



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP22-FS1-UNV-25W-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-25W-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	3132
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	25
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	2756	2756	2760
55	2742	2742	2733
65	2653	2646	2627
75	2555	2462	2358
85	2437	2190	2005

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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	968	968	968	968	968
2.5	968	969	969	970	970
5.0	968	969	969	970	970
7.5	968	968	969	969	969
10.0	965	965	966	967	967
12.5	961	961	961	962	963
15.0	956	956	956	957	957
17.5	948	949	949	949	949
20.0	938	938	939	939	939
22.5	927	927	928	928	928
25.0	914	914	914	915	915
27.5	899	899	899	900	900
30.0	881	881	880	881	881
32.5	861	860	861	861	861
35.0	838	838	839	839	839
37.5	811	813	813	814	814
40.0	784	785	786	788	787
42.5	756	756	756	757	759
45.0	725	725	725	726	726
47.5	693	694	694	693	692
50.0	658	659	658	658	657
52.5	623	623	623	622	620
55.0	585	585	585	583	583
57.5	546	545	544	544	543
60.0	506	503	503	502	501
62.5	460	462	461	460	457
65.0	417	418	416	414	413
67.5	375	375	373	368	366
70.0	331	331	328	321	317
72.5	288	287	282	276	272
75.0	246	245	237	230	227
77.5	203	202	195	187	183
80.0	161	159	152	146	142
82.5	117	116	111	105	103
85.0	79	77	71	66	65
87.5	44	41	36	32	30
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	362.69	N.A.	11.60
0-30	784.40	N.A.	25.00
0-40	1308.72	N.A.	41.80
0-60	2389.96	N.A.	76.30
0-80	3052.35	N.A.	97.40
0-90	3132.5	N.A.	100.00
10-90	3040.07	N.A.	97.00
20-40	946.03	N.A.	30.20
20-50	1505.67	N.A.	48.10
40-70	1492.6	N.A.	47.60
60-80	662.39	N.A.	21.10
70-80	251.03	N.A.	8.00
80-90	80.15	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	3132.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.43
10-20	270.26
20-30	421.71
30-40	524.32
40-50	559.64
50-60	521.60
60-70	411.36
70-80	251.03
80-90	80.15
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	15.8	17.5	16.2	17.8	18.1	UGR Viewed Endwise			
	3H	17.8	19.3	18.2	19.6	20.0	15.8	17.5	16.2	17.8
	4H	18.6	20.0	19.0	20.4	20.8	17.7	19.2	18.1	19.5
	6H	19.2	20.6	19.6	20.9	21.3	18.4	19.9	18.8	20.2
	8H	19.5	20.8	19.9	21.1	21.5	19.0	20.3	19.4	20.7
	12H	19.7	20.9	20.1	21.3	21.7	19.2	20.4	19.6	20.8

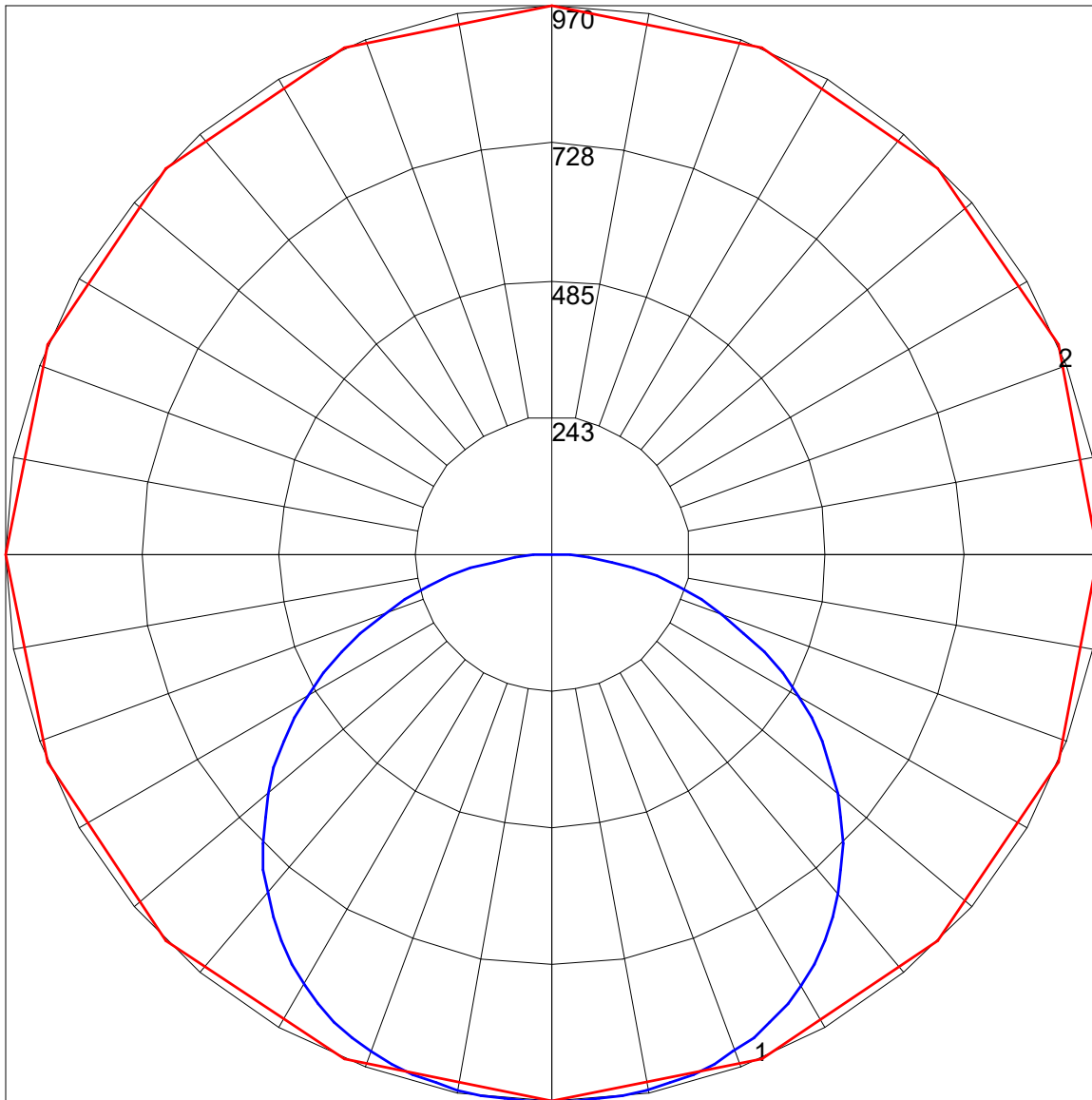
4H	2H	16.5	17.9	16.9	18.3	18.7	19.3	20.5	19.7	20.9
	3H	18.7	19.9	19.1	20.3	20.7	20.6	21.4	21.1	21.9
	4H	19.6	20.7	20.1	21.2	21.6	20.2	21.1	20.6	21.6
	6H	20.4	21.4	20.9	21.8	22.3	20.4	21.3	20.9	21.8
	8H	20.7	21.6	21.2	22.1	22.5	20.6	21.4	21.1	21.9
	12H	21.0	21.8	21.5	22.3	22.7				

8H	4H	20.0	20.9	20.4	21.3	21.8	21.3	21.9	21.8	22.4
	6H	20.9	21.7	21.4	22.2	22.7	21.0	21.7	21.5	22.2
	8H	21.3	22.0	21.8	22.5	23.0	20.7	21.4	21.2	21.9
	12H	21.7	22.3	22.2	22.8	23.3	19.8	20.7	20.3	21.2

12H	4H	20.0	20.9	20.5	21.3	21.8	20.8	21.5	21.3	21.9
	6H	21.0	21.7	21.5	22.2	22.7	21.2	21.8	21.7	22.3
	8H	21.5	22.1	22.0	22.6	23.1				

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 970 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.)