



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-22-L30-835-D-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 19255.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE]07-06-2020
 [MANUFAC]WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x2' RECESSED LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] AT3-22-L30-835-D-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 3500K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Commercial, Office, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3028
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	30.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.76 ft
Luminous Width (90-270)	1.76 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3110	3460	3766
55	2712	3197	3475
65	2279	2888	3242
75	1851	2706	2866
85	1241	1064	768

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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	1179.451	1179.451	1179.451	1179.451	1179.451
5	1179.451	1175.000	1173.516	1173.516	1172.033
10	1149.779	1149.779	1149.779	1155.713	1157.197
15	1106.755	1111.206	1117.140	1130.492	1134.943
20	1050.379	1059.280	1074.116	1094.886	1103.788
25	974.716	991.035	1023.674	1051.862	1065.215
30	891.635	913.889	956.913	998.453	1008.838
35	807.071	832.292	875.316	936.143	940.593
40	719.539	737.342	789.268	850.095	856.029
45	633.491	640.909	704.703	747.727	767.014
50	542.992	548.927	618.655	648.327	675.032
55	448.043	464.362	528.157	553.378	574.148
60	360.511	385.732	439.141	464.362	479.198
65	277.431	314.520	351.610	378.314	394.634
70	201.768	243.308	272.980	296.717	307.102
75	137.973	173.580	201.768	210.669	213.636
80	81.597	105.335	120.170	86.048	78.630
85	31.155	34.122	26.705	22.254	19.287
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	427.15	N.A.	14.10
0-30	897.32	N.A.	29.60
0-40	1446.14	N.A.	47.80
0-60	2446.82	N.A.	80.80
0-80	2986.24	N.A.	98.60
0-90	3027.62	N.A.	100.00
10-90	2916.25	N.A.	96.30
20-40	1018.99	N.A.	33.70
20-50	1558.41	N.A.	51.50
40-70	1343.4	N.A.	44.40
60-80	539.42	N.A.	17.80
70-80	196.70	N.A.	6.50
80-90	41.38	N.A.	1.40
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	3027.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.37
10-20	315.78
20-30	470.17
30-40	548.82
40-50	539.42
50-60	461.26
60-70	342.73
70-80	196.70
80-90	41.38
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	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	91	85	79	97	90	83	78	86	81	76	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	39
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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UGR TABLE - CORRECTED

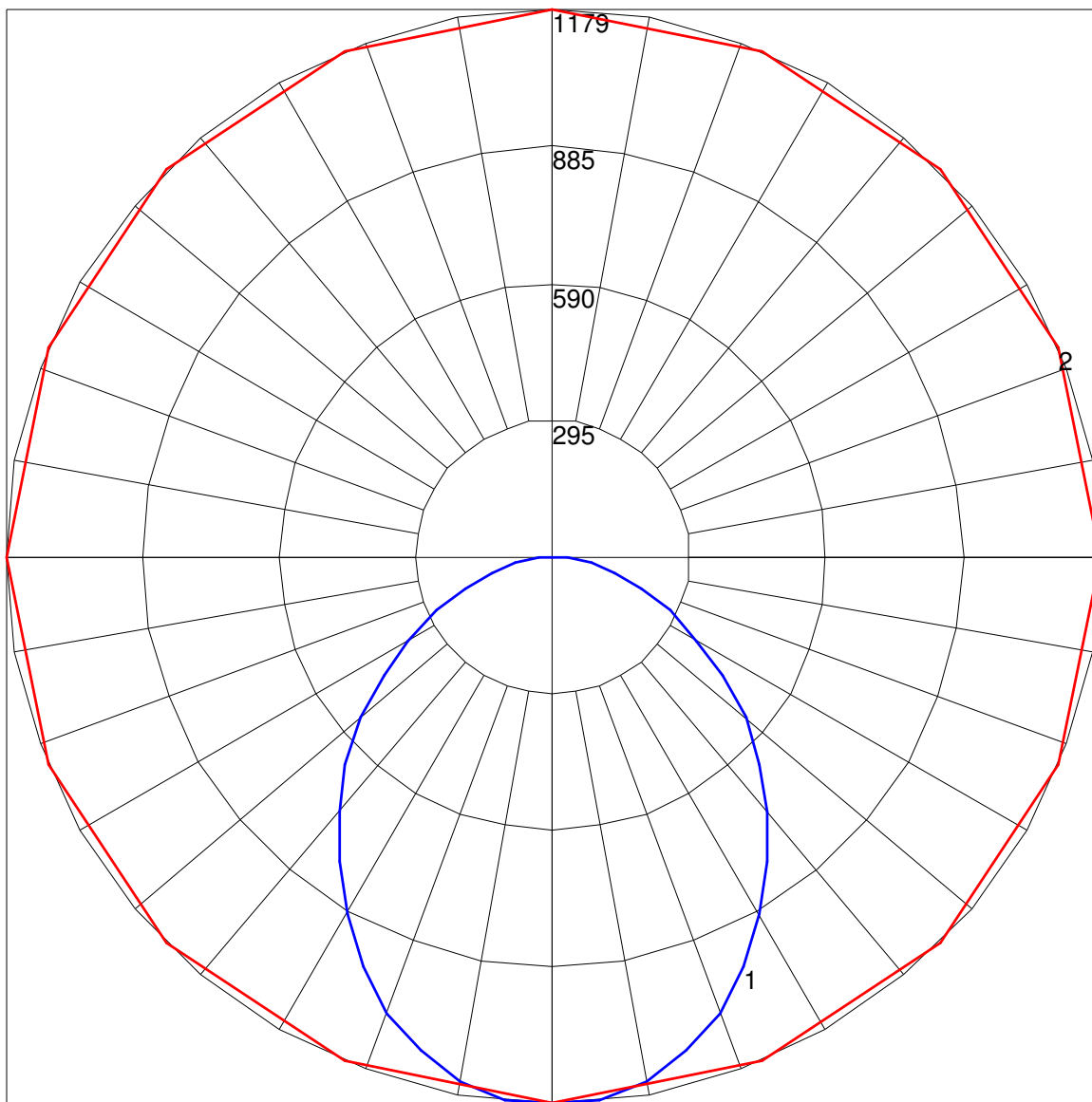
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.0	16.6	15.4	17.0	17.3	16.4	18.0	16.8	18.3	18.6
	3H	16.6	18.1	17.0	18.4	18.8	18.3	19.7	18.7	20.1	20.4
	4H	17.2	18.6	17.6	18.9	19.3	19.0	20.4	19.4	20.7	21.1
	6H	17.6	18.9	18.1	19.3	19.7	19.3	20.6	19.7	20.9	21.3
	8H	17.8	19.0	18.2	19.4	19.7	19.4	20.6	19.8	21.0	21.4
	12H	17.8	19.0	18.3	19.4	19.8	19.4	20.5	19.8	20.9	21.3
4H	2H	15.9	17.2	16.3	17.6	18.0	16.9	18.3	17.3	18.6	19.0
	3H	17.8	18.9	18.2	19.3	19.7	19.1	20.2	19.5	20.6	21.0
	4H	18.5	19.5	18.9	19.9	20.3	19.9	20.9	20.3	21.4	21.8
	6H	19.0	19.9	19.5	20.3	20.8	20.3	21.2	20.8	21.7	22.1
	8H	19.2	20.0	19.6	20.4	20.9	20.4	21.2	20.8	21.7	22.1
	12H	19.3	20.0	19.7	20.5	20.9	20.4	21.1	20.9	21.6	22.1
8H	4H	18.9	19.8	19.4	20.2	20.7	20.2	21.0	20.7	21.5	21.9
	6H	19.6	20.3	20.1	20.8	21.3	20.7	21.4	21.2	21.9	22.3
	8H	19.8	20.5	20.3	21.0	21.4	20.8	21.4	21.3	21.9	22.4
	12H	20.0	20.5	20.5	21.0	21.6	20.8	21.4	21.3	21.8	22.4
12H	4H	19.0	19.7	19.4	20.2	20.7	20.2	21.0	20.7	21.4	21.9
	6H	19.7	20.3	20.2	20.8	21.3	20.7	21.3	21.2	21.8	22.3
	8H	19.9	20.5	20.4	21.0	21.5	20.8	21.4	21.3	21.9	22.4

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 1179.451 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)