



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AX2WUD-4-L33-835U-L33-835D-S-DIM-UNV__IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 18754.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 12-30-2020
 [MANUFAC]WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 4' WALL MOUNT BIDIRECT LED LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS (TOP & BTM)
 [LUMCAT] AX2WUD-4-L33-835U-L33-835D-S-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 3500K CCT
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION] INDOOR,ARCHITECTURAL,OFFICE,CORRIDOR,MEDICAL,LINEAR,BIDIRECT
 [_SEARCH_MOUNTING]WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6814
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	67.8
Ballast Factor	1.00
CIE Type	General Diffuse
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)	3.84 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	15873	16029	15828
55	13439	14209	14071
65	10742	12533	13167
75	7613	11633	14069
85	5426	16821	26226

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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	1337.433	1337.433	1337.433	1337.433	1337.433
5	1355.994	1337.433	1326.090	1322.996	1316.809
10	1327.121	1310.622	1309.591	1305.466	1301.342
15	1295.154	1282.780	1281.749	1267.313	1269.375
20	1242.565	1239.471	1226.066	1218.848	1215.754
25	1166.258	1165.227	1149.759	1148.728	1140.478
30	1072.421	1078.608	1069.327	1052.829	1048.704
35	964.148	975.491	967.241	954.867	950.742
40	851.750	862.061	853.812	842.469	844.531
45	734.196	755.851	741.414	731.102	732.134
50	617.673	640.359	632.110	625.923	623.860
55	504.244	533.117	533.117	531.055	527.961
60	401.127	423.812	435.155	443.405	443.405
65	296.978	327.913	346.474	360.911	364.004
70	203.141	242.326	268.105	291.822	296.978
75	128.897	166.019	196.954	229.952	238.201
80	71.151	105.180	140.240	176.331	190.767
85	30.935	60.839	95.899	135.084	149.520
90	6.187	25.779	65.995	108.273	123.741
95	44.340	70.120	116.523	160.863	182.518
100	109.304	123.741	163.957	205.204	221.702
105	182.518	189.736	221.702	256.762	268.105
110	261.918	267.074	292.853	315.539	324.820
115	356.786	359.880	370.191	384.628	386.690
120	473.309	459.904	459.904	464.028	471.246
125	569.208	560.959	550.647	549.616	557.865
130	668.201	662.014	647.577	646.546	636.234
135	789.879	779.568	762.038	766.162	741.414
140	905.371	899.184	875.467	865.155	848.656
145	1014.675	1007.457	984.771	963.116	966.210
150	1115.730	1118.824	1089.951	1076.546	1069.327
155	1199.255	1203.380	1179.663	1171.414	1153.884
160	1276.593	1278.656	1261.126	1252.876	1242.565
165	1330.214	1336.401	1322.996	1315.778	1309.591
170	1365.274	1372.493	1363.212	1354.963	1355.994
175	1393.116	1403.428	1397.241	1388.991	1383.835
180	1399.303	1399.303	1399.303	1399.303	1399.303

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Zone	Lumens	%Lamp	%Fixt
0-20	486.52	N.A.	7.10
0-30	1017.31	N.A.	14.90
0-40	1618.99	N.A.	23.80
0-60	2664.23	N.A.	39.10
0-80	3213.54	N.A.	47.20
0-90	3321.33	N.A.	48.70
10-90	3194.96	N.A.	46.90
20-40	1132.47	N.A.	16.60
20-50	1704.11	N.A.	25.00
40-70	1386.13	N.A.	20.30
60-80	549.31	N.A.	8.10
70-80	208.42	N.A.	3.10
80-90	107.79	N.A.	1.60
90-110	364.31	N.A.	5.30
90-120	735.54	N.A.	10.80
90-130	1234.08	N.A.	18.10
90-150	2443.86	N.A.	35.90
90-180	3493.16	N.A.	51.30
110-180	3128.85	N.A.	45.90
0-180	6814.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.36
10-20	360.15
20-30	530.79
30-40	601.68
40-50	571.64
50-60	473.61
60-70	340.89
70-80	208.42
80-90	107.79
90-100	125.73
100-110	238.58
110-120	371.23
120-130	498.54
130-140	592.08
140-150	617.70
150-160	544.70
160-170	372.56
170-180	132.04

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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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	97	93	89	85	89	86	82	79	72	70	68	60	58	56	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39	34
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	35	33	29
4	74	63	56	50	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	16.8	17.7	17.8	18.7	19.9	17.0	17.9	18.0	18.9	20.1
	3H	18.1	18.9	19.1	19.9	21.2	18.9	19.7	19.9	20.7	22.0
	4H	18.6	19.3	19.5	20.3	21.6	19.8	20.5	20.8	21.5	22.8
	6H	18.8	19.5	19.8	20.5	21.8	20.7	21.3	21.7	22.3	23.7
	8H	18.9	19.5	19.9	20.5	21.8	21.1	21.8	22.1	22.8	24.1
	12H	18.9	19.5	19.9	20.5	21.9	21.7	22.3	22.7	23.3	24.6

UGR Viewed Endwise

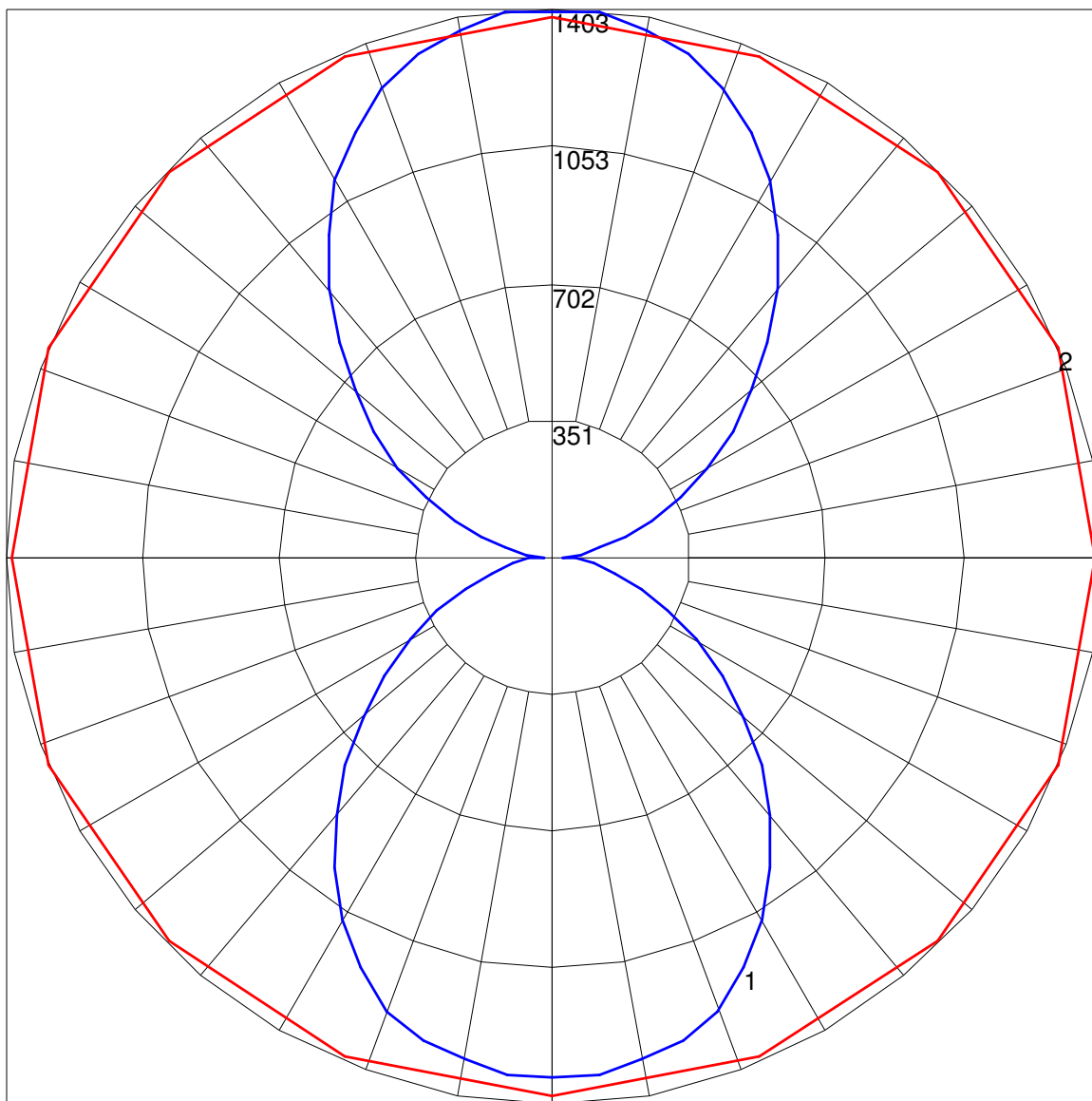
4H	2H	17.4	18.1	18.4	19.1	20.4	17.5	18.2	18.5	19.2	20.5
	3H	18.9	19.5	19.9	20.6	21.9	19.6	20.2	20.6	21.3	22.6
	4H	19.5	20.1	20.5	21.1	22.4	20.7	21.2	21.7	22.2	23.6
	6H	19.9	20.4	20.9	21.4	22.8	21.8	22.2	22.8	23.3	24.6
	8H	20.0	20.5	21.1	21.5	22.9	22.3	22.8	23.4	23.8	25.2
	12H	20.1	20.5	21.1	21.6	22.9	23.0	23.4	24.0	24.4	25.8

8H	4H	19.9	20.3	20.9	21.4	22.7	20.9	21.4	21.9	22.4	23.8
	6H	20.5	20.9	21.5	21.9	23.3	22.2	22.6	23.3	23.7	25.0
	8H	20.7	21.1	21.8	22.1	23.5	23.0	23.3	24.0	24.3	25.7
	12H	20.9	21.2	22.0	22.2	23.7	23.8	24.1	24.9	25.2	26.6

12H	4H	20.0	20.4	21.0	21.4	22.8	20.9	21.3	22.0	22.4	23.7
	6H	20.7	21.0	21.7	22.0	23.4	22.3	22.6	23.3	23.6	25.0
	8H	21.0	21.3	22.0	22.3	23.7	23.1	23.4	24.1	24.4	25.8

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 1403.428 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.)