



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP22-FS1-UNV-20W-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-20W-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	2578
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	20
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	2266	2270	2274
55	2255	2255	2250
65	2182	2176	2163
75	2098	2026	1942
85	2005	1820	1635

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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	796	796	796	796	796
2.5	797	797	797	798	798
5.0	797	797	797	798	798
7.5	796	797	797	797	797
10.0	794	794	795	796	796
12.5	791	791	791	792	792
15.0	786	786	786	787	788
17.5	780	781	781	781	781
20.0	772	772	773	773	773
22.5	763	763	764	764	764
25.0	752	752	752	753	753
27.5	740	740	740	740	740
30.0	725	725	724	725	725
32.5	708	708	708	708	708
35.0	689	689	690	691	691
37.5	667	669	669	670	670
40.0	645	646	647	648	648
42.5	622	622	622	623	624
45.0	596	597	597	598	598
47.5	570	571	571	570	570
50.0	542	542	542	542	541
52.5	512	513	512	512	510
55.0	481	481	481	480	480
57.5	449	449	448	447	447
60.0	416	414	414	413	412
62.5	379	380	380	378	376
65.0	343	344	342	340	340
67.5	309	309	307	303	301
70.0	273	273	270	264	261
72.5	237	236	232	227	224
75.0	202	202	195	189	187
77.5	167	166	161	154	150
80.0	133	131	125	120	117
82.5	96	95	91	87	85
85.0	65	63	59	55	53
87.5	36	34	30	26	25
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	298.43	N.A.	11.60
0-30	645.48	N.A.	25.00
0-40	1076.87	N.A.	41.80
0-60	1966.65	N.A.	76.30
0-80	2511.77	N.A.	97.40
0-90	2577.79	N.A.	100.00
10-90	2501.75	N.A.	97.10
20-40	778.44	N.A.	30.20
20-50	1239.03	N.A.	48.10
40-70	1228.3	N.A.	47.60
60-80	545.12	N.A.	21.10
70-80	206.60	N.A.	8.00
80-90	66.02	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	2577.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.04
10-20	222.39
20-30	347.05
30-40	431.40
40-50	460.59
50-60	429.19
60-70	338.53
70-80	206.60
80-90	66.02
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	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

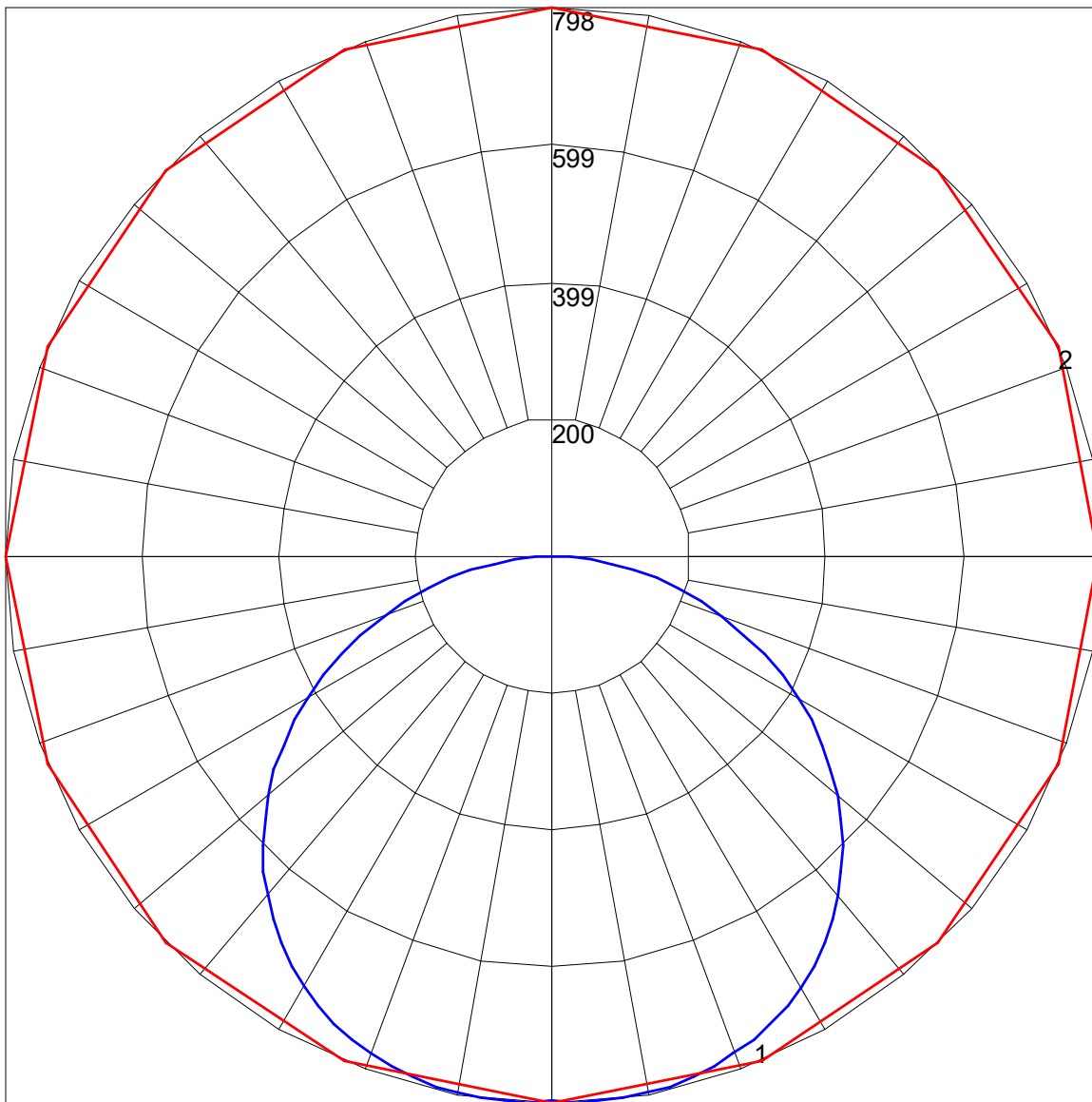
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.1	16.8	15.5	17.1	17.4	15.1	16.8	15.5	17.1	17.4
	3H	17.1	18.6	17.5	19.0	19.3	17.0	18.5	17.4	18.8	19.2
	4H	17.9	19.3	18.3	19.7	20.1	17.7	19.2	18.1	19.5	19.9
	6H	18.5	19.9	18.9	20.2	20.6	18.3	19.6	18.7	20.0	20.4
	8H	18.8	20.1	19.2	20.4	20.8	18.5	19.7	18.9	20.1	20.5
	12H	19.0	20.2	19.4	20.6	21.0	18.6	19.8	19.0	20.2	20.6
4H	2H	15.8	17.2	16.2	17.6	18.0	15.8	17.2	16.2	17.6	17.9
	3H	18.0	19.2	18.4	19.6	20.0	17.9	19.1	18.3	19.5	19.9
	4H	19.0	20.0	19.4	20.5	20.9	18.8	19.9	19.2	20.3	20.7
	6H	19.7	20.7	20.2	21.1	21.6	19.5	20.4	19.9	20.9	21.3
	8H	20.0	20.9	20.5	21.4	21.8	19.7	20.6	20.2	21.0	21.5
	12H	20.3	21.1	20.8	21.6	22.0	19.9	20.7	20.4	21.2	21.7
8H	4H	19.3	20.2	19.7	20.6	21.1	19.1	20.0	19.6	20.5	20.9
	6H	20.2	21.0	20.7	21.5	22.0	20.0	20.7	20.5	21.2	21.7
	8H	20.6	21.3	21.1	21.8	22.3	20.3	21.0	20.8	21.5	22.0
	12H	21.0	21.6	21.5	22.1	22.6	20.6	21.2	21.1	21.7	22.2
12H	4H	19.4	20.2	19.8	20.6	21.1	19.2	20.0	19.7	20.5	21.0
	6H	20.3	21.0	20.8	21.5	22.0	20.1	20.8	20.6	21.2	21.8
	8H	20.8	21.4	21.3	21.9	22.4	20.5	21.1	21.0	21.6	22.1

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 798 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.)