



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP24-FS1-UNV-48W-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-48W-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	5863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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	2610	2570	2526
55	2601	2555	2515
65	2538	2487	2408
75	2457	2353	2249
85	2406	2221	2067

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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	1806	1806	1806	1806	1806
2.5	1816	1816	1809	1804	1806
5.0	1817	1816	1809	1805	1806
7.5	1815	1814	1807	1803	1804
10.0	1811	1808	1802	1798	1798
12.5	1803	1802	1794	1789	1789
15.0	1792	1790	1782	1777	1777
17.5	1778	1777	1768	1761	1761
20.0	1762	1759	1749	1743	1742
22.5	1741	1738	1727	1719	1718
25.0	1716	1713	1702	1692	1690
27.5	1686	1683	1673	1663	1659
30.0	1653	1651	1639	1628	1625
32.5	1615	1612	1601	1590	1585
35.0	1575	1571	1560	1546	1542
37.5	1531	1527	1513	1500	1496
40.0	1482	1478	1464	1447	1445
42.5	1429	1425	1411	1392	1386
45.0	1373	1368	1352	1336	1329
47.5	1312	1308	1292	1274	1269
50.0	1247	1242	1229	1211	1206
52.5	1182	1173	1161	1145	1141
55.0	1110	1101	1090	1076	1073
57.5	1031	1029	1016	1003	1000
60.0	956	953	940	928	925
62.5	879	874	861	849	847
65.0	798	795	782	768	757
67.5	717	714	702	684	676
70.0	636	633	619	600	593
72.5	555	549	536	519	512
75.0	473	469	453	439	433
77.5	393	383	373	360	352
80.0	305	305	291	283	277
82.5	229	227	216	208	204
85.0	156	153	144	137	134
87.5	86	83	76	71	68
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	676.70	N.A.	11.50
0-30	1461.92	N.A.	24.90
0-40	2437.28	N.A.	41.60
0-60	4452.74	N.A.	76.00
0-80	5703.59	N.A.	97.30
0-90	5862.68	N.A.	100.00
10-90	5690.11	N.A.	97.10
20-40	1760.58	N.A.	30.00
20-50	2802.98	N.A.	47.80
40-70	2787.66	N.A.	47.50
60-80	1250.85	N.A.	21.30
70-80	478.66	N.A.	8.20
80-90	159.09	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	5862.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.57
10-20	504.13
20-30	785.22
30-40	975.36
40-50	1042.41
50-60	973.06
60-70	772.19
70-80	478.66
80-90	159.09
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	15.6	17.3	15.9	17.6	17.9	15.4	17.1	15.8	17.4	17.7
	3H	17.6	19.1	18.0	19.4	19.8	17.3	18.8	17.7	19.2	19.5
	4H	18.4	19.8	18.8	20.2	20.6	18.1	19.5	18.5	19.9	20.2
	6H	19.1	20.4	19.5	20.8	21.2	18.7	20.0	19.1	20.4	20.8
	8H	19.3	20.6	19.7	21.0	21.4	18.9	20.2	19.3	20.6	21.0
	12H	19.5	20.7	19.9	21.1	21.5	19.1	20.3	19.5	20.7	21.1

UGR Viewed Endwise

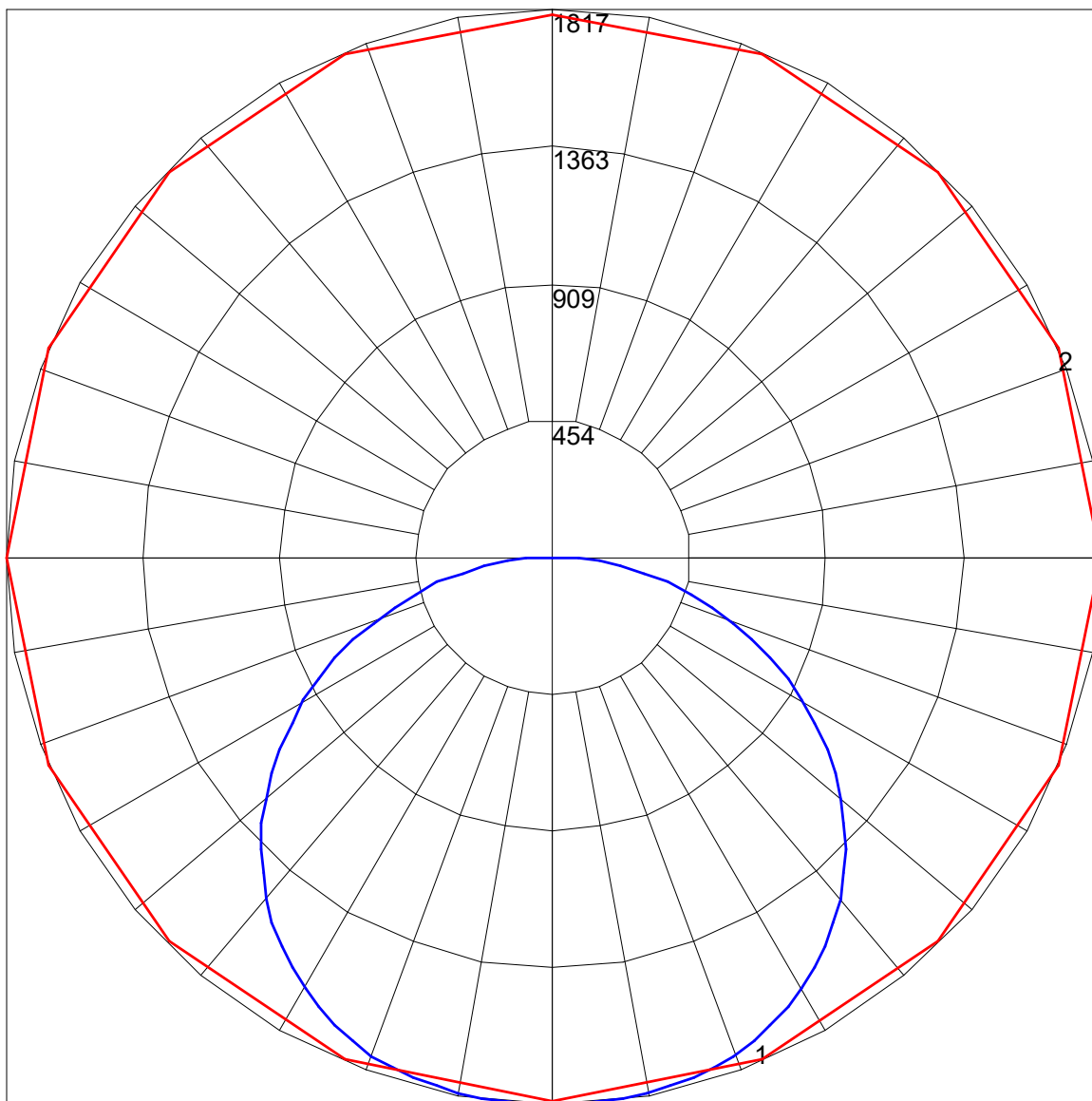
4H	2H	16.2	17.7	16.6	18.0	18.4	16.1	17.5	16.5	17.9	18.3
	3H	18.5	19.7	18.9	20.1	20.5	18.2	19.5	18.6	19.9	20.3
	4H	19.4	20.5	19.9	21.0	21.4	19.1	20.2	19.6	20.7	21.1
	6H	20.3	21.2	20.7	21.7	22.1	19.9	20.9	20.3	21.3	21.7
	8H	20.5	21.5	21.0	21.9	22.4	20.2	21.1	20.6	21.5	22.0
	12H	20.8	21.6	21.3	22.1	22.6	20.4	21.2	20.8	21.7	22.1

8H	4H	19.8	20.7	20.3	21.1	21.6	19.5	20.4	20.0	20.9	21.3
	6H	20.7	21.5	21.2	22.0	22.5	20.4	21.2	20.9	21.7	22.1
	8H	21.2	21.8	21.7	22.3	22.8	20.8	21.5	21.3	22.0	22.5
	12H	21.5	22.1	22.0	22.6	23.2	21.1	21.7	21.6	22.2	22.8

12H	4H	19.8	20.7	20.3	21.1	21.6	19.6	20.4	20.1	20.9	21.4
	6H	20.8	21.5	21.4	22.0	22.5	20.5	21.2	21.1	21.7	22.2
	8H	21.3	21.9	21.8	22.4	23.0	21.0	21.6	21.5	22.0	22.6

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 1817 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.)