



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L47-840-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-L47-840-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	4818
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	4574	4717	4983
55	4204	4607	4985
65	3663	4503	4770
75	2767	4017	4218
85	1193	1955	1657

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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>	1675.544	1675.544	1675.544	1675.544	1675.544
<b>5</b>	1701.589	1669.756	1661.075	1656.252	1652.393
<b>10</b>	1672.650	1643.712	1638.889	1635.995	1631.172
<b>15</b>	1633.101	1608.985	1604.162	1608.985	1602.233
<b>20</b>	1568.471	1548.214	1548.214	1556.896	1556.896
<b>25</b>	1494.196	1478.762	1486.479	1500.948	1501.913
<b>30</b>	1410.274	1394.840	1411.238	1434.389	1434.389
<b>35</b>	1315.741	1304.166	1321.529	1356.255	1359.149
<b>40</b>	1204.810	1202.881	1222.173	1264.616	1274.262
<b>45</b>	1080.374	1082.303	1114.136	1165.260	1176.836
<b>50</b>	946.292	956.903	1001.275	1052.400	1070.728
<b>55</b>	805.457	832.467	882.627	930.858	954.973
<b>60</b>	665.587	707.066	763.979	803.528	825.714
<b>65</b>	517.036	564.302	635.684	662.694	673.304
<b>70</b>	381.989	438.902	498.708	513.178	527.647
<b>75</b>	239.226	312.537	347.263	344.369	364.626
<b>80</b>	124.436	179.419	197.747	184.242	197.747
<b>85</b>	34.726	61.736	56.913	48.231	48.231
<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	612.00	N.A.	12.70
0-30	1299.23	N.A.	27.00
0-40	2131.00	N.A.	44.20
0-60	3785.33	N.A.	78.60
0-80	4740.05	N.A.	98.40
0-90	4817.55	N.A.	100.00
10-90	4659.24	N.A.	96.70
20-40	1519.00	N.A.	31.50
20-50	2384.89	N.A.	49.50
40-70	2263.48	N.A.	47.00
60-80	954.72	N.A.	19.80
70-80	345.57	N.A.	7.20
80-90	77.50	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	4817.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	158.31
10-20	453.69
20-30	687.22
30-40	831.78
40-50	865.89
50-60	788.44
60-70	609.15
70-80	345.57
80-90	77.50
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**

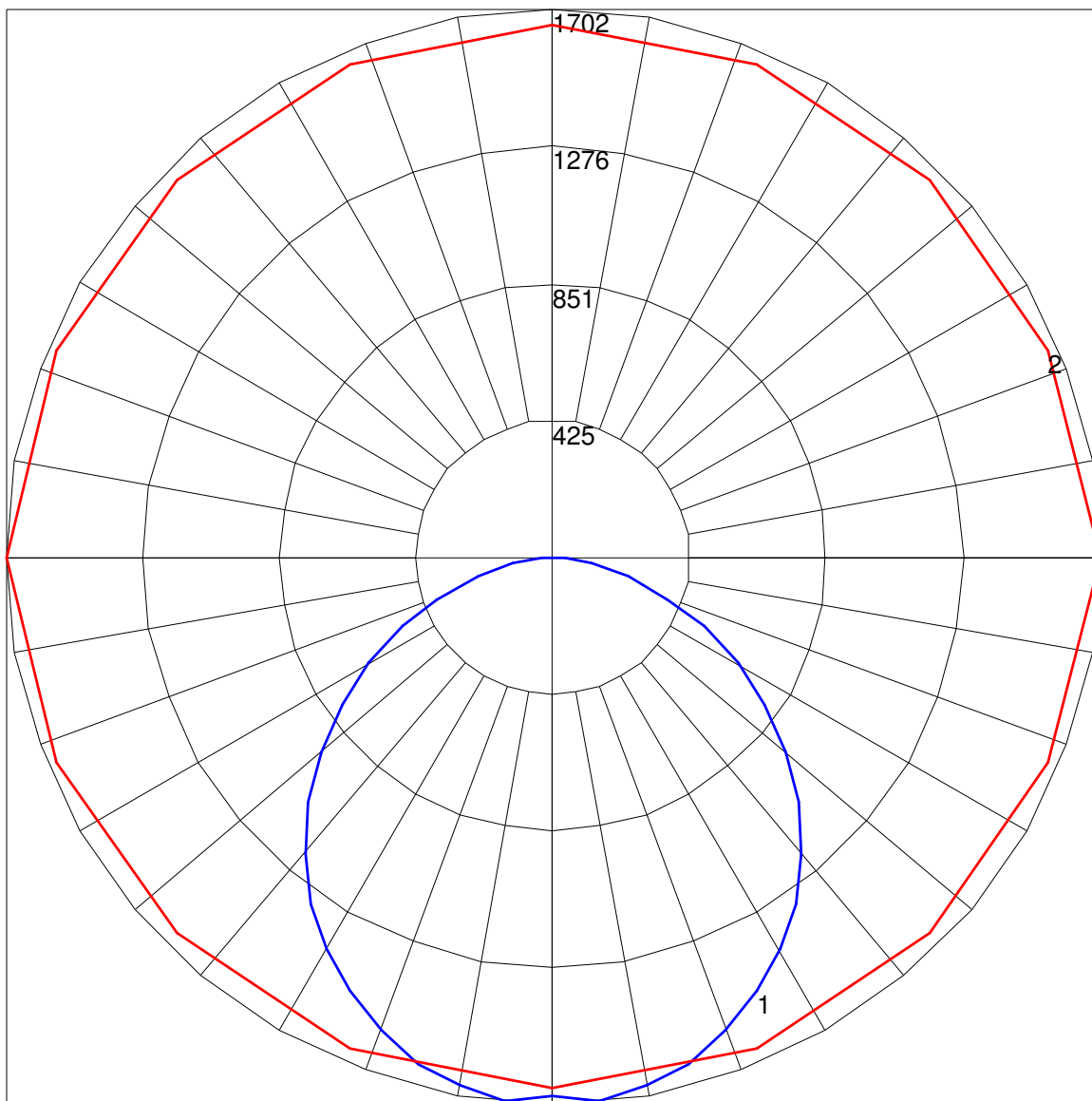
Reflectances

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	17.1	18.7	17.4	19.0	19.4	18.0	19.7	18.4	20.0	20.3
	3H	18.7	20.2	19.1	20.6	20.9	19.9	21.4	20.3	21.8	22.1
	4H	19.3	20.7	19.7	21.0	21.4	20.6	22.0	21.0	22.4	22.8
	6H	19.6	20.9	20.0	21.3	21.7	21.1	22.4	21.5	22.8	23.1
	8H	19.7	20.9	20.1	21.3	21.7	21.2	22.4	21.6	22.8	23.2
	12H	19.7	20.9	20.2	21.3	21.7	21.2	22.4	21.7	22.8	23.2
4H	2H	17.9	19.3	18.3	19.7	20.0	18.6	20.0	19.0	20.4	20.7
	3H	19.8	21.0	20.2	21.4	21.8	20.8	21.9	21.2	22.3	22.7
	4H	20.5	21.6	21.0	22.0	22.4	21.6	22.6	22.0	23.1	23.5
	6H	21.0	21.9	21.4	22.3	22.8	22.1	23.1	22.6	23.5	24.0
	8H	21.1	22.0	21.5	22.4	22.9	22.3	23.1	22.7	23.6	24.1
	12H	21.1	21.9	21.6	22.4	22.9	22.3	23.1	22.8	23.6	24.1
8H	4H	20.9	21.8	21.4	22.2	22.7	21.9	22.7	22.3	23.2	23.6
	6H	21.5	22.3	22.0	22.7	23.2	22.5	23.2	23.0	23.7	24.2
	8H	21.7	22.4	22.2	22.9	23.4	22.7	23.4	23.2	23.9	24.3
	12H	21.8	22.4	22.3	22.9	23.4	22.8	23.4	23.3	23.9	24.4
12H	4H	21.0	21.8	21.4	22.2	22.7	21.9	22.7	22.4	23.1	23.6
	6H	21.6	22.3	22.1	22.7	23.3	22.6	23.2	23.1	23.7	24.2
	8H	21.8	22.4	22.3	22.9	23.5	22.8	23.4	23.3	23.8	24.4

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 1701.589 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.)