



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP22-FS1-UNV-30W-3500K.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-3500K
[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] 3500

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3848
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	3384	3388	3391
55	3365	3365	3356
65	3257	3251	3225
75	3137	3033	2898
85	2992	2684	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	1189	1189	1189	1189	1189
2.5	1190	1191	1191	1192	1192
5.0	1190	1191	1191	1192	1192
7.5	1189	1190	1191	1191	1191
10.0	1186	1186	1187	1188	1188
12.5	1181	1181	1181	1182	1183
15.0	1174	1174	1174	1175	1176
17.5	1164	1165	1166	1166	1166
20.0	1153	1153	1154	1154	1154
22.5	1139	1139	1140	1140	1140
25.0	1123	1123	1123	1124	1124
27.5	1104	1104	1104	1105	1105
30.0	1082	1082	1081	1082	1082
32.5	1058	1057	1058	1058	1058
35.0	1029	1029	1030	1031	1031
37.5	996	998	999	1000	1000
40.0	963	964	966	968	967
42.5	928	929	929	930	932
45.0	890	891	891	892	892
47.5	851	852	852	851	850
50.0	809	810	809	809	808
52.5	765	766	765	764	762
55.0	718	718	718	716	716
57.5	671	670	669	668	667
60.0	621	618	618	617	615
62.5	566	568	567	565	562
65.0	512	513	511	508	507
67.5	461	461	458	452	449
70.0	407	407	403	395	390
72.5	354	353	347	339	334
75.0	302	301	292	283	279
77.5	250	248	240	229	225
80.0	198	195	187	179	174
82.5	144	142	136	129	126
85.0	97	94	87	82	80
87.5	53	51	45	39	37
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	445.61	N.A.	11.60
0-30	963.64	N.A.	25.00
0-40	1607.72	N.A.	41.80
0-60	2936.04	N.A.	76.30
0-80	3750.00	N.A.	97.40
0-90	3848.44	N.A.	100.00
10-90	3734.85	N.A.	97.00
20-40	1162.11	N.A.	30.20
20-50	1849.63	N.A.	48.10
40-70	1833.72	N.A.	47.60
60-80	813.96	N.A.	21.20
70-80	308.56	N.A.	8.00
80-90	98.43	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	3848.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.59
10-20	332.02
20-30	518.03
30-40	644.08
40-50	687.52
50-60	640.80
60-70	505.40
70-80	308.56
80-90	98.43
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	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

UGR Viewed Endwise

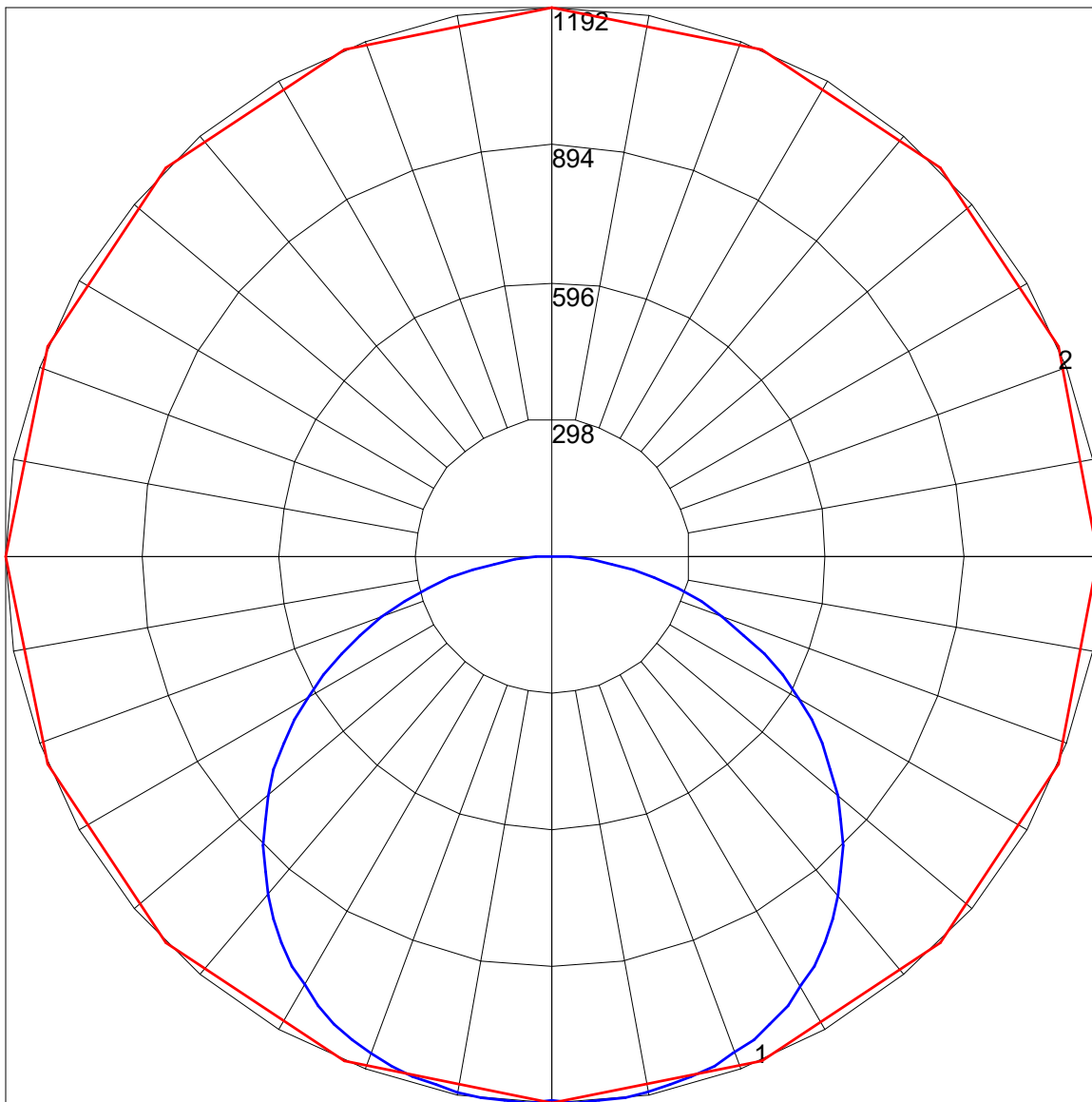
4H	2H	17.2	18.6	17.6	19.0	19.4	17.2	18.6	17.6	19.0	19.3
	3H	19.4	20.6	19.8	21.0	21.4	19.3	20.5	19.7	20.9	21.3
	4H	20.4	21.4	20.8	21.9	22.3	20.2	21.3	20.6	21.7	22.1
	6H	21.1	22.1	21.6	22.5	23.0	20.9	21.8	21.3	22.3	22.7
	8H	21.4	22.3	21.9	22.8	23.2	21.1	22.0	21.6	22.5	22.9
	12H	21.7	22.5	22.2	23.0	23.4	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 = 1192 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.)