



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP22-FS1-UNV-30W-5000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-14549  
[TESTLAB] LSI INDUSTRIES, INC.  
[TESTDATE] 12/14/23  
[ISSUEDATE] 12/19/23  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] ABP22-FS1-UNV-30W-5000K  
[TEST PROCEDURE] IESNA LM-79-19  
[ ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[ FACTORED] SCALED FROM ORIGINAL TEST DATA  
[ SEARCH\_SOURCETYPE] LED  
[ SEARCH\_APPLICATION] INDOOR  
[ SEARCH\_COLORTEMP] 5000

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3873
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.46
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	3407	3410	3414
55	3389	3389	3379
65	3283	3276	3251
75	3158	3044	2919
85	3023	2715	2468

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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	1196	1196	1196	1196	1196
2.5	1197	1198	1198	1199	1199
5.0	1197	1198	1198	1199	1199
7.5	1196	1197	1198	1198	1198
10.0	1194	1194	1194	1195	1195
12.5	1189	1189	1189	1190	1191
15.0	1182	1182	1182	1183	1184
17.5	1172	1173	1174	1174	1174
20.0	1160	1160	1161	1161	1161
22.5	1147	1147	1148	1148	1148
25.0	1130	1130	1130	1131	1131
27.5	1111	1111	1111	1112	1112
30.0	1089	1089	1088	1089	1089
32.5	1064	1063	1064	1064	1064
35.0	1036	1036	1037	1038	1038
37.5	1003	1005	1006	1007	1007
40.0	969	970	972	974	973
42.5	934	935	935	936	938
45.0	896	897	897	898	898
47.5	857	858	858	857	856
50.0	814	815	814	814	813
52.5	770	771	770	769	767
55.0	723	723	723	721	721
57.5	675	674	673	672	671
60.0	625	622	622	621	619
62.5	569	571	570	568	565
65.0	516	517	515	512	511
67.5	464	464	461	455	452
70.0	410	410	406	397	392
72.5	356	355	349	341	337
75.0	304	303	293	285	281
77.5	251	249	242	231	226
80.0	200	197	188	180	175
82.5	145	143	137	130	127
85.0	98	95	88	82	80
87.5	54	51	45	39	37
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	448.49	N.A.	11.60
0-30	969.87	N.A.	25.00
0-40	1618.12	N.A.	41.80
0-60	2955.11	N.A.	76.30
0-80	3774.32	N.A.	97.40
0-90	3873.42	N.A.	100.00
10-90	3759.15	N.A.	97.00
20-40	1169.62	N.A.	30.20
20-50	1861.69	N.A.	48.10
40-70	1845.7	N.A.	47.70
60-80	819.21	N.A.	21.10
70-80	310.51	N.A.	8.00
80-90	99.09	N.A.	2.60
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	3873.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	114.27
10-20	334.23
20-30	521.37
30-40	648.25
40-50	692.06
50-60	644.94
60-70	508.70
70-80	310.51
80-90	99.09
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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	23

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**UGR TABLE - CORRECTED**

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	16.5	18.2	16.9	18.5	18.8	UGR Viewed Endwise	16.5	18.2	16.9	18.5	18.8
	3H	18.5	20.0	18.9	20.3	20.7		18.4	19.9	18.8	20.2	20.6
	4H	19.3	20.7	19.7	21.1	21.5		19.1	20.6	19.5	20.9	21.3
	6H	19.9	21.3	20.3	21.6	22.0		19.7	21.0	20.1	21.4	21.8
	8H	20.2	21.5	20.6	21.8	22.2		19.9	21.1	20.3	21.5	21.9
	12H	20.4	21.6	20.8	22.0	22.4		20.0	21.2	20.4	21.6	22.0

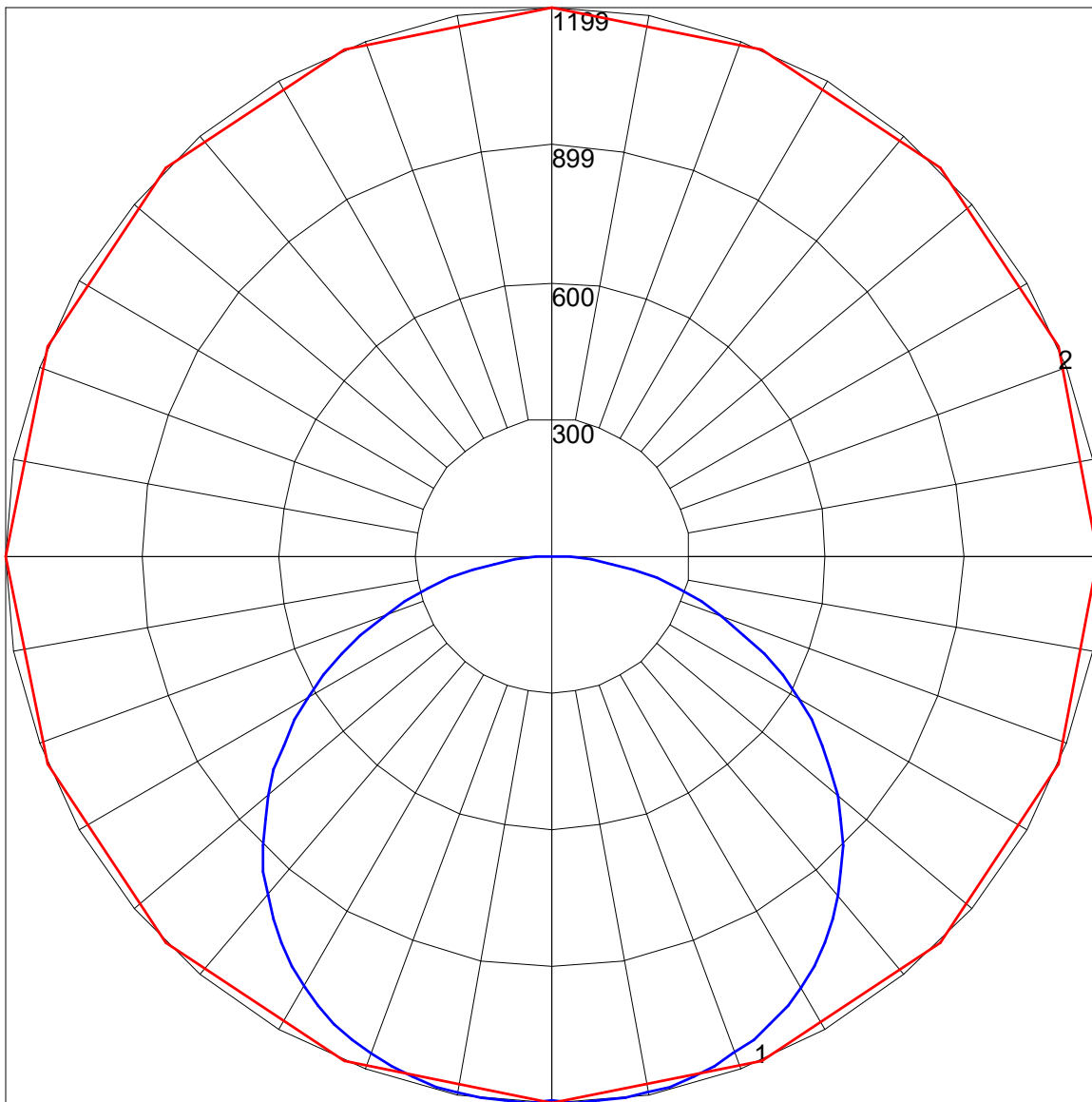
4H	2H	17.2	18.6	17.6	19.0	19.4	17.2	18.6	17.6	19.0	19.3
	3H	19.4	20.6	19.8	21.0	21.4	19.3	20.5	19.7	20.9	21.3
	4H	20.4	21.4	20.8	21.9	22.3	20.2	21.3	20.6	21.7	22.1
	6H	21.1	22.1	21.6	22.5	23.0	20.9	21.8	21.3	22.3	22.7
	8H	21.4	22.3	21.9	22.8	23.2	21.1	22.0	21.6	22.5	22.9
	12H	21.7	22.5	22.2	23.0	23.4	21.3	22.1	21.8	22.6	23.1

8H	4H	20.7	21.6	21.1	22.0	22.5	20.5	21.4	21.0	21.9	22.3
	6H	21.6	22.4	22.1	22.9	23.4	21.4	22.1	21.9	22.6	23.1
	8H	22.0	22.7	22.5	23.2	23.7	21.7	22.4	22.2	22.9	23.4
	12H	22.4	23.0	22.9	23.5	24.0	22.0	22.6	22.5	23.1	23.6

12H	4H	20.8	21.6	21.2	22.0	22.5	20.6	21.4	21.1	21.9	22.4
	6H	21.7	22.4	22.2	22.9	23.4	21.5	22.2	22.0	22.6	23.2
	8H	22.2	22.8	22.7	23.3	23.8	21.9	22.5	22.4	23.0	23.5

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 1199 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)