



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L90-935-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-L90-935-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	7520
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	7141	7364	7778
55	6563	7192	7781
65	5718	7030	7446
75	4320	6271	6584
85	1862	3052	2586

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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	2615.517	2615.517	2615.517	2615.517	2615.517
5	2656.173	2606.483	2592.931	2585.402	2579.379
10	2611.000	2565.827	2558.298	2553.781	2546.252
15	2549.264	2511.619	2504.091	2511.619	2501.079
20	2448.377	2416.756	2416.756	2430.308	2430.308
25	2332.433	2308.341	2320.387	2342.973	2344.479
30	2201.431	2177.339	2202.937	2239.076	2239.076
35	2053.866	2035.797	2062.901	2117.108	2121.626
40	1880.703	1877.691	1907.807	1974.061	1989.118
45	1686.459	1689.471	1739.161	1818.967	1837.036
50	1477.157	1493.721	1562.986	1642.792	1671.401
55	1257.315	1299.477	1377.777	1453.065	1490.709
60	1038.979	1103.727	1192.567	1254.304	1288.937
65	807.091	880.874	992.300	1034.462	1051.025
70	596.284	685.124	778.482	801.068	823.655
75	373.430	487.869	542.076	537.559	569.180
80	194.244	280.073	308.682	287.601	308.682
85	54.208	96.369	88.840	75.288	75.288
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	955.33	N.A.	12.70
0-30	2028.09	N.A.	27.00
0-40	3326.49	N.A.	44.20
0-60	5908.89	N.A.	78.60
0-80	7399.2	N.A.	98.40
0-90	7520.17	N.A.	100.00
10-90	7273.05	N.A.	96.70
20-40	2371.15	N.A.	31.50
20-50	3722.8	N.A.	49.50
40-70	3533.28	N.A.	47.00
60-80	1490.31	N.A.	19.80
70-80	539.43	N.A.	7.20
80-90	120.97	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	7520.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	247.12
10-20	708.22
20-30	1072.75
30-40	1298.4
40-50	1351.65
50-60	1230.76
60-70	950.87
70-80	539.43
80-90	120.97
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	54	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

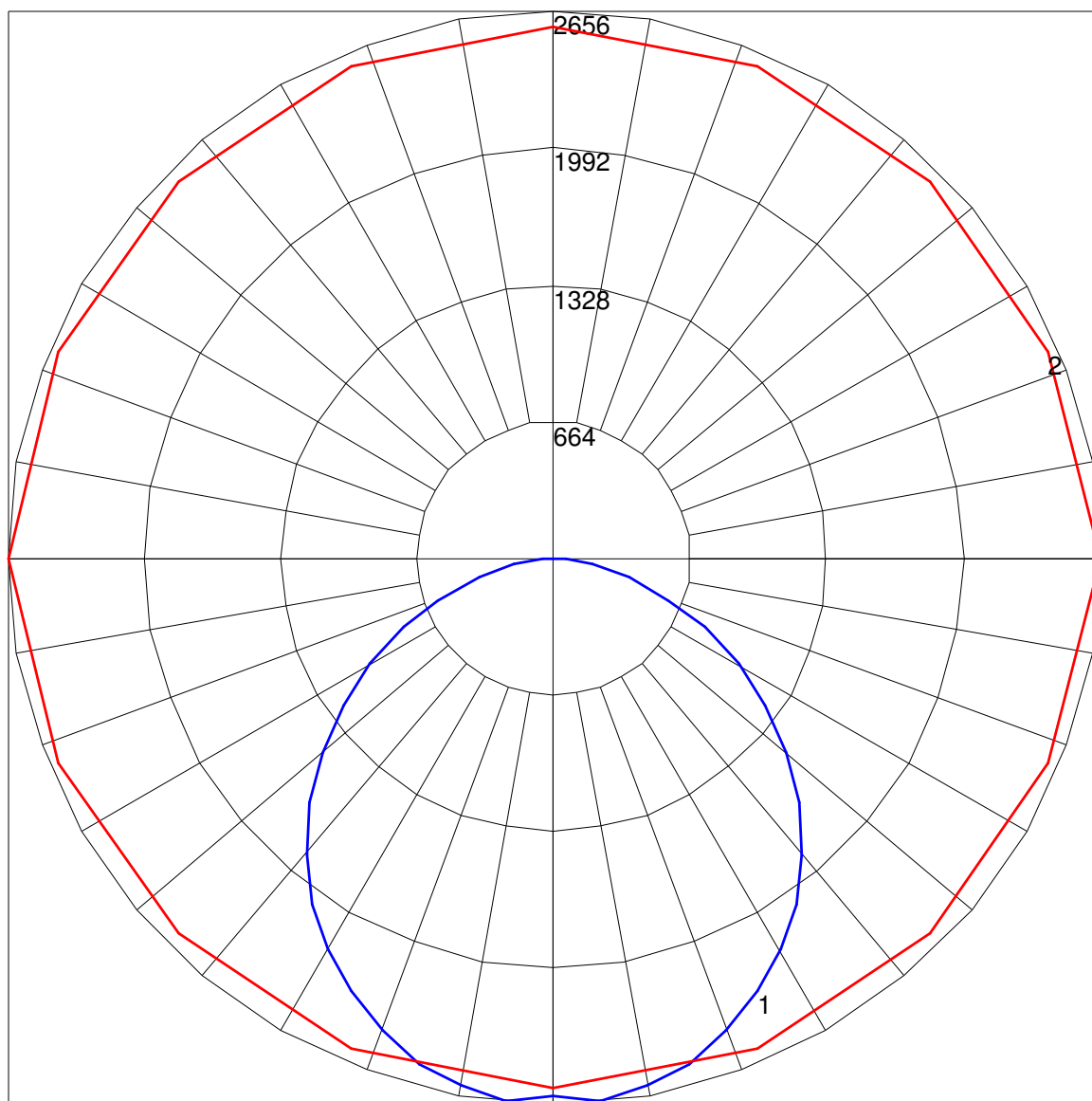
Reflectances

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 = 2656.173 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.)