



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP24-FS1-UNV-28W-3500K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-14548
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 12/14/23
[ISSUEDATE] 12/19/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] ABP24-FS1-UNV-28W-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	3547
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
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)	2.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1580	1555	1528
55	1575	1544	1521
65	1536	1504	1457
75	1485	1423	1361
85	1450	1342	1249

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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	1092	1092	1092	1092	1092
2.5	1099	1099	1095	1091	1092
5.0	1099	1099	1095	1092	1092
7.5	1098	1098	1093	1091	1091
10.0	1096	1094	1090	1088	1088
12.5	1091	1090	1085	1082	1082
15.0	1084	1083	1078	1075	1075
17.5	1076	1075	1069	1065	1065
20.0	1066	1064	1058	1054	1054
22.5	1053	1051	1045	1040	1040
25.0	1038	1036	1030	1024	1023
27.5	1020	1018	1012	1006	1004
30.0	1000	999	992	985	983
32.5	977	975	969	962	959
35.0	953	951	944	935	933
37.5	926	924	915	907	905
40.0	897	894	886	876	874
42.5	864	862	853	842	839
45.0	831	828	818	808	804
47.5	794	791	782	771	768
50.0	754	751	743	733	730
52.5	715	710	702	693	691
55.0	672	666	659	651	649
57.5	624	623	614	607	605
60.0	578	576	569	562	559
62.5	532	529	521	514	512
65.0	483	481	473	464	458
67.5	434	432	425	414	409
70.0	385	383	374	363	359
72.5	336	332	324	314	310
75.0	286	283	274	265	262
77.5	238	232	225	218	213
80.0	184	184	176	171	168
82.5	139	137	131	126	124
85.0	94	93	87	83	81
87.5	52	50	46	43	41
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	409.36	N.A.	11.50
0-30	884.41	N.A.	24.90
0-40	1474.52	N.A.	41.60
0-60	2693.86	N.A.	76.00
0-80	3450.49	N.A.	97.30
0-90	3546.76	N.A.	100.00
10-90	3442.35	N.A.	97.10
20-40	1065.16	N.A.	30.00
20-50	1695.81	N.A.	47.80
40-70	1686.53	N.A.	47.60
60-80	756.64	N.A.	21.30
70-80	289.44	N.A.	8.20
80-90	96.26	N.A.	2.70
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	3546.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.41
10-20	304.95
20-30	475.05
30-40	590.11
40-50	630.65
50-60	588.69
60-70	467.20
70-80	289.44
80-90	96.26
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	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	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	38	30	25	37	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	13.9	15.6	14.2	15.9	16.2	UGR Viewed Endwise			
	3H	15.9	17.4	16.3	17.7	18.1	13.7	15.4	14.1	15.7
	4H	16.7	18.1	17.1	18.5	18.9	15.6	17.1	16.0	17.5
	6H	17.4	18.7	17.8	19.1	19.5	16.4	17.8	16.8	18.2
	8H	17.6	18.9	18.0	19.3	19.7	17.0	18.3	17.4	18.7
	12H	17.8	19.0	18.2	19.4	19.8	17.2	18.5	17.6	18.9

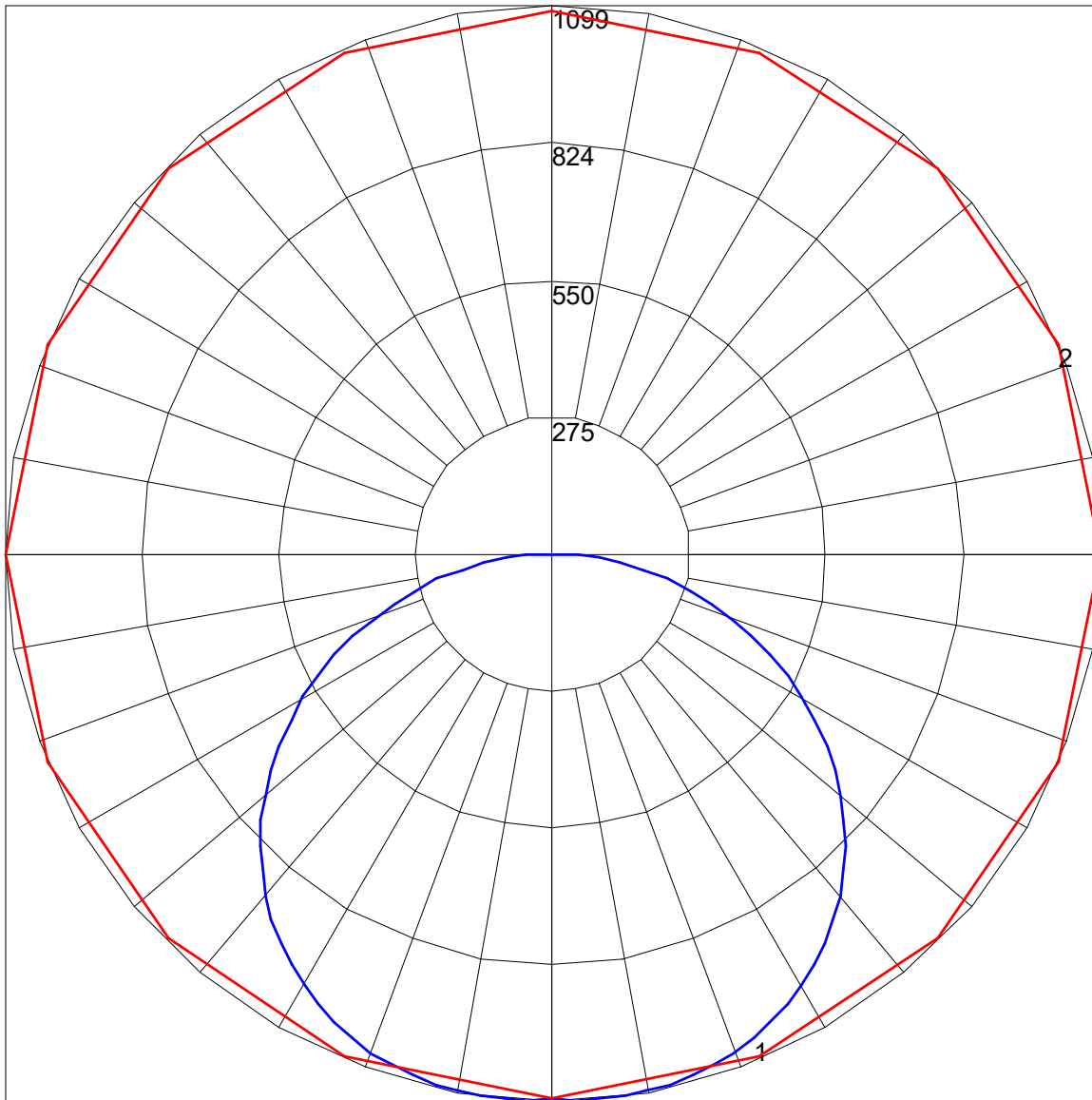
4H	2H	14.5	16.0	14.9	16.3	16.7	17.4	18.5	17.9	19.0
	3H	16.8	18.0	17.2	18.4	18.8	18.2	19.2	18.6	19.6
	4H	17.7	18.8	18.2	19.3	19.7	18.5	19.4	18.9	19.8
	6H	18.6	19.5	19.0	20.0	20.4	18.7	19.5	19.2	20.0
	8H	18.8	19.8	19.3	20.2	20.7	19.2	20.0	20.5	21.1
	12H	19.1	19.9	19.6	20.4	20.9				

8H	4H	18.1	19.0	18.6	19.4	19.9	17.8	18.7	18.3	19.2
	6H	19.0	19.8	19.5	20.3	20.8	18.7	19.5	19.2	20.0
	8H	19.5	20.1	20.0	20.6	21.1	19.1	19.8	19.6	20.3
	12H	19.8	20.4	20.3	20.9	21.5	19.4	20.0	19.9	20.5

12H	4H	18.1	19.0	18.6	19.4	19.9	17.9	18.7	18.4	19.2
	6H	19.1	19.8	19.7	20.3	20.8	18.8	19.5	19.4	20.0
	8H	19.6	20.2	20.1	20.7	21.3	19.3	19.9	19.8	20.4

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 1099 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)