



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP14-FS1-UNV-25W-3500K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-14550
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 12/14/23
[ISSUEDATE] 12/19/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] ABP14-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	3114
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)	1.38
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2779	2722	2665
55	2775	2705	2648
65	2729	2634	2570
75	2597	2514	2451
85	2684	2499	2375

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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	955	955	955	955	955
2.5	966	962	957	953	949
5.0	967	963	957	953	949
7.5	965	960	956	951	948
10.0	963	958	953	948	944
12.5	959	953	948	943	940
15.0	954	949	943	938	935
17.5	946	942	936	929	926
20.0	938	932	925	920	916
22.5	926	922	913	908	904
25.0	913	909	900	893	889
27.5	898	894	885	877	872
30.0	882	877	868	859	854
32.5	861	857	848	839	833
35.0	841	837	826	817	810
37.5	816	811	802	792	786
40.0	790	786	775	766	759
42.5	763	756	747	738	731
45.0	731	726	716	708	701
47.5	698	695	684	677	670
50.0	664	660	649	643	637
52.5	629	624	614	606	602
55.0	592	587	577	570	565
57.5	552	548	538	530	524
60.0	513	508	498	491	486
62.5	470	465	457	449	444
65.0	429	424	414	408	404
67.5	383	378	371	366	361
70.0	337	334	329	324	320
72.5	294	291	285	280	277
75.0	250	247	242	238	236
77.5	207	206	199	195	191
80.0	166	164	160	156	152
82.5	126	124	119	116	114
85.0	87	84	81	78	77
87.5	47	45	44	42	40
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	357.84	N.A.	11.50
0-30	773.34	N.A.	24.80
0-40	1290.05	N.A.	41.40
0-60	2358.75	N.A.	75.70
0-80	3025.61	N.A.	97.20
0-90	3113.92	N.A.	100.00
10-90	3022.67	N.A.	97.10
20-40	932.21	N.A.	29.90
20-50	1484.92	N.A.	47.70
40-70	1479.16	N.A.	47.50
60-80	666.86	N.A.	21.40
70-80	256.40	N.A.	8.20
80-90	88.31	N.A.	2.80
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	3113.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.25
10-20	266.60
20-30	415.50
30-40	516.71
40-50	552.70
50-60	516.00
60-70	410.46
70-80	256.40
80-90	88.31
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	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22

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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	15.6	17.2	15.9	17.5	17.9
	3H	17.8	19.3	18.2	19.7	20.0	17.5	19.0	17.9	19.4	19.7
	4H	18.6	20.0	19.0	20.4	20.8	18.3	19.8	18.7	20.1	20.5
	6H	19.3	20.6	19.7	21.0	21.4	18.9	20.3	19.3	20.6	21.0
	8H	19.5	20.8	20.0	21.2	21.6	19.2	20.5	19.6	20.8	21.2
	12H	19.7	21.0	20.2	21.4	21.8	19.4	20.6	19.8	21.0	21.4

UGR Viewed Endwise

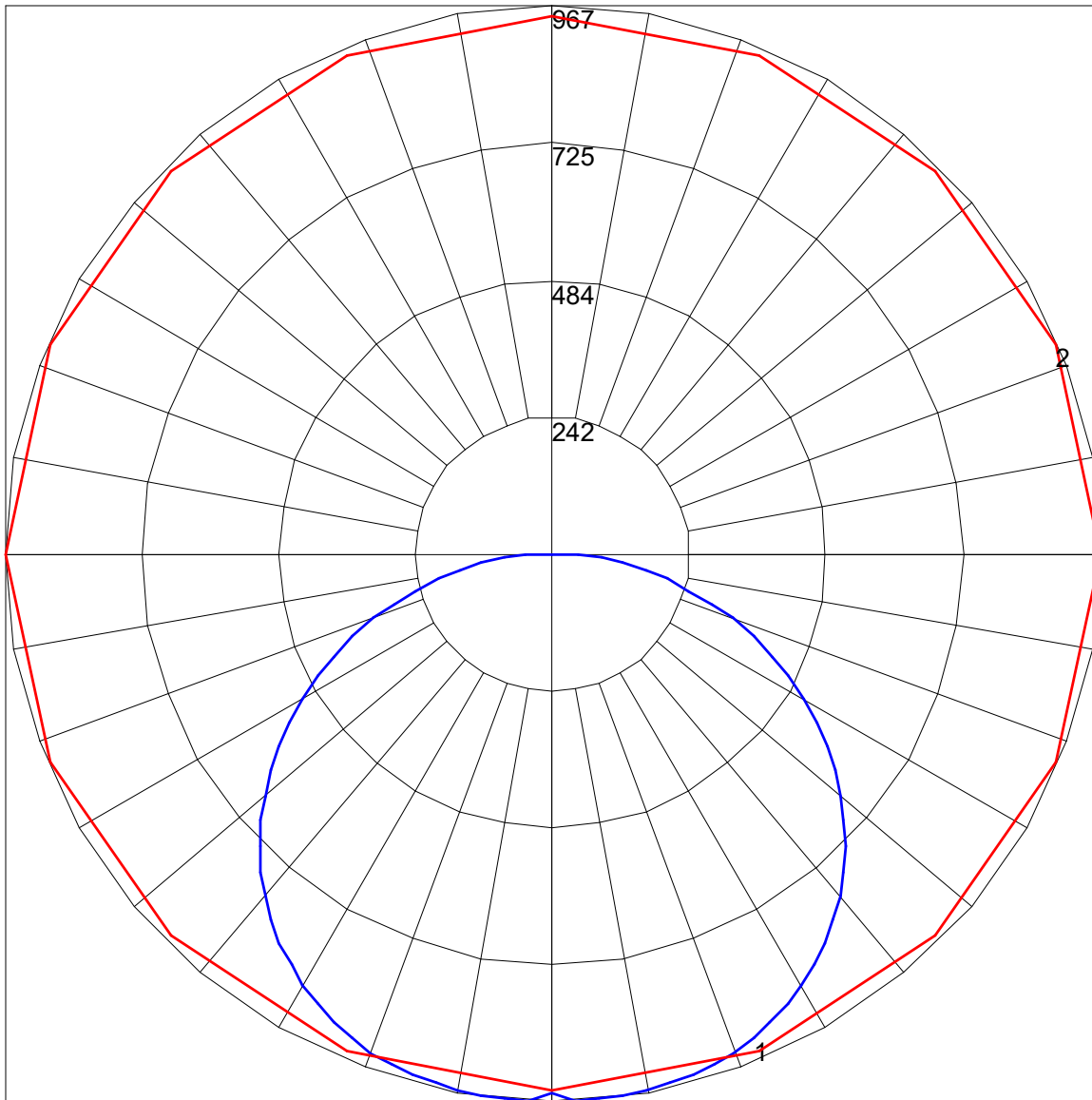
4H	2H	16.5	17.9	16.9	18.3	18.6	16.3	17.7	16.7	18.1	18.4
	3H	18.7	19.9	19.1	20.3	20.7	18.5	19.7	18.9	20.1	20.5
	4H	19.6	20.7	20.1	21.2	21.6	19.4	20.5	19.8	20.9	21.3
	6H	20.5	21.4	20.9	21.9	22.3	20.2	21.1	20.6	21.6	22.0
	8H	20.8	21.7	21.2	22.1	22.6	20.5	21.4	20.9	21.8	22.3
	12H	21.1	21.9	21.5	22.4	22.8	20.7	21.5	21.2	22.0	22.5

8H	4H	20.0	20.9	20.5	21.4	21.8	19.8	20.7	20.2	21.1	21.6
	6H	21.0	21.7	21.5	22.2	22.7	20.7	21.5	21.2	22.0	22.4
	8H	21.4	22.1	21.9	22.6	23.1	21.1	21.8	21.6	22.3	22.8
	12H	21.8	22.4	22.3	22.9	23.4	21.5	22.1	22.0	22.6	23.1

12H	4H	20.0	20.9	20.5	21.4	21.8	19.8	20.7	20.3	21.1	21.6
	6H	21.1	21.8	21.6	22.2	22.8	20.8	21.5	21.3	22.0	22.5
	8H	21.6	22.2	22.1	22.7	23.2	21.3	21.9	21.8	22.4	22.9

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 967 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)