



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-24-L82-935-AF-DIM-UNV\_TBX.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 20802.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 19-JULY-2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 2-56 LED 22"ARRAYS 2x4' LUMINAIRE  
 [LUMINAIRE] WHITE REFLECTOR w/FROSTED CENTER LENS  
 [LUMCAT] LT-24-L82-935-AF-DIM-UNV  
 [LAMPCAT] HLM 90 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6898
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	62
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.93 ft
Luminous Width (90-270)	1.91 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2850	3167	3408
55	2593	3073	3436
65	2214	3054	3597
75	1632	3207	4024
85	625	2575	2367

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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>	2396.207	2396.207	2396.207	2396.207	2396.207
<b>5</b>	2419.181	2390.464	2375.530	2369.787	2369.787
<b>10</b>	2374.382	2344.515	2336.474	2337.623	2334.177
<b>15</b>	2303.162	2282.485	2279.039	2287.080	2291.675
<b>20</b>	2210.116	2191.737	2199.778	2221.603	2226.198
<b>25</b>	2088.353	2072.271	2100.989	2132.004	2138.896
<b>30</b>	1948.211	1944.764	1983.821	2025.174	2041.256
<b>35</b>	1783.945	1797.730	1855.165	1908.006	1927.534
<b>40</b>	1610.490	1635.762	1724.212	1785.094	1808.068
<b>45</b>	1402.574	1446.225	1558.798	1659.885	1677.115
<b>50</b>	1229.119	1283.108	1393.384	1492.173	1520.891
<b>55</b>	1034.987	1088.976	1226.821	1332.503	1371.559
<b>60</b>	844.301	904.034	1051.069	1178.575	1215.334
<b>65</b>	651.318	734.025	898.290	1022.351	1057.961
<b>70</b>	470.971	564.016	734.025	866.127	894.844
<b>75</b>	294.070	407.792	577.801	696.118	724.835
<b>80</b>	141.291	264.203	419.279	474.417	458.335
<b>85</b>	37.907	130.953	156.224	138.994	143.589
<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	871.21	N.A.	12.60
0-30	1841.35	N.A.	26.70
0-40	3002.25	N.A.	43.50
0-60	5286.26	N.A.	76.60
0-80	6728.26	N.A.	97.50
0-90	6897.78	N.A.	100.00
10-90	6671.6	N.A.	96.70
20-40	2131.04	N.A.	30.90
20-50	3329.02	N.A.	48.30
40-70	3152.69	N.A.	45.70
60-80	1442.00	N.A.	20.90
70-80	573.31	N.A.	8.30
80-90	169.52	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	6897.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	226.19
10-20	645.03
20-30	970.13
30-40	1160.91
40-50	1197.98
50-60	1086.02
60-70	868.69
70-80	573.31
80-90	169.52
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

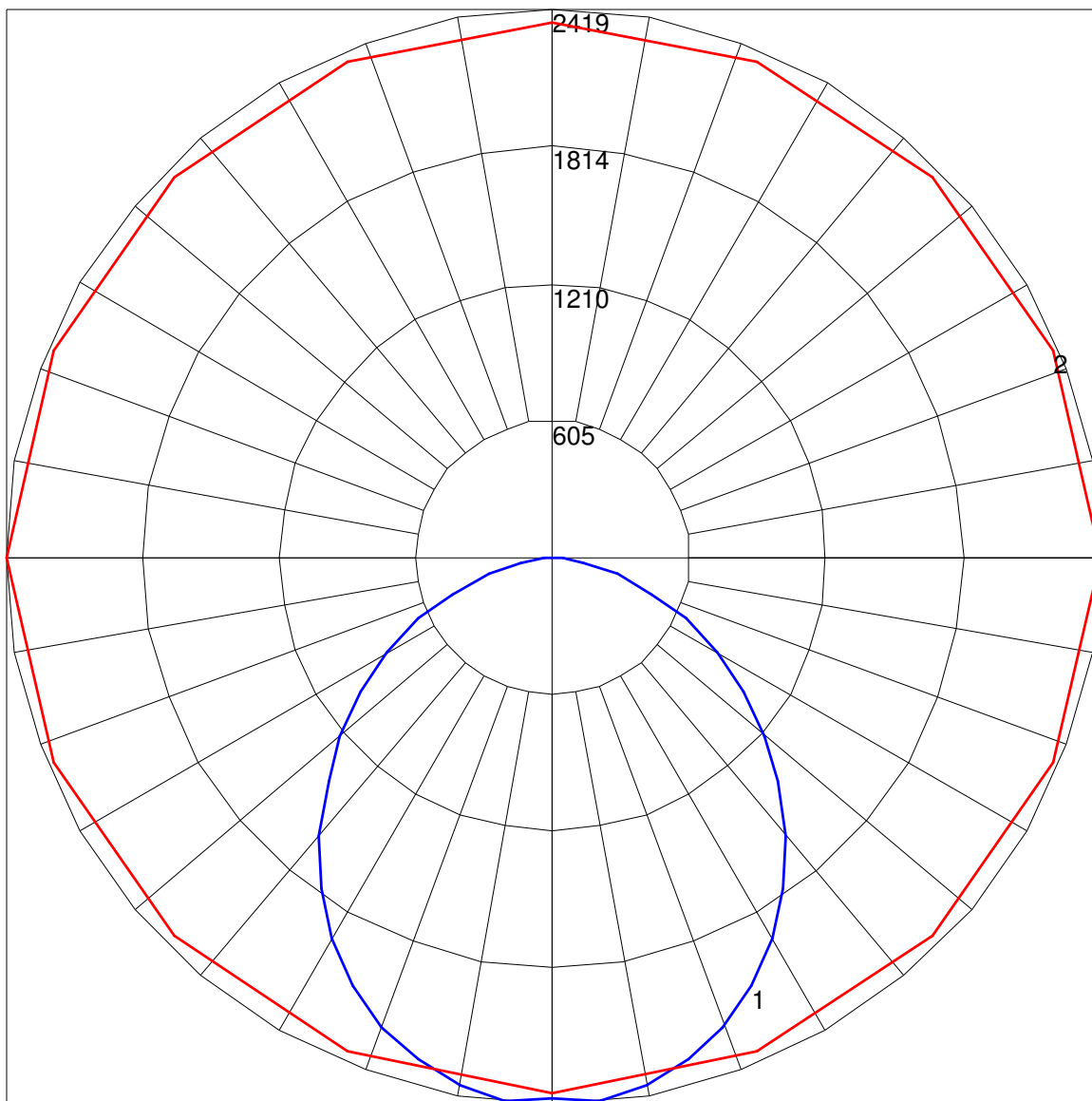
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	77	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	61	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	51	42	35	62	50	41	35	48	41	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	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 2419.181 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.)