



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP24-FS1-UNV-38W-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-38W-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	4964
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	2209	2177	2139
55	2203	2163	2128
65	2147	2106	2039
75	2083	1994	1901
85	2036	1882	1743

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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	1529	1529	1529	1529	1529
2.5	1538	1538	1532	1527	1529
5.0	1539	1538	1532	1528	1529
7.5	1537	1536	1530	1526	1527
10.0	1534	1531	1525	1522	1522
12.5	1526	1525	1519	1515	1515
15.0	1517	1516	1509	1505	1504
17.5	1506	1504	1497	1491	1491
20.0	1492	1489	1481	1475	1475
22.5	1474	1471	1462	1456	1455
25.0	1453	1450	1441	1433	1431
27.5	1428	1425	1416	1408	1405
30.0	1399	1398	1388	1379	1376
32.5	1367	1365	1356	1346	1342
35.0	1334	1330	1321	1309	1306
37.5	1296	1293	1281	1270	1266
40.0	1255	1252	1239	1225	1224
42.5	1210	1207	1194	1179	1174
45.0	1162	1158	1145	1131	1125
47.5	1111	1107	1094	1079	1075
50.0	1056	1052	1040	1025	1021
52.5	1001	993	983	970	966
55.0	940	932	923	911	908
57.5	873	871	860	849	847
60.0	809	807	796	786	783
62.5	744	740	729	719	717
65.0	675	673	662	650	641
67.5	607	605	594	579	572
70.0	539	536	524	508	502
72.5	470	465	454	439	434
75.0	401	397	384	371	366
77.5	333	325	316	305	298
80.0	258	258	247	239	234
82.5	194	192	183	176	173
85.0	132	130	122	116	113
87.5	73	70	65	60	57
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	572.93	N.A.	11.50
0-30	1237.77	N.A.	24.90
0-40	2063.62	N.A.	41.60
0-60	3770.06	N.A.	76.00
0-80	4829.14	N.A.	97.30
0-90	4963.84	N.A.	100.00
10-90	4817.73	N.A.	97.10
20-40	1490.68	N.A.	30.00
20-50	2373.28	N.A.	47.80
40-70	2360.2	N.A.	47.50
60-80	1059.07	N.A.	21.30
70-80	405.33	N.A.	8.20
80-90	134.70	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	4963.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.11
10-20	426.82
20-30	664.83
30-40	825.85
40-50	882.60
50-60	823.85
60-70	653.75
70-80	405.33
80-90	134.70
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	15.1	16.8	15.4	17.1	17.4	UGR Viewed Endwise			
	3H	17.1	18.6	17.5	18.9	19.3	14.9	16.6	15.3	16.9
	4H	17.9	19.3	18.3	19.7	20.1	16.8	18.3	17.2	18.7
	6H	18.6	19.9	19.0	20.3	20.7	17.6	19.0	18.0	19.4
	8H	18.8	20.1	19.2	20.5	20.9	18.2	19.5	18.6	19.9
	12H	19.0	20.2	19.4	20.6	21.0	18.4	19.7	18.8	20.1
							18.6	19.8	19.0	20.2

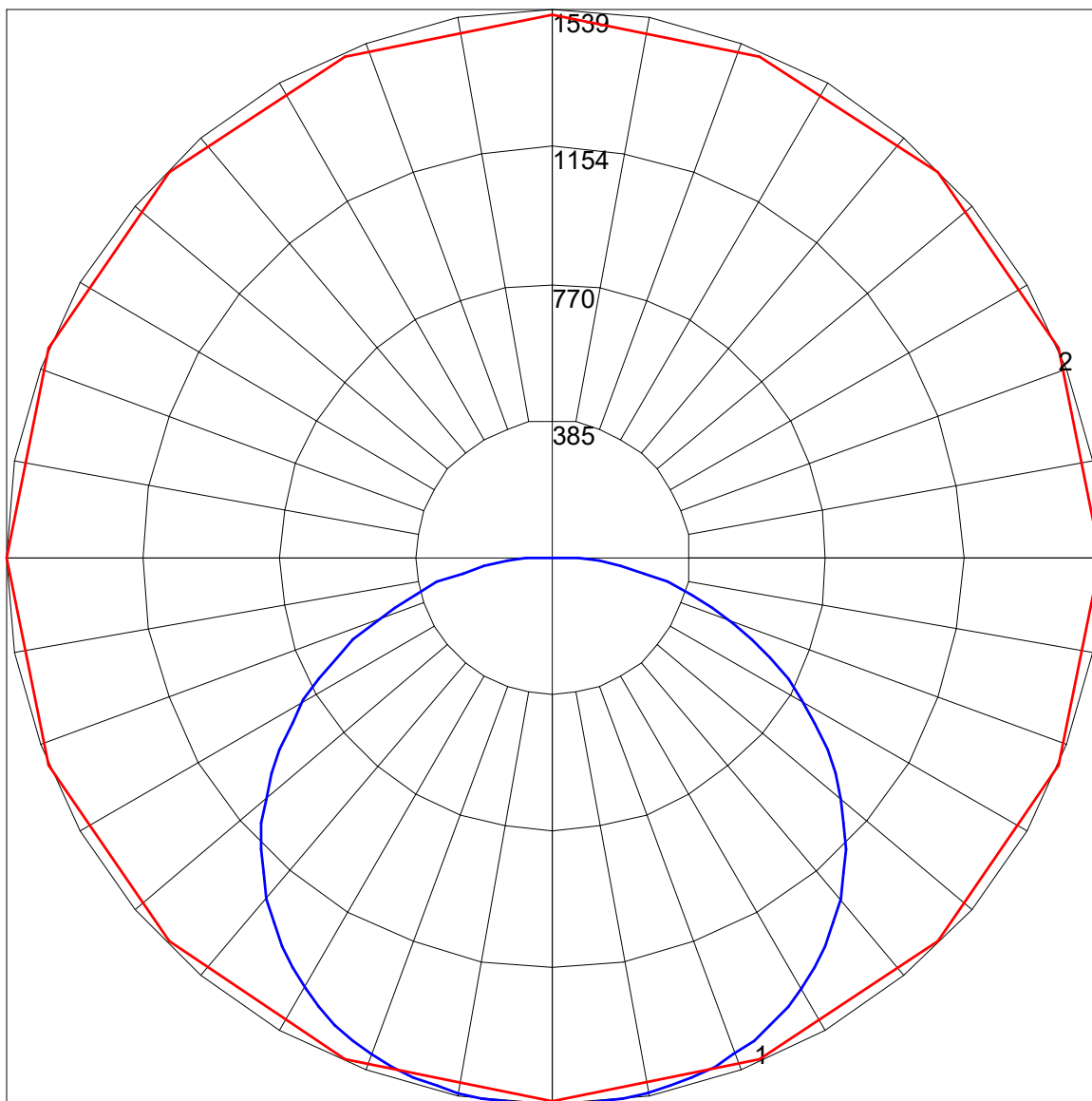
4H	2H	15.7	17.2	16.1	17.5	17.9	15.6	17.0	16.0	17.4	17.8
	3H	18.0	19.2	18.4	19.6	20.0	17.7	19.0	18.1	19.4	19.8
	4H	18.9	20.0	19.4	20.5	20.9	18.6	19.7	19.1	20.2	20.6
	6H	19.8	20.7	20.2	21.2	21.6	19.4	20.4	19.8	20.8	21.2
	8H	20.1	21.0	20.5	21.4	21.9	19.7	20.6	20.1	21.0	21.5
	12H	20.3	21.1	20.8	21.6	22.1	19.9	20.7	20.3	21.2	21.6

8H	4H	19.3	20.2	19.8	20.6	21.1	19.0	19.9	19.5	20.4	20.8
	6H	20.2	21.0	20.7	21.5	22.0	19.9	20.7	20.4	21.2	21.6
	8H	20.7	21.3	21.2	21.8	22.3	20.3	21.0	20.8	21.5	22.0
	12H	21.0	21.6	21.5	22.1	22.7	20.6	21.2	21.1	21.7	22.3

12H	4H	19.3	20.2	19.8	20.6	21.1	19.1	19.9	19.6	20.4	20.9
	6H	20.3	21.0	20.9	21.5	22.0	20.0	20.7	20.5	21.2	21.7
	8H	20.8	21.4	21.3	21.9	22.5	20.5	21.1	21.0	21.5	22.1

Maximum UGR = 22.7

POLAR GRAPH



Maximum Candela = 1539 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.)