



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-24-P58-8TW-D-POE 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19260.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 3-JAN-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4-22" LED ARRAYS 2x4' LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC CONCAVE LENS IN DOOR

[LUMCAT] AT3-24-P58-8TW-D-PoE 4000k

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,COMMERCIAL,DIRECT,OFFICE,ARCHITECTURAL

[_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5602
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	49.81
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.76 ft
Luminous Width (90-270)	1.88 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2552	2852	3042
55	2175	2520	2681
65	1974	2412	2591
75	1679	2296	2296
85	1488	1061	992

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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	2231.985	2231.985	2231.985	2231.985	2231.985
5	2220.180	2220.967	2220.967	2221.754	2222.541
10	2175.320	2177.681	2183.190	2190.273	2194.995
15	2095.044	2100.553	2113.145	2132.034	2140.691
20	1974.630	1986.435	2016.342	2052.545	2067.498
25	1812.504	1827.458	1871.531	1920.326	1942.362
30	1641.721	1802.273	1702.322	1696.812	1820.374
35	1468.577	1495.336	1571.676	1646.443	1674.776
40	1302.516	1333.210	1424.504	1497.697	1521.307
45	1182.889	1220.666	1322.192	1389.088	1410.338
50	995.579	1038.865	1133.307	1188.398	1202.565
55	817.713	862.573	947.571	992.431	1008.171
60	665.031	711.465	783.871	824.796	838.175
65	546.978	598.134	668.179	706.743	717.761
70	413.972	468.276	532.025	562.718	568.228
75	284.901	339.205	389.574	394.296	389.574
80	184.162	239.254	234.532	162.913	147.960
85	84.998	97.590	60.600	57.452	56.665
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	806.68	N.A.	14.40
0-30	1671.52	N.A.	29.80
0-40	2656.66	N.A.	47.40
0-60	4487.04	N.A.	80.10
0-80	5508.07	N.A.	98.30
0-90	5601.67	N.A.	100.00
10-90	5390.84	N.A.	96.20
20-40	1849.98	N.A.	33.00
20-50	2843.76	N.A.	50.80
40-70	2470.37	N.A.	44.10
60-80	1021.03	N.A.	18.20
70-80	381.04	N.A.	6.80
80-90	93.60	N.A.	1.70
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	5601.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	210.83
10-20	595.85
20-30	864.84
30-40	985.14
40-50	993.78
50-60	836.60
60-70	639.99
70-80	381.04
80-90	93.60
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	256	256	256	256	250	250	250	250	239	239	239	228	228	228	219	219	219	215
1	234	224	215	207	228	219	211	204	210	203	197	202	196	191	194	190	185	181
2	213	196	182	169	208	192	179	167	184	173	164	177	168	160	171	163	156	152
3	195	173	155	142	190	169	153	140	163	149	138	157	145	136	152	142	133	129
4	179	154	135	121	174	151	133	120	145	130	118	140	127	117	136	124	115	110
5	165	138	119	105	160	135	117	104	131	115	103	126	113	102	122	110	101	96
6	152	124	105	92	148	122	104	91	118	102	91	115	101	90	111	99	89	85
7	142	113	94	81	138	111	94	81	108	92	80	105	91	80	102	89	79	75
8	132	103	85	73	129	102	85	73	99	83	72	96	82	72	94	81	71	67
9	124	95	78	66	120	94	77	66	91	76	65	89	75	65	87	74	65	61
10	116	88	71	60	113	87	71	60	85	70	60	83	69	59	81	68	59	55

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UGR TABLE - CORRECTED

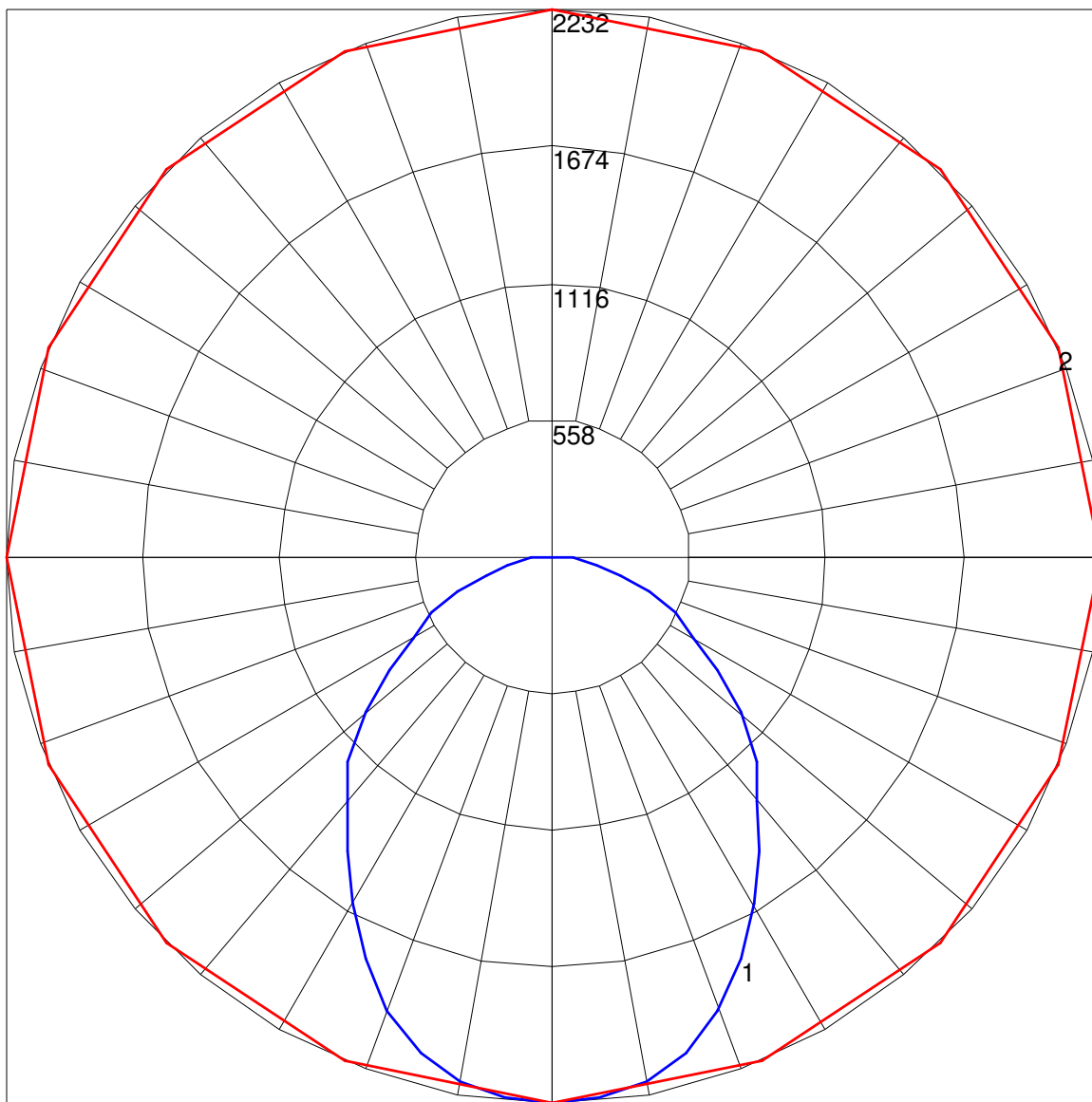
Reflectances

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	11.7	13.3	12.1	13.6	13.9	12.8	14.4	13.1	14.7	15.0
	3H	13.5	14.9	13.8	15.2	15.6	14.8	16.3	15.2	16.6	16.9
	4H	14.1	15.5	14.5	15.8	16.2	15.5	16.9	15.9	17.3	17.6
	6H	14.6	15.9	15.0	16.3	16.7	15.9	17.1	16.3	17.5	17.9
	8H	14.8	16.0	15.3	16.4	16.8	15.9	17.1	16.3	17.5	17.9
	12H	15.0	16.1	15.4	16.5	16.9	16.0	17.1	16.4	17.5	17.9
4H	2H	12.5	13.9	12.9	14.3	14.6	13.4	14.7	13.8	15.1	15.5
	3H	14.6	15.7	15.0	16.1	16.5	15.6	16.8	16.1	17.2	17.6
	4H	15.4	16.4	15.8	16.8	17.2	16.5	17.6	17.0	18.0	18.4
	6H	16.0	17.0	16.5	17.4	17.8	16.9	17.8	17.4	18.3	18.7
	8H	16.3	17.1	16.7	17.6	18.0	17.0	17.9	17.5	18.3	18.8
	12H	16.4	17.2	16.9	17.7	18.2	17.1	17.8	17.5	18.3	18.8
8H	4H	15.8	16.7	16.3	17.1	17.6	16.8	17.7	17.3	18.1	18.6
	6H	16.7	17.4	17.2	17.9	18.4	17.3	18.0	17.8	18.5	19.0
	8H	17.0	17.6	17.5	18.2	18.6	17.4	18.1	17.9	18.6	19.1
	12H	17.3	17.8	17.8	18.3	18.9	17.5	18.1	18.0	18.6	19.1
12H	4H	15.9	16.6	16.3	17.1	17.6	16.9	17.6	17.3	18.1	18.6
	6H	16.8	17.4	17.3	17.9	18.4	17.4	18.0	17.9	18.5	19.0
	8H	17.1	17.7	17.6	18.2	18.8	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 19.2

POLAR GRAPH



Maximum Candela = 2231.985 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.)