



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP14-FS1-UNV-20W-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-20W-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	2567
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	2287	2226	2184
65	2252	2169	2118
75	2140	2077	2026
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	787	787	787	787	787
2.5	796	793	789	786	782
5.0	797	794	789	786	782
7.5	796	792	788	784	781
10.0	794	790	786	782	779
12.5	790	786	782	777	775
15.0	786	782	777	773	771
17.5	780	777	771	766	763
20.0	773	769	763	758	755
22.5	763	760	753	748	745
25.0	753	749	742	736	733
27.5	740	737	730	723	719
30.0	727	723	715	708	704
32.5	710	707	699	692	686
35.0	693	690	681	673	668
37.5	673	669	661	653	648
40.0	652	648	639	631	626
42.5	629	623	616	608	602
45.0	603	598	590	584	578
47.5	575	573	564	558	552
50.0	548	544	535	530	525
52.5	518	514	506	500	496
55.0	488	484	475	469	466
57.5	455	452	444	437	432
60.0	423	419	410	404	400
62.5	387	383	377	370	366
65.0	354	350	341	336	333
67.5	316	312	306	302	297
70.0	278	276	271	267	264
72.5	242	240	235	231	228
75.0	206	204	200	196	195
77.5	171	170	164	160	158
80.0	137	135	132	128	126
82.5	104	103	98	95	94
85.0	72	69	67	64	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	295.01	N.A.	11.50
0-30	637.52	N.A.	24.80
0-40	1063.5	N.A.	41.40
0-60	1944.36	N.A.	75.70
0-80	2494.14	N.A.	97.20
0-90	2566.95	N.A.	100.00
10-90	2491.72	N.A.	97.10
20-40	768.49	N.A.	29.90
20-50	1224.08	N.A.	47.70
40-70	1219.22	N.A.	47.50
60-80	549.78	N.A.	21.40
70-80	211.42	N.A.	8.20
80-90	72.81	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	2566.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.24
10-20	219.77
20-30	342.51
30-40	425.98
40-50	455.59
50-60	425.27
60-70	338.36
70-80	211.42
80-90	72.81
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

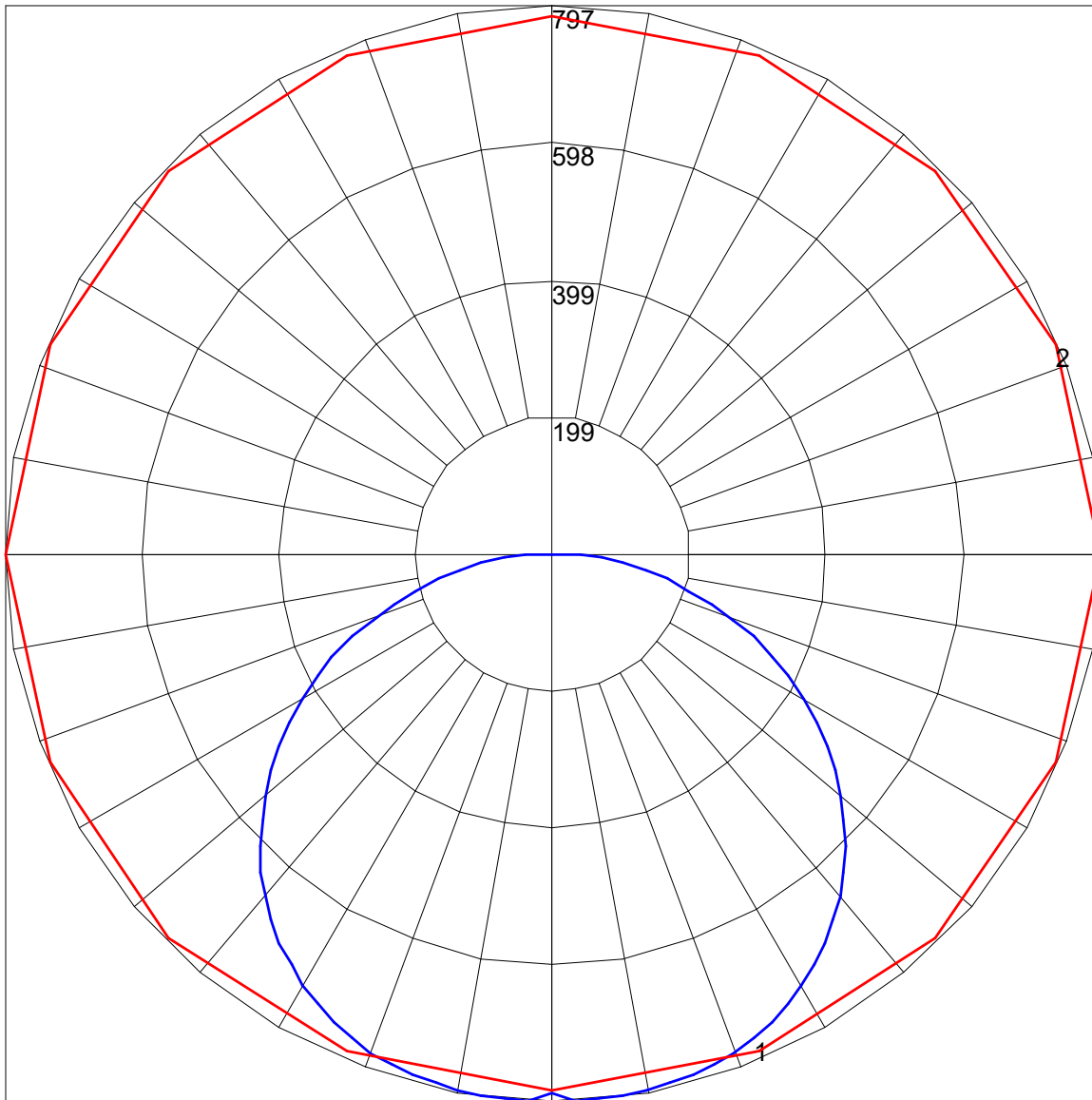
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.2	16.9	15.6	17.2	17.5	15.0	16.6	15.3	16.9	17.3
	3H	17.2	18.7	17.6	19.1	19.4	16.9	18.4	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	21.9	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 = 797 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.)