



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L47-940-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-L47-940-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	4022
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	3819	3939	4160
55	3510	3847	4162
65	3058	3760	3983
75	2311	3354	3522
85	996	1632	1383

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : LT-14-L47-940-AF-DIM-UNV\_.IES

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>	1398.998	1398.998	1398.998	1398.998	1398.998
<b>5</b>	1420.744	1394.166	1386.917	1382.890	1379.668
<b>10</b>	1396.582	1372.419	1368.392	1365.976	1361.949
<b>15</b>	1363.560	1343.425	1339.398	1343.425	1337.787
<b>20</b>	1309.597	1292.684	1292.684	1299.933	1299.933
<b>25</b>	1247.581	1234.694	1241.138	1253.219	1254.024
<b>30</b>	1177.510	1164.624	1178.316	1197.645	1197.645
<b>35</b>	1098.580	1088.915	1103.412	1132.407	1134.823
<b>40</b>	1005.958	1004.347	1020.455	1055.893	1063.947
<b>45</b>	902.060	903.671	930.249	972.936	982.601
<b>50</b>	790.108	798.967	836.016	878.703	894.006
<b>55</b>	672.518	695.069	736.951	777.221	797.356
<b>60</b>	555.733	590.366	637.885	670.907	689.431
<b>65</b>	431.700	471.165	530.766	553.317	562.177
<b>70</b>	318.943	366.462	416.397	428.478	440.560
<b>75</b>	199.742	260.953	289.948	287.532	304.445
<b>80</b>	103.898	149.806	165.109	153.833	165.109
<b>85</b>	28.995	51.546	47.519	40.271	40.271
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LT-14-L47-940-AF-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	510.99	N.A.	12.70
0-30	1084.79	N.A.	27.00
0-40	1779.28	N.A.	44.20
0-60	3160.57	N.A.	78.60
0-80	3957.71	N.A.	98.40
0-90	4022.42	N.A.	100.00
10-90	3890.24	N.A.	96.70
20-40	1268.29	N.A.	31.50
20-50	1991.26	N.A.	49.50
40-70	1889.89	N.A.	47.00
60-80	797.14	N.A.	19.80
70-80	288.53	N.A.	7.20
80-90	64.71	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	4022.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	132.18
10-20	378.81
20-30	573.80
30-40	694.49
40-50	722.97
50-60	658.31
60-70	508.61
70-80	288.53
80-90	64.71
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LT-14-L47-940-AF-DIM-UNV\_.IES**

**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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LT-14-L47-940-AF-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

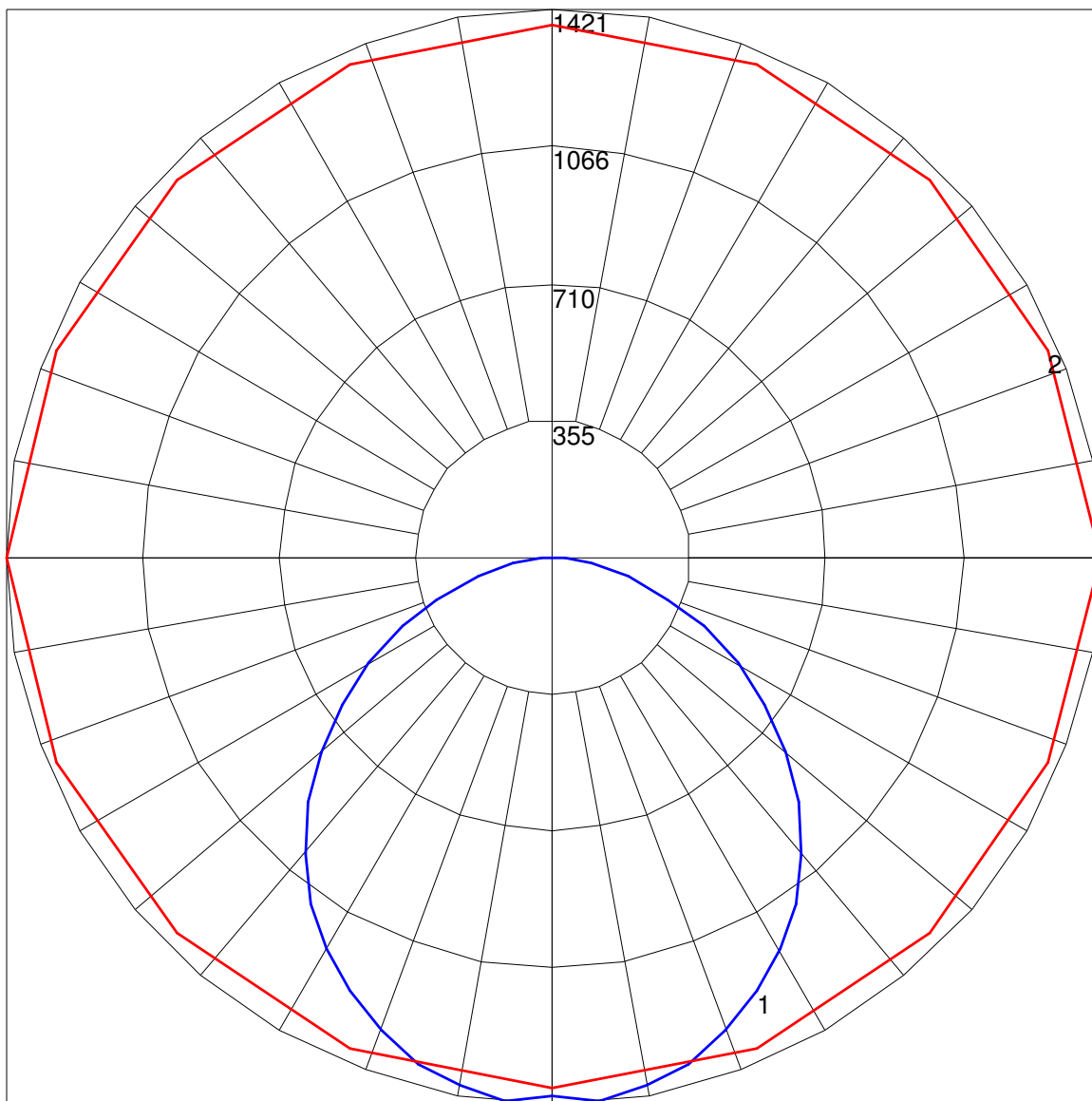
Reflectances

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	16.4	18.0	16.7	18.3	18.7	17.3	19.0	17.7	19.3	19.6
	3H	18.0	19.5	18.4	19.9	20.2	19.2	20.7	19.6	21.1	21.4
	4H	18.6	20.0	19.0	20.3	20.7	19.9	21.3	20.3	21.7	22.1
	6H	18.9	20.2	19.3	20.6	21.0	20.4	21.7	20.8	22.1	22.4
	8H	19.0	20.2	19.4	20.6	21.0	20.5	21.7	20.9	22.1	22.5
	12H	19.0	20.2	19.5	20.6	21.0	20.5	21.7	21.0	22.1	22.5
4H	2H	17.2	18.6	17.6	19.0	19.3	17.9	19.3	18.3	19.7	20.0
	3H	19.1	20.3	19.5	20.7	21.1	20.1	21.2	20.5	21.6	22.0
	4H	19.8	20.9	20.3	21.3	21.7	20.9	21.9	21.3	22.4	22.8
	6H	20.3	21.2	20.7	21.6	22.1	21.4	22.4	21.9	22.8	23.3
	8H	20.4	21.3	20.8	21.7	22.2	21.6	22.4	22.0	22.9	23.4
	12H	20.4	21.2	20.9	21.7	22.2	21.6	22.4	22.1	22.9	23.4
8H	4H	20.2	21.1	20.7	21.5	22.0	21.2	22.0	21.6	22.5	22.9
	6H	20.8	21.6	21.3	22.0	22.5	21.8	22.5	22.3	23.0	23.5
	8H	21.0	21.7	21.5	22.2	22.7	22.0	22.7	22.5	23.2	23.6
	12H	21.1	21.7	21.6	22.2	22.7	22.1	22.7	22.6	23.2	23.7
12H	4H	20.3	21.1	20.7	21.5	22.0	21.2	22.0	21.7	22.4	22.9
	6H	20.9	21.6	21.4	22.0	22.6	21.9	22.5	22.4	23.0	23.5
	8H	21.1	21.7	21.6	22.2	22.8	22.1	22.7	22.6	23.1	23.7

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1420.744 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.)