



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ABP24-FS1-UNV-28W-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-28W-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	3663
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	1631	1606	1578
55	1626	1596	1570
65	1584	1555	1504
75	1537	1470	1402
85	1496	1388	1280

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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	1128	1128	1128	1128	1128
2.5	1135	1135	1130	1127	1128
5.0	1135	1135	1130	1127	1128
7.5	1134	1133	1129	1126	1127
10.0	1132	1130	1126	1123	1123
12.5	1126	1126	1121	1118	1118
15.0	1120	1118	1114	1111	1110
17.5	1111	1110	1104	1100	1100
20.0	1101	1099	1093	1089	1088
22.5	1088	1086	1079	1074	1074
25.0	1072	1070	1063	1057	1056
27.5	1054	1051	1045	1039	1037
30.0	1032	1031	1024	1017	1016
32.5	1009	1007	1000	993	990
35.0	984	982	974	966	964
37.5	956	954	945	937	935
40.0	926	924	915	904	903
42.5	893	890	881	870	866
45.0	858	855	845	835	830
47.5	820	817	807	796	793
50.0	779	776	768	757	754
52.5	739	733	725	716	713
55.0	694	688	681	672	670
57.5	644	643	634	627	625
60.0	597	595	587	580	578
62.5	549	546	538	530	529
65.0	498	497	489	480	473
67.5	448	446	439	427	422
70.0	397	396	387	375	371
72.5	347	343	335	324	320
75.0	296	293	283	274	270
77.5	246	240	233	225	220
80.0	191	191	182	177	173
82.5	143	142	135	130	128
85.0	97	96	90	85	83
87.5	54	52	48	44	42
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	422.78	N.A.	11.50
0-30	913.35	N.A.	24.90
0-40	1522.69	N.A.	41.60
0-60	2781.98	N.A.	75.90
0-80	3563.6	N.A.	97.30
0-90	3663.03	N.A.	100.00
10-90	3555.22	N.A.	97.10
20-40	1099.91	N.A.	30.00
20-50	1751.23	N.A.	47.80
40-70	1741.75	N.A.	47.50
60-80	781.62	N.A.	21.30
70-80	299.17	N.A.	8.20
80-90	99.43	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	3663.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.81
10-20	314.98
20-30	490.57
30-40	609.34
40-50	651.33
50-60	607.97
60-70	482.45
70-80	299.17
80-90	99.43
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

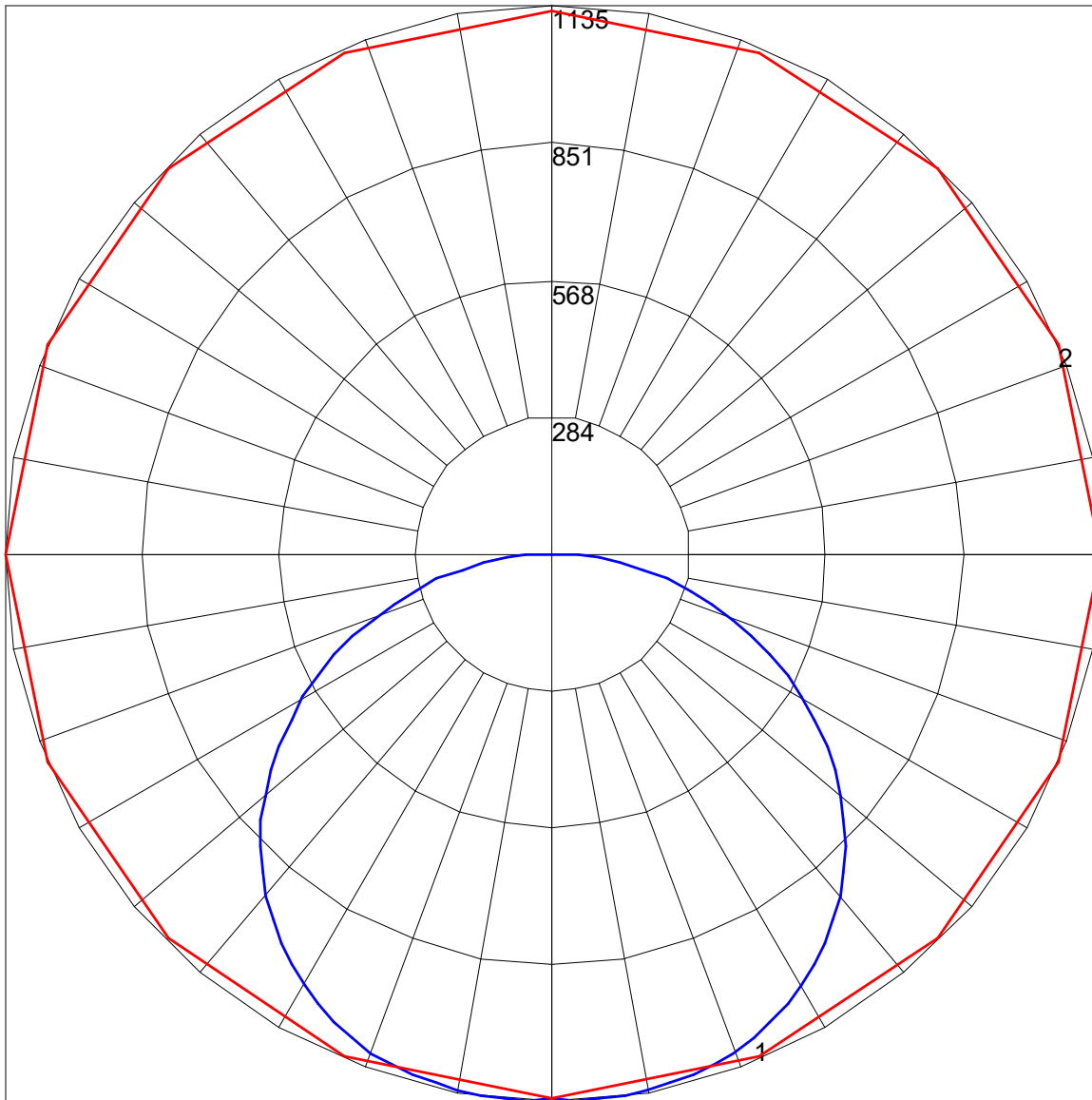
Reflectances

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	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
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	18.7	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	19.3	19.9	19.8	20.4	20.9	18.9	19.6	19.5	20.1	20.6
	8H	19.7	20.3	20.2	20.8	21.4	19.4	20.0	19.9	20.5	21.0

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 1135 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.)