



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LT-14-L47-930-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-L47-930-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	3835
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	3642	3756	3967
55	3347	3668	3968
65	2916	3585	3797
75	2203	3198	3358
85	950	1556	1319

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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>	1333.928	1333.928	1333.928	1333.928	1333.928
<b>5</b>	1354.663	1329.321	1322.409	1318.569	1315.498
<b>10</b>	1331.624	1308.586	1304.746	1302.442	1298.603
<b>15</b>	1300.139	1280.940	1277.100	1280.940	1275.564
<b>20</b>	1248.686	1232.559	1232.559	1239.471	1239.471
<b>25</b>	1189.554	1177.267	1183.410	1194.929	1195.697
<b>30</b>	1122.742	1110.455	1123.510	1141.941	1141.941
<b>35</b>	1047.483	1038.268	1052.091	1079.737	1082.041
<b>40</b>	959.169	957.633	972.992	1006.782	1014.461
<b>45</b>	860.103	861.639	886.982	927.683	936.898
<b>50</b>	753.358	761.806	797.132	837.833	852.424
<b>55</b>	641.238	662.740	702.674	741.071	760.270
<b>60</b>	529.885	562.907	608.216	639.702	657.365
<b>65</b>	411.621	449.250	506.079	527.581	536.029
<b>70</b>	304.108	349.417	397.030	408.549	420.068
<b>75</b>	190.451	248.816	276.462	274.158	290.285
<b>80</b>	99.065	142.839	157.430	146.678	157.430
<b>85</b>	27.646	49.149	45.309	38.397	38.397
<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	487.23	N.A.	12.70
0-30	1034.34	N.A.	27.00
0-40	1696.53	N.A.	44.20
0-60	3013.57	N.A.	78.60
0-80	3773.63	N.A.	98.40
0-90	3835.33	N.A.	100.00
10-90	3709.3	N.A.	96.70
20-40	1209.3	N.A.	31.50
20-50	1898.65	N.A.	49.50
40-70	1801.99	N.A.	47.00
60-80	760.07	N.A.	19.80
70-80	275.11	N.A.	7.20
80-90	61.70	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	3835.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	126.03
10-20	361.19
20-30	547.11
30-40	662.19
40-50	689.35
50-60	627.69
60-70	484.95
70-80	275.11
80-90	61.70
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**

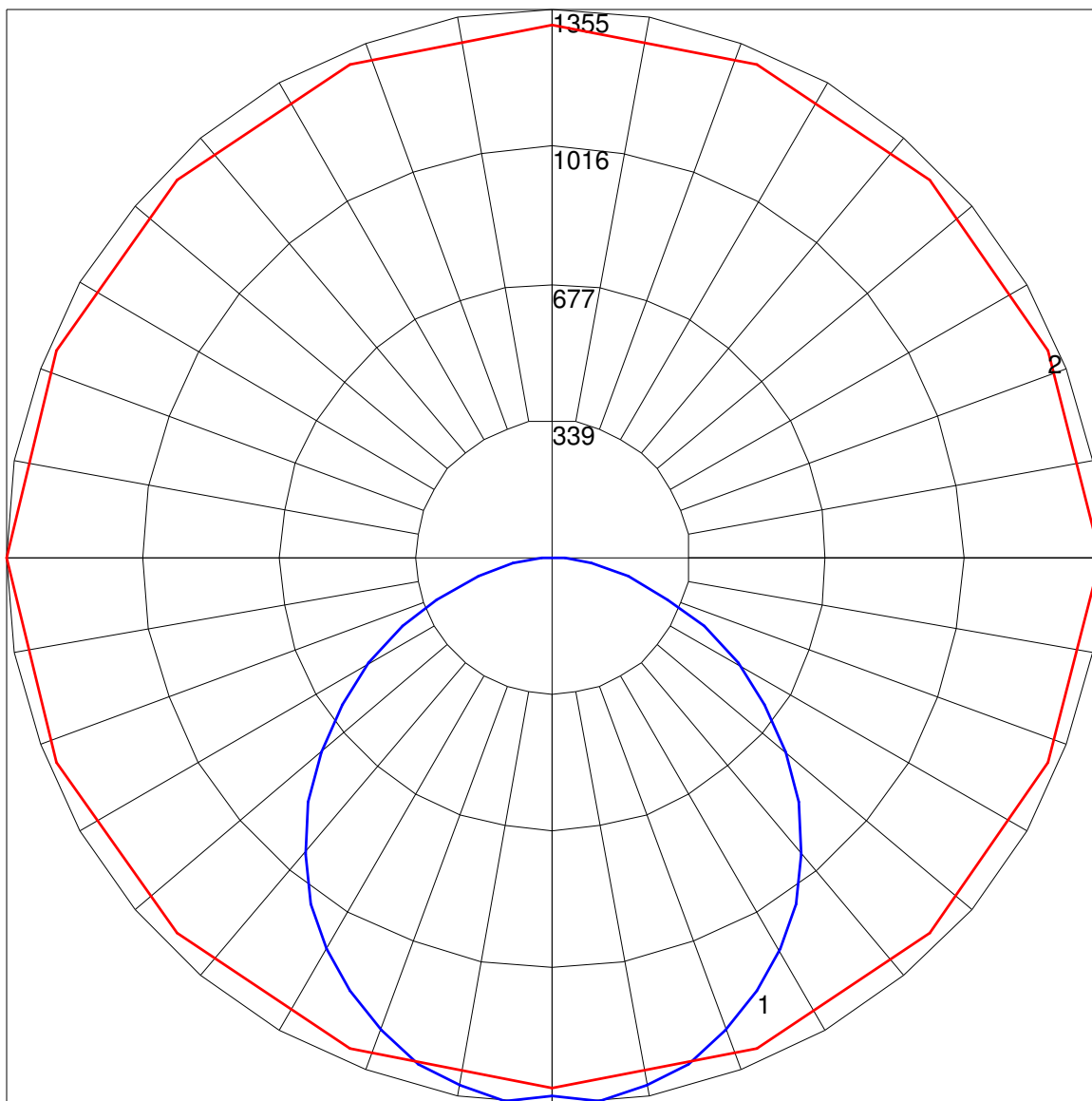
Reflectances

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 = 1354.663 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.)