



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP14-FS1-UNV-20W-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-20W-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	2565
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	20
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	2293	2243	2198
55	2283	2226	2180
65	2252	2169	2118
75	2140	2077	2015
85	2221	2067	1974

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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	786	786	786	786	786
2.5	795	792	788	785	782
5.0	796	793	788	785	782
7.5	795	791	787	783	781
10.0	793	789	785	781	778
12.5	790	785	781	777	774
15.0	786	782	777	773	770
17.5	779	776	770	765	763
20.0	773	768	762	757	754
22.5	763	760	753	748	744
25.0	753	748	741	736	732
27.5	740	736	729	723	719
30.0	727	722	714	708	704
32.5	710	706	698	691	686
35.0	693	689	680	672	668
37.5	672	668	661	652	647
40.0	651	647	638	631	625
42.5	628	623	616	608	602
45.0	603	598	590	583	578
47.5	574	572	563	558	552
50.0	547	544	535	529	525
52.5	518	514	506	499	496
55.0	487	484	475	469	465
57.5	455	452	443	437	431
60.0	422	418	410	404	401
62.5	387	383	376	370	366
65.0	354	350	341	336	333
67.5	316	312	306	302	297
70.0	278	275	271	267	264
72.5	242	240	235	231	228
75.0	206	204	200	196	194
77.5	171	169	164	160	158
80.0	137	135	131	128	125
82.5	104	103	98	95	94
85.0	72	69	67	65	64
87.5	39	37	36	35	33
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	294.74	N.A.	11.50
0-30	637.03	N.A.	24.80
0-40	1062.55	N.A.	41.40
0-60	1942.84	N.A.	75.70
0-80	2492.32	N.A.	97.20
0-90	2565.15	N.A.	100.00
10-90	2490.00	N.A.	97.10
20-40	767.81	N.A.	29.90
20-50	1223.1	N.A.	47.70
40-70	1218.53	N.A.	47.50
60-80	549.47	N.A.	21.40
70-80	211.24	N.A.	8.20
80-90	72.83	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	2565.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.15
10-20	219.59
20-30	342.29
30-40	425.53
40-50	455.28
50-60	425.01
60-70	338.24
70-80	211.24
80-90	72.83
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

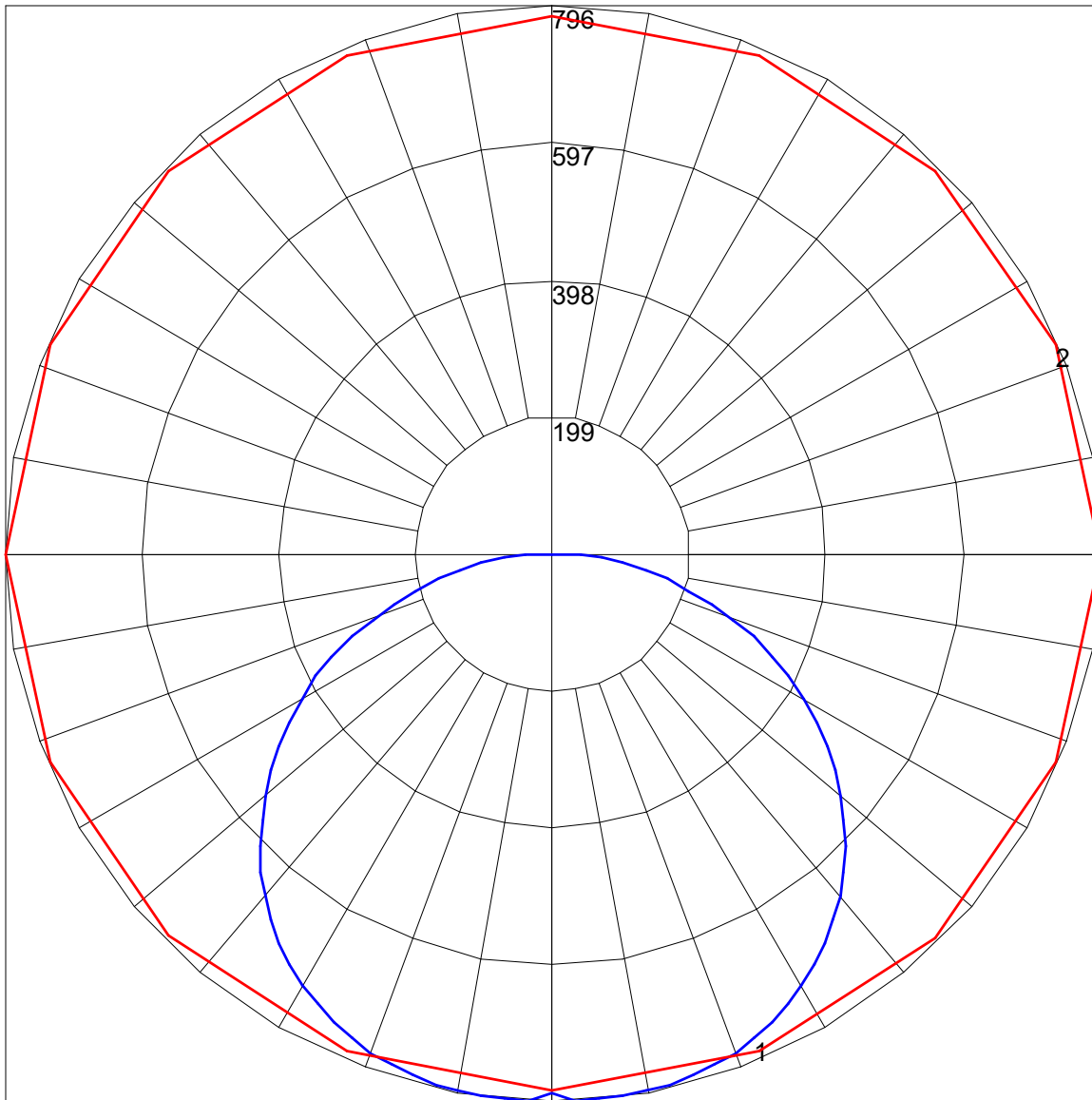
Reflectances

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	15.2	16.9	15.6	17.2	17.5	15.0	16.6	15.3	17.0	17.3
	3H	17.2	18.7	17.6	19.1	19.4	16.9	18.5	17.3	18.8	19.1
	4H	18.0	19.5	18.4	19.8	20.2	17.7	19.2	18.1	19.5	19.9
	6H	18.7	20.0	19.1	20.4	20.8	18.3	19.7	18.7	20.0	20.4
	8H	18.9	20.2	19.4	20.6	21.0	18.6	19.9	19.0	20.2	20.6
	12H	19.2	20.4	19.6	20.8	21.2	18.8	20.0	19.2	20.4	20.8
4H	2H	15.9	17.3	16.3	17.7	18.0	15.7	17.1	16.1	17.5	17.8
	3H	18.1	19.3	18.5	19.7	20.1	17.9	19.1	18.3	19.5	19.9
	4H	19.0	20.2	19.5	20.6	21.0	18.8	19.9	19.2	20.3	20.7
	6H	19.9	20.8	20.3	21.3	21.7	19.6	20.5	20.0	21.0	21.4
	8H	20.2	21.1	20.6	21.5	22.0	19.9	20.8	20.3	21.2	21.7
	12H	20.5	21.3	20.9	21.8	22.2	20.1	20.9	20.6	21.4	21.9
8H	4H	19.4	20.3	19.9	20.8	21.2	19.2	20.1	19.6	20.5	21.0
	6H	20.4	21.1	20.9	21.6	22.1	20.1	20.9	20.6	21.4	21.8
	8H	20.8	21.5	21.3	22.0	22.5	20.5	21.2	21.0	21.7	22.2
	12H	21.2	21.8	21.7	22.3	22.9	20.9	21.5	21.4	22.0	22.5
12H	4H	19.5	20.3	19.9	20.8	21.2	19.2	20.1	19.7	20.5	21.0
	6H	20.5	21.2	21.0	21.6	22.2	20.2	20.9	20.7	21.4	21.9
	8H	21.0	21.6	21.5	22.1	22.6	20.7	21.3	21.2	21.8	22.3

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 796 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.)