



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L47-927-AF-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20224.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 2023-07-21
 [MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1x4'RECESSED LED LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC CENTER LENS
 [MORE] 0-10V DIMMING DRIVER
 [LUMCAT] LT-14-L47-927-AF-DIM-UNV_
 [LAMPCAT] 22 INCH LED ARRAYS
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] INDOOR
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3742
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	33.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3553	3664	3870
55	3265	3578	3872
65	2845	3498	3705
75	2149	3120	3276
85	927	1518	1287

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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	1301.394	1301.394	1301.394	1301.394	1301.394
5	1321.623	1296.898	1290.155	1286.409	1283.412
10	1299.146	1276.669	1272.923	1270.676	1266.930
15	1268.428	1249.697	1245.951	1249.697	1244.453
20	1218.230	1202.497	1202.497	1209.240	1209.240
25	1160.540	1148.553	1154.547	1165.785	1166.534
30	1095.358	1083.371	1096.108	1114.089	1114.089
35	1021.935	1012.944	1026.430	1053.402	1055.650
40	935.775	934.276	949.261	982.226	989.718
45	839.125	840.624	865.348	905.057	914.047
50	734.984	743.225	777.689	817.398	831.633
55	625.598	646.576	685.535	722.996	741.727
60	516.961	549.178	593.382	624.100	641.332
65	401.581	438.293	493.735	514.714	522.955
70	296.691	340.895	387.346	398.585	409.823
75	185.806	242.747	269.719	267.471	283.205
80	96.649	139.355	153.590	143.101	153.590
85	26.972	47.950	44.204	37.461	37.461
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	475.34	N.A.	12.70
0-30	1009.11	N.A.	27.00
0-40	1655.15	N.A.	44.20
0-60	2940.06	N.A.	78.60
0-80	3681.59	N.A.	98.40
0-90	3741.78	N.A.	100.00
10-90	3618.83	N.A.	96.70
20-40	1179.81	N.A.	31.50
20-50	1852.34	N.A.	49.50
40-70	1758.04	N.A.	47.00
60-80	741.53	N.A.	19.80
70-80	268.40	N.A.	7.20
80-90	60.19	N.A.	1.60
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	3741.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.96
10-20	352.38
20-30	533.77
30-40	646.04
40-50	672.53
50-60	612.38
60-70	473.12
70-80	268.40
80-90	60.19
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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UGR TABLE - CORRECTED

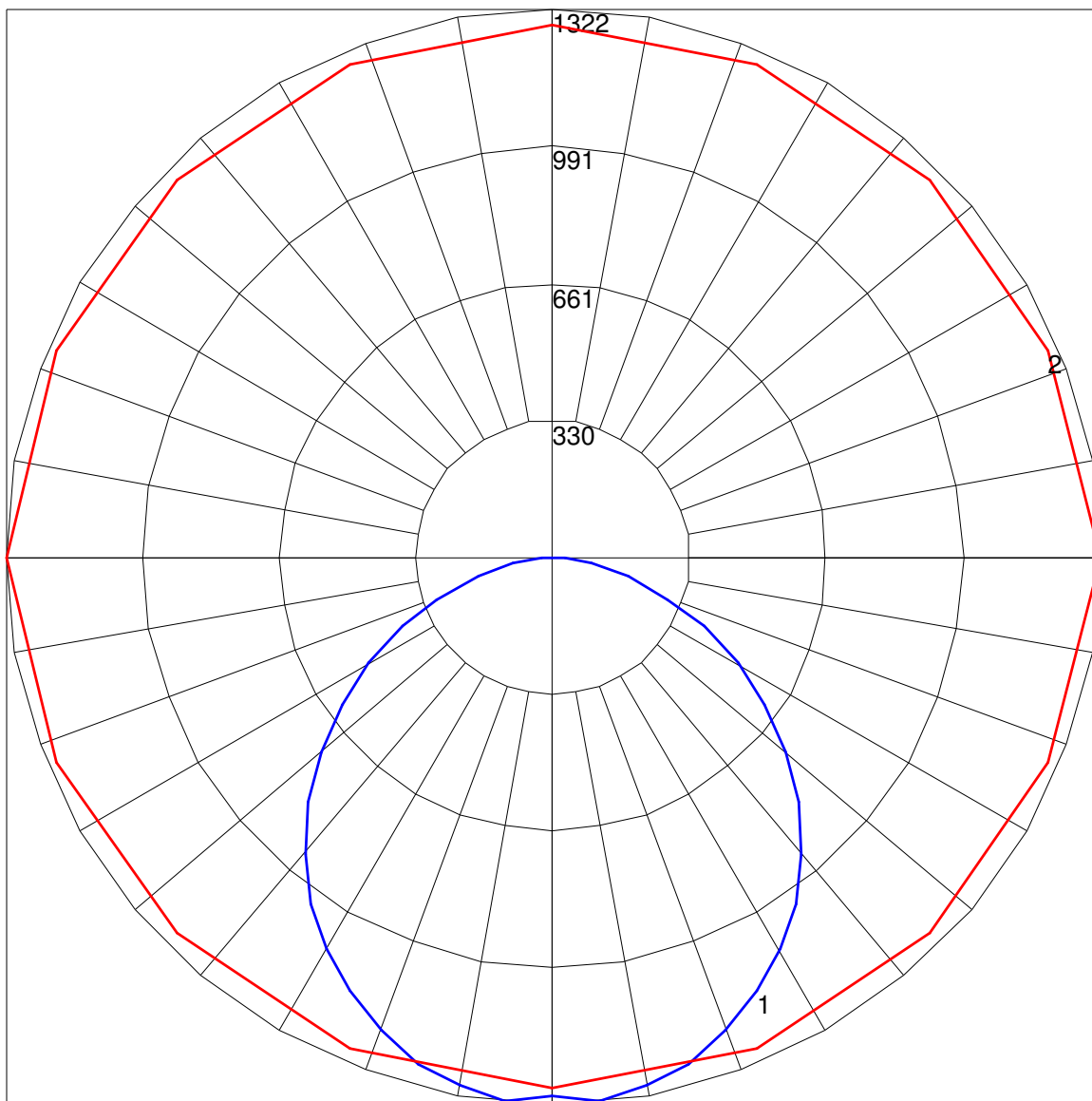
Reflectances

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	16.2	17.8	16.5	18.1	18.5	17.1	18.8	17.5	19.1	19.4
	3H	17.8	19.3	18.2	19.7	20.0	19.0	20.5	19.4	20.9	21.2
	4H	18.4	19.8	18.8	20.1	20.5	19.7	21.1	20.1	21.5	21.9
	6H	18.7	20.0	19.1	20.4	20.8	20.2	21.5	20.6	21.9	22.2
	8H	18.8	20.0	19.2	20.4	20.8	20.3	21.5	20.7	21.9	22.3
	12H	18.8	20.0	19.3	20.4	20.8	20.3	21.5	20.8	21.9	22.3
4H	2H	17.0	18.4	17.4	18.8	19.1	17.7	19.1	18.1	19.5	19.8
	3H	18.9	20.1	19.3	20.5	20.9	19.9	21.0	20.3	21.4	21.8
	4H	19.6	20.7	20.1	21.1	21.5	20.7	21.7	21.1	22.2	22.6
	6H	20.1	21.0	20.5	21.4	21.9	21.2	22.2	21.7	22.6	23.1
	8H	20.2	21.1	20.6	21.5	22.0	21.4	22.2	21.8	22.7	23.2
	12H	20.2	21.0	20.7	21.5	22.0	21.4	22.2	21.9	22.7	23.2
8H	4H	20.0	20.9	20.5	21.3	21.8	21.0	21.8	21.4	22.3	22.7
	6H	20.6	21.4	21.1	21.8	22.3	21.6	22.3	22.1	22.8	23.3
	8H	20.8	21.5	21.3	22.0	22.5	21.8	22.5	22.3	23.0	23.4
	12H	20.9	21.5	21.4	22.0	22.5	21.9	22.5	22.4	23.0	23.5
12H	4H	20.1	20.9	20.5	21.3	21.8	21.0	21.8	21.5	22.2	22.7
	6H	20.7	21.4	21.2	21.8	22.4	21.7	22.3	22.2	22.8	23.3
	8H	20.9	21.5	21.4	22.0	22.6	21.9	22.5	22.4	22.9	23.5

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1321.623 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.)