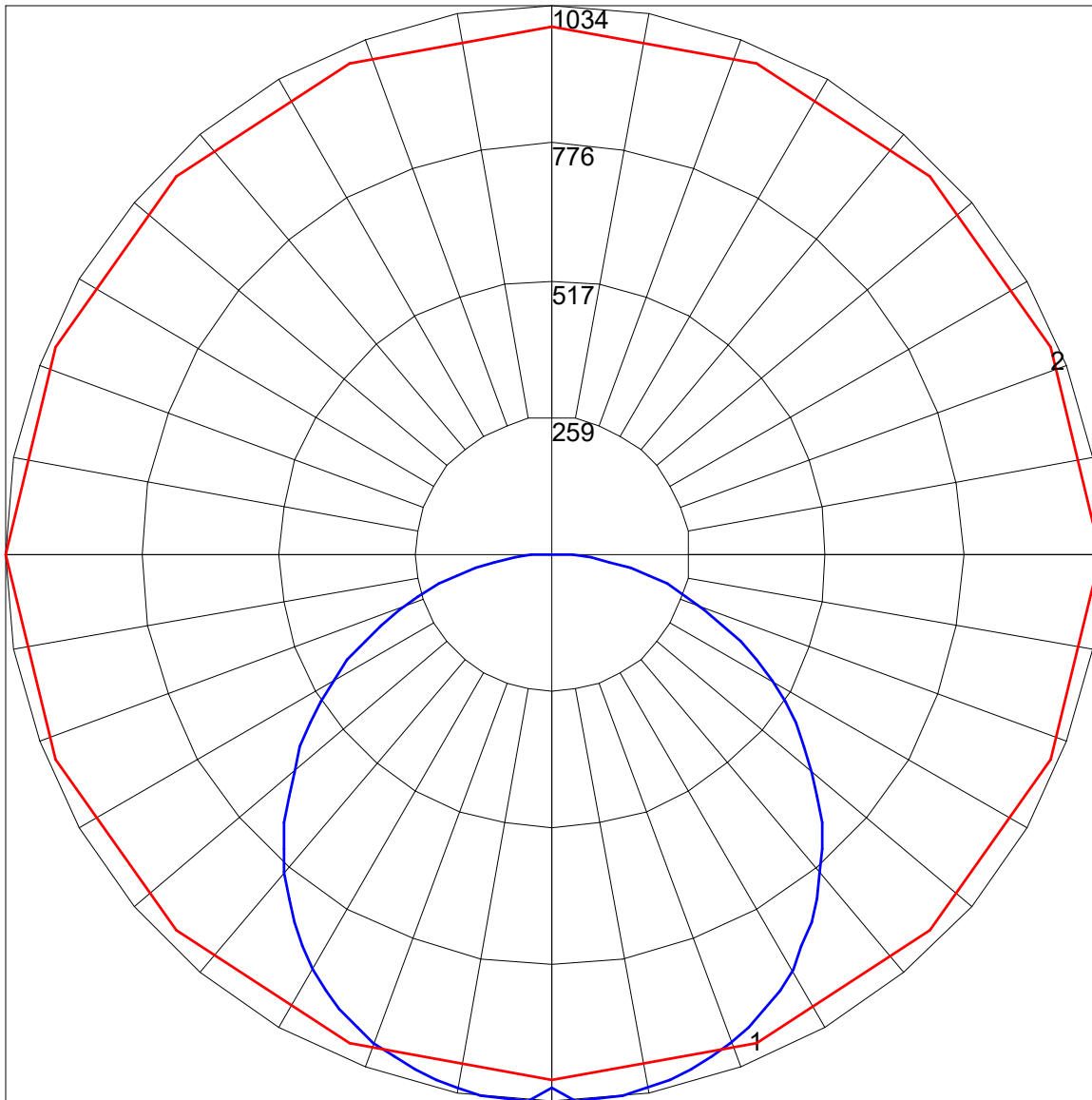
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	85	88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71	79	74	69	76	72	68	66
3	88	76	67	60	85	75	66	60	72	64	59	69	63	58	66	61	57	54
4	80	67	58	51	78	66	57	50	63	55	49	61	54	49	58	53	48	46
5	73	60	50	43	71	58	50	43	56	48	42	54	47	42	52	46	41	39
6	67	53	44	37	66	53	44	37	51	43	37	49	42	36	47	41	36	34
7	62	48	39	33	61	48	39	33	46	38	32	44	37	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29	41	34	29	39	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	49	37	29	23	36	28	23	35	28	23	34	28	23	21

POLAR GRAPH



Maximum Candela = 1034 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.)