



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP14-FS1-UNV-25W-4000K.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-4000K
[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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3170
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	2833	2772	2715
55	2822	2751	2695
65	2780	2678	2621
75	2638	2566	2493
85	2745	2560	2437

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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	972	972	972	972	972
2.5	983	979	974	970	966
5.0	984	980	974	970	966
7.5	983	978	973	968	965
10.0	980	975	970	965	961
12.5	976	970	965	960	957
15.0	971	966	960	955	952
17.5	963	959	952	946	943
20.0	955	949	942	936	932
22.5	943	939	930	924	920
25.0	930	925	916	909	905
27.5	914	910	901	893	888
30.0	898	892	883	875	870
32.5	877	873	863	854	848
35.0	856	852	841	831	825
37.5	831	826	817	806	800
40.0	805	800	789	780	773
42.5	776	770	761	751	744
45.0	745	739	729	721	714
47.5	710	707	696	689	682
50.0	676	672	661	654	649
52.5	640	635	625	617	613
55.0	602	598	587	580	575
57.5	562	558	548	540	533
60.0	522	517	507	499	495
62.5	478	473	465	457	452
65.0	437	432	421	415	412
67.5	390	385	378	373	367
70.0	343	340	335	330	326
72.5	299	296	290	285	282
75.0	254	252	247	242	240
77.5	211	209	203	198	195
80.0	169	167	162	158	155
82.5	128	127	121	118	116
85.0	89	85	83	80	79
87.5	48	46	45	43	41
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	364.26	N.A.	11.50
0-30	787.25	N.A.	24.80
0-40	1313.29	N.A.	41.40
0-60	2401.21	N.A.	75.70
0-80	3079.98	N.A.	97.20
0-90	3169.99	N.A.	100.00
10-90	3077.1	N.A.	97.10
20-40	949.03	N.A.	29.90
20-50	1511.69	N.A.	47.70
40-70	1505.74	N.A.	47.50
60-80	678.77	N.A.	21.40
70-80	260.95	N.A.	8.20
80-90	90.01	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	3169.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.88
10-20	271.38
20-30	422.99
30-40	526.05
40-50	562.66
50-60	525.25
60-70	417.82
70-80	260.95
80-90	90.01
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	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

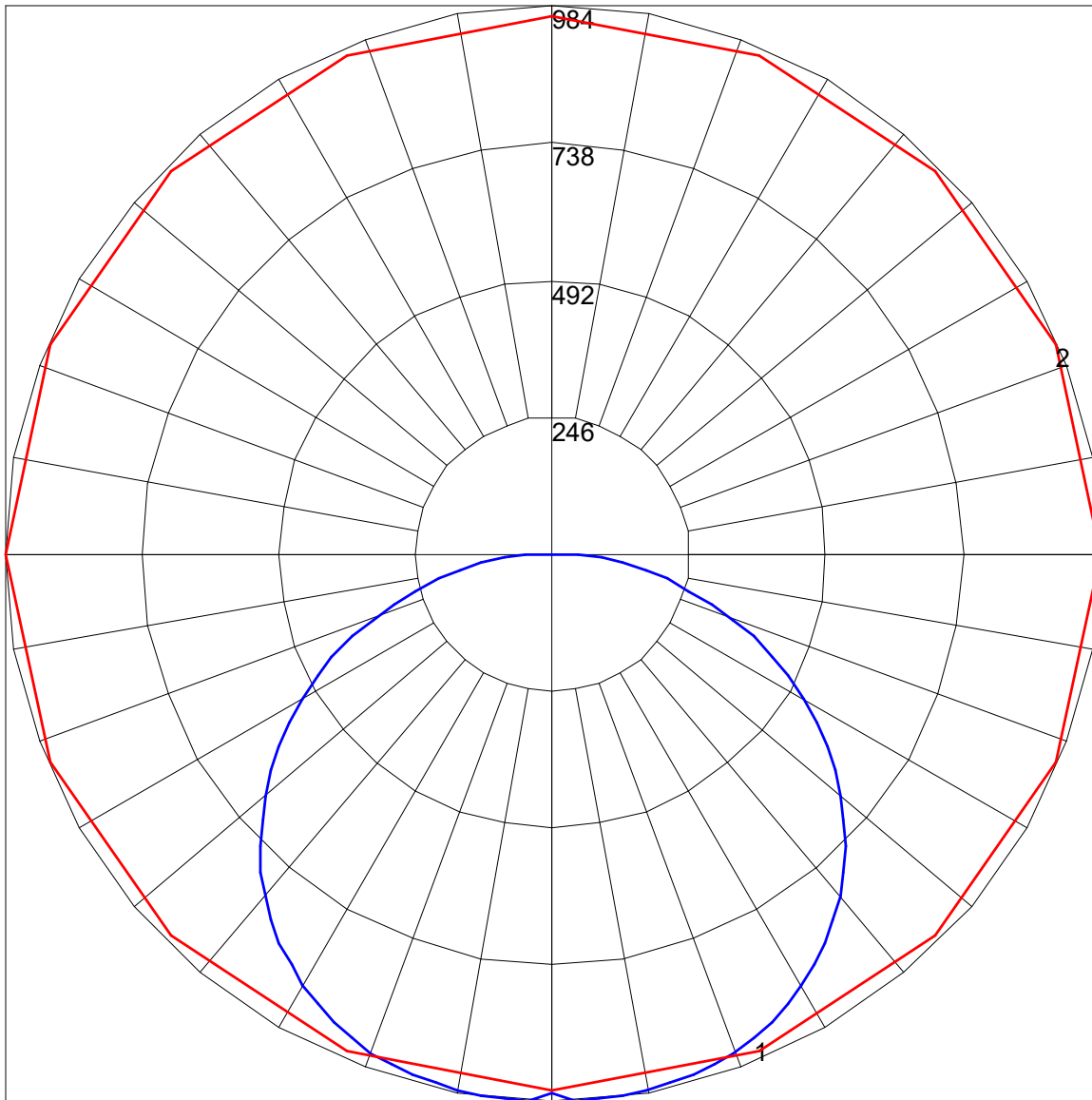
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.9	17.6	16.3	17.9	18.2	15.7	17.3	16.0	17.7	18.0
	3H	17.9	19.4	18.3	19.8	20.1	17.6	19.2	18.0	19.5	19.8
	4H	18.7	20.1	19.1	20.5	20.9	18.4	19.9	18.8	20.2	20.6
	6H	19.4	20.7	19.8	21.1	21.5	19.0	20.4	19.4	20.7	21.1
	8H	19.6	20.9	20.1	21.3	21.7	19.3	20.6	19.7	20.9	21.3
	12H	19.8	21.1	20.3	21.5	21.9	19.5	20.7	19.9	21.1	21.5
4H	2H	16.6	18.0	17.0	18.4	18.7	16.4	17.8	16.8	18.2	18.5
	3H	18.8	20.0	19.2	20.4	20.8	18.6	19.8	19.0	20.2	20.6
	4H	19.7	20.8	20.2	21.3	21.7	19.5	20.6	19.9	21.0	21.4
	6H	20.6	21.5	21.0	22.0	22.4	20.3	21.2	20.7	21.7	22.1
	8H	20.9	21.8	21.3	22.2	22.7	20.6	21.5	21.0	21.9	22.4
	12H	21.2	22.0	21.6	22.5	22.9	20.8	21.6	21.3	22.1	22.6
8H	4H	20.1	21.0	20.6	21.5	21.9	19.9	20.8	20.3	21.2	21.7
	6H	21.1	21.8	21.6	22.3	22.8	20.8	21.6	21.3	22.1	22.5
	8H	21.5	22.2	22.0	22.7	23.2	21.2	21.9	21.7	22.4	22.9
	12H	21.9	22.5	22.4	23.0	23.5	21.6	22.2	22.1	22.7	23.2
12H	4H	20.1	21.0	20.6	21.5	21.9	19.9	20.8	20.4	21.2	21.7
	6H	21.2	21.9	21.7	22.3	22.9	20.9	21.6	21.4	22.1	22.6
	8H	21.7	22.3	22.2	22.8	23.3	21.4	22.0	21.9	22.5	23.0

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 984 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.)