



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L47-950-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-L47-950-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	4163
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	3953	4076	4306
55	3633	3981	4307
65	3165	3891	4122
75	2391	3471	3645
85	1031	1689	1432

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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>
<b>0</b>	1447.800	1447.800	1447.800	1447.800	1447.800
<b>5</b>	1470.305	1442.799	1435.298	1431.130	1427.796
<b>10</b>	1445.300	1420.295	1416.127	1413.627	1409.459
<b>15</b>	1411.126	1390.288	1386.121	1390.288	1384.454
<b>20</b>	1355.281	1337.777	1337.777	1345.279	1345.279
<b>25</b>	1291.101	1277.765	1284.433	1296.936	1297.769
<b>30</b>	1218.586	1205.250	1219.420	1239.424	1239.424
<b>35</b>	1136.902	1126.900	1141.904	1171.910	1174.410
<b>40</b>	1041.049	1039.382	1056.052	1092.727	1101.062
<b>45</b>	933.527	935.194	962.700	1006.876	1016.878
<b>50</b>	817.670	826.838	865.179	909.355	925.192
<b>55</b>	695.978	719.316	762.658	804.334	825.171
<b>60</b>	575.119	610.960	660.137	694.311	713.481
<b>65</b>	446.759	487.601	549.281	572.619	581.787
<b>70</b>	330.068	379.245	430.923	443.425	455.928
<b>75</b>	206.710	270.056	300.062	297.562	315.065
<b>80</b>	107.522	155.032	170.869	159.200	170.869
<b>85</b>	30.006	53.344	49.177	41.675	41.675
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	528.82	N.A.	12.70
0-30	1122.63	N.A.	27.00
0-40	1841.35	N.A.	44.20
0-60	3270.82	N.A.	78.60
0-80	4095.77	N.A.	98.40
0-90	4162.73	N.A.	100.00
10-90	4025.94	N.A.	96.70
20-40	1312.53	N.A.	31.50
20-50	2060.73	N.A.	49.50
40-70	1955.82	N.A.	47.00
60-80	824.95	N.A.	19.80
70-80	298.60	N.A.	7.20
80-90	66.96	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	4162.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.79
10-20	392.03
20-30	593.81
30-40	718.72
40-50	748.19
50-60	681.28
60-70	526.35
70-80	298.60
80-90	66.96
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	45	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**

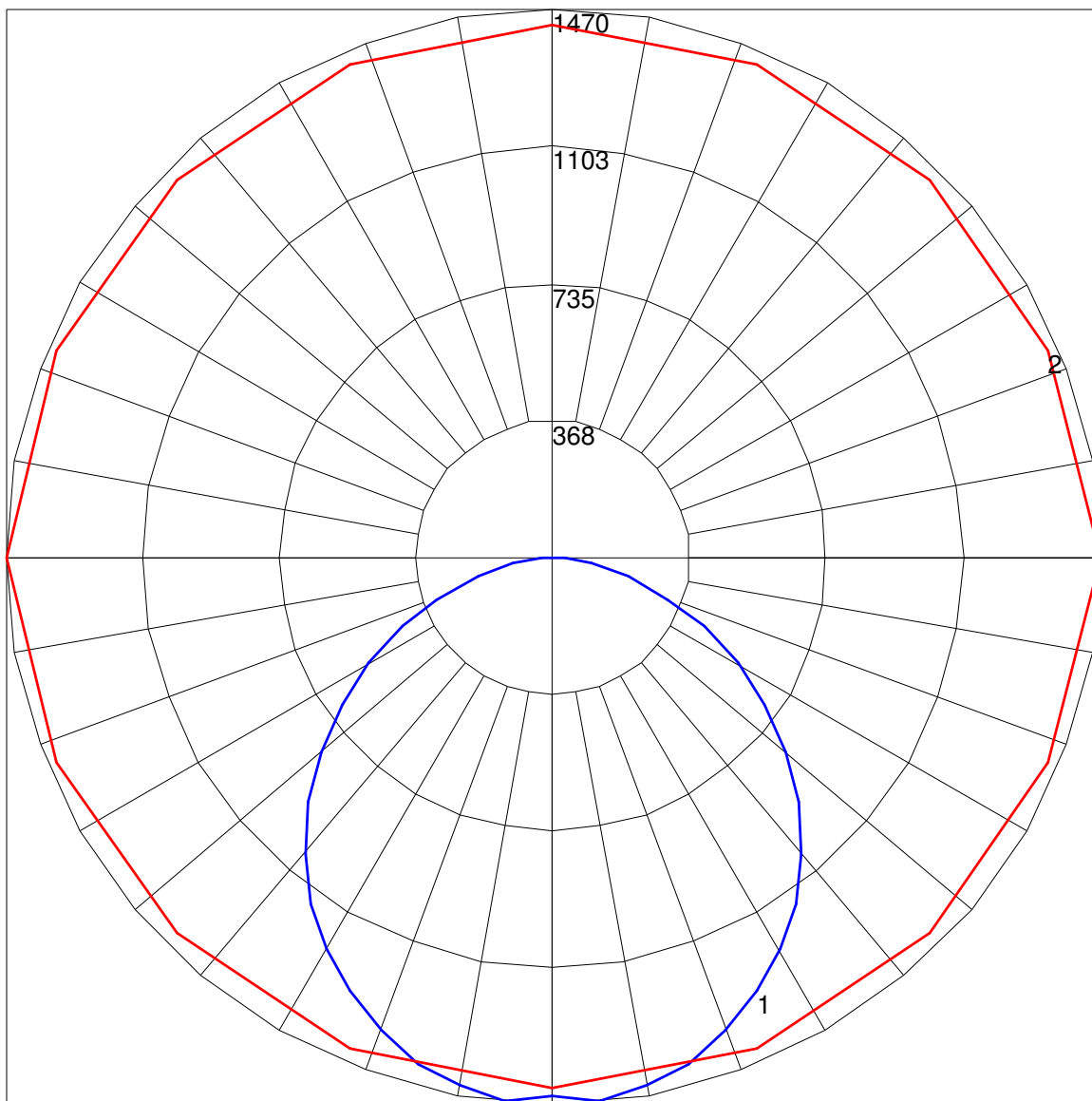
Reflectances

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	16.6	18.2	16.9	18.5	18.9	17.5	19.2	17.9	19.5	19.8
	3H	18.2	19.7	18.6	20.1	20.4	19.4	20.9	19.8	21.3	21.6
	4H	18.8	20.2	19.2	20.5	20.9	20.1	21.5	20.5	21.9	22.3
	6H	19.1	20.4	19.5	20.8	21.2	20.6	21.9	21.0	22.3	22.6
	8H	19.2	20.4	19.6	20.8	21.2	20.7	21.9	21.1	22.3	22.7
	12H	19.2	20.4	19.7	20.8	21.2	20.7	21.9	21.2	22.3	22.7
4H	2H	17.4	18.8	17.8	19.2	19.5	18.1	19.5	18.5	19.9	20.2
	3H	19.3	20.5	19.7	20.9	21.3	20.3	21.4	20.7	21.8	22.2
	4H	20.0	21.1	20.5	21.5	21.9	21.1	22.1	21.5	22.6	23.0
	6H	20.5	21.4	20.9	21.8	22.3	21.6	22.6	22.1	23.0	23.5
	8H	20.6	21.5	21.0	21.9	22.4	21.8	22.6	22.2	23.1	23.6
	12H	20.6	21.4	21.1	21.9	22.4	21.8	22.6	22.3	23.1	23.6
8H	4H	20.4	21.3	20.9	21.7	22.2	21.4	22.2	21.8	22.7	23.1
	6H	21.0	21.8	21.5	22.2	22.7	22.0	22.7	22.5	23.2	23.7
	8H	21.2	21.9	21.7	22.4	22.9	22.2	22.9	22.7	23.4	23.8
	12H	21.3	21.9	21.8	22.4	22.9	22.3	22.9	22.8	23.4	23.9
12H	4H	20.5	21.3	20.9	21.7	22.2	21.4	22.2	21.9	22.6	23.1
	6H	21.1	21.8	21.6	22.2	22.8	22.1	22.7	22.6	23.2	23.7
	8H	21.3	21.9	21.8	22.4	23.0	22.3	22.9	22.8	23.3	23.9

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1470.305 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.)