



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L90-850-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-L90-850-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	9604
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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	9119	9404	9933
55	8381	9185	9937
65	7302	8978	9509
75	5517	8008	8409
85	2378	3897	3303

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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	3340.300	3340.300	3340.300	3340.300	3340.300
5	3392.221	3328.761	3311.454	3301.839	3294.147
10	3334.531	3276.840	3267.225	3261.455	3251.840
15	3255.686	3207.611	3197.996	3207.611	3194.149
20	3126.844	3086.460	3086.460	3103.767	3103.767
25	2978.770	2948.002	2963.386	2992.232	2994.155
30	2811.467	2780.698	2813.390	2859.543	2859.543
35	2623.010	2599.934	2634.548	2703.777	2709.546
40	2401.862	2398.016	2436.476	2521.090	2540.320
45	2153.791	2157.637	2221.097	2323.018	2346.094
50	1886.490	1907.644	1996.103	2098.024	2134.561
55	1605.728	1659.573	1759.571	1855.722	1903.798
60	1326.889	1409.580	1523.038	1601.882	1646.112
65	1030.743	1124.971	1267.275	1321.120	1342.274
70	761.519	874.978	994.205	1023.051	1051.896
75	476.911	623.061	692.290	686.521	726.905
80	248.071	357.683	394.221	367.298	394.221
85	69.229	123.074	113.459	96.151	96.151
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1220.06	N.A.	12.70
0-30	2590.09	N.A.	27.00
0-40	4248.29	N.A.	44.20
0-60	7546.29	N.A.	78.60
0-80	9449.58	N.A.	98.40
0-90	9604.07	N.A.	100.00
10-90	9288.47	N.A.	96.70
20-40	3028.22	N.A.	31.50
20-50	4754.42	N.A.	49.50
40-70	4512.38	N.A.	47.00
60-80	1903.29	N.A.	19.80
70-80	688.92	N.A.	7.20
80-90	154.49	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	9604.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	315.60
10-20	904.47
20-30	1370.02
30-40	1658.2
40-50	1726.2
50-60	1571.81
60-70	1214.37
70-80	688.92
80-90	154.49
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

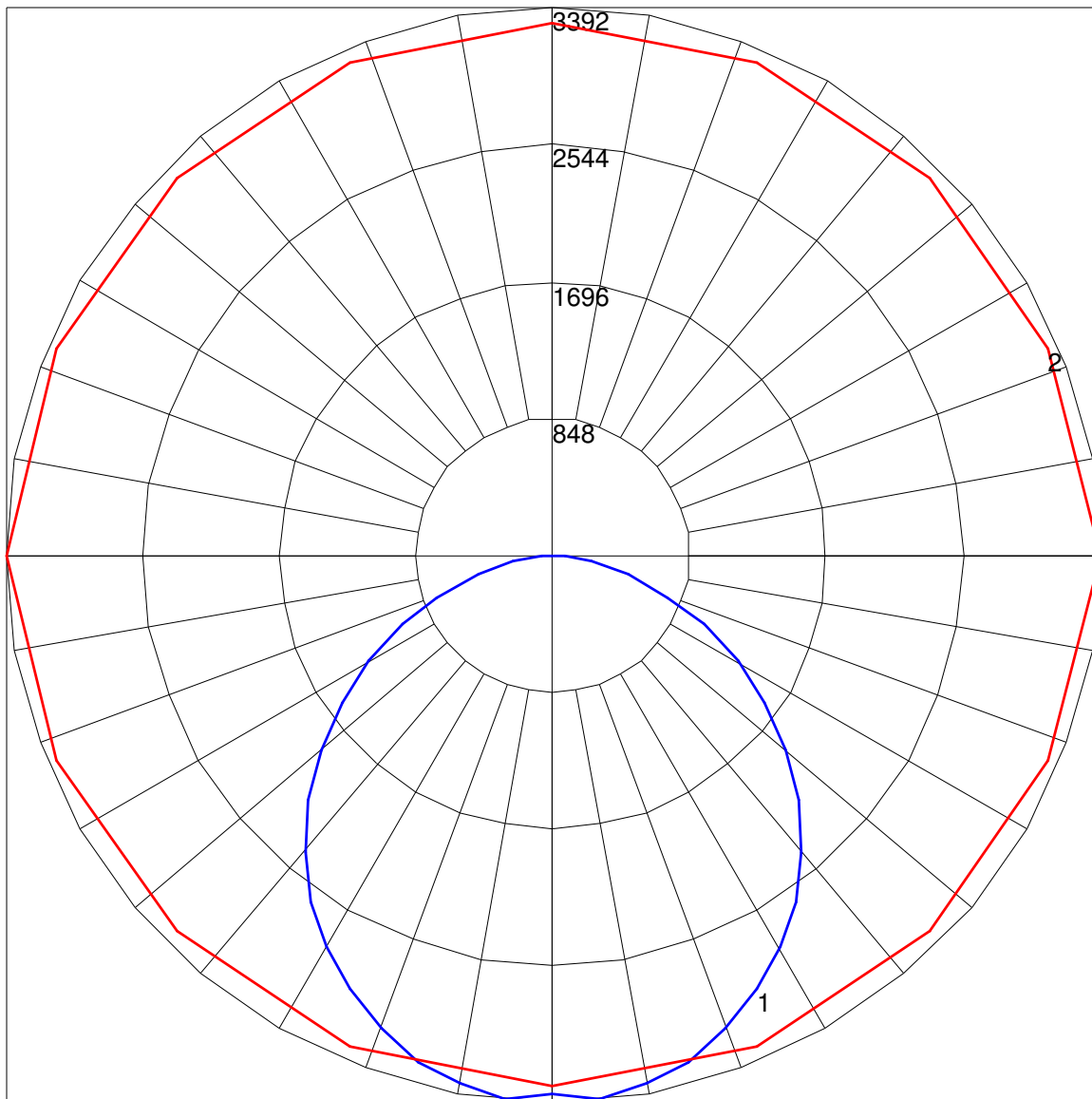
Reflectances

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	19.5	21.1	19.8	21.4	21.8	20.4	22.1	20.8	22.4	22.7
	3H	21.1	22.6	21.5	23.0	23.3	22.3	23.8	22.7	24.2	24.5
	4H	21.7	23.1	22.1	23.4	23.8	23.0	24.4	23.4	24.8	25.2
	6H	22.0	23.3	22.4	23.7	24.1	23.5	24.8	23.9	25.2	25.5
	8H	22.1	23.3	22.5	23.7	24.1	23.6	24.8	24.0	25.2	25.6
	12H	22.1	23.3	22.6	23.7	24.1	23.6	24.8	24.1	25.2	25.6
4H	2H	20.3	21.7	20.7	22.1	22.4	21.0	22.4	21.4	22.8	23.1
	3H	22.2	23.4	22.6	23.8	24.2	23.2	24.3	23.6	24.7	25.1
	4H	22.9	24.0	23.4	24.4	24.8	24.0	25.0	24.4	25.5	25.9
	6H	23.4	24.3	23.8	24.7	25.2	24.5	25.5	25.0	25.9	26.4
	8H	23.5	24.4	23.9	24.8	25.3	24.7	25.5	25.1	26.0	26.5
	12H	23.5	24.3	24.0	24.8	25.3	24.7	25.5	25.2	26.0	26.5
8H	4H	23.3	24.2	23.8	24.6	25.1	24.3	25.1	24.7	25.6	26.0
	6H	23.9	24.7	24.4	25.1	25.6	24.9	25.6	25.4	26.1	26.6
	8H	24.1	24.8	24.6	25.3	25.8	25.1	25.8	25.6	26.3	26.7
	12H	24.2	24.8	24.7	25.3	25.8	25.2	25.8	25.7	26.3	26.8
12H	4H	23.4	24.2	23.8	24.6	25.1	24.3	25.1	24.8	25.5	26.0
	6H	24.0	24.7	24.5	25.1	25.7	25.0	25.6	25.5	26.1	26.6
	8H	24.2	24.8	24.7	25.3	25.9	25.2	25.8	25.7	26.2	26.8

Maximum UGR = 26.8

POLAR GRAPH



Maximum Candela = 3392.221 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.)