



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP24-FS1-UNV-48W-4000K.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-4000K
[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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6056
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	2696	2656	2610
55	2688	2639	2597
65	2621	2570	2487
75	2540	2431	2322
85	2483	2298	2128

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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	1865	1865	1865	1865	1865
2.5	1876	1876	1869	1863	1865
5.0	1877	1876	1869	1864	1865
7.5	1875	1874	1866	1862	1863
10.0	1871	1868	1861	1857	1857
12.5	1862	1861	1853	1848	1848
15.0	1851	1849	1841	1836	1835
17.5	1837	1835	1826	1819	1819
20.0	1820	1817	1807	1800	1799
22.5	1798	1795	1784	1776	1775
25.0	1773	1769	1758	1748	1746
27.5	1742	1738	1728	1718	1714
30.0	1707	1705	1693	1682	1679
32.5	1668	1665	1654	1642	1637
35.0	1627	1623	1611	1597	1593
37.5	1581	1577	1563	1549	1545
40.0	1531	1527	1512	1495	1493
42.5	1476	1472	1457	1438	1432
45.0	1418	1413	1397	1380	1373
47.5	1355	1351	1335	1316	1311
50.0	1288	1283	1269	1251	1246
52.5	1221	1212	1199	1183	1179
55.0	1147	1137	1126	1111	1108
57.5	1065	1063	1049	1036	1033
60.0	987	984	971	959	955
62.5	908	903	889	877	875
65.0	824	821	808	793	782
67.5	741	738	725	706	698
70.0	657	654	639	620	613
72.5	573	567	554	536	529
75.0	489	484	468	453	447
77.5	406	396	385	372	364
80.0	315	315	301	292	286
82.5	237	234	223	215	211
85.0	161	158	149	141	138
87.5	89	86	79	73	70
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	698.97	N.A.	11.50
0-30	1510.06	N.A.	24.90
0-40	2517.52	N.A.	41.60
0-60	4599.38	N.A.	76.00
0-80	5891.4	N.A.	97.30
0-90	6055.71	N.A.	100.00
10-90	5877.46	N.A.	97.10
20-40	1818.55	N.A.	30.00
20-50	2895.34	N.A.	47.80
40-70	2879.46	N.A.	47.50
60-80	1292.01	N.A.	21.30
70-80	494.42	N.A.	8.20
80-90	164.31	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	6055.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.25
10-20	520.72
20-30	811.10
30-40	1007.45
40-50	1076.79
50-60	1005.08
60-70	797.59
70-80	494.42
80-90	164.31
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	15.8	17.5	16.1	17.8	18.1	15.6	17.3	16.0	17.6	17.9
	3H	17.8	19.3	18.2	19.6	20.0	17.5	19.0	17.9	19.4	19.7
	4H	18.6	20.0	19.0	20.4	20.8	18.3	19.7	18.7	20.1	20.4
	6H	19.3	20.6	19.7	21.0	21.4	18.9	20.2	19.3	20.6	21.0
	8H	19.5	20.8	19.9	21.2	21.6	19.1	20.4	19.5	20.8	21.2
	12H	19.7	20.9	20.1	21.3	21.7	19.3	20.5	19.7	20.9	21.3

UGR Viewed Endwise

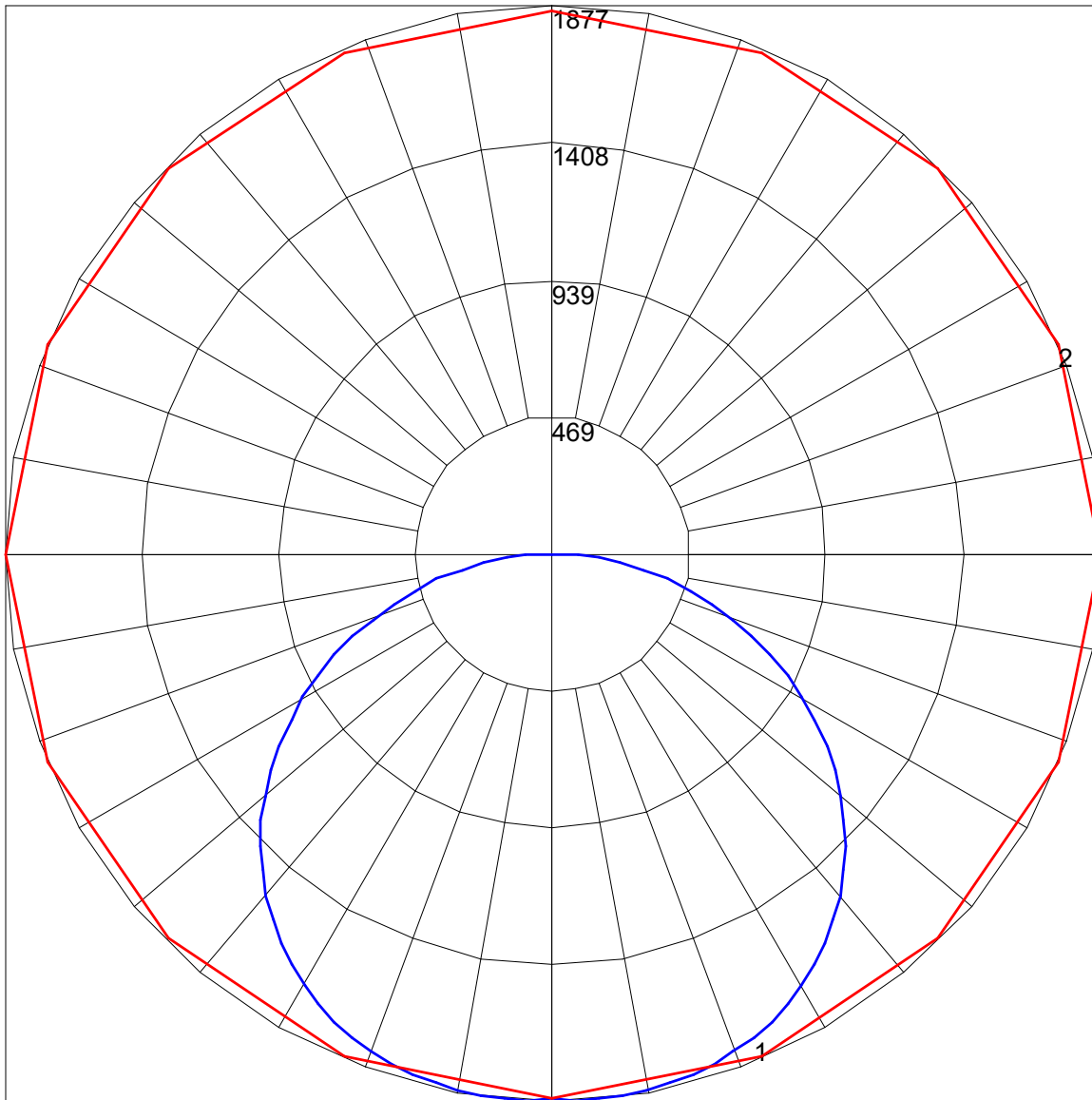
4H	2H	16.4	17.9	16.8	18.2	18.6	16.3	17.7	16.7	18.1	18.5
	3H	18.7	19.9	19.1	20.3	20.7	18.4	19.7	18.8	20.1	20.5
	4H	19.6	20.7	20.1	21.2	21.6	19.3	20.4	19.8	20.9	21.3
	6H	20.5	21.4	20.9	21.9	22.3	20.1	21.1	20.5	21.5	21.9
	8H	20.8	21.7	21.2	22.1	22.6	20.4	21.3	20.8	21.7	22.2
	12H	21.0	21.8	21.5	22.3	22.8	20.6	21.4	21.0	21.9	22.3

8H	4H	20.0	20.9	20.5	21.3	21.8	19.7	20.6	20.2	21.1	21.5
	6H	20.9	21.7	21.4	22.2	22.7	20.6	21.4	21.1	21.9	22.3
	8H	21.4	22.0	21.9	22.5	23.0	21.0	21.7	21.5	22.2	22.7
	12H	21.7	22.3	22.2	22.8	23.4	21.3	21.9	21.8	22.4	23.0

12H	4H	20.0	20.9	20.5	21.3	21.8	19.8	20.6	20.3	21.1	21.6
	6H	21.0	21.7	21.6	22.2	22.7	20.7	21.4	21.3	21.9	22.4
	8H	21.5	22.1	22.0	22.6	23.2	21.2	21.8	21.7	22.2	22.8

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1877 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.)