



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L47-830-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-L47-830-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	4630
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
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	4397	4534	4789
55	4041	4428	4791
65	3521	4328	4585
75	2660	3861	4054
85	1147	1879	1592

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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>	1610.474	1610.474	1610.474	1610.474	1610.474
<b>5</b>	1635.508	1604.912	1596.567	1591.931	1588.223
<b>10</b>	1607.693	1579.878	1575.242	1572.461	1567.825
<b>15</b>	1569.679	1546.501	1541.865	1546.501	1540.010
<b>20</b>	1507.560	1488.090	1488.090	1496.434	1496.434
<b>25</b>	1436.169	1421.334	1428.751	1442.659	1443.586
<b>30</b>	1355.506	1340.671	1356.433	1378.685	1378.685
<b>35</b>	1264.644	1253.518	1270.207	1303.585	1306.366
<b>40</b>	1158.021	1156.167	1174.710	1215.505	1224.777
<b>45</b>	1038.418	1040.272	1070.868	1120.008	1131.133
<b>50</b>	909.543	919.741	962.391	1011.530	1029.146
<b>55</b>	774.177	800.138	848.350	894.708	917.887
<b>60</b>	639.739	679.607	734.310	772.323	793.648
<b>65</b>	496.957	542.388	610.998	636.958	647.157
<b>70</b>	367.155	421.857	479.341	493.248	507.156
<b>75</b>	229.935	300.399	333.777	330.996	350.466
<b>80</b>	119.603	172.451	190.068	177.087	190.068
<b>85</b>	33.378	59.338	54.702	46.358	46.358
<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	588.24	N.A.	12.70
0-30	1248.77	N.A.	27.00
0-40	2048.25	N.A.	44.20
0-60	3638.33	N.A.	78.60
0-80	4555.97	N.A.	98.40
0-90	4630.46	N.A.	100.00
10-90	4478.3	N.A.	96.70
20-40	1460.01	N.A.	31.50
20-50	2292.27	N.A.	49.50
40-70	2175.57	N.A.	47.00
60-80	917.64	N.A.	19.80
70-80	332.15	N.A.	7.20
80-90	74.49	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	4630.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	152.16
10-20	436.08
20-30	660.54
30-40	799.47
40-50	832.26
50-60	757.82
60-70	585.49
70-80	332.15
80-90	74.49
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	40	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

X=2H	Y=2H	16.9	18.5	17.2	18.8	19.2	UGR Viewed Endwise			
	3H	18.5	20.0	18.9	20.4	20.7	17.8	19.5	18.2	19.8
	4H	19.1	20.5	19.5	20.8	21.2	19.7	21.2	20.1	21.6
	6H	19.4	20.7	19.8	21.1	21.5	20.4	21.8	20.8	22.2
	8H	19.5	20.7	19.9	21.1	21.5	20.9	22.2	21.3	22.6
	12H	19.5	20.7	20.0	21.1	21.5	20.9	22.2	21.3	22.6

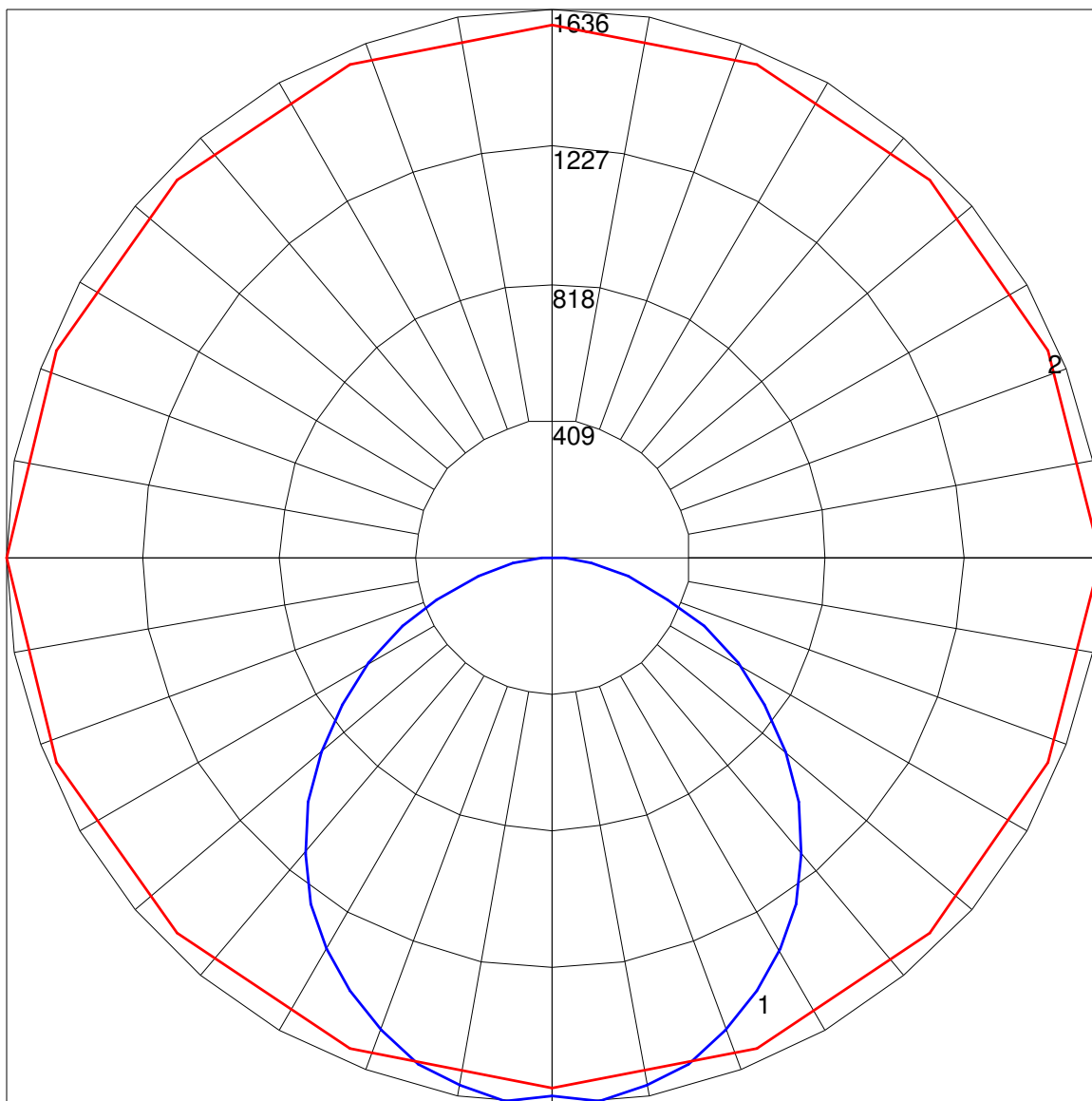
4H	2H	17.7	19.1	18.1	19.5	19.8	17.8	19.5	18.2	19.8
	3H	19.6	20.8	20.0	21.2	21.6	19.7	21.2	20.1	21.6
	4H	20.3	21.4	20.8	21.8	22.2	20.4	21.8	20.8	22.2
	6H	20.8	21.7	21.2	22.1	22.6	20.9	22.2	21.3	22.6
	8H	20.9	21.8	21.3	22.2	22.7	20.9	22.2	21.3	22.6
	12H	20.9	21.7	21.4	22.2	22.7	21.0	22.2	21.4	22.6

8H	4H	20.7	21.6	21.2	22.0	22.5	21.0	22.2	21.4	22.6
	6H	21.3	22.1	21.8	22.5	23.0	21.0	22.2	21.4	22.6
	8H	21.5	22.2	22.0	22.7	23.2	21.0	22.2	21.4	22.6
	12H	21.6	22.2	22.1	22.7	23.2	21.0	22.2	21.4	22.6

12H	4H	20.8	21.6	21.2	22.0	22.5	21.0	22.2	21.4	22.6
	6H	21.4	22.1	21.9	22.5	23.1	21.0	22.2	21.4	22.6
	8H	21.6	22.2	22.1	22.7	23.3	21.0	22.2	21.4	22.6

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1635.508 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.)