



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-24-P58-835-D-POE_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19260.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 16-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-P58-835-D-PoE

[_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	5570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	47.5
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	2537	2836	3025
55	2162	2506	2666
65	1963	2398	2576
75	1669	2283	2283
85	1479	1055	986

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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	2219.235	2219.235	2219.235	2219.235	2219.235
5	2207.498	2208.280	2208.280	2209.063	2209.845
10	2162.894	2165.241	2170.719	2177.762	2182.457
15	2083.076	2088.554	2101.075	2119.855	2128.463
20	1963.350	1975.088	2004.824	2040.820	2055.688
25	1802.151	1817.019	1860.840	1909.356	1931.267
30	1632.343	1791.978	1692.597	1687.120	1809.976
35	1460.188	1486.794	1562.699	1637.038	1665.209
40	1295.076	1325.594	1416.367	1489.141	1512.617
45	1176.132	1213.693	1314.639	1381.153	1402.281
50	989.892	1032.930	1126.833	1181.610	1195.695
55	813.041	857.645	942.158	986.762	1002.412
60	661.232	707.401	779.393	820.084	833.387
65	543.854	594.718	664.362	702.706	713.661
70	411.607	465.601	528.986	559.504	564.982
75	283.273	337.267	387.349	392.044	387.349
80	183.110	237.887	233.192	161.982	147.114
85	84.512	97.033	60.254	57.124	56.342
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	802.08	N.A.	14.40
0-30	1661.98	N.A.	29.80
0-40	2641.49	N.A.	47.40
0-60	4461.41	N.A.	80.10
0-80	5476.6	N.A.	98.30
0-90	5569.67	N.A.	100.00
10-90	5360.05	N.A.	96.20
20-40	1839.41	N.A.	33.00
20-50	2827.51	N.A.	50.80
40-70	2456.25	N.A.	44.10
60-80	1015.19	N.A.	18.20
70-80	378.86	N.A.	6.80
80-90	93.07	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	5569.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	209.63
10-20	592.45
20-30	859.90
30-40	979.51
40-50	988.10
50-60	831.82
60-70	636.33
70-80	378.86
80-90	93.07
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	252	252	252	252	246	246	246	246	235	235	235	225	225	225	216	216	216	212
1	231	221	212	204	225	216	208	200	207	200	194	199	193	188	191	187	183	178
2	210	193	179	167	205	189	176	165	182	171	161	175	165	157	168	161	154	149
3	192	170	153	140	187	167	151	138	160	147	136	155	143	133	149	140	131	127
4	176	151	133	119	171	148	131	118	143	128	116	138	125	115	134	123	113	109
5	162	136	117	103	158	133	116	102	129	113	101	125	111	100	121	109	99	95
6	150	122	104	90	146	120	103	90	117	101	89	113	99	88	110	97	88	83
7	139	111	93	80	136	110	92	80	106	91	79	103	89	79	100	88	78	74
8	130	102	84	72	127	100	83	72	98	82	71	95	81	71	92	80	70	66
9	122	94	76	65	119	92	76	65	90	75	64	88	74	64	86	73	64	60
10	114	87	70	59	111	85	70	59	83	69	59	81	68	58	80	67	58	54

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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	11.8	13.4	12.2	13.7	14.0	UGR Viewed Endwise			
	3H	13.6	15.0	13.9	15.3	15.7	12.9	14.5	13.2	14.8
	4H	14.2	15.6	14.6	15.9	16.3	14.9	16.4	15.3	16.7
	6H	14.7	16.0	15.1	16.4	16.8	15.6	17.0	16.0	17.4
	8H	14.9	16.1	15.4	16.5	16.9	16.0	17.2	16.4	17.6
	12H	15.1	16.2	15.5	16.6	17.0	16.0	17.2	16.4	17.6

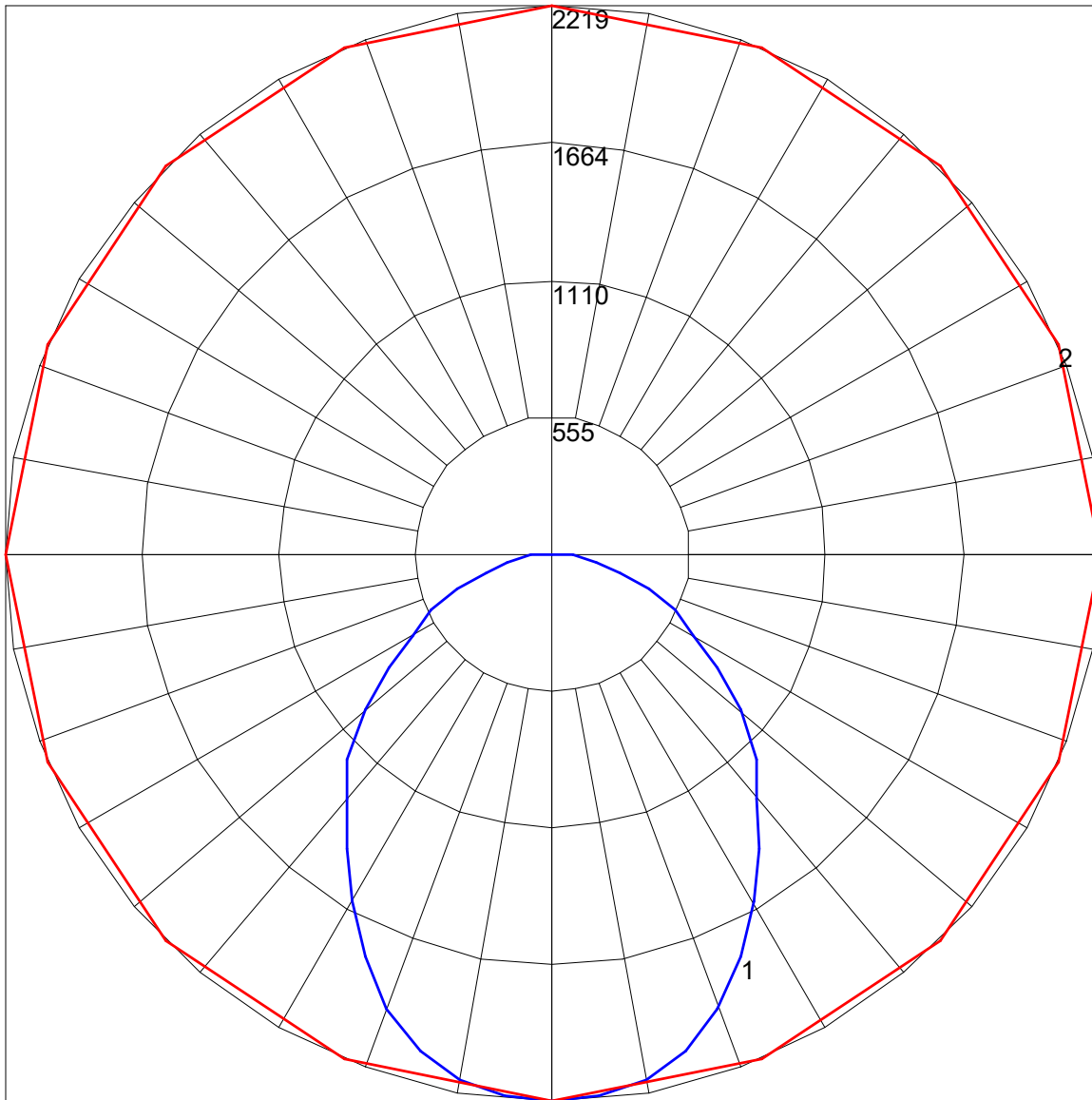
4H	2H	12.6	14.0	13.0	14.4	14.7	12.9	14.5	13.2	14.8
	3H	14.7	15.8	15.1	16.2	16.6	14.9	16.4	15.3	16.7
	4H	15.5	16.5	15.9	16.9	17.3	15.6	17.0	16.0	17.4
	6H	16.1	17.1	16.6	17.5	17.9	16.0	17.2	16.4	17.6
	8H	16.4	17.2	16.8	17.7	18.1	16.0	17.2	16.4	17.6
	12H	16.5	17.3	17.0	17.8	18.3	16.1	17.2	16.5	17.6

8H	4H	15.9	16.8	16.4	17.2	17.7	16.9	17.8	17.4	18.2
	6H	16.8	17.5	17.3	18.0	18.5	17.4	18.1	17.9	18.6
	8H	17.1	17.7	17.6	18.3	18.7	17.5	18.2	18.0	18.7
	12H	17.4	17.9	17.9	18.4	19.0	17.6	18.2	18.1	18.7

12H	4H	16.0	16.7	16.4	17.2	17.7	17.0	17.7	17.4	18.2
	6H	16.9	17.5	17.4	18.0	18.5	17.5	18.1	18.0	18.6
	8H	17.2	17.8	17.7	18.3	18.9	17.7	18.2	18.2	18.7

Maximum UGR = 19.3

POLAR GRAPH



Maximum Candela = 2219.235 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.)