



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP22-FS1-UNV-20W-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-20W-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	2595
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	2281	2285	2289
55	2269	2269	2264
65	2195	2195	2176
75	2119	2046	1953
85	2036	1820	1666

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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	801	801	801	801	801
2.5	802	803	803	803	803
5.0	802	803	803	803	803
7.5	801	802	803	803	803
10.0	799	799	800	801	801
12.5	796	796	796	797	798
15.0	792	792	792	792	793
17.5	785	786	786	786	786
20.0	777	777	778	778	778
22.5	768	768	769	769	769
25.0	757	757	757	758	758
27.5	744	744	744	745	745
30.0	729	729	729	729	729
32.5	713	712	713	713	713
35.0	694	694	695	695	695
37.5	672	673	674	674	674
40.0	649	650	651	653	652
42.5	626	626	626	627	628
45.0	600	601	601	602	602
47.5	574	575	575	574	573
50.0	545	546	545	545	545
52.5	516	516	516	515	514
55.0	484	484	484	483	483
57.5	452	452	451	450	450
60.0	419	417	417	416	415
62.5	381	383	382	381	379
65.0	345	346	345	343	342
67.5	311	311	309	305	303
70.0	275	275	272	266	263
72.5	239	238	234	229	225
75.0	204	203	197	191	188
77.5	168	167	162	155	151
80.0	134	132	126	121	117
82.5	97	96	92	87	85
85.0	66	64	59	55	54
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	300.42	N.A.	11.60
0-30	649.65	N.A.	25.00
0-40	1083.87	N.A.	41.80
0-60	1979.52	N.A.	76.30
0-80	2528.59	N.A.	97.40
0-90	2595.03	N.A.	100.00
10-90	2518.47	N.A.	97.00
20-40	783.45	N.A.	30.20
20-50	1247.07	N.A.	48.10
40-70	1236.55	N.A.	47.70
60-80	549.07	N.A.	21.20
70-80	208.16	N.A.	8.00
80-90	66.44	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	2595.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.56
10-20	223.86
20-30	349.23
30-40	434.22
40-50	463.62
50-60	432.03
60-70	340.91
70-80	208.16
80-90	66.44
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

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

UGR Viewed Endwise

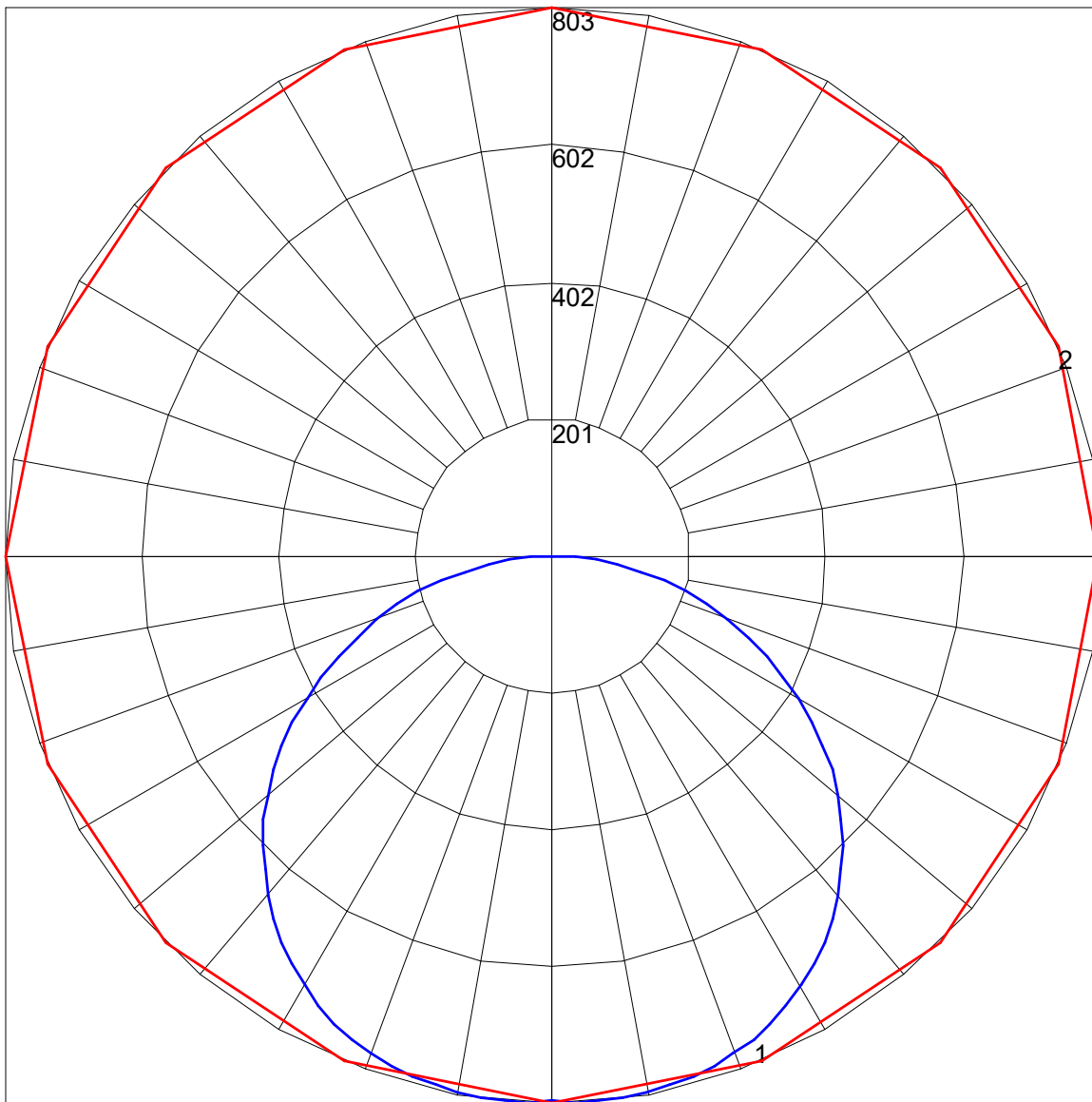
4H	2H	15.8	17.2	16.2	17.6	18.0	15.8	17.2	16.2	17.6	17.9
	3H	18.0	19.2	18.4	19.6	20.0	17.9	19.1	18.3	19.5	19.9
	4H	19.0	20.1	19.4	20.5	20.9	18.8	19.9	19.2	20.3	20.7
	6H	19.7	20.7	20.2	21.2	21.6	19.5	20.4	19.9	20.9	21.3
	8H	20.0	20.9	20.5	21.4	21.8	19.7	20.6	20.2	21.0	21.5
	12H	20.3	21.1	20.8	21.6	22.0	19.9	20.7	20.4	21.2	21.7

8H	4H	19.3	20.2	19.8	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 = 803 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)