



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP14-FS1-UNV-30W-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-30W-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	3904
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	30
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	3486	3414	3342
55	3478	3389	3319
65	3422	3302	3225
75	3251	3158	3075
85	3362	3146	2992

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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	1197	1197	1197	1197	1197
2.5	1211	1206	1200	1195	1190
5.0	1212	1207	1200	1195	1190
7.5	1210	1204	1198	1192	1188
10.0	1207	1201	1195	1189	1184
12.5	1202	1195	1189	1182	1178
15.0	1196	1190	1182	1176	1172
17.5	1186	1181	1173	1165	1161
20.0	1176	1169	1160	1153	1148
22.5	1161	1156	1145	1138	1133
25.0	1145	1139	1128	1120	1115
27.5	1126	1121	1110	1100	1093
30.0	1106	1099	1088	1077	1071
32.5	1080	1075	1063	1052	1044
35.0	1054	1049	1036	1024	1016
37.5	1023	1017	1006	993	985
40.0	991	985	972	960	952
42.5	956	948	937	925	916
45.0	917	910	898	888	879
47.5	875	871	857	849	840
50.0	833	827	814	806	799
52.5	788	782	770	760	755
55.0	742	736	723	714	708
57.5	692	687	675	665	657
60.0	643	637	624	615	609
62.5	589	583	573	563	557
65.0	538	532	519	511	507
67.5	480	474	465	459	452
70.0	423	419	412	406	401
72.5	368	365	357	351	347
75.0	313	310	304	298	296
77.5	260	258	250	244	240
80.0	208	206	200	195	191
82.5	158	156	149	145	143
85.0	109	105	102	98	97
87.5	59	57	55	53	50
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	448.63	N.A.	11.50
0-30	969.58	N.A.	24.80
0-40	1617.42	N.A.	41.40
0-60	2957.24	N.A.	75.70
0-80	3793.23	N.A.	97.20
0-90	3904.01	N.A.	100.00
10-90	3789.61	N.A.	97.10
20-40	1168.79	N.A.	29.90
20-50	1861.73	N.A.	47.70
40-70	1854.38	N.A.	47.50
60-80	835.99	N.A.	21.40
70-80	321.43	N.A.	8.20
80-90	110.78	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	3904.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	114.40
10-20	334.24
20-30	520.94
30-40	647.84
40-50	692.94
50-60	646.88
60-70	514.56
70-80	321.43
80-90	110.78
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	16.6	18.3	17.0	18.6	18.9	UGR Viewed Endwise			
	3H	18.6	20.1	19.0	20.5	20.8	16.4	18.0	16.7	18.4
	4H	19.4	20.8	19.8	21.2	21.6	18.3	19.8	18.7	20.2
	6H	20.1	21.4	20.5	21.8	22.2	19.1	20.6	19.5	20.9
	8H	20.3	21.6	20.8	22.0	22.4	19.7	21.1	20.1	21.4
	12H	20.5	21.8	21.0	22.2	22.6	20.0	21.3	20.4	21.6

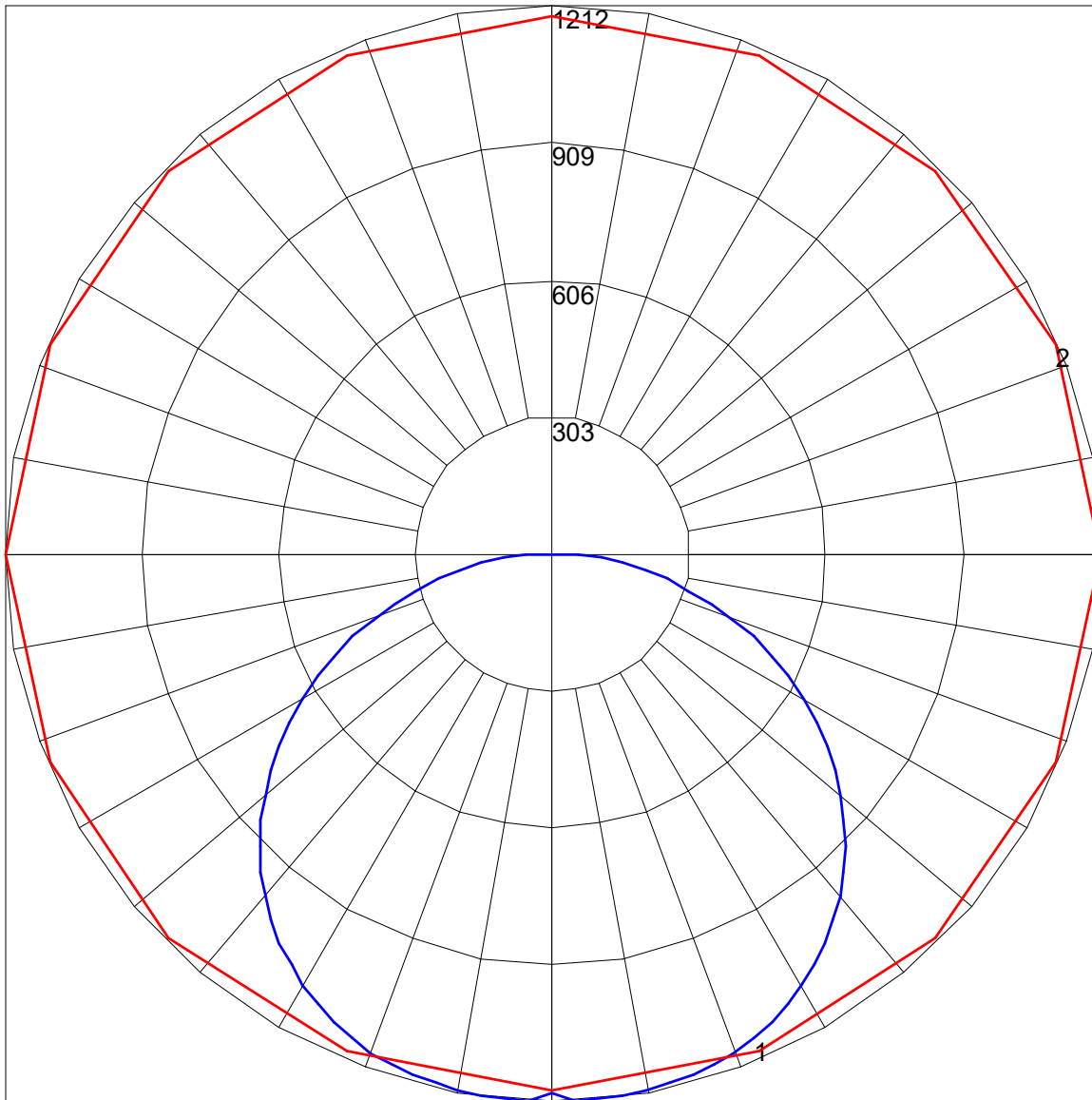
4H	2H	17.3	18.7	17.7	19.1	19.4	20.2	21.3	20.6	21.7
	3H	19.5	20.7	19.9	21.1	21.5	21.0	21.9	21.4	22.4
	4H	20.4	21.5	20.9	22.0	22.4	21.3	22.2	21.7	22.6
	6H	21.3	22.2	21.7	22.7	23.1	21.5	22.3	22.0	22.8
	8H	21.6	22.5	22.0	22.9	23.4	21.9	22.6	22.4	23.1
	12H	21.9	22.7	22.3	23.2	23.6	22.3	22.9	22.8	23.3

8H	4H	20.8	21.7	21.3	22.2	22.6	20.6	21.5	21.0	21.9
	6H	21.8	22.5	22.3	23.0	23.5	21.5	22.3	22.0	22.8
	8H	22.2	22.9	22.7	23.4	23.9	21.9	22.6	22.4	23.1
	12H	22.6	23.2	23.1	23.7	24.2	22.3	22.9	22.8	23.3

12H	4H	20.8	21.7	21.3	22.2	22.6	20.6	21.5	21.1	21.9
	6H	21.9	22.6	22.4	23.0	23.6	21.6	22.3	22.1	22.8
	8H	22.4	23.0	22.9	23.5	24.0	22.1	22.7	22.6	23.2

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1212 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.)