



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-22-L50-835-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
 [ISSUE DATE] 3-JAN-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56 LED 22" ARRAYS 2x2' RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC CONCAVE LX4 LENS IN
 [MORE] DOOR
 [LUMCAT] AT3-22-L50-835-D-DIM-UNV
 [_SEARCH_SOURCE TYPE] 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	4701
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	48.31
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	4830	5373	5848
55	4211	4964	5396
65	3539	4485	5034
75	2874	4203	4450
85	1927	1652	1193

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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	1831.499	1831.499	1831.499	1831.499	1831.499
5	1831.499	1824.588	1822.284	1822.284	1819.981
10	1785.424	1785.424	1785.424	1794.639	1796.943
15	1718.615	1725.526	1734.741	1755.475	1762.386
20	1631.071	1644.894	1667.932	1700.184	1714.007
25	1513.579	1538.920	1589.603	1633.375	1654.109
30	1384.568	1419.124	1485.934	1550.439	1566.566
35	1253.252	1292.417	1359.226	1453.681	1460.592
40	1117.330	1144.975	1225.607	1320.062	1329.277
45	983.711	995.230	1094.292	1161.102	1191.051
50	843.181	852.396	960.673	1006.749	1048.217
55	695.739	721.081	820.143	859.307	891.560
60	559.817	598.981	681.917	721.081	744.119
65	430.806	488.400	545.994	587.462	612.804
70	313.313	377.819	423.894	460.755	476.881
75	214.251	269.541	313.313	327.136	331.743
80	126.708	163.568	186.606	133.619	122.100
85	48.379	52.987	41.468	34.557	29.949
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	663.30	N.A.	14.10
0-30	1393.4	N.A.	29.60
0-40	2245.63	N.A.	47.80
0-60	3799.52	N.A.	80.80
0-80	4637.16	N.A.	98.60
0-90	4701.41	N.A.	100.00
10-90	4528.47	N.A.	96.30
20-40	1582.33	N.A.	33.70
20-50	2419.96	N.A.	51.50
40-70	2086.09	N.A.	44.40
60-80	837.64	N.A.	17.80
70-80	305.44	N.A.	6.50
80-90	64.25	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	4701.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.94
10-20	490.36
20-30	730.10
30-40	852.23
40-50	837.63
50-60	716.26
60-70	532.20
70-80	305.44
80-90	64.25
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	199	199	199	199	194	194	194	194	186	186	186	178	178	178	170	170	170	167
1	182	175	168	161	178	171	164	159	164	159	154	157	153	149	151	148	145	141
2	166	153	142	132	162	150	139	131	144	135	128	138	131	125	133	127	122	118
3	152	135	121	111	148	132	120	110	127	116	108	122	113	106	118	111	104	100
4	139	120	105	94	135	117	104	94	113	102	92	109	99	91	106	97	90	86
5	128	107	92	82	125	105	91	81	102	90	80	99	88	79	95	86	79	75
6	119	97	82	72	115	95	81	71	92	80	71	89	78	70	87	77	69	66
7	110	88	74	63	107	87	73	63	84	72	63	82	71	62	79	69	62	59
8	103	80	66	57	100	79	66	57	77	65	56	75	64	56	73	63	56	52
9	96	74	60	51	94	73	60	51	71	59	51	69	58	51	68	58	50	47
10	90	68	55	47	88	67	55	46	66	54	46	64	54	46	63	53	46	43

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UGR TABLE - CORRECTED

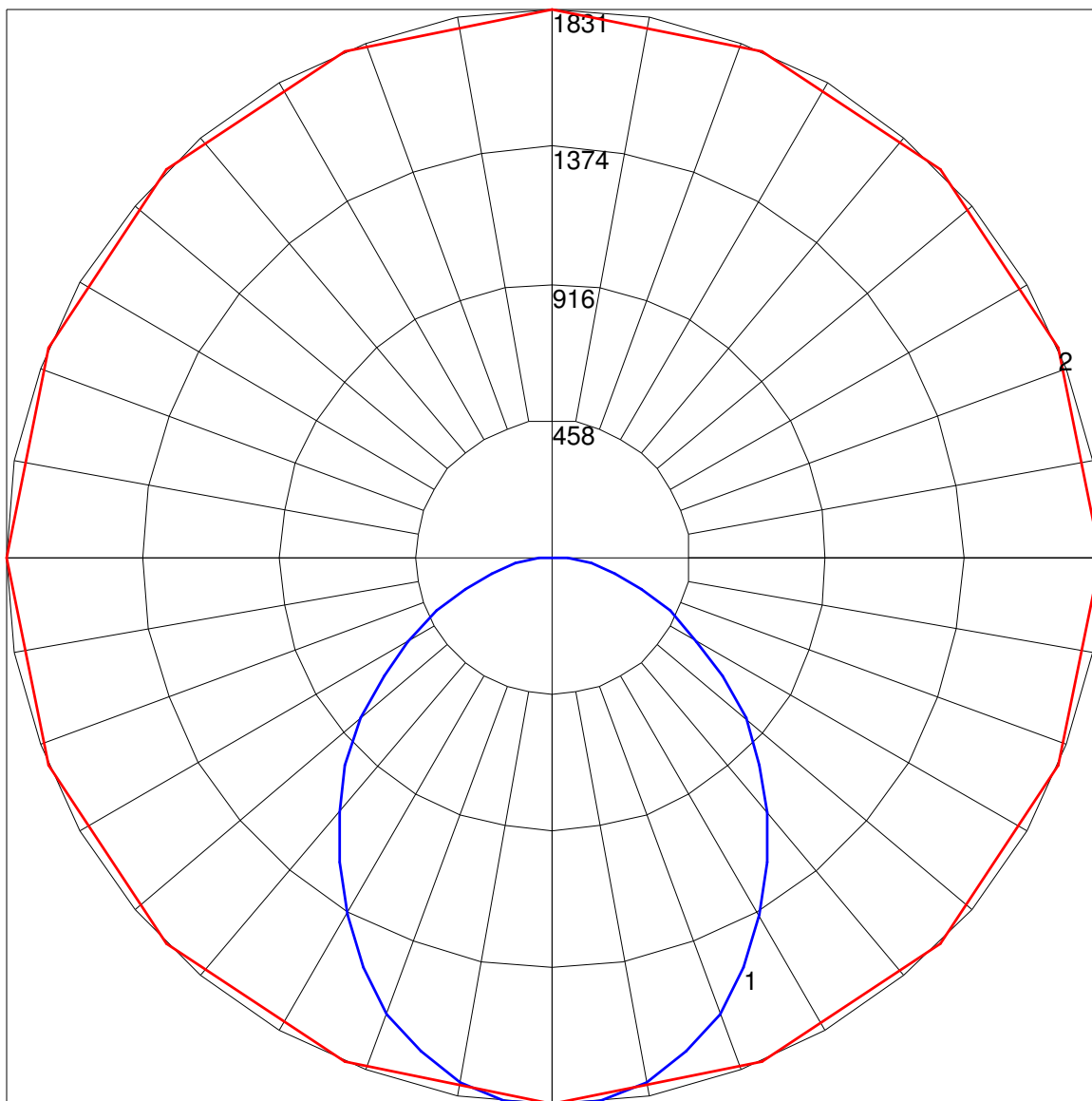
Reflectances

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	14.8	16.4	15.2	16.8	17.1	16.2	17.8	16.6	18.1	18.4
	3H	16.4	17.9	16.8	18.2	18.6	18.1	19.5	18.5	19.9	20.2
	4H	17.0	18.4	17.4	18.7	19.1	18.8	20.2	19.2	20.5	20.9
	6H	17.4	18.7	17.9	19.1	19.5	19.1	20.4	19.5	20.7	21.1
	8H	17.6	18.8	18.0	19.2	19.5	19.2	20.4	19.6	20.8	21.2
	12H	17.6	18.8	18.1	19.2	19.6	19.2	20.3	19.6	20.7	21.1
4H	2H	15.7	17.0	16.1	17.4	17.8	16.7	18.1	17.1	18.4	18.8
	3H	17.6	18.7	18.0	19.1	19.5	18.9	20.0	19.3	20.4	20.8
	4H	18.3	19.3	18.7	19.7	20.1	19.7	20.7	20.1	21.2	21.6
	6H	18.8	19.7	19.3	20.1	20.6	20.1	21.0	20.6	21.5	21.9
	8H	19.0	19.8	19.4	20.2	20.7	20.2	21.0	20.6	21.5	21.9
	12H	19.1	19.8	19.5	20.3	20.7	20.2	20.9	20.7	21.4	21.9
8H	4H	18.7	19.6	19.2	20.0	20.5	20.0	20.8	20.5	21.3	21.7
	6H	19.4	20.1	19.9	20.6	21.1	20.5	21.2	21.0	21.7	22.1
	8H	19.6	20.3	20.1	20.8	21.2	20.6	21.2	21.1	21.7	22.2
	12H	19.8	20.3	20.3	20.8	21.4	20.6	21.2	21.1	21.6	22.2
12H	4H	18.8	19.5	19.2	20.0	20.5	20.0	20.8	20.5	21.2	21.7
	6H	19.5	20.1	20.0	20.6	21.1	20.5	21.1	21.0	21.6	22.1
	8H	19.7	20.3	20.2	20.8	21.3	20.6	21.2	21.1	21.7	22.2

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 1831.499 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.)