



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-24-L64-935-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  
 [ISSUEDATE] 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-L64-935-AF-DIM-UNV  
 [LAMPCAT] HLM 90 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5307
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	46
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	2193	2437	2622
55	1995	2364	2643
65	1704	2349	2767
75	1256	2468	3096
85	481	1981	1821

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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>	1843.531	1843.531	1843.531	1843.531	1843.531
<b>5</b>	1861.206	1839.112	1827.623	1823.204	1823.204
<b>10</b>	1826.739	1803.762	1797.575	1798.459	1795.808
<b>15</b>	1771.946	1756.038	1753.387	1759.573	1763.108
<b>20</b>	1700.361	1686.221	1692.407	1709.199	1712.734
<b>25</b>	1606.682	1594.310	1616.404	1640.265	1645.568
<b>30</b>	1498.863	1496.212	1526.260	1558.075	1570.448
<b>35</b>	1372.485	1383.090	1427.278	1467.931	1482.955
<b>40</b>	1239.037	1258.479	1326.529	1373.369	1391.044
<b>45</b>	1079.075	1112.658	1199.267	1277.038	1290.295
<b>50</b>	945.627	987.164	1072.005	1148.009	1170.103
<b>55</b>	796.271	837.808	943.860	1025.166	1055.214
<b>60</b>	649.566	695.522	808.644	906.741	935.022
<b>65</b>	501.094	564.725	691.103	786.550	813.946
<b>70</b>	362.343	433.928	564.725	666.358	688.452
<b>75</b>	226.243	313.736	444.533	535.561	557.655
<b>80</b>	108.703	203.266	322.574	364.994	352.622
<b>85</b>	29.164	100.749	120.192	106.935	110.470
<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	670.27	N.A.	12.60
0-30	1416.65	N.A.	26.70
0-40	2309.79	N.A.	43.50
0-60	4067.00	N.A.	76.60
0-80	5176.41	N.A.	97.50
0-90	5306.83	N.A.	100.00
10-90	5132.82	N.A.	96.70
20-40	1639.52	N.A.	30.90
20-50	2561.2	N.A.	48.30
40-70	2425.54	N.A.	45.70
60-80	1109.41	N.A.	20.90
70-80	441.08	N.A.	8.30
80-90	130.42	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	5306.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	174.02
10-20	496.25
20-30	746.38
30-40	893.15
40-50	921.67
50-60	835.53
60-70	668.33
70-80	441.08
80-90	130.42
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

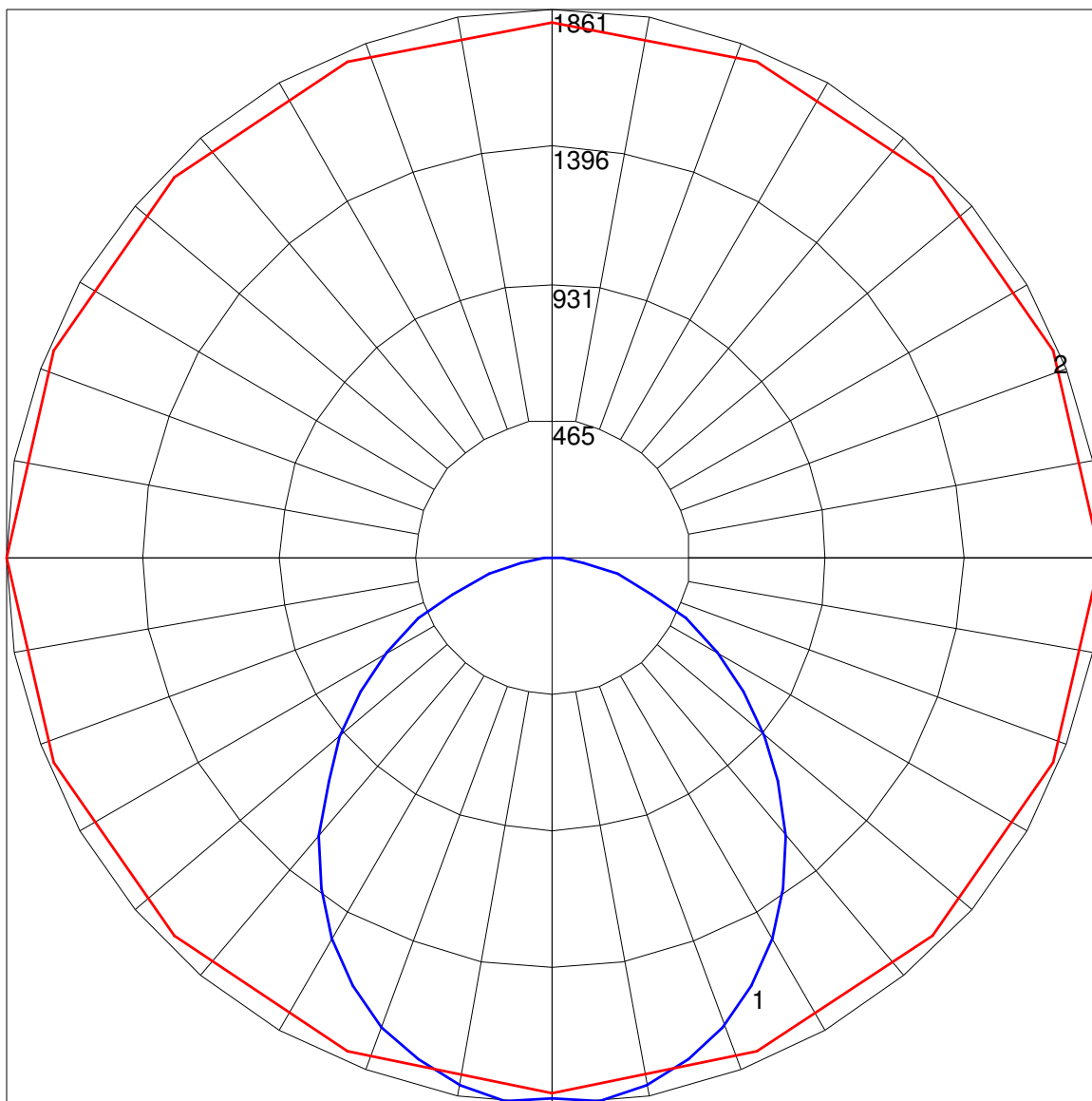
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1861.206 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.)