IES INDOOR REPORT
PHOTOMETRIC FILENAME : OPT22-LED-FS1-30W-4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11330
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 12/04/19
[TESTDATE] 10/08/19
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] OPT22-LED-FS1-30W-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	3954
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	3129	3289	3505
55	2976	3309	3792
65	2812	3512	4281
75	2586	3854	4872
85	2406	4072	4380

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	1186	1186	1186	1186	1186
2.5	1213	1202	1187	1172	1167
5.0	1212	1201	1187	1172	1168
7.5	1210	1199	1185	1171	1166
10.0	1202	1193	1181	1168	1164
12.5	1193	1185	1174	1164	1160
15.0	1182	1174	1166	1157	1154
17.5	1167	1160	1155	1149	1147
20.0	1150	1145	1142	1139	1138
22.5	1131	1126	1125	1126	1126
25.0	1108	1105	1107	1111	1112
27.5	1081	1080	1086	1092	1096
30.0	1053	1052	1061	1072	1077
32.5	1020	1021	1035	1051	1057
35.0	984	987	1004	1025	1034
37.5	947	952	971	997	1007
40.0	907	913	937	966	979
42.5	866	873	901	937	951
45.0	823	830	865	905	922
47.5	774	785	826	873	893
50.0	729	742	785	841	865
52.5	683	697	746	809	838
55.0	635	652	706	778	809
57.5	588	606	667	745	781
60.0	539	560	629	712	748
62.5	492	514	591	677	712
65.0	442	468	552	637	673
67.5	393	419	511	594	627
70.0	342	375	469	545	578
72.5	296	329	420	493	524
75.0	249	287	371	435	469
77.5	205	242	318	376	404
80.0	161	198	263	309	325
82.5	120	152	201	228	237
85.0	78	102	132	139	142
87.5	39	49	62	56	53
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	442.71	N.A.	11.20
0-30	953.53	N.A.	24.10
0-40	1583.05	N.A.	40.00
0-60	2892.34	N.A.	73.20
0-80	3820.07	N.A.	96.60
0-90	3953.52	N.A.	100.00
10-90	3840.36	N.A.	97.10
20-40	1140.34	N.A.	28.80
20-50	1810.18	N.A.	45.80
40-70	1855.95	N.A.	46.90
60-80	927.73	N.A.	23.50
70-80	381.07	N.A.	9.60
80-90	133.45	N.A.	3.40
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	3953.52	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.16
10-20	329.55
20-30	510.82
30-40	629.52
40-50	669.84
50-60	639.45
60-70	546.65
70-80	381.07
80-90	133.45
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	91	95	92	89	92	89	86	88	85	83	81
2	97	88	81	74	94	86	79	73	82	77	72	79	74	70	76	72	68	66
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	55
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	48	41	36	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

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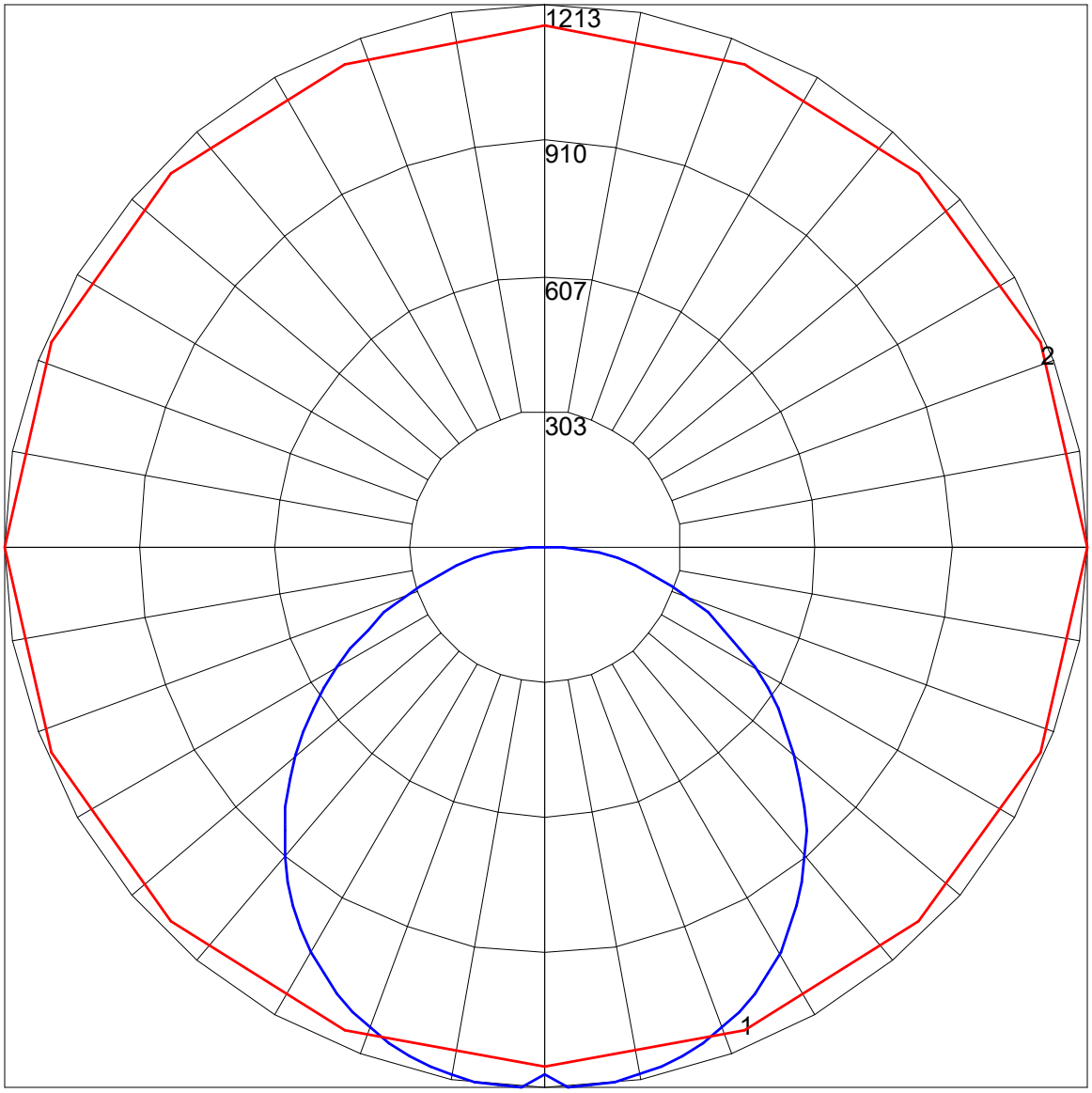
POLAR GRAPH



Maximum Candela = 1213 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.)