



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP14-FS1-UNV-25W-5000K.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-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	3112
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	2775	2722	2665
55	2775	2700	2644
65	2723	2634	2570
75	2597	2524	2441
85	2684	2499	2406

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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	954	954	954	954	954
2.5	966	961	956	952	949
5.0	966	962	956	952	949
7.5	965	960	955	950	948
10.0	962	957	952	948	944
12.5	958	952	948	943	939
15.0	954	949	943	938	934
17.5	945	941	935	928	926
20.0	938	932	925	920	915
22.5	926	922	912	908	903
25.0	912	908	899	893	889
27.5	898	894	884	877	871
30.0	882	876	867	859	854
32.5	861	857	847	838	832
35.0	840	836	826	817	810
37.5	815	810	802	791	785
40.0	790	785	775	766	758
42.5	762	756	747	738	730
45.0	730	726	716	707	701
47.5	698	694	683	677	670
50.0	664	659	649	643	637
52.5	628	624	614	605	602
55.0	592	587	576	569	564
57.5	552	547	537	530	524
60.0	512	508	497	490	485
62.5	470	465	456	449	444
65.0	428	425	414	408	404
67.5	382	377	371	366	360
70.0	337	334	329	324	319
72.5	294	291	285	280	277
75.0	250	248	243	238	235
77.5	207	206	199	194	192
80.0	166	164	159	155	152
82.5	126	124	119	115	114
85.0	87	84	81	78	78
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	357.65	N.A.	11.50
0-30	772.95	N.A.	24.80
0-40	1289.32	N.A.	41.40
0-60	2357.28	N.A.	75.70
0-80	3023.86	N.A.	97.20
0-90	3112.07	N.A.	100.00
10-90	3020.88	N.A.	97.10
20-40	931.67	N.A.	29.90
20-50	1484.09	N.A.	47.70
40-70	1478.16	N.A.	47.50
60-80	666.58	N.A.	21.40
70-80	256.38	N.A.	8.20
80-90	88.21	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	3112.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.18
10-20	266.46
20-30	415.30
30-40	516.37
40-50	552.43
50-60	515.54
60-70	410.19
70-80	256.38
80-90	88.21
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	69	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	40	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	17.6	17.9
	3H	17.8	19.3	18.2	19.6	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

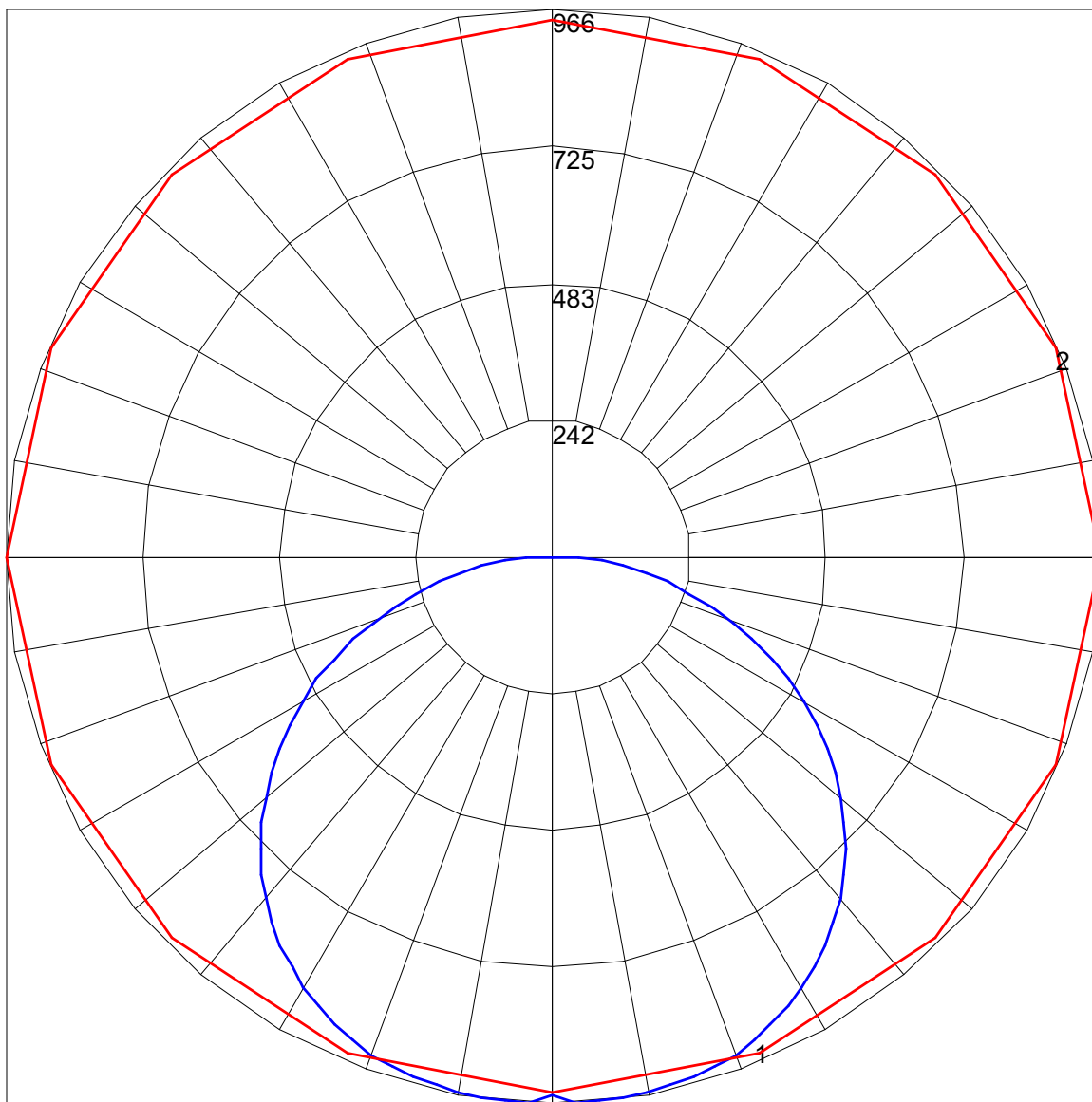
4H	2H	16.5	17.9	16.9	18.3	18.6	16.3	17.7	16.7	18.1	18.4
	3H	18.7	19.9	19.1	20.3	20.7	18.5	19.7	18.9	20.1	20.5
	4H	19.6	20.7	20.1	21.2	21.6	19.4	20.5	19.8	20.9	21.3
	6H	20.5	21.4	20.9	21.9	22.3	20.2	21.1	20.6	21.6	22.0
	8H	20.8	21.7	21.2	22.1	22.6	20.5	21.4	20.9	21.8	22.3
	12H	21.1	21.9	21.5	22.4	22.8	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	22.5	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 = 966 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)