



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-14-P25-8TW-D-POE 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19434.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 3-JAN-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-22" LED ARRAYS 1x4' LUMINAIRE

[MORE] WHITE REFLECTOR w/2 PIECE FROSTED ACRYLIC LENS IN DOOR

[LUMCAT] AT3-14-P25-8TW-D-PoE 4000k

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Office, Direct

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2332
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	25.09
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.76 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3018	2915	2888
55	2567	2506	2409
65	2281	2211	1633
75	1813	1294	1184
85	1494	1027	762

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AT3-14-P25-8TW-D-POE 4000K_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1063.290	1063.290	1063.290	1063.290	1063.290
5	1051.958	1050.496	1049.034	1047.207	1046.476
10	1039.531	1035.510	1028.931	1023.814	1022.352
15	996.034	992.014	982.145	974.469	970.083
20	949.248	940.110	924.393	910.503	905.021
25	850.924	841.421	825.703	812.545	808.890
30	782.572	770.510	752.600	742.000	738.710
35	708.738	697.407	681.690	673.648	671.090
40	631.614	620.648	608.221	603.834	601.276
45	575.324	563.262	555.586	551.565	550.469
50	482.117	473.345	468.228	464.938	462.745
55	396.952	389.641	387.448	380.869	372.462
60	319.097	314.345	312.883	294.607	277.062
65	259.883	256.959	251.841	206.883	186.048
70	190.434	189.703	165.579	125.007	121.717
75	126.469	127.931	90.283	84.434	82.607
80	77.490	67.986	56.290	53.366	51.538
85	35.090	27.414	24.124	19.372	17.910
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AT3-14-P25-8TW-D-POE 4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	376.29	N.A.	16.10
0-30	760.58	N.A.	32.60
0-40	1189.49	N.A.	51.00
0-60	1959.61	N.A.	84.00
0-80	2302.13	N.A.	98.70
0-90	2331.86	N.A.	100.00
10-90	2232.24	N.A.	95.70
20-40	813.20	N.A.	34.90
20-50	1237.68	N.A.	53.10
40-70	1001.01	N.A.	42.90
60-80	342.52	N.A.	14.70
70-80	111.63	N.A.	4.80
80-90	29.73	N.A.	1.30
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	2331.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	99.62
10-20	276.68
20-30	384.29
30-40	428.91
40-50	424.48
50-60	345.63
60-70	230.89
70-80	111.63
80-90	29.73
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AT3-14-P25-8TW-D-POE 4000K_.IES

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	186	186	186	186	182	182	182	182	174	174	174	166	166	166	159	159	159	156
1	171	165	158	153	167	161	155	150	154	150	146	148	145	141	143	140	137	134
2	157	145	135	127	153	142	133	125	137	129	123	132	125	120	127	122	117	114
3	144	129	117	107	140	126	115	106	122	112	104	117	109	103	113	107	101	98
4	133	115	102	92	129	113	101	91	109	99	90	105	96	89	102	94	88	85
5	122	103	90	80	119	102	89	80	98	87	79	95	86	78	93	84	77	74
6	113	94	80	71	111	92	80	70	89	78	70	87	77	69	84	76	69	65
7	106	85	72	63	103	84	72	63	82	70	62	79	69	62	77	68	61	58
8	98	78	65	57	96	77	65	56	75	64	56	73	63	56	71	62	55	53
9	92	72	60	51	90	71	59	51	69	58	51	68	58	51	66	57	50	48
10	87	67	55	47	85	66	54	47	64	54	46	63	53	46	62	53	46	43

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AT3-14-P25-8TW-D-POE 4000K_.IES

UGR TABLE - CORRECTED

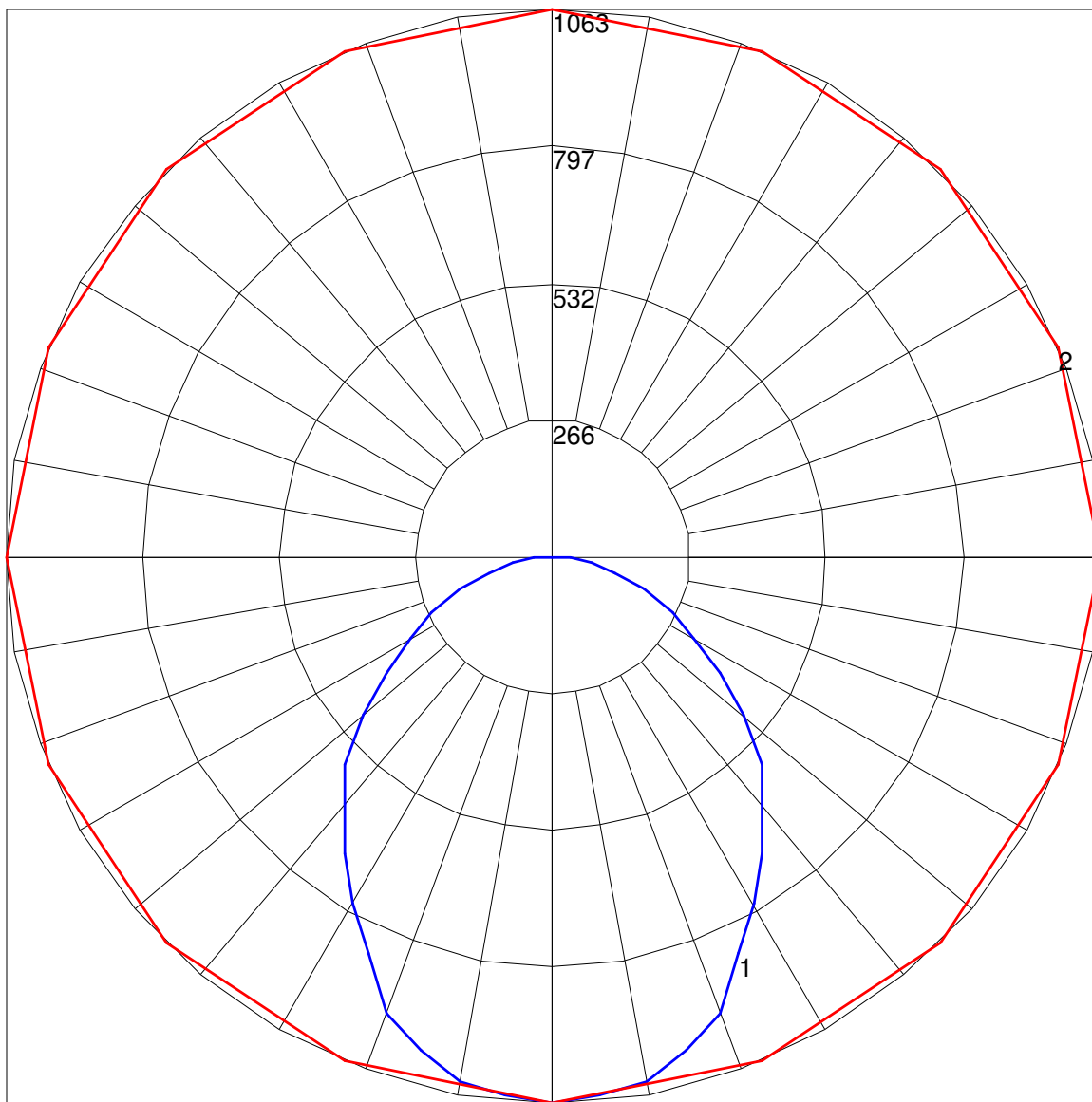
Reflectances

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	13.5	15.1	13.9	15.4	15.7	13.2	14.7	13.5	15.0	15.3
	3H	15.2	16.6	15.6	16.9	17.3	14.1	15.5	14.5	15.8	16.2
	4H	15.8	17.1	16.2	17.4	17.8	14.4	15.7	14.8	16.1	16.5
	6H	16.2	17.4	16.6	17.8	18.2	14.7	15.9	15.1	16.3	16.7
	8H	16.3	17.5	16.8	17.9	18.3	14.8	15.9	15.2	16.3	16.7
	12H	16.4	17.5	16.9	17.9	18.4	14.8	15.9	15.2	16.3	16.7
4H	2H	14.1	15.4	14.5	15.8	16.1	13.8	15.1	14.2	15.5	15.8
	3H	15.9	17.0	16.4	17.4	17.8	14.9	16.0	15.3	16.4	16.8
	4H	16.7	17.6	17.1	18.0	18.5	15.3	16.3	15.7	16.7	17.1
	6H	17.2	18.0	17.6	18.5	18.9	15.7	16.5	16.1	17.0	17.4
	8H	17.4	18.1	17.8	18.6	19.1	15.8	16.6	16.3	17.0	17.5
	12H	17.5	18.2	18.0	18.7	19.1	15.9	16.6	16.3	17.0	17.5
8H	4H	16.8	17.6	17.2	18.0	18.5	15.6	16.3	16.0	16.8	17.3
	6H	17.4	18.0	17.9	18.5	19.0	16.0	16.7	16.5	17.2	17.6
	8H	17.6	18.2	18.1	18.7	19.2	16.2	16.8	16.7	17.3	17.8
	12H	17.8	18.3	18.3	18.8	19.4	16.3	16.8	16.8	17.3	17.9
12H	4H	16.8	17.5	17.3	18.0	18.4	15.6	16.3	16.1	16.8	17.2
	6H	17.4	18.0	17.9	18.5	19.0	16.1	16.7	16.6	17.1	17.7
	8H	17.7	18.2	18.2	18.7	19.3	16.3	16.8	16.8	17.3	17.8

Maximum UGR = 19.4

POLAR GRAPH



Maximum Candela = 1063.29 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.)