



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP22-FS1-UNV-25W-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-25W-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	3154
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	2775	2775	2779
55	2761	2761	2751
65	2672	2665	2646
75	2576	2483	2379
85	2468	2221	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	974	974	974	974	974
2.5	975	976	976	976	976
5.0	975	976	976	976	976
7.5	974	975	976	976	976
10.0	972	972	972	973	973
12.5	968	968	968	969	969
15.0	962	962	962	963	964
17.5	954	955	956	956	956
20.0	945	945	945	945	945
22.5	933	933	934	934	934
25.0	920	920	920	921	921
27.5	905	905	905	906	906
30.0	886	886	886	886	886
32.5	867	866	867	867	867
35.0	843	843	844	845	845
37.5	816	818	819	820	820
40.0	789	790	792	793	792
42.5	761	761	761	762	764
45.0	730	730	730	731	731
47.5	698	698	698	698	697
50.0	663	663	663	663	662
52.5	627	628	627	626	624
55.0	589	589	589	587	587
57.5	550	549	548	547	546
60.0	509	507	507	506	504
62.5	464	465	464	463	460
65.0	420	421	419	417	416
67.5	378	378	375	370	368
70.0	334	334	331	323	319
72.5	290	289	284	278	274
75.0	248	247	239	232	229
77.5	205	203	197	188	184
80.0	162	160	153	147	143
82.5	118	116	112	106	104
85.0	80	77	72	67	65
87.5	44	41	37	32	30
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	365.16	N.A.	11.60
0-30	789.62	N.A.	25.00
0-40	1317.43	N.A.	41.80
0-60	2406.05	N.A.	76.30
0-80	3073.22	N.A.	97.40
0-90	3153.95	N.A.	100.00
10-90	3060.89	N.A.	97.00
20-40	952.27	N.A.	30.20
20-50	1515.68	N.A.	48.10
40-70	1502.87	N.A.	47.70
60-80	667.18	N.A.	21.20
70-80	252.92	N.A.	8.00
80-90	80.73	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	3153.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.06
10-20	272.10
20-30	424.46
30-40	527.81
40-50	563.41
50-60	525.21
60-70	414.25
70-80	252.92
80-90	80.73
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	15.8	17.5	16.2	17.8	18.1	UGR Viewed Endwise			
	3H	17.8	19.3	18.2	19.7	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

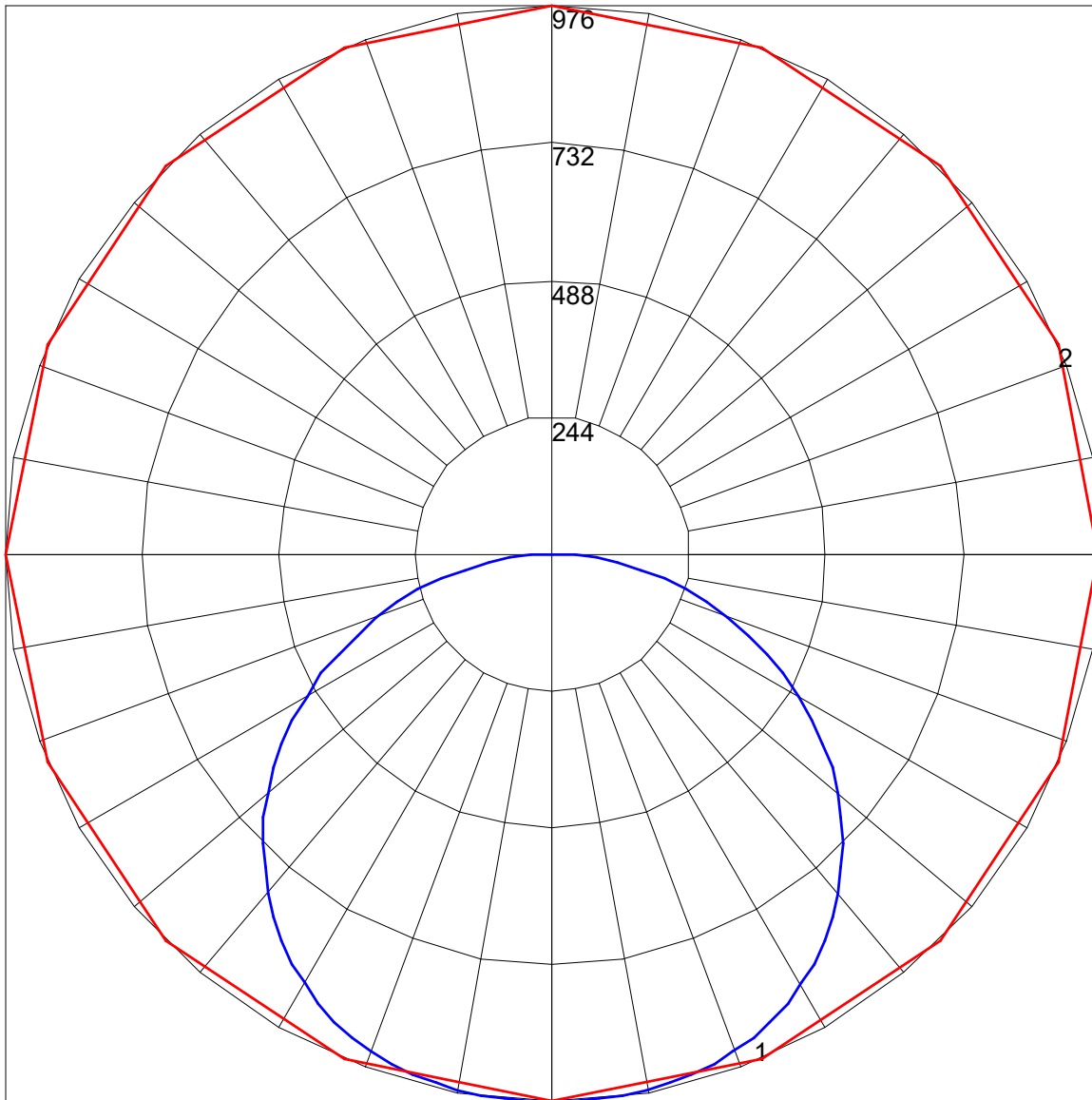
4H	2H	16.5	17.9	16.9	18.3	18.7	19.3	20.5	19.7	20.9
	3H	18.7	19.9	19.1	20.3	20.7	16.5	17.9	16.9	18.3
	4H	19.7	20.7	20.1	21.2	21.6	18.6	19.8	19.0	20.2
	6H	20.4	21.4	20.9	21.8	22.3	19.5	20.6	19.9	21.0
	8H	20.7	21.6	21.2	22.1	22.5	20.2	21.1	20.6	21.6
	12H	21.0	21.8	21.5	22.3	22.7	20.4	21.3	20.9	21.8

8H	4H	20.0	20.9	20.5	21.3	21.8	20.6	21.4	21.1	21.9
	6H	20.9	21.7	21.4	22.2	22.7	19.8	20.7	20.3	21.2
	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	21.0	21.7	21.5	22.2

12H	4H	20.1	20.9	20.5	21.3	21.8	21.3	21.9	21.8	22.4
	6H	21.0	21.7	21.5	22.2	22.7	19.9	20.7	20.4	21.2
	8H	21.5	22.1	22.0	22.6	23.1	20.8	21.5	21.3	21.9

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 976 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.)