



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP14-FS1-UNV-30W-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-30W-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	3832
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	3422	3350	3281
55	3412	3328	3258
65	3359	3238	3168
75	3189	3095	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	1175	1175	1175	1175	1175
2.5	1189	1184	1178	1173	1168
5.0	1190	1185	1178	1173	1168
7.5	1188	1182	1176	1170	1166
10.0	1185	1179	1173	1167	1162
12.5	1180	1173	1167	1160	1156
15.0	1174	1168	1160	1154	1150
17.5	1164	1159	1151	1144	1140
20.0	1154	1147	1139	1132	1127
22.5	1140	1135	1124	1117	1112
25.0	1124	1118	1107	1099	1094
27.5	1105	1100	1090	1080	1073
30.0	1086	1079	1068	1057	1051
32.5	1060	1055	1043	1033	1025
35.0	1035	1030	1017	1005	997
37.5	1004	998	987	975	967
40.0	973	967	954	942	934
42.5	938	931	920	908	899
45.0	900	893	881	872	863
47.5	859	855	841	833	825
50.0	818	812	799	791	784
52.5	773	768	756	746	741
55.0	728	722	710	701	695
57.5	679	674	663	653	645
60.0	631	625	612	604	598
62.5	578	572	562	553	547
65.0	528	522	509	502	498
67.5	471	465	456	451	444
70.0	415	411	404	399	394
72.5	361	358	350	345	341
75.0	307	304	298	293	291
77.5	255	253	245	239	236
80.0	204	202	196	191	187
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	440.36	N.A.	11.50
0-30	951.71	N.A.	24.80
0-40	1587.6	N.A.	41.40
0-60	2902.75	N.A.	75.80
0-80	3723.16	N.A.	97.20
0-90	3831.76	N.A.	100.00
10-90	3719.46	N.A.	97.10
20-40	1147.24	N.A.	29.90
20-50	1827.42	N.A.	47.70
40-70	1820.18	N.A.	47.50
60-80	820.41	N.A.	21.40
70-80	315.37	N.A.	8.20
80-90	108.60	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	3831.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	112.30
10-20	328.06
20-30	511.35
30-40	635.89
40-50	680.17
50-60	634.97
60-70	505.04
70-80	315.37
80-90	108.60
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	16.6	18.3	17.0	18.6	18.9	UGR Viewed Endwise			
	3H	18.6	20.1	19.0	20.4	20.8	16.4	18.0	16.7	18.4
	4H	19.4	20.8	19.8	21.2	21.6	18.3	19.9	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	20.7	22.0	22.4	19.7	21.1	20.1	21.4
	12H	20.5	21.8	21.0	22.1	22.6	20.0	21.3	20.4	21.6

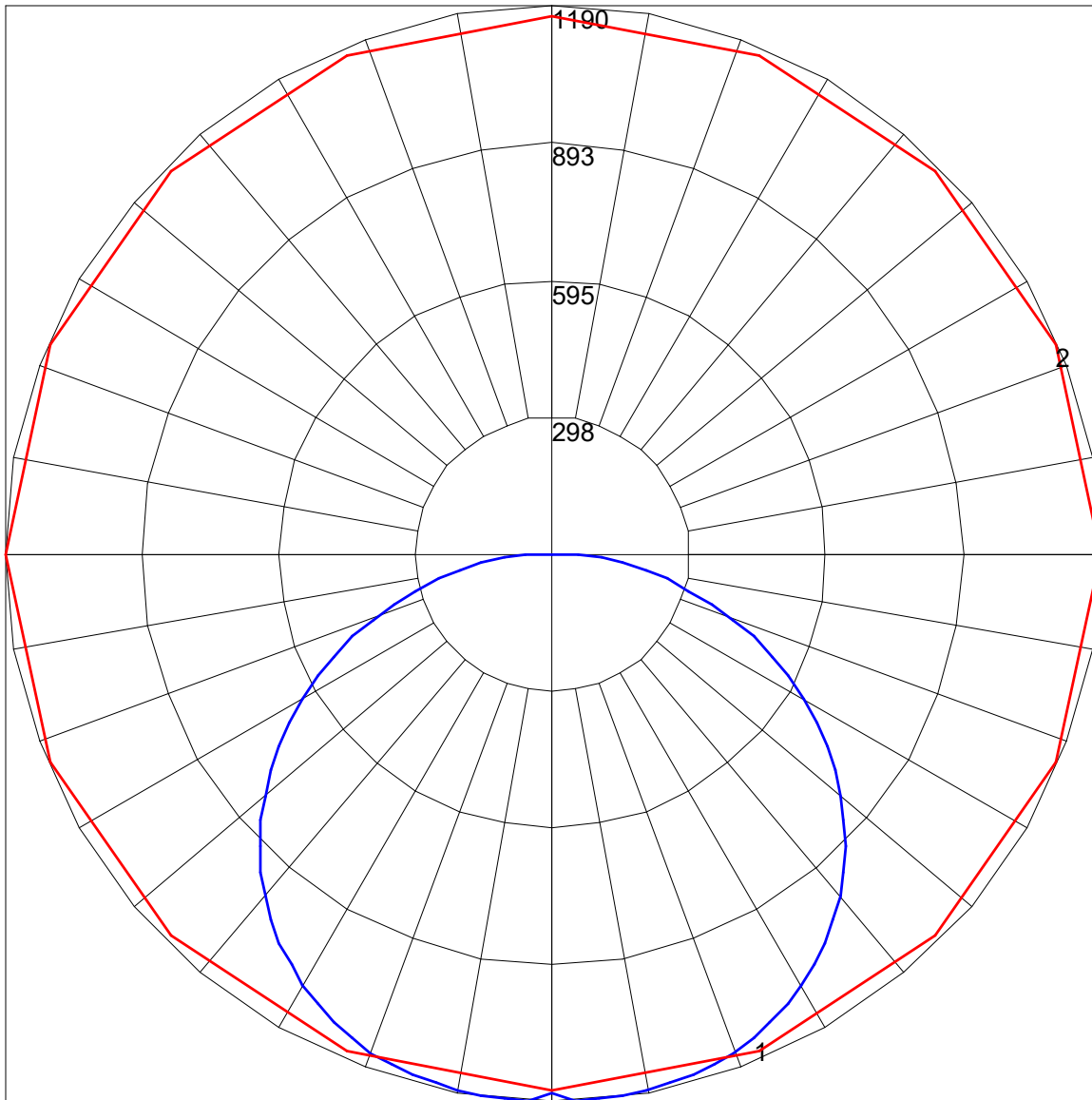
4H	2H	17.3	18.7	17.7	19.1	19.4	20.2	21.3	20.6	21.7
	3H	19.5	20.7	19.9	21.1	21.5	21.0	21.9	21.4	22.4
	4H	20.4	21.5	20.9	22.0	22.4	21.3	22.2	21.7	22.6
	6H	21.3	22.2	21.7	22.7	23.1	21.5	22.3	22.0	22.8
	8H	21.6	22.5	22.0	22.9	23.4	21.9	22.6	22.4	23.1
	12H	21.8	22.7	22.3	23.2	23.6	22.3	22.9	22.8	23.3

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	22.1	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 = 1190 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.)