



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP24-FS1-UNV-48W-5000K.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-48W-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	5964
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	48
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	2654	2616	2570
55	2648	2599	2557
65	2580	2532	2449
75	2503	2394	2285
85	2452	2267	2098

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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	1837	1837	1837	1837	1837
2.5	1848	1848	1841	1835	1837
5.0	1848	1848	1841	1836	1837
7.5	1847	1846	1838	1834	1835
10.0	1843	1840	1833	1829	1829
12.5	1834	1833	1825	1820	1820
15.0	1823	1821	1813	1808	1807
17.5	1809	1807	1798	1791	1791
20.0	1792	1789	1780	1773	1772
22.5	1771	1768	1757	1749	1748
25.0	1746	1742	1731	1721	1719
27.5	1716	1712	1702	1692	1688
30.0	1681	1679	1667	1656	1653
32.5	1643	1640	1629	1617	1612
35.0	1602	1598	1587	1573	1569
37.5	1557	1553	1539	1525	1522
40.0	1508	1504	1489	1472	1470
42.5	1454	1450	1435	1416	1410
45.0	1396	1392	1376	1359	1352
47.5	1334	1330	1315	1296	1291
50.0	1268	1264	1250	1232	1227
52.5	1202	1194	1181	1165	1161
55.0	1130	1120	1109	1094	1091
57.5	1049	1047	1033	1020	1017
60.0	972	969	956	944	940
62.5	894	889	875	864	862
65.0	811	809	796	781	770
67.5	730	727	714	695	687
70.0	647	644	629	611	604
72.5	564	558	546	528	521
75.0	482	477	461	446	440
77.5	400	390	379	366	358
80.0	310	310	296	288	282
82.5	233	230	220	212	208
85.0	159	156	147	139	136
87.5	88	85	78	72	69
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	688.38	N.A.	11.50
0-30	1487.15	N.A.	24.90
0-40	2479.29	N.A.	41.60
0-60	4529.56	N.A.	76.00
0-80	5801.92	N.A.	97.30
0-90	5963.86	N.A.	100.00
10-90	5788.29	N.A.	97.10
20-40	1790.91	N.A.	30.00
20-50	2851.36	N.A.	47.80
40-70	2835.73	N.A.	47.50
60-80	1272.35	N.A.	21.30
70-80	486.90	N.A.	8.20
80-90	161.95	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	5963.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	175.57
10-20	512.81
20-30	798.77
30-40	992.14
40-50	1060.45
50-60	989.82
60-70	785.45
70-80	486.90
80-90	161.95
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	15.7	17.4	16.0	17.7	18.0	UGR Viewed Endwise			
	3H	17.7	19.2	18.1	19.5	19.9	15.5	17.2	15.9	17.5
	4H	18.5	19.9	18.9	20.3	20.7	17.4	18.9	17.8	19.3
	6H	19.2	20.5	19.6	20.9	21.3	18.2	19.6	18.6	20.0
	8H	19.4	20.7	19.8	21.1	21.5	18.8	20.1	19.2	20.5
	12H	19.6	20.8	20.0	21.2	21.6	19.0	20.3	19.4	20.7

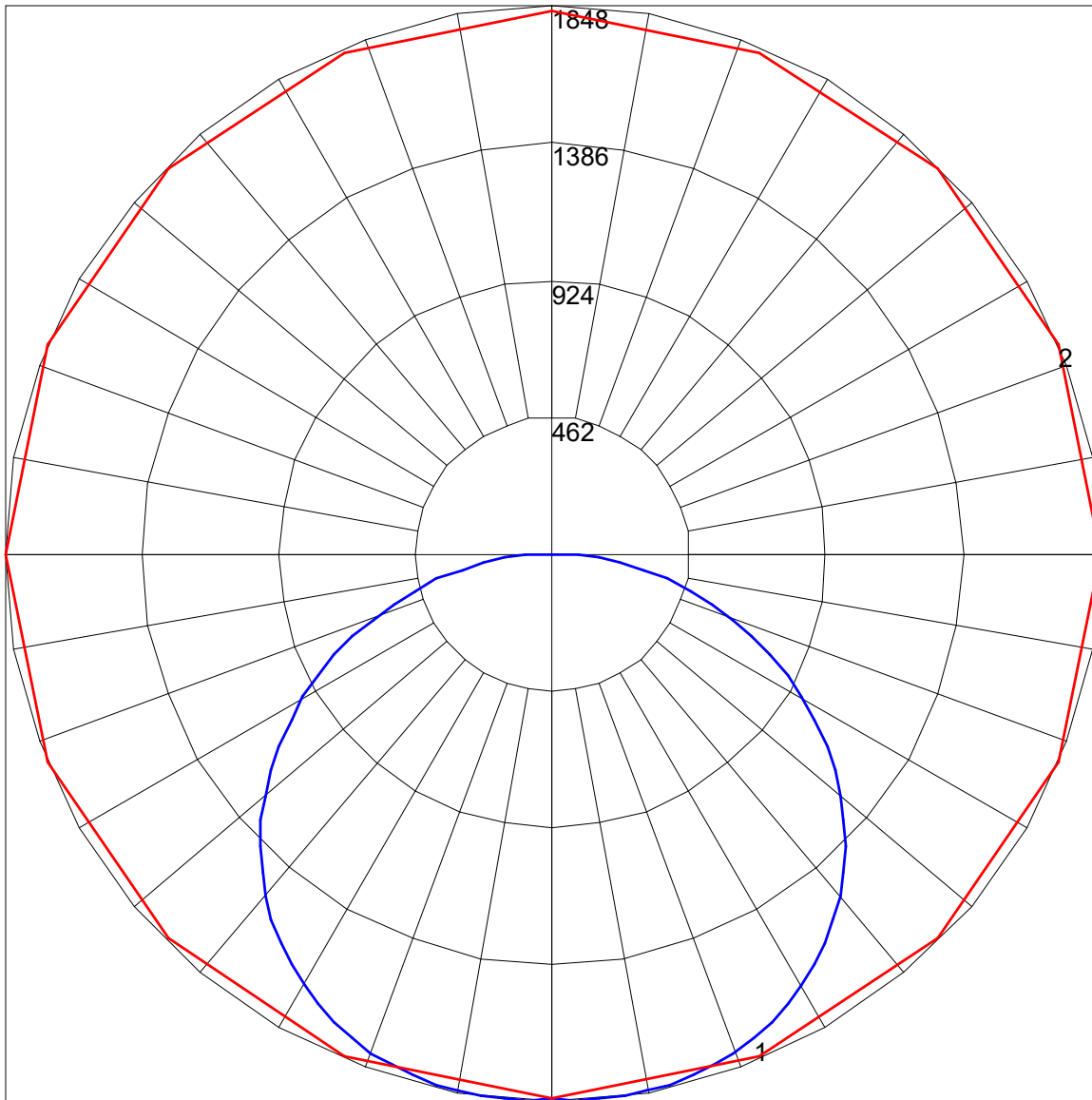
4H	2H	16.3	17.8	16.7	18.1	18.5	19.2	20.3	19.7	20.8
	3H	18.6	19.8	19.0	20.2	20.6	20.0	21.0	20.4	21.4
	4H	19.5	20.6	20.0	21.1	21.5	20.3	21.2	20.7	21.6
	6H	20.4	21.3	20.8	21.8	22.2	20.5	21.3	20.9	21.8
	8H	20.7	21.6	21.1	22.0	22.5				
	12H	20.9	21.7	21.4	22.2	22.7				

8H	4H	19.9	20.8	20.4	21.2	21.7	19.6	20.5	20.1	21.0
	6H	20.8	21.6	21.3	22.1	22.6	20.5	21.3	21.0	21.8
	8H	21.3	21.9	21.8	22.4	22.9	20.9	21.6	21.4	22.1
	12H	21.6	22.2	22.1	22.7	23.3	21.2	21.8	21.7	22.3

12H	4H	19.9	20.8	20.4	21.2	21.7	19.7	20.5	20.2	21.0
	6H	20.9	21.6	21.5	22.1	22.6	20.6	21.3	21.1	21.8
	8H	21.4	22.0	21.9	22.5	23.1	21.1	21.7	21.6	22.2

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 1848 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.)