



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L90-950-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-L90-950-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	8064
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	7657	7896	8340
55	7037	7712	8344
65	6131	7538	7984
75	4632	6724	7060
85	1997	3272	2773

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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	2804.591	2804.591	2804.591	2804.591	2804.591
5	2848.186	2794.904	2780.372	2772.299	2765.841
10	2799.748	2751.309	2743.236	2738.392	2730.319
15	2733.548	2693.183	2685.110	2693.183	2681.880
20	2625.369	2591.462	2591.462	2605.993	2605.993
25	2501.043	2475.209	2488.126	2512.346	2513.960
30	2360.571	2334.738	2362.186	2400.937	2400.937
35	2202.339	2182.963	2212.027	2270.153	2274.997
40	2016.658	2013.429	2045.721	2116.764	2132.910
45	1808.372	1811.601	1864.884	1950.458	1969.834
50	1583.940	1601.701	1675.973	1761.548	1792.226
55	1348.206	1393.415	1477.375	1558.106	1598.472
60	1114.086	1183.515	1278.777	1344.977	1382.113
65	865.435	944.551	1064.033	1109.243	1127.003
70	639.389	734.651	834.757	858.977	883.196
75	400.425	523.136	581.262	576.419	610.326
80	208.286	300.319	330.997	308.392	330.997
85	58.126	103.336	95.262	80.731	80.731
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1024.39	N.A.	12.70
0-30	2174.7	N.A.	27.00
0-40	3566.96	N.A.	44.20
0-60	6336.04	N.A.	78.60
0-80	7934.08	N.A.	98.40
0-90	8063.8	N.A.	100.00
10-90	7798.81	N.A.	96.70
20-40	2542.56	N.A.	31.50
20-50	3991.92	N.A.	49.50
40-70	3788.69	N.A.	47.00
60-80	1598.04	N.A.	19.80
70-80	578.43	N.A.	7.20
80-90	129.72	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	8063.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	264.98
10-20	759.41
20-30	1150.3
30-40	1392.26
40-50	1449.35
50-60	1319.73
60-70	1019.61
70-80	578.43
80-90	129.72
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

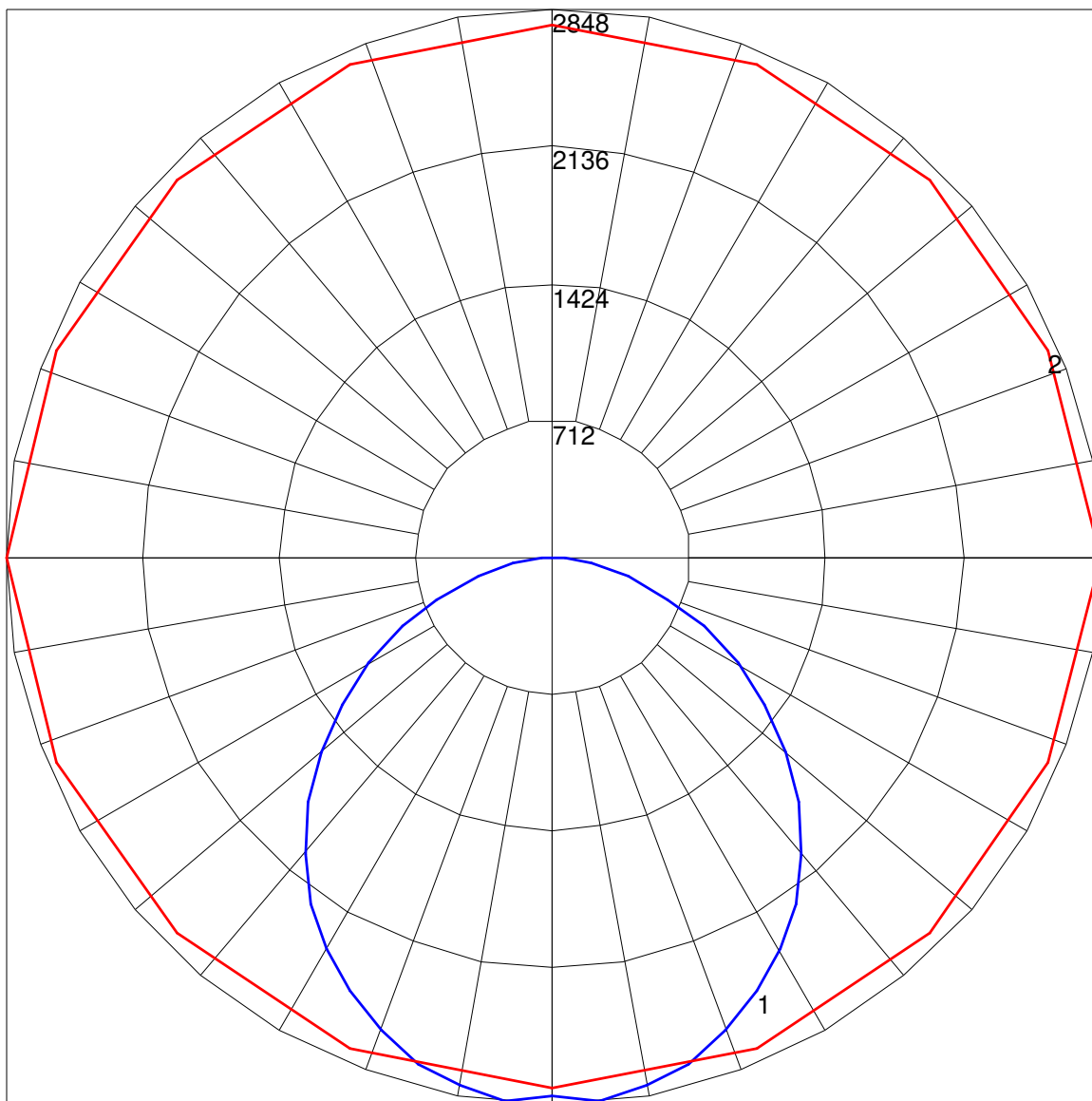
Reflectances

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	18.9	20.5	19.2	20.8	21.2	19.8	21.5	20.2	21.8	22.1
	3H	20.5	22.0	20.9	22.4	22.7	21.7	23.2	22.1	23.6	23.9
	4H	21.1	22.5	21.5	22.8	23.2	22.4	23.8	22.8	24.2	24.6
	6H	21.4	22.7	21.8	23.1	23.5	22.9	24.2	23.3	24.6	24.9
	8H	21.5	22.7	21.9	23.1	23.5	23.0	24.2	23.4	24.6	25.0
	12H	21.5	22.7	22.0	23.1	23.5	23.0	24.2	23.5	24.6	25.0
4H	2H	19.7	21.1	20.1	21.5	21.8	20.4	21.8	20.8	22.2	22.5
	3H	21.6	22.8	22.0	23.2	23.6	22.6	23.7	23.0	24.1	24.5
	4H	22.3	23.4	22.8	23.8	24.2	23.4	24.4	23.8	24.9	25.3
	6H	22.8	23.7	23.2	24.1	24.6	23.9	24.9	24.4	25.3	25.8
	8H	22.9	23.8	23.3	24.2	24.7	24.1	24.9	24.5	25.4	25.9
	12H	22.9	23.7	23.4	24.2	24.7	24.1	24.9	24.6	25.4	25.9
8H	4H	22.7	23.6	23.2	24.0	24.5	23.7	24.5	24.1	25.0	25.4
	6H	23.3	24.1	23.8	24.5	25.0	24.3	25.0	24.8	25.5	26.0
	8H	23.5	24.2	24.0	24.7	25.2	24.5	25.2	25.0	25.7	26.1
	12H	23.6	24.2	24.1	24.7	25.2	24.6	25.2	25.1	25.7	26.2
12H	4H	22.8	23.6	23.2	24.0	24.5	23.7	24.5	24.2	24.9	25.4
	6H	23.4	24.1	23.9	24.5	25.1	24.4	25.0	24.9	25.5	26.0
	8H	23.6	24.2	24.1	24.7	25.3	24.6	25.2	25.1	25.6	26.2

Maximum UGR = 26.2

POLAR GRAPH



Maximum Candela = 2848.186 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.)