



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-24-L52-935-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-L52-935-AF-DIM-UNV
 [LAMPCAT] HLM 90 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4316
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	36
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	1783	1982	2132
55	1622	1923	2150
65	1385	1911	2250
75	1021	2007	2518
85	391	1611	1481

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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>
0	1499.280	1499.280	1499.280	1499.280	1499.280
5	1513.655	1495.686	1486.343	1482.749	1482.749
10	1485.624	1466.937	1461.906	1462.624	1460.468
15	1441.062	1428.125	1425.969	1431.000	1433.875
20	1382.845	1371.345	1376.376	1390.032	1392.907
25	1306.659	1296.597	1314.565	1333.971	1338.283
30	1218.974	1216.817	1241.254	1267.129	1277.191
35	1116.194	1124.819	1160.756	1193.818	1206.036
40	1007.666	1023.478	1078.820	1116.913	1131.288
45	877.575	904.887	975.323	1038.571	1049.352
50	769.046	802.826	871.825	933.636	951.604
55	647.580	681.360	767.608	833.732	858.169
60	528.270	565.644	657.642	737.421	760.421
65	407.522	459.271	562.050	639.674	661.954
70	294.681	352.899	459.271	541.926	559.894
75	183.996	255.151	361.523	435.553	453.521
80	88.404	165.309	262.338	296.837	286.775
85	23.718	81.936	97.748	86.967	89.842
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	545.11	N.A.	12.60
0-30	1152.11	N.A.	26.70
0-40	1878.48	N.A.	43.50
0-60	3307.55	N.A.	76.60
0-80	4209.8	N.A.	97.50
0-90	4315.86	N.A.	100.00
10-90	4174.34	N.A.	96.70
20-40	1333.37	N.A.	30.90
20-50	2082.93	N.A.	48.30
40-70	1972.6	N.A.	45.70
60-80	902.24	N.A.	20.90
70-80	358.72	N.A.	8.30
80-90	106.07	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	4315.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.52
10-20	403.59
20-30	607.00
30-40	726.37
40-50	749.57
50-60	679.51
60-70	543.53
70-80	358.72
80-90	106.07
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

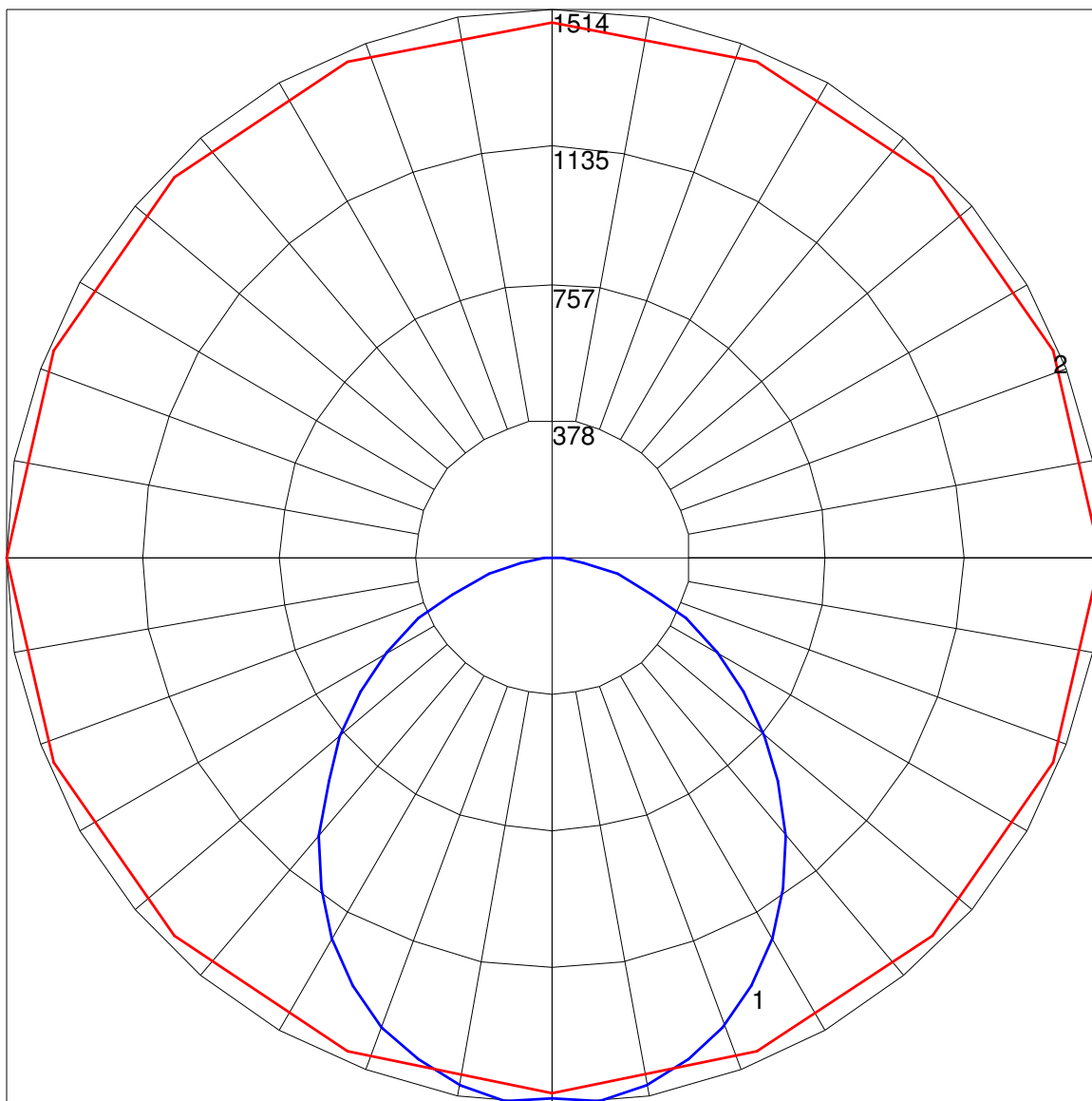
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1513.655 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.)