



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AX2WU-2-L16-835-S-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 18753.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 31-MAR-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 2' WALL MOUNT INDIRECT LED LUMINAIRE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] AX2WU-2-L16-835-S-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCE] LED

[_SEARCH_APPLICATION] INDOOR, ARCHITECTURAL, OFFICE, CORRIDOR, MEDICAL, LINEAR, INDIRECT

[_SEARCH_MOUNTING] WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1709
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	18.2
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.84 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	261
55	0	234	555
65	0	515	1110
75	0	1295	2590
85	192	4999	9037

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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	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	4.207
45	0.000	0.000	0.000	3.155	5.784
50	0.000	0.000	3.155	6.310	8.414
55	0.000	0.000	4.207	9.465	9.991
60	0.000	0.000	5.784	9.991	12.620
65	0.000	0.000	6.836	12.620	14.724
70	0.000	4.207	9.991	15.775	18.405
75	0.000	3.681	10.517	16.827	21.034
80	0.000	4.207	11.569	19.456	23.137
85	0.526	4.733	13.672	21.560	24.715
90	4.733	9.465	19.456	29.447	33.128
95	21.034	26.292	35.758	45.749	51.007
100	51.007	56.791	63.102	72.041	77.825
105	88.342	92.549	94.126	103.592	107.798
110	130.410	134.091	130.936	137.772	141.978
115	174.055	179.314	172.478	177.210	175.633
120	225.062	227.166	219.804	221.907	215.071
125	275.018	280.802	269.759	268.707	258.716
130	326.550	332.861	319.714	314.982	308.146
135	381.238	388.600	371.247	370.196	360.730
140	434.349	444.866	426.461	424.884	415.418
145	487.459	497.450	482.727	471.684	466.426
150	534.260	548.983	535.311	522.691	522.165
155	590.525	593.154	580.534	571.069	568.966
160	626.283	627.334	615.766	608.404	605.249
165	650.472	654.153	646.265	638.377	635.222
170	668.876	674.135	665.721	663.618	661.514
175	679.919	686.229	680.445	676.764	677.290
180	685.703	685.703	685.703	685.703	685.703

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.09	N.A.	0.00
0-60	5.57	N.A.	0.30
0-80	23.91	N.A.	1.40
0-90	39.55	N.A.	2.30
10-90	39.55	N.A.	2.30
20-40	0.09	N.A.	0.00
20-50	1.46	N.A.	0.10
40-70	12.64	N.A.	0.70
60-80	18.33	N.A.	1.10
70-80	11.18	N.A.	0.70
80-90	15.64	N.A.	0.90
90-110	146.04	N.A.	8.50
90-120	321.52	N.A.	18.80
90-130	564.54	N.A.	33.00
90-150	1156.28	N.A.	67.70
90-180	1669.44	N.A.	97.70
110-180	1523.4	N.A.	89.10
0-180	1708.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.09
40-50	1.37
50-60	4.11
60-70	7.15
70-80	11.18
80-90	15.64
90-100	42.32
100-110	103.72
110-120	175.48
120-130	243.02
130-140	289.89
140-150	301.85
150-160	266.74
160-170	181.89
170-180	64.54

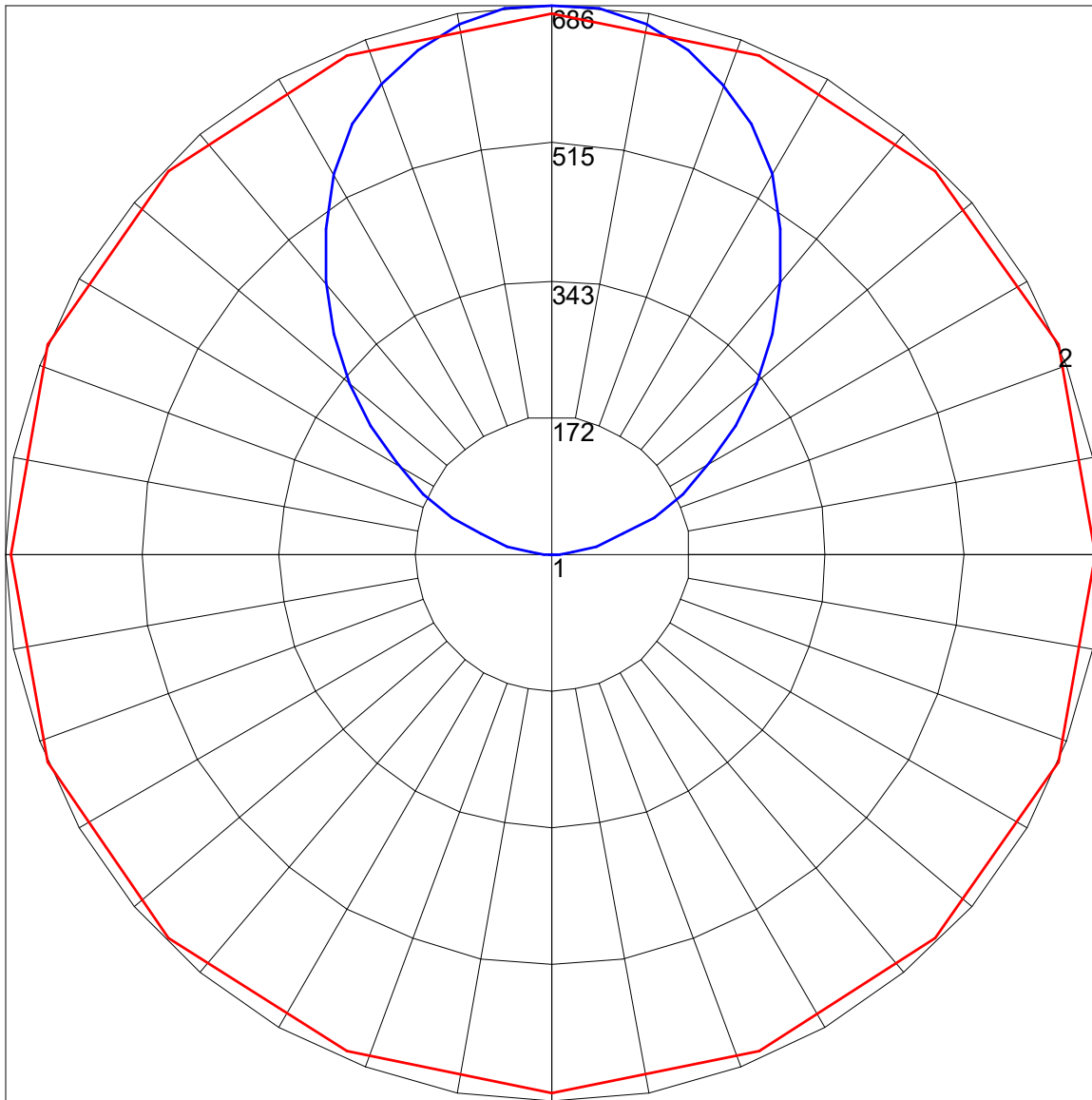
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	50	50	50	50	43	43	43	43	30	30	30	18	18	18	6	6	6	1
1	46	43	41	40	39	37	36	34	26	25	24	15	15	14	5	5	5	1
2	41	38	35	32	35	32	30	28	22	21	20	13	12	12	5	4	4	0
3	38	33	29	27	32	28	25	23	20	18	16	11	10	10	4	4	3	0
4	34	29	25	22	29	25	22	19	17	15	14	10	9	8	3	3	3	0
5	31	26	22	19	27	22	19	16	15	13	12	9	8	7	3	3	2	0
6	29	23	19	16	25	20	16	14	14	12	10	8	7	6	3	2	2	0
7	26	20	17	14	23	18	14	12	12	10	9	7	6	5	2	2	2	0
8	24	18	15	12	21	16	13	11	11	9	7	7	5	4	2	2	2	0
9	23	17	13	11	19	14	11	9	10	8	7	6	5	4	2	2	1	0
10	21	15	12	9	18	13	10	8	9	7	6	5	4	3	2	1	1	0

POLAR GRAPH



Maximum Candela = 686.229 Located At Horizontal Angle = 22.5, Vertical Angle = 175
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)