



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP24-FS1-UNV-28W-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-28W-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	3607
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	28
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	1606	1582	1555
55	1601	1573	1547
65	1562	1530	1482
75	1511	1449	1382
85	1481	1373	1265

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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	1111	1111	1111	1111	1111
2.5	1118	1118	1113	1110	1111
5.0	1118	1118	1113	1111	1111
7.5	1117	1116	1112	1109	1110
10.0	1115	1113	1109	1106	1106
12.5	1109	1109	1104	1101	1101
15.0	1103	1102	1097	1094	1093
17.5	1094	1093	1088	1084	1084
20.0	1084	1083	1077	1072	1072
22.5	1071	1069	1063	1058	1057
25.0	1056	1054	1047	1041	1040
27.5	1038	1035	1029	1024	1021
30.0	1017	1016	1009	1002	1000
32.5	994	992	985	978	975
35.0	969	967	960	951	949
37.5	942	940	931	923	920
40.0	912	910	901	891	889
42.5	879	877	868	857	853
45.0	845	842	832	822	818
47.5	807	805	795	784	781
50.0	767	764	756	745	742
52.5	727	722	714	705	702
55.0	683	677	671	662	660
57.5	634	633	625	617	615
60.0	588	586	578	571	569
62.5	541	538	530	522	521
65.0	491	489	481	472	466
67.5	441	440	432	421	416
70.0	391	390	381	369	365
72.5	341	338	330	319	315
75.0	291	288	279	270	266
77.5	242	236	229	222	217
80.0	188	188	179	174	170
82.5	141	139	133	128	126
85.0	96	94	89	84	82
87.5	53	51	47	43	42
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	416.44	N.A.	11.50
0-30	899.62	N.A.	24.90
0-40	1499.82	N.A.	41.60
0-60	2739.92	N.A.	76.00
0-80	3509.56	N.A.	97.30
0-90	3607.39	N.A.	100.00
10-90	3501.2	N.A.	97.10
20-40	1083.38	N.A.	30.00
20-50	1724.85	N.A.	47.80
40-70	1715.22	N.A.	47.50
60-80	769.64	N.A.	21.30
70-80	294.52	N.A.	8.20
80-90	97.83	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	3607.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.19
10-20	310.25
20-30	483.18
30-40	600.20
40-50	641.47
50-60	598.63
60-70	475.12
70-80	294.52
80-90	97.83
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	87	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

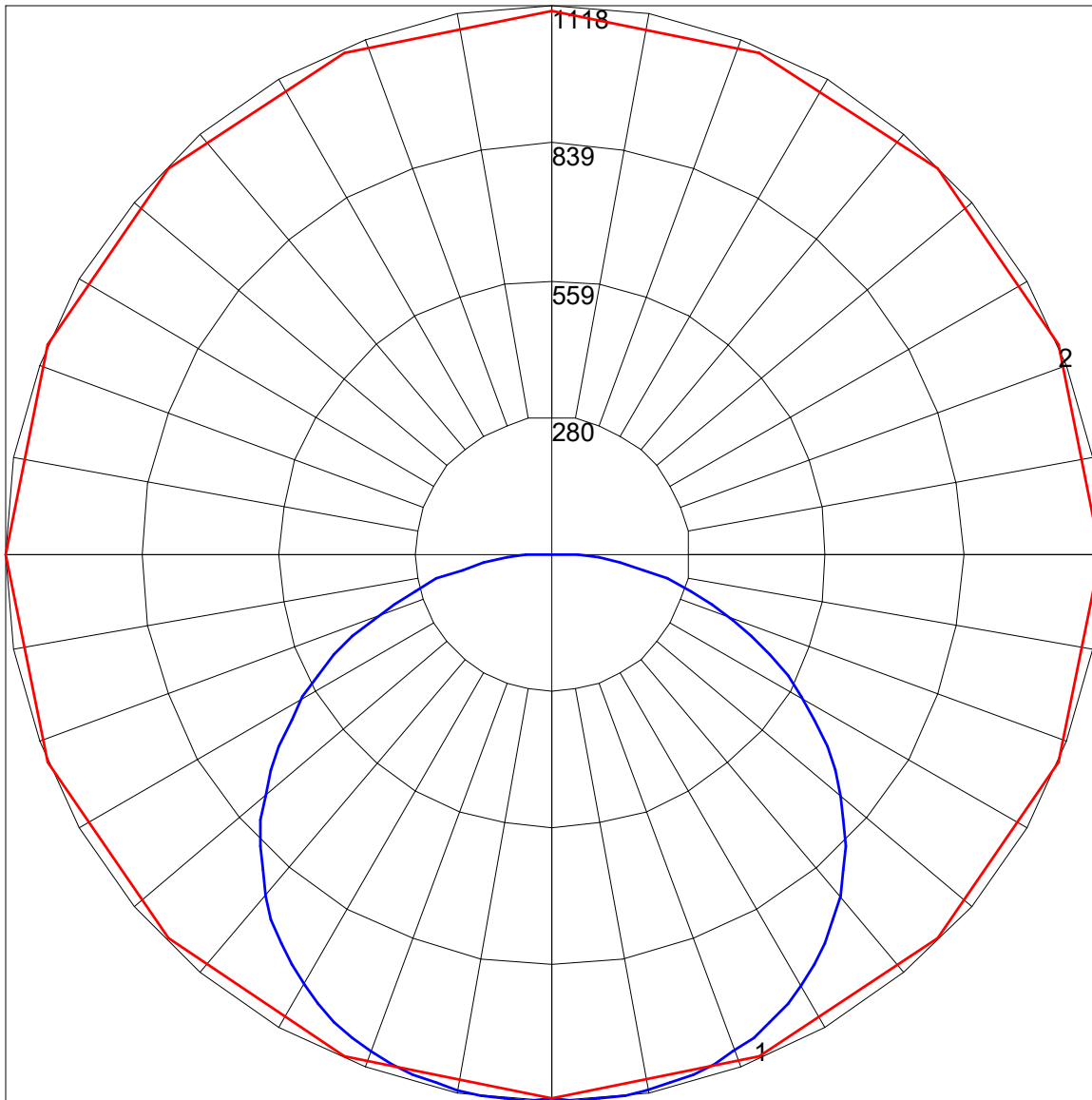
X=2H	Y=2H	14.0	15.7	14.3	16.0	16.3	13.8	15.5	14.2	15.8	16.1
	3H	16.0	17.5	16.4	17.8	18.2	15.7	17.2	16.1	17.6	17.9
	4H	16.8	18.2	17.2	18.6	19.0	16.5	17.9	16.9	18.3	18.6
	6H	17.5	18.8	17.9	19.2	19.6	17.1	18.4	17.5	18.8	19.2
	8H	17.7	19.0	18.1	19.4	19.8	17.3	18.6	17.7	19.0	19.4
	12H	17.9	19.1	18.3	19.5	19.9	17.5	18.7	17.9	19.1	19.5

UGR Viewed Endwise

4H	2H	14.6	16.1	15.0	16.4	16.8	14.5	15.9	14.9	16.3	16.7
	3H	16.9	18.1	17.3	18.5	18.9	16.6	17.9	17.0	18.3	18.7
	4H	17.8	18.9	18.3	19.4	19.8	17.5	18.6	18.0	19.1	19.5
	6H	18.7	19.6	19.1	20.1	20.5	18.3	19.3	18.7	19.7	20.1
	8H	19.0	19.9	19.4	20.3	20.8	18.6	19.5	19.0	19.9	20.4
	12H	19.2	20.0	19.7	20.5	21.0	18.8	19.6	19.2	20.1	20.5
8H	4H	18.2	19.1	18.6	19.5	20.0	17.9	18.8	18.4	19.3	19.7
	6H	19.1	19.9	19.6	20.4	20.9	18.8	19.6	19.3	20.1	20.5
	8H	19.6	20.2	20.1	20.7	21.2	19.2	19.9	19.7	20.4	20.9
	12H	19.9	20.5	20.4	21.0	21.6	19.5	20.1	20.0	20.6	21.2
12H	4H	18.2	19.1	18.7	19.5	20.0	18.0	18.8	18.5	19.3	19.8
	6H	19.2	19.9	19.8	20.4	20.9	18.9	19.6	19.4	20.1	20.6
	8H	19.7	20.3	20.2	20.8	21.4	19.4	20.0	19.9	20.4	21.0

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 1118 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)