



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L47-940-AF-(L45)-EM10W-DIM-UNV\_EM MODE ONLY.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] 10-31-2023  
[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-(L45)-EM10W-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	1170
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	10
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	1111	1146	1210
55	1021	1119	1211
65	890	1094	1158
75	672	976	1024
85	290	475	402

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	406.946	406.946	406.946	406.946	406.946
<b>5</b>	413.272	405.541	403.432	402.261	401.324
<b>10</b>	406.243	399.215	398.044	397.341	396.169
<b>15</b>	396.638	390.781	389.609	390.781	389.141
<b>20</b>	380.941	376.021	376.021	378.130	378.130
<b>25</b>	362.901	359.153	361.027	364.541	364.776
<b>30</b>	342.519	338.770	342.753	348.376	348.376
<b>35</b>	319.559	316.748	320.965	329.399	330.102
<b>40</b>	292.617	292.149	296.834	307.143	309.485
<b>45</b>	262.395	262.863	270.595	283.012	285.823
<b>50</b>	229.830	232.407	243.184	255.601	260.052
<b>55</b>	195.625	202.185	214.367	226.081	231.938
<b>60</b>	161.654	171.728	185.551	195.156	200.545
<b>65</b>	125.575	137.054	154.391	160.951	163.528
<b>70</b>	92.775	106.598	121.123	124.638	128.152
<b>75</b>	58.102	75.907	84.341	83.638	88.558
<b>80</b>	30.222	43.576	48.028	44.748	48.028
<b>85</b>	8.434	14.994	13.823	11.714	11.714
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : LT-14-L47-940-AF-(L45)-EM10W-DIM-UNV\_EM MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	148.64	N.A.	12.70
0-30	315.55	N.A.	27.00
0-40	517.57	N.A.	44.20
0-60	919.36	N.A.	78.60
0-80	1151.24	N.A.	98.40
0-90	1170.06	N.A.	100.00
10-90	1131.61	N.A.	96.70
20-40	368.93	N.A.	31.50
20-50	579.23	N.A.	49.50
40-70	549.74	N.A.	47.00
60-80	231.88	N.A.	19.80
70-80	83.93	N.A.	7.20
80-90	18.82	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	1170.06	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.45
10-20	110.19
20-30	166.91
30-40	202.02
40-50	210.30
50-60	191.49
60-70	147.95
70-80	83.93
80-90	18.82
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

X=2H	Y=2H	12.1	13.7	12.4	14.0	14.4	13.0	14.7	13.4	15.0	15.3
	3H	13.7	15.2	14.1	15.6	15.9	14.9	16.4	15.3	16.8	17.1
	4H	14.3	15.7	14.7	16.0	16.4	15.6	17.0	16.0	17.4	17.8
	6H	14.6	15.9	15.0	16.3	16.7	16.1	17.4	16.5	17.8	18.1
	8H	14.7	15.9	15.1	16.3	16.7	16.2	17.4	16.6	17.8	18.2
	12H	14.7	15.9	15.2	16.3	16.7	16.2	17.4	16.7	17.8	18.2

### UGR Viewed Endwise

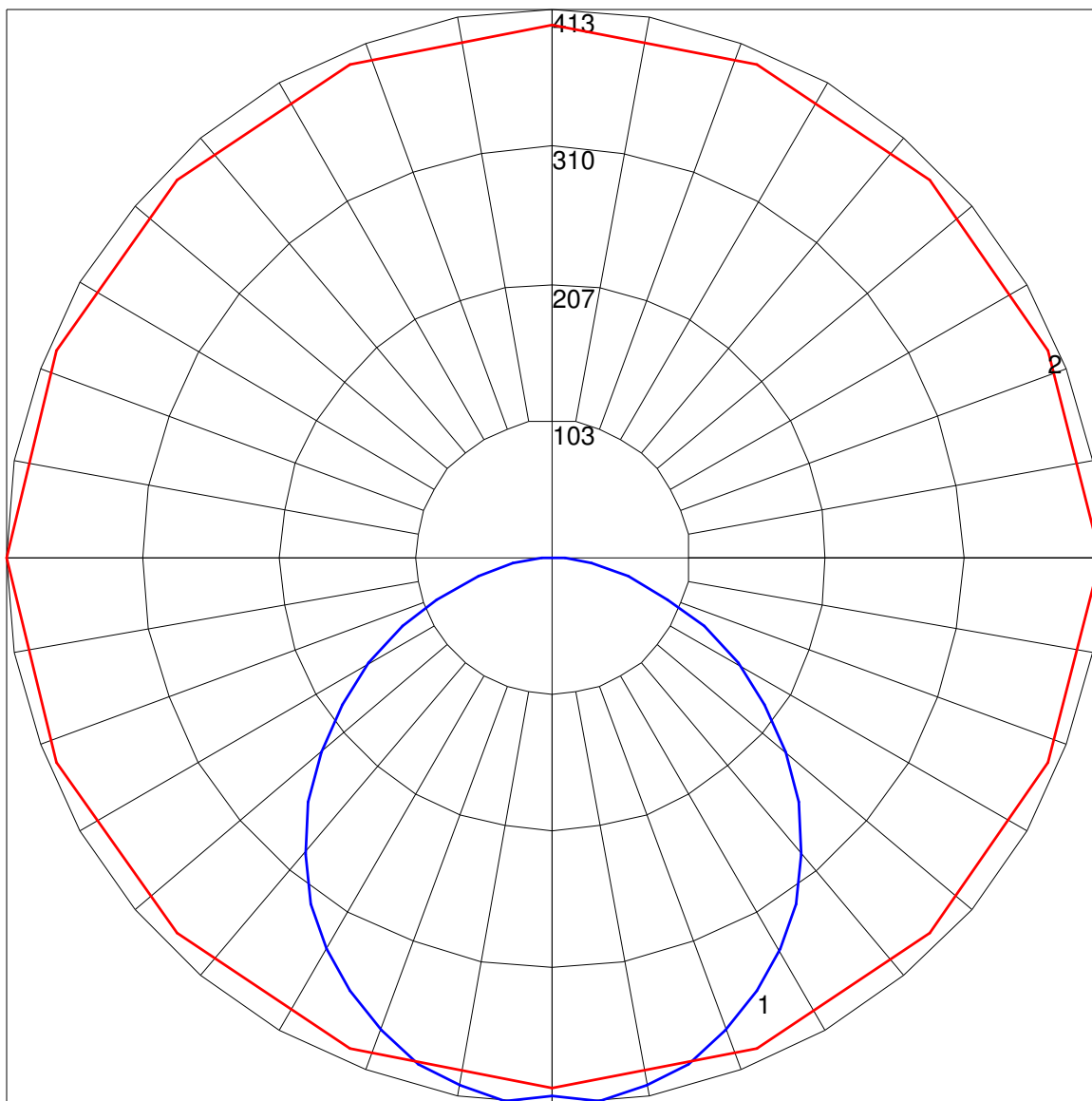
4H	2H	12.9	14.3	13.3	14.7	15.0	13.6	15.0	14.0	15.4	15.7
	3H	14.8	16.0	15.2	16.4	16.8	15.8	16.9	16.2	17.3	17.7
	4H	15.5	16.6	16.0	17.0	17.4	16.6	17.6	17.0	18.1	18.5
	6H	16.0	16.9	16.4	17.3	17.8	17.1	18.1	17.6	18.5	19.0
	8H	16.1	17.0	16.5	17.4	17.9	17.3	18.1	17.7	18.6	19.1
	12H	16.1	16.9	16.6	17.4	17.9	17.3	18.1	17.8	18.6	19.1
8H	4H	15.9	16.8	16.4	17.2	17.7	16.9	17.7	17.3	18.2	18.6
	6H	16.5	17.3	17.0	17.7	18.2	17.5	18.2	18.0	18.7	19.2
	8H	16.7	17.4	17.2	17.9	18.4	17.7	18.4	18.2	18.9	19.3
	12H	16.8	17.4	17.3	17.9	18.4	17.8	18.4	18.3	18.9	19.4
12H	4H	16.0	16.8	16.4	17.2	17.7	16.9	17.7	17.4	18.1	18.6
	6H	16.6	17.3	17.1	17.7	18.3	17.6	18.2	18.1	18.7	19.2
	8H	16.8	17.4	17.3	17.9	18.5	17.8	18.4	18.3	18.8	19.4

Maximum UGR = 19.4

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## POLAR GRAPH



Maximum Candela = 413.272 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.)