



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L47-935-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-L47-935-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	3882
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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	3686	3801	4015
55	3388	3713	4017
65	2952	3629	3844
75	2230	3237	3399
85	961	1575	1335

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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	1350.196	1350.196	1350.196	1350.196	1350.196
5	1371.183	1345.532	1338.536	1334.649	1331.540
10	1347.864	1324.544	1320.658	1318.326	1314.439
15	1315.994	1296.561	1292.674	1296.561	1291.120
20	1263.914	1247.590	1247.590	1254.586	1254.586
25	1204.061	1191.624	1197.842	1209.502	1210.279
30	1136.434	1123.997	1137.212	1155.867	1155.867
35	1060.257	1050.930	1064.921	1092.905	1095.237
40	970.866	969.312	984.858	1019.060	1026.833
45	870.593	872.147	897.799	938.996	948.324
50	762.546	771.096	806.853	848.050	862.819
55	649.058	670.823	711.243	750.109	769.542
60	536.347	569.772	615.633	647.503	665.381
65	416.641	454.729	512.250	534.015	542.566
70	307.817	353.678	401.872	413.531	425.191
75	192.774	251.850	279.833	277.501	293.825
80	100.274	144.581	159.350	148.467	159.350
85	27.983	49.748	45.862	38.866	38.866
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	493.17	N.A.	12.70
0-30	1046.95	N.A.	27.00
0-40	1717.22	N.A.	44.20
0-60	3050.32	N.A.	78.60
0-80	3819.65	N.A.	98.40
0-90	3882.1	N.A.	100.00
10-90	3754.53	N.A.	96.70
20-40	1224.05	N.A.	31.50
20-50	1921.8	N.A.	49.50
40-70	1823.97	N.A.	47.00
60-80	769.33	N.A.	19.80
70-80	278.47	N.A.	7.20
80-90	62.45	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	3882.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.57
10-20	365.60
20-30	553.78
30-40	670.27
40-50	697.75
50-60	635.35
60-70	490.87
70-80	278.47
80-90	62.45
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

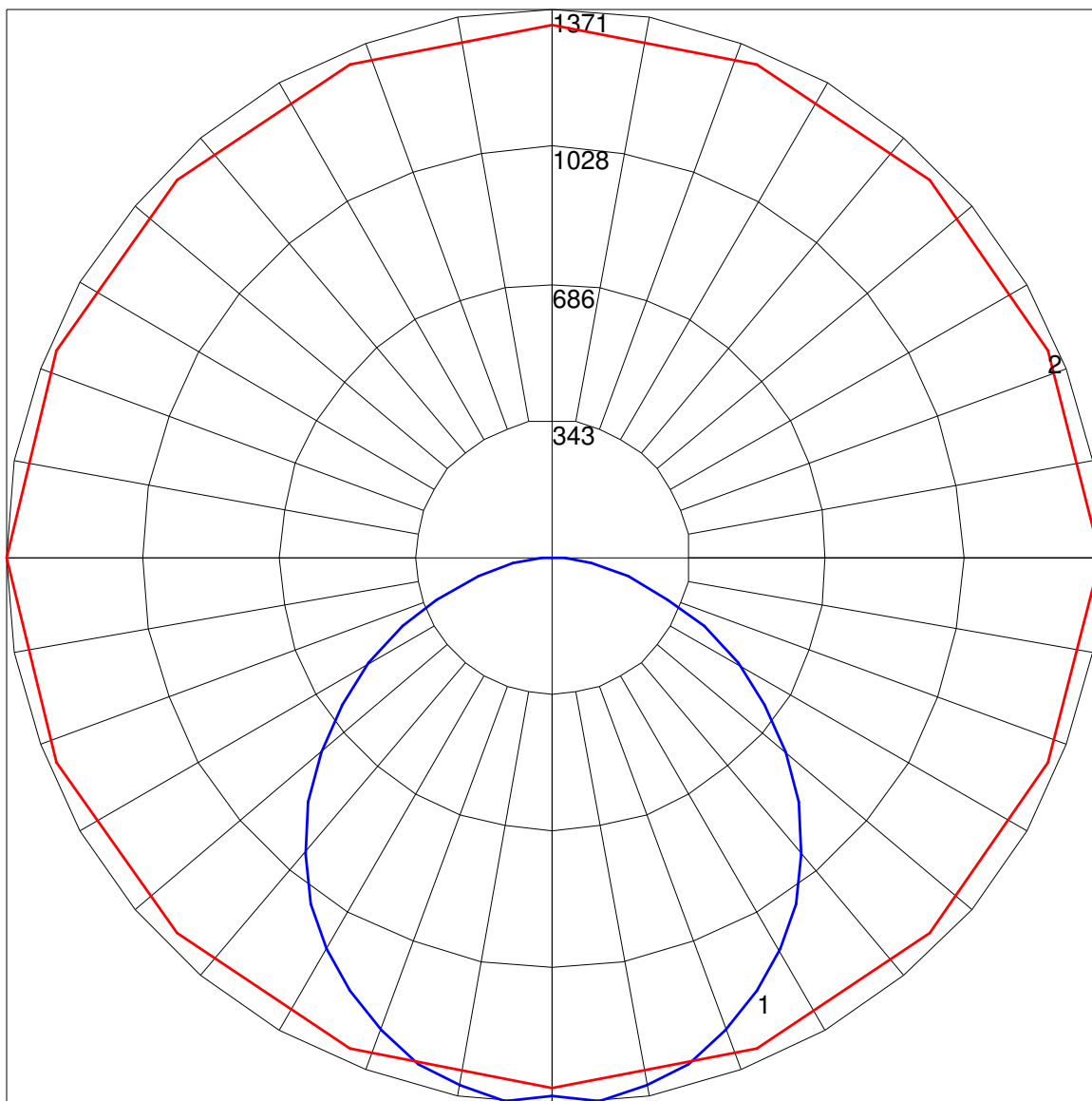
Reflectances

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	16.3	17.9	16.6	18.2	18.6	17.2	18.9	17.6	19.2	19.5
	3H	17.9	19.4	18.3	19.8	20.1	19.1	20.6	19.5	21.0	21.3
	4H	18.5	19.9	18.9	20.2	20.6	19.8	21.2	20.2	21.6	22.0
	6H	18.8	20.1	19.2	20.5	20.9	20.3	21.6	20.7	22.0	22.3
	8H	18.9	20.1	19.3	20.5	20.9	20.4	21.6	20.8	22.0	22.4
	12H	18.9	20.1	19.4	20.5	20.9	20.4	21.6	20.9	22.0	22.4
4H	2H	17.1	18.5	17.5	18.9	19.2	17.8	19.2	18.2	19.6	19.9
	3H	19.0	20.2	19.4	20.6	21.0	20.0	21.1	20.4	21.5	21.9
	4H	19.7	20.8	20.2	21.2	21.6	20.8	21.8	21.2	22.3	22.7
	6H	20.2	21.1	20.6	21.5	22.0	21.3	22.3	21.8	22.7	23.2
	8H	20.3	21.2	20.7	21.6	22.1	21.5	22.3	21.9	22.8	23.3
	12H	20.3	21.1	20.8	21.6	22.1	21.5	22.3	22.0	22.8	23.3
8H	4H	20.1	21.0	20.6	21.4	21.9	21.1	21.9	21.5	22.4	22.8
	6H	20.7	21.5	21.2	21.9	22.4	21.7	22.4	22.2	22.9	23.4
	8H	20.9	21.6	21.4	22.1	22.6	21.9	22.6	22.4	23.1	23.5
	12H	21.0	21.6	21.5	22.1	22.6	22.0	22.6	22.5	23.1	23.6
12H	4H	20.2	21.0	20.6	21.4	21.9	21.1	21.9	21.6	22.3	22.8
	6H	20.8	21.5	21.3	21.9	22.5	21.8	22.4	22.3	22.9	23.4
	8H	21.0	21.6	21.5	22.1	22.7	22.0	22.6	22.5	23.0	23.6

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 1371.183 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.)