



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L90-930-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-L90-930-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	7430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	66.8
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	7055	7275	7684
55	6484	7105	7687
65	5649	6945	7356
75	4268	6195	6505
85	1840	3015	2555

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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	2584.005	2584.005	2584.005	2584.005	2584.005
5	2624.171	2575.079	2561.690	2554.252	2548.302
10	2579.542	2534.913	2527.475	2523.012	2515.574
15	2518.549	2481.359	2473.920	2481.359	2470.945
20	2418.878	2387.638	2387.638	2401.027	2401.027
25	2304.331	2280.529	2292.430	2314.745	2316.232
30	2174.908	2151.106	2176.395	2212.098	2212.098
35	2029.121	2011.269	2038.046	2091.601	2096.064
40	1858.044	1855.068	1884.821	1950.276	1965.153
45	1666.140	1669.115	1718.207	1797.051	1814.903
50	1459.360	1475.724	1544.155	1622.999	1651.264
55	1242.167	1283.820	1361.177	1435.558	1472.749
60	1026.461	1090.429	1178.199	1239.192	1273.407
65	797.367	870.261	980.345	1021.998	1038.362
70	589.100	676.869	769.102	791.417	813.731
75	368.931	481.991	535.545	531.082	562.322
80	191.904	276.698	304.963	284.136	304.963
85	53.555	95.208	87.770	74.381	74.381
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	943.82	N.A.	12.70
0-30	2003.65	N.A.	27.00
0-40	3286.41	N.A.	44.20
0-60	5837.7	N.A.	78.60
0-80	7310.05	N.A.	98.40
0-90	7429.56	N.A.	100.00
10-90	7185.42	N.A.	96.70
20-40	2342.58	N.A.	31.50
20-50	3677.94	N.A.	49.50
40-70	3490.71	N.A.	47.00
60-80	1472.35	N.A.	19.80
70-80	532.94	N.A.	7.20
80-90	119.51	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	7429.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	244.14
10-20	699.68
20-30	1059.83
30-40	1282.76
40-50	1335.36
50-60	1215.93
60-70	939.42
70-80	532.94
80-90	119.51
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

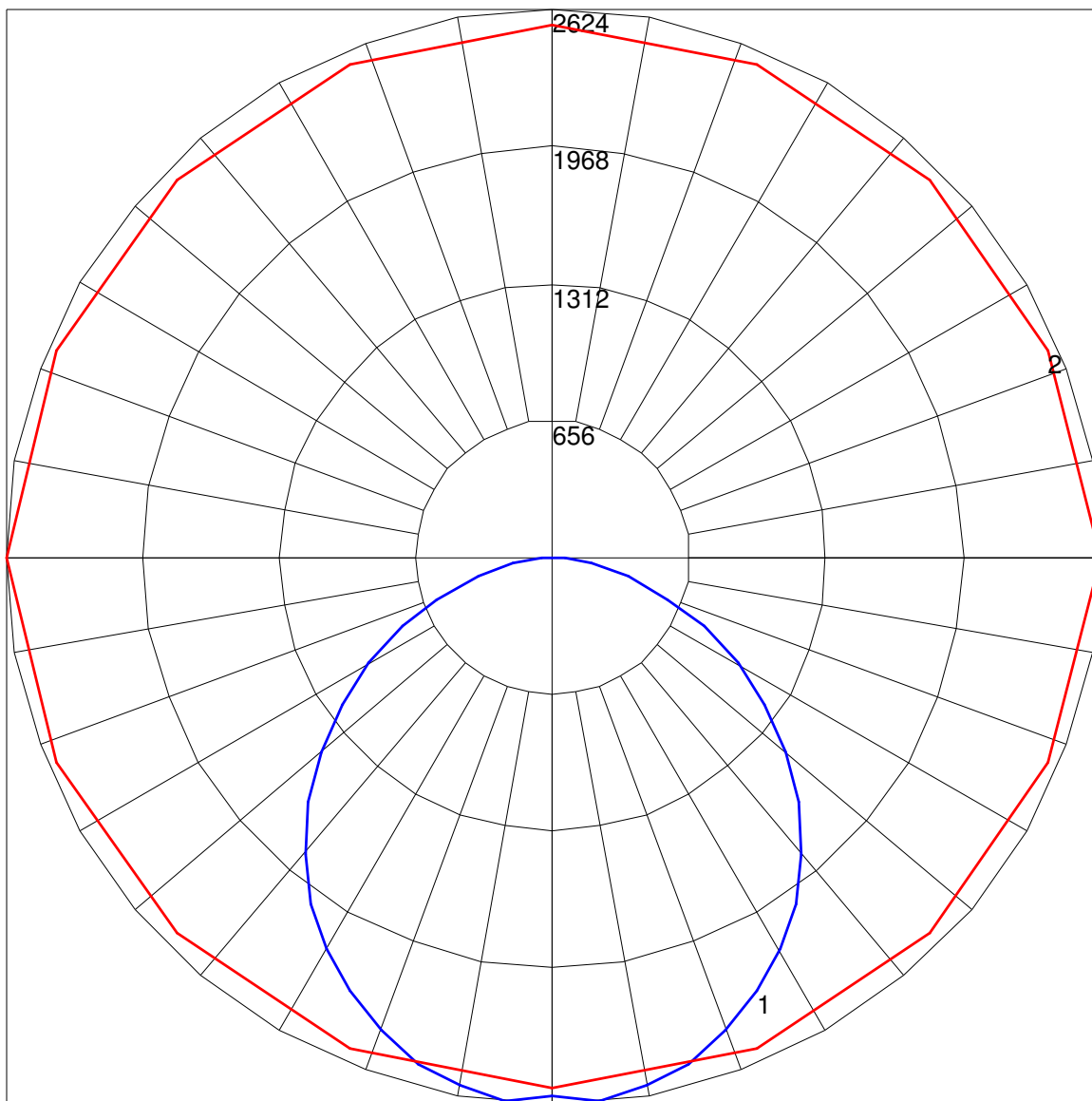
Reflectances

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	18.6	20.2	18.9	20.5	20.9	19.5	21.2	19.9	21.5	21.8
	3H	20.2	21.7	20.6	22.1	22.4	21.4	22.9	21.8	23.3	23.6
	4H	20.8	22.2	21.2	22.5	22.9	22.1	23.5	22.5	23.9	24.3
	6H	21.1	22.4	21.5	22.8	23.2	22.6	23.9	23.0	24.3	24.6
	8H	21.2	22.4	21.6	22.8	23.2	22.7	23.9	23.1	24.3	24.7
	12H	21.2	22.4	21.7	22.8	23.2	22.7	23.9	23.2	24.3	24.7
4H	2H	19.4	20.8	19.8	21.2	21.5	20.1	21.5	20.5	21.9	22.2
	3H	21.3	22.5	21.7	22.9	23.3	22.3	23.4	22.7	23.8	24.2
	4H	22.0	23.1	22.5	23.5	23.9	23.1	24.1	23.5	24.6	25.0
	6H	22.5	23.4	22.9	23.8	24.3	23.6	24.6	24.1	25.0	25.5
	8H	22.6	23.5	23.0	23.9	24.4	23.8	24.6	24.2	25.1	25.6
	12H	22.6	23.4	23.1	23.9	24.4	23.8	24.6	24.3	25.1	25.6
8H	4H	22.4	23.3	22.9	23.7	24.2	23.4	24.2	23.8	24.7	25.1
	6H	23.0	23.8	23.5	24.2	24.7	24.0	24.7	24.5	25.2	25.7
	8H	23.2	23.9	23.7	24.4	24.9	24.2	24.9	24.7	25.4	25.8
	12H	23.3	23.9	23.8	24.4	24.9	24.3	24.9	24.8	25.4	25.9
12H	4H	22.5	23.3	22.9	23.7	24.2	23.4	24.2	23.9	24.6	25.1
	6H	23.1	23.8	23.6	24.2	24.8	24.1	24.7	24.6	25.2	25.7
	8H	23.3	23.9	23.8	24.4	25.0	24.3	24.9	24.8	25.3	25.9

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 2624.171 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.)