



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP14-FS1-UNV-30W-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-30W-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	3835
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	3426	3353	3281
55	3417	3328	3258
65	3359	3244	3168
75	3189	3106	3023
85	3301	3085	2930

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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	1176	1176	1176	1176	1176
2.5	1190	1185	1179	1174	1169
5.0	1191	1186	1179	1174	1169
7.5	1189	1183	1177	1171	1167
10.0	1186	1180	1174	1168	1163
12.5	1181	1174	1168	1161	1157
15.0	1175	1169	1161	1155	1151
17.5	1165	1160	1152	1144	1140
20.0	1155	1148	1139	1133	1128
22.5	1140	1136	1125	1118	1113
25.0	1125	1119	1108	1100	1095
27.5	1106	1101	1090	1081	1074
30.0	1086	1080	1069	1058	1052
32.5	1061	1056	1044	1033	1026
35.0	1035	1030	1018	1006	998
37.5	1005	999	988	975	968
40.0	973	968	955	943	935
42.5	939	931	920	909	900
45.0	901	894	882	872	863
47.5	860	856	842	834	825
50.0	818	812	800	792	785
52.5	774	768	756	747	742
55.0	729	723	710	701	695
57.5	680	675	663	653	645
60.0	632	626	613	604	598
62.5	579	573	563	553	547
65.0	528	523	510	502	498
67.5	472	466	457	451	444
70.0	416	412	405	399	394
72.5	361	359	351	345	341
75.0	307	305	299	293	291
77.5	255	253	246	240	236
80.0	204	202	196	192	188
82.5	155	153	146	142	140
85.0	107	103	100	96	95
87.5	58	56	54	52	49
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	440.69	N.A.	11.50
0-30	952.44	N.A.	24.80
0-40	1588.81	N.A.	41.40
0-60	2904.91	N.A.	75.70
0-80	3726.43	N.A.	97.20
0-90	3835.08	N.A.	100.00
10-90	3722.69	N.A.	97.10
20-40	1148.11	N.A.	29.90
20-50	1828.82	N.A.	47.70
40-70	1821.72	N.A.	47.50
60-80	821.53	N.A.	21.40
70-80	315.90	N.A.	8.20
80-90	108.65	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	3835.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	112.39
10-20	328.30
20-30	511.75
30-40	636.36
40-50	680.71
50-60	635.39
60-70	505.63
70-80	315.90
80-90	108.65
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	18.3
	4H	19.4	20.9	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

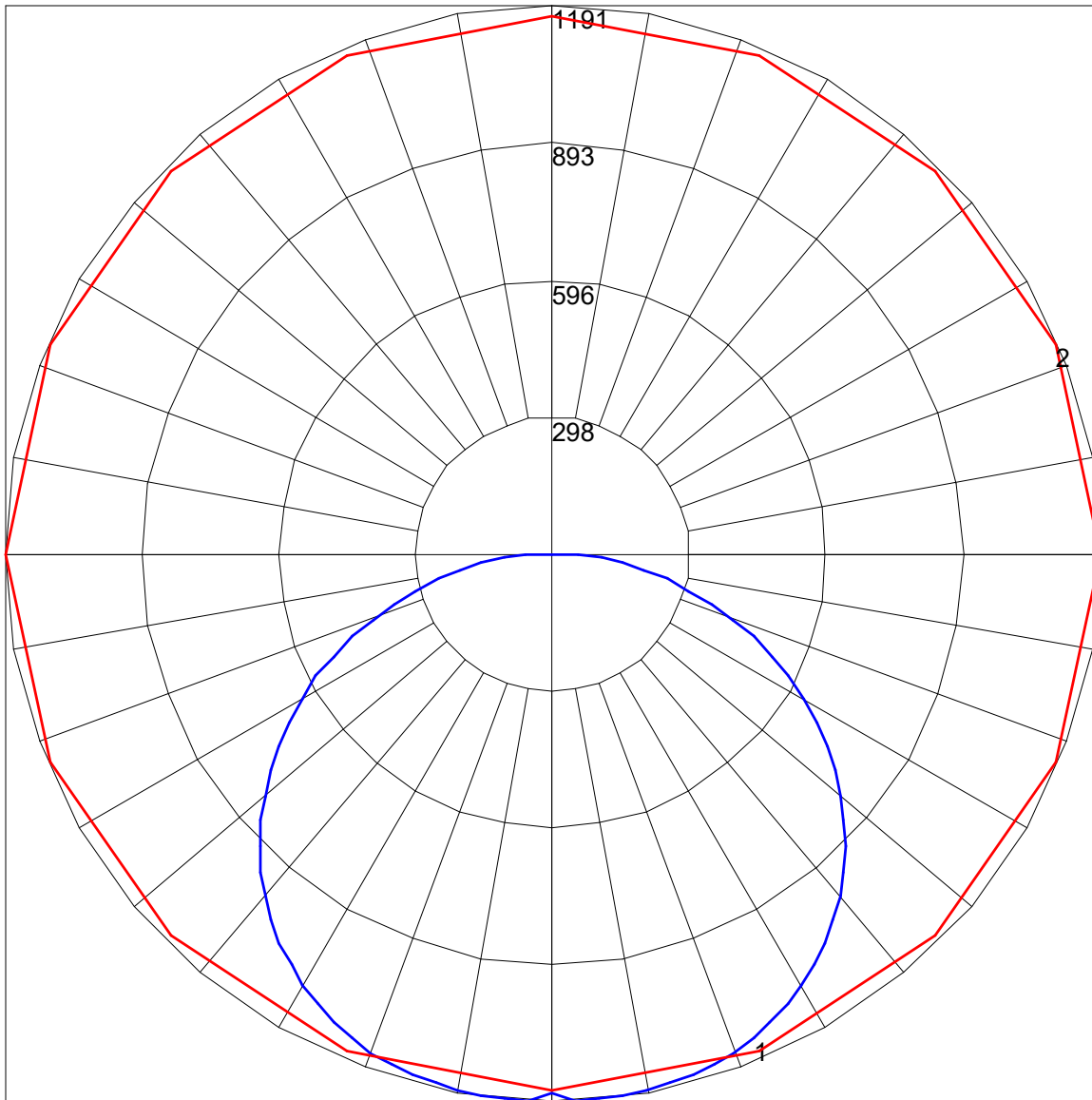
4H	2H	17.3	18.7	17.7	19.1	19.4	20.2	21.3	20.6	21.7
	3H	19.5	20.7	19.9	21.1	21.5	21.0	21.9	21.4	22.4
	4H	20.4	21.5	20.9	22.0	22.4	21.3	22.2	21.7	22.6
	6H	21.3	22.2	21.7	22.7	23.1	21.5	22.3	22.0	22.8
	8H	21.6	22.5	22.0	22.9	23.4	21.9	22.6	22.4	23.1
	12H	21.9	22.7	22.3	23.2	23.6	22.3	22.9	22.8	23.3

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	20.9	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 = 1191 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.)