



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L49-935-AF-DIM-UNV\_TBX.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 18665.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 19-JULY-2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 1-72 LED 22"ARRAY 2x2'RECESSED LUMINAIRE  
 [MORE] WHITE REFLECTOR w/CENTER FROSTED ACRYLIC LENS  
 [LUMCAT] LT-22-L49-935-AF-DIM-UNV  
 [LAMPCAT] HLM 90 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4192
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	42
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.90 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3497	3950	4315
55	3091	3795	4372
65	2711	3766	4673
75	2261	3983	5262
85	1519	3317	3237

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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>	1447.944	1447.944	1447.944	1447.944	1447.944
<b>5</b>	1447.944	1443.235	1437.349	1439.703	1438.526
<b>10</b>	1420.868	1420.868	1420.868	1422.045	1424.400
<b>15</b>	1380.844	1382.021	1384.375	1393.793	1397.324
<b>20</b>	1329.047	1332.579	1341.997	1360.832	1360.832
<b>25</b>	1260.770	1264.302	1279.605	1307.858	1309.035
<b>30</b>	1174.836	1174.836	1207.797	1243.113	1250.176
<b>35</b>	1070.066	1078.306	1127.748	1173.658	1186.607
<b>40</b>	957.055	974.713	1038.282	1097.141	1113.622
<b>45</b>	835.805	865.235	944.106	1013.561	1031.218
<b>50</b>	718.086	756.933	841.691	921.740	942.929
<b>55</b>	599.190	643.923	735.744	829.919	847.577
<b>60</b>	488.534	534.444	636.860	738.098	756.933
<b>65</b>	387.295	428.497	537.976	635.683	667.467
<b>70</b>	290.766	335.499	440.269	529.735	572.114
<b>75</b>	197.768	242.501	348.448	422.611	460.281
<b>80</b>	115.365	155.389	242.501	295.475	302.538
<b>85</b>	44.733	58.859	97.707	94.175	95.352
<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	528.75	N.A.	12.60
0-30	1120.09	N.A.	26.70
0-40	1825.11	N.A.	43.50
0-60	3207.31	N.A.	76.50
0-80	4086.78	N.A.	97.50
0-90	4191.83	N.A.	100.00
10-90	4054.89	N.A.	96.70
20-40	1296.36	N.A.	30.90
20-50	2021.17	N.A.	48.20
40-70	1910.27	N.A.	45.60
60-80	879.47	N.A.	21.00
70-80	351.40	N.A.	8.40
80-90	105.04	N.A.	2.50
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	4191.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.94
10-20	391.81
20-30	591.34
30-40	705.02
40-50	724.81
50-60	657.39
60-70	528.07
70-80	351.40
80-90	105.04
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

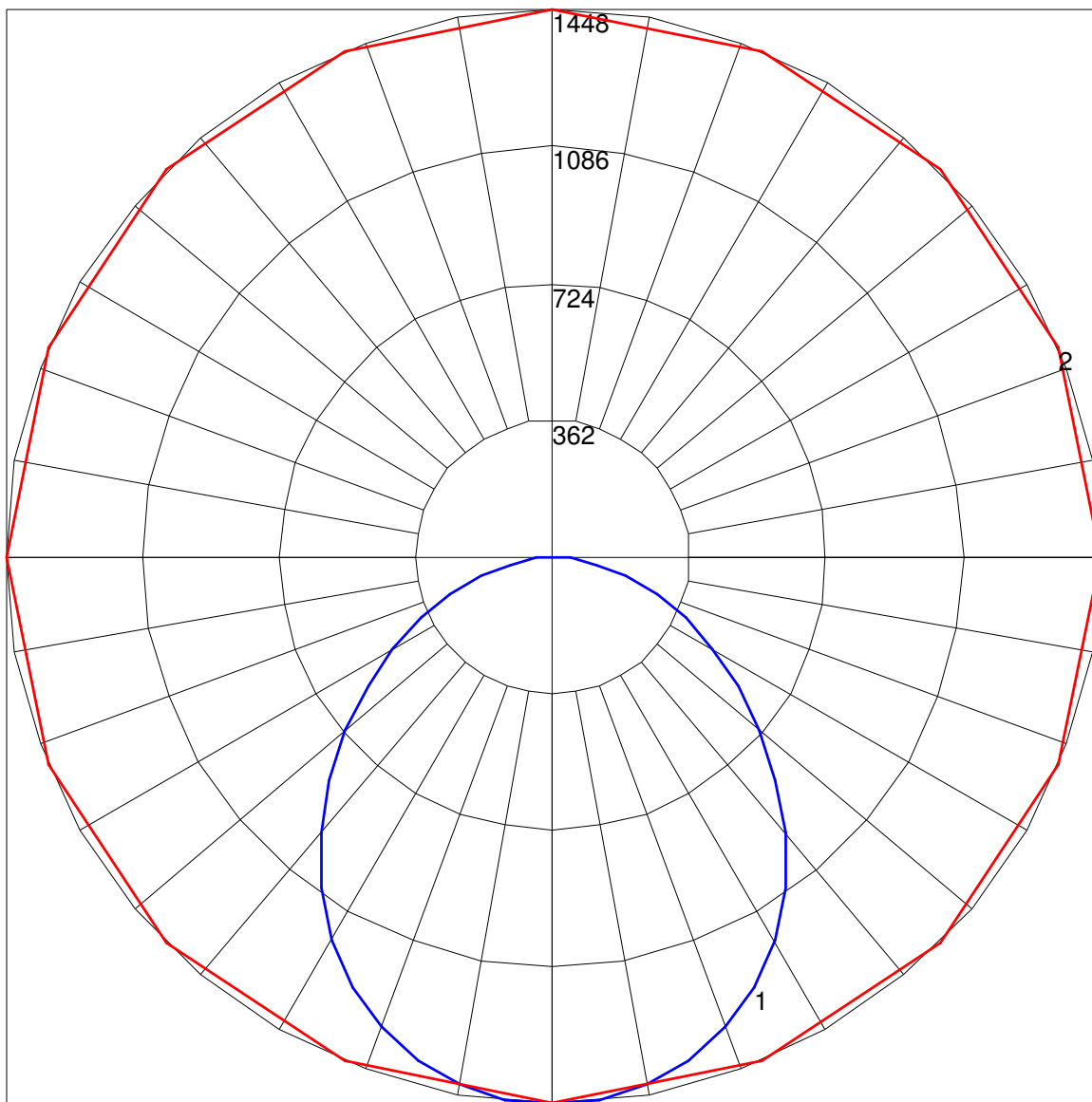
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 1447.944 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)