



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP24-FS1-UNV-38W-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-38W-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	4807
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	2141	2108	2072
55	2133	2095	2060
65	2080	2039	1975
75	2015	1927	1844
85	1974	1820	1697

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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	1480	1480	1480	1480	1480
2.5	1489	1489	1484	1479	1480
5.0	1490	1489	1484	1480	1480
7.5	1488	1488	1481	1478	1479
10.0	1485	1483	1477	1474	1474
12.5	1478	1477	1471	1467	1467
15.0	1469	1468	1461	1457	1457
17.5	1458	1457	1449	1444	1444
20.0	1445	1442	1434	1429	1428
22.5	1427	1425	1416	1410	1409
25.0	1407	1404	1395	1387	1386
27.5	1383	1380	1372	1364	1361
30.0	1355	1353	1344	1335	1333
32.5	1324	1322	1313	1303	1299
35.0	1291	1288	1279	1268	1264
37.5	1255	1252	1241	1230	1226
40.0	1215	1212	1200	1187	1185
42.5	1172	1168	1157	1141	1137
45.0	1126	1122	1109	1095	1090
47.5	1076	1072	1060	1045	1041
50.0	1022	1018	1007	993	989
52.5	969	962	952	939	936
55.0	910	903	894	882	879
57.5	845	844	833	822	820
60.0	783	781	771	761	758
62.5	721	717	706	696	695
65.0	654	652	641	629	621
67.5	588	586	575	560	554
70.0	521	519	507	492	487
72.5	455	450	440	425	420
75.0	388	384	371	360	355
77.5	322	314	306	295	289
80.0	250	250	239	232	227
82.5	188	186	177	171	167
85.0	128	125	118	112	110
87.5	71	68	63	58	56
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	554.82	N.A.	11.50
0-30	1198.65	N.A.	24.90
0-40	1998.36	N.A.	41.60
0-60	3650.91	N.A.	76.00
0-80	4676.36	N.A.	97.30
0-90	4806.83	N.A.	100.00
10-90	4665.33	N.A.	97.10
20-40	1443.54	N.A.	30.00
20-50	2298.29	N.A.	47.80
40-70	2285.6	N.A.	47.50
60-80	1025.45	N.A.	21.30
70-80	392.40	N.A.	8.20
80-90	130.47	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	4806.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.49
10-20	413.33
20-30	643.84
30-40	799.71
40-50	854.75
50-60	797.80
60-70	633.05
70-80	392.40
80-90	130.47
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	15.0	16.7	15.3	17.0	17.3	UGR Viewed Endwise			
	3H	17.0	18.5	17.4	18.8	19.2	14.8	16.5	15.2	16.8
	4H	17.8	19.2	18.2	19.6	20.0	16.7	18.2	17.1	18.6
	6H	18.5	19.8	18.9	20.2	20.6	17.5	18.9	17.9	19.3
	8H	18.7	20.0	19.1	20.4	20.8	18.1	19.4	18.5	19.8
	12H	18.9	20.1	19.3	20.5	20.9	18.3	19.6	18.7	20.0

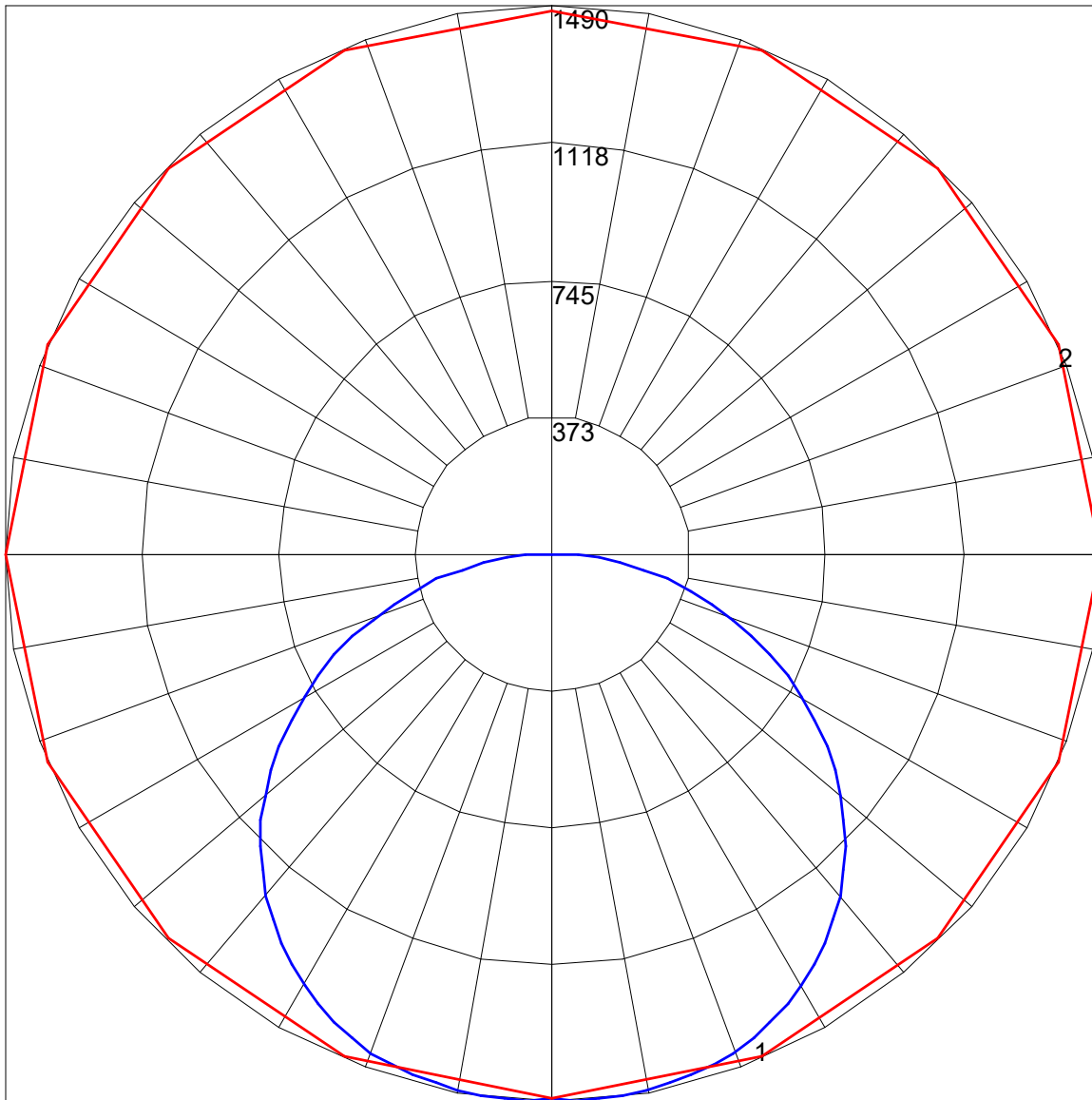
4H	2H	15.6	17.1	16.0	17.4	17.8	18.5	19.6	19.0	20.1
	3H	17.9	19.1	18.3	19.5	19.9	19.3	20.3	19.7	20.7
	4H	18.8	19.9	19.3	20.4	20.8	19.6	20.5	20.0	20.9
	6H	19.7	20.6	20.1	21.1	21.5	20.2	20.9	20.7	21.4
	8H	19.9	20.9	20.4	21.3	21.8	20.5	21.1	21.0	21.6
	12H	20.2	21.0	20.7	21.5	22.0	20.6	20.2	21.1	21.5

8H	4H	19.2	20.1	19.7	20.5	21.0	19.8	20.6	20.3	21.1
	6H	20.1	20.9	20.6	21.4	21.9	20.2	20.9	20.7	21.4
	8H	20.6	21.2	21.1	21.7	22.2	20.5	21.1	21.0	21.6
	12H	20.9	21.5	21.4	22.0	22.6				

12H	4H	19.2	20.1	19.7	20.5	21.0	19.0	19.8	19.5	20.3
	6H	20.2	20.9	20.8	21.4	21.9	19.9	20.6	20.5	21.1
	8H	20.7	21.3	21.2	21.8	22.4	20.4	21.0	20.9	21.4

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 1490 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.)