



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP24-FS1-UNV-38W-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-38W-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	4889
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	38
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	2177	2144	2106
55	2170	2130	2095
65	2115	2074	2007
75	2052	1963	1875
85	2005	1851	1712

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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	1506	1506	1506	1506	1506
2.5	1514	1514	1509	1504	1506
5.0	1515	1514	1509	1505	1506
7.5	1514	1513	1506	1503	1504
10.0	1510	1508	1502	1499	1499
12.5	1503	1502	1496	1492	1492
15.0	1494	1493	1486	1482	1481
17.5	1483	1481	1474	1468	1468
20.0	1469	1467	1459	1453	1452
22.5	1452	1449	1440	1434	1433
25.0	1431	1428	1419	1411	1410
27.5	1406	1403	1395	1387	1384
30.0	1378	1376	1367	1358	1355
32.5	1347	1344	1335	1326	1322
35.0	1313	1310	1301	1289	1286
37.5	1276	1273	1262	1251	1247
40.0	1236	1233	1221	1207	1205
42.5	1192	1188	1176	1161	1156
45.0	1145	1141	1128	1114	1108
47.5	1094	1091	1078	1062	1058
50.0	1040	1036	1024	1010	1006
52.5	986	978	968	955	952
55.0	926	918	909	897	894
57.5	860	858	847	836	834
60.0	797	794	784	774	771
62.5	733	729	718	708	706
65.0	665	663	652	640	631
67.5	598	596	585	570	563
70.0	530	528	516	501	495
72.5	463	458	447	433	427
75.0	395	391	378	366	361
77.5	328	320	311	300	294
80.0	254	254	243	236	231
82.5	191	189	180	174	170
85.0	130	128	120	114	111
87.5	72	69	64	59	57
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	564.22	N.A.	11.50
0-30	1219.00	N.A.	24.90
0-40	2032.34	N.A.	41.60
0-60	3713.01	N.A.	75.90
0-80	4756.13	N.A.	97.30
0-90	4888.81	N.A.	100.00
10-90	4744.92	N.A.	97.10
20-40	1468.12	N.A.	30.00
20-50	2337.43	N.A.	47.80
40-70	2324.52	N.A.	47.50
60-80	1043.12	N.A.	21.30
70-80	399.27	N.A.	8.20
80-90	132.68	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	4888.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.89
10-20	420.33
20-30	654.78
30-40	813.34
40-50	869.31
50-60	811.36
60-70	643.85
70-80	399.27
80-90	132.68
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

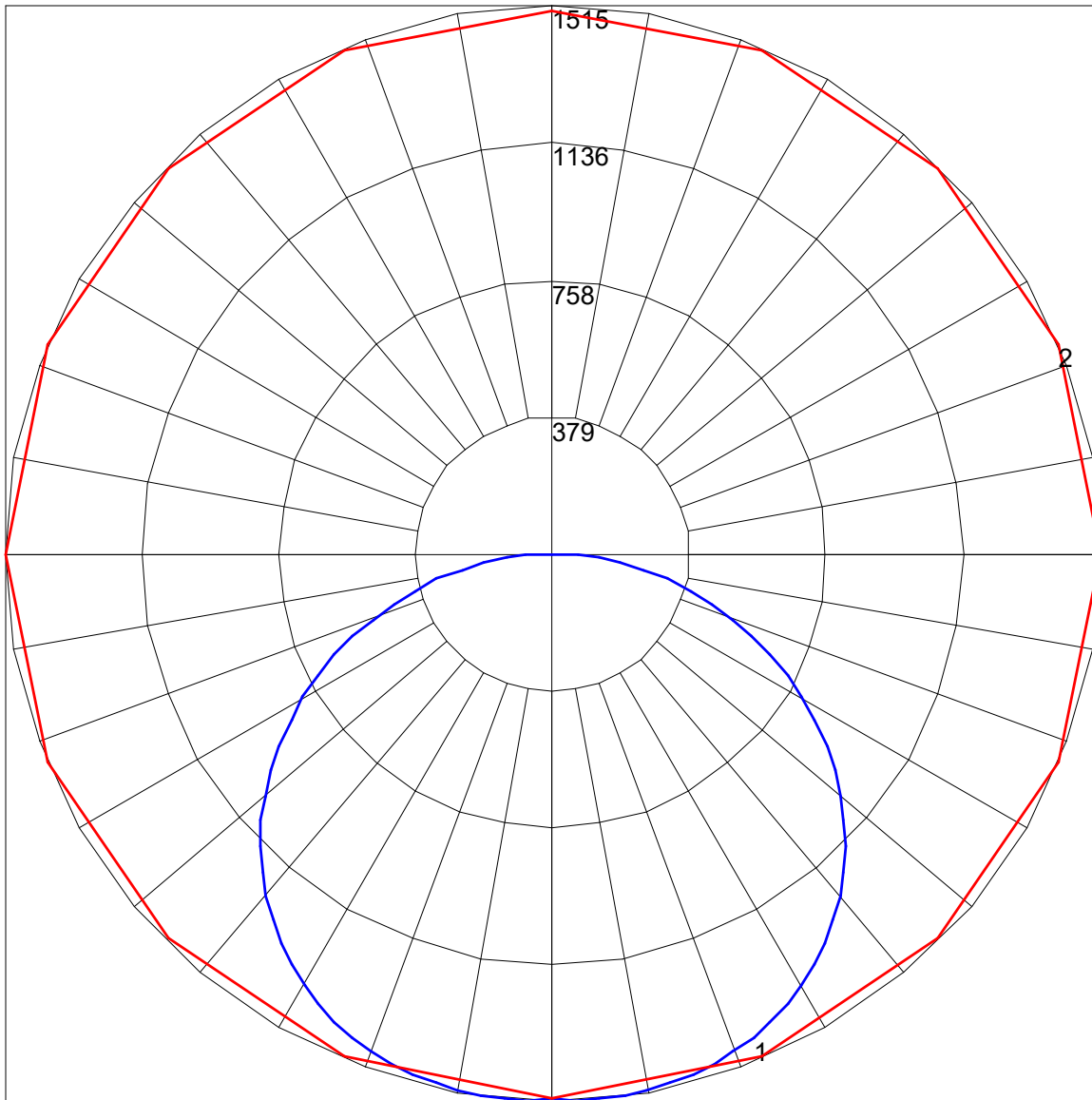
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	15.0	16.7	15.3	17.0	17.3	14.8	16.5	15.2	16.8	17.1
	3H	17.0	18.5	17.4	18.8	19.2	16.7	18.2	17.1	18.6	18.9
	4H	17.8	19.2	18.2	19.6	20.0	17.5	18.9	17.9	19.3	19.6
	6H	18.5	19.8	18.9	20.2	20.6	18.1	19.4	18.5	19.8	20.2
	8H	18.7	20.0	19.1	20.4	20.8	18.3	19.6	18.7	20.0	20.4
	12H	18.9	20.1	19.3	20.5	20.9	18.5	19.7	18.9	20.1	20.5
4H	2H	15.6	17.1	16.0	17.4	17.8	15.5	16.9	15.9	17.3	17.7
	3H	17.9	19.1	18.3	19.5	19.9	17.6	18.9	18.0	19.3	19.7
	4H	18.8	19.9	19.3	20.4	20.8	18.5	19.6	19.0	20.1	20.5
	6H	19.7	20.6	20.1	21.1	21.5	19.3	20.3	19.7	20.7	21.1
	8H	20.0	20.9	20.4	21.3	21.8	19.6	20.5	20.0	20.9	21.4
	12H	20.2	21.0	20.7	21.5	22.0	19.8	20.6	20.2	21.1	21.5
8H	4H	19.2	20.1	19.7	20.5	21.0	18.9	19.8	19.4	20.3	20.7
	6H	20.1	20.9	20.6	21.4	21.9	19.8	20.6	20.3	21.1	21.5
	8H	20.6	21.2	21.1	21.7	22.2	20.2	20.9	20.7	21.4	21.9
	12H	20.9	21.5	21.4	22.0	22.6	20.5	21.1	21.0	21.6	22.2
12H	4H	19.2	20.1	19.7	20.5	21.0	19.0	19.8	19.5	20.3	20.8
	6H	20.2	20.9	20.8	21.4	21.9	19.9	20.6	20.5	21.1	21.6
	8H	20.7	21.3	21.2	21.8	22.4	20.4	21.0	20.9	21.5	22.0

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 1515 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.)