



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP22-FS1-UNV-30W-4000K.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-4000K
[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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3959
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)	1.36
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	3483	3486	3490
55	3464	3464	3454
65	3352	3346	3321
75	3230	3116	2981
85	3085	2776	2529

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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	1223	1223	1223	1223	1223
2.5	1224	1225	1225	1226	1226
5.0	1224	1225	1225	1226	1226
7.5	1223	1224	1225	1225	1225
10.0	1220	1220	1221	1222	1222
12.5	1215	1215	1215	1216	1217
15.0	1208	1208	1208	1209	1210
17.5	1198	1199	1200	1200	1200
20.0	1186	1186	1187	1187	1187
22.5	1172	1172	1173	1173	1173
25.0	1155	1155	1155	1156	1156
27.5	1136	1136	1136	1137	1137
30.0	1113	1113	1112	1113	1113
32.5	1088	1087	1088	1088	1088
35.0	1059	1059	1060	1061	1061
37.5	1025	1027	1028	1029	1029
40.0	991	992	994	996	995
42.5	955	956	956	957	959
45.0	916	917	917	918	918
47.5	876	877	877	876	875
50.0	832	833	832	832	831
52.5	787	788	787	786	784
55.0	739	739	739	737	737
57.5	690	689	688	687	686
60.0	639	636	636	635	633
62.5	582	584	583	581	578
65.0	527	528	526	523	522
67.5	474	474	471	465	462
70.0	419	419	415	406	401
72.5	364	363	357	349	344
75.0	311	310	300	291	287
77.5	257	255	247	236	231
80.0	204	201	192	184	179
82.5	148	146	140	133	130
85.0	100	97	90	84	82
87.5	55	52	46	40	38
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	458.45	N.A.	11.60
0-30	991.38	N.A.	25.00
0-40	1654.04	N.A.	41.80
0-60	3020.81	N.A.	76.30
0-80	3858.23	N.A.	97.40
0-90	3959.5	N.A.	100.00
10-90	3842.66	N.A.	97.00
20-40	1195.59	N.A.	30.20
20-50	1903.1	N.A.	48.10
40-70	1886.72	N.A.	47.70
60-80	837.42	N.A.	21.10
70-80	317.46	N.A.	8.00
80-90	101.27	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	3959.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.83
10-20	341.61
20-30	532.93
30-40	662.66
40-50	707.51
50-60	659.26
60-70	519.96
70-80	317.46
80-90	101.27
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	70	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	57	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	16.6	18.3	17.0	18.6	18.9	16.6	18.3	17.0	18.6	18.9
	3H	18.6	20.1	19.0	20.4	20.8	18.5	20.0	18.9	20.3	20.7
	4H	19.4	20.8	19.8	21.2	21.6	19.2	20.7	19.6	21.0	21.4
	6H	20.0	21.4	20.4	21.7	22.1	19.8	21.1	20.2	21.5	21.9
	8H	20.3	21.6	20.7	21.9	22.3	20.0	21.2	20.4	21.6	22.0
	12H	20.5	21.7	20.9	22.1	22.5	20.1	21.3	20.5	21.7	22.1

UGR Viewed Endwise

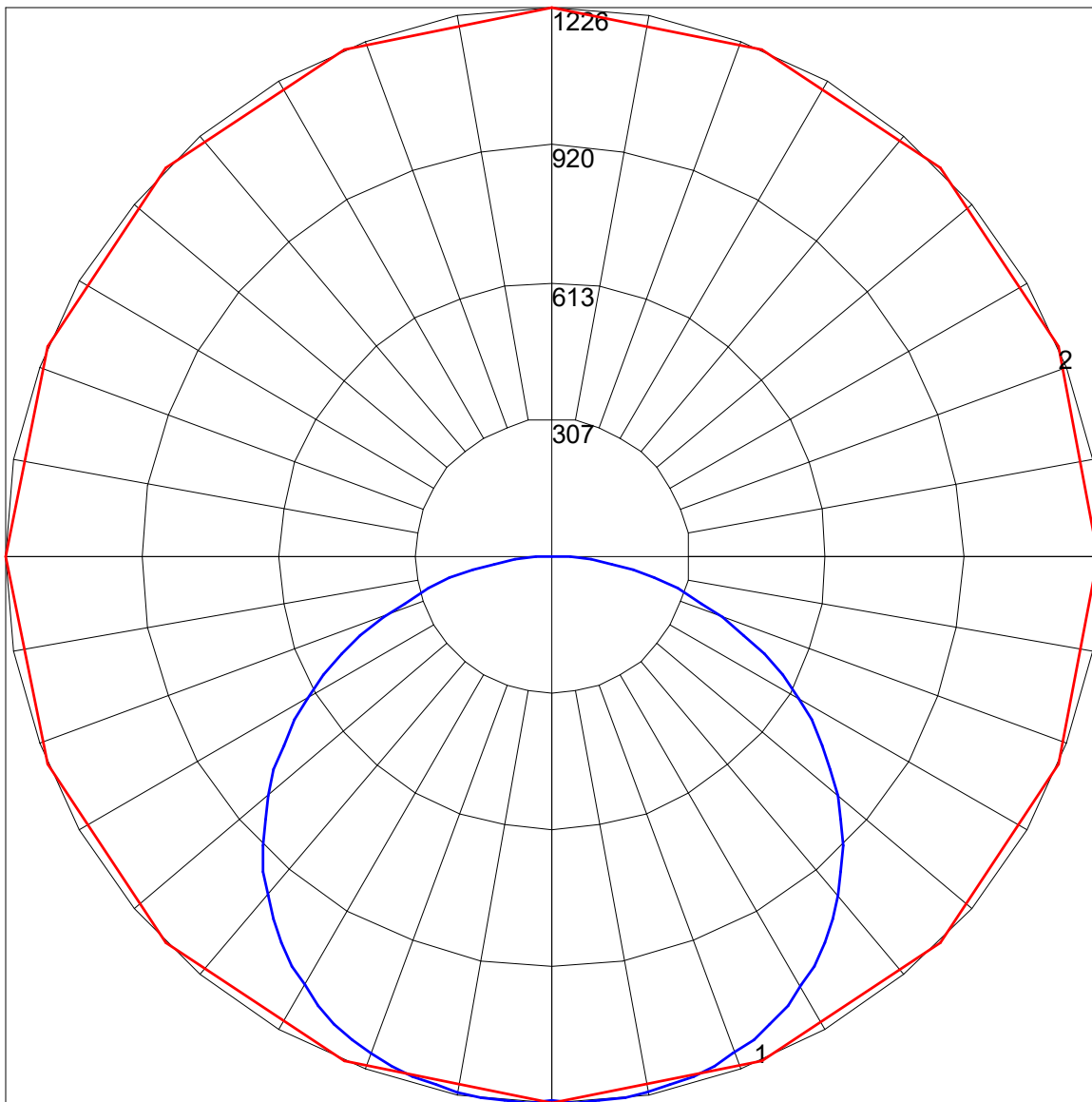
4H	2H	17.3	18.7	17.7	19.1	19.5	17.3	18.7	17.7	19.1	19.4
	3H	19.5	20.7	19.9	21.1	21.5	19.4	20.6	19.8	21.0	21.4
	4H	20.5	21.5	20.9	22.0	22.4	20.3	21.4	20.7	21.8	22.2
	6H	21.2	22.2	21.7	22.6	23.1	21.0	21.9	21.4	22.4	22.8
	8H	21.5	22.4	22.0	22.9	23.3	21.2	22.1	21.7	22.6	23.0
	12H	21.8	22.6	22.3	23.1	23.5	21.4	22.2	21.9	22.7	23.2

8H	4H	20.8	21.7	21.2	22.1	22.6	20.6	21.5	21.1	22.0	22.4
	6H	21.7	22.5	22.2	23.0	23.5	21.5	22.2	22.0	22.7	23.2
	8H	22.1	22.8	22.6	23.3	23.8	21.8	22.5	22.3	23.0	23.5
	12H	22.5	23.1	23.0	23.6	24.1	22.1	22.7	22.6	23.2	23.7

12H	4H	20.9	21.7	21.3	22.1	22.6	20.7	21.5	21.2	22.0	22.5
	6H	21.8	22.5	22.3	23.0	23.5	21.6	22.3	22.1	22.7	23.3
	8H	22.3	22.9	22.8	23.4	23.9	22.0	22.6	22.5	23.1	23.6

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 1226 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.)