

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-14-L40-RGB835-D-DMX-UNV WHITE ONLY_.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] 1 DEC, 2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 1x4' RECESSED LUMINAIRE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] AT3-14-L40-RGB835-D-DMX-UNV white only

[_SEARCH_SOURCETYPE] LED

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

[_SEARCH_MOUNTING] Ceiling, Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3997
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	44.6
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	5174	4997	4951
55	4401	4296	4129
65	3911	3790	2799
75	3107	2218	2030
85	2560	1760	1307

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AT3-14-L40-RGB835-D-DMX-UNV WHITE ONLY_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1822.779	1822.779	1822.779	1822.779	1822.779
5	1803.355	1800.848	1798.342	1795.209	1793.956
10	1782.050	1775.158	1763.879	1755.107	1752.600
15	1707.485	1700.592	1683.674	1670.516	1662.996
20	1627.280	1611.615	1584.671	1560.861	1551.462
25	1458.725	1442.433	1415.489	1392.932	1386.666
30	1341.551	1320.873	1290.169	1271.998	1266.359
35	1214.977	1195.553	1168.609	1154.824	1150.438
40	1082.765	1063.967	1042.662	1035.143	1030.757
45	986.268	965.591	952.432	945.539	943.660
50	826.485	811.447	802.675	797.035	793.276
55	680.488	667.956	664.196	652.917	638.505
60	547.022	538.876	536.370	505.040	474.963
65	445.513	440.500	431.727	354.656	318.939
70	326.459	325.205	283.850	214.297	208.658
75	216.804	219.310	154.770	144.745	141.612
80	132.839	116.548	96.496	91.484	88.351
85	60.154	46.995	41.356	33.210	30.703
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AT3-14-L40-RGB835-D-DMX-UNV WHITE ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	645.07	N.A.	16.10
0-30	1303.85	N.A.	32.60
0-40	2039.13	N.A.	51.00
0-60	3359.32	N.A.	84.00
0-80	3946.5	N.A.	98.70
0-90	3997.47	N.A.	100.00
10-90	3826.7	N.A.	95.70
20-40	1394.05	N.A.	34.90
20-50	2121.74	N.A.	53.10
40-70	1716.01	N.A.	42.90
60-80	587.17	N.A.	14.70
70-80	191.36	N.A.	4.80
80-90	50.97	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	3997.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	170.77
10-20	474.30
20-30	658.77
30-40	735.28
40-50	727.69
50-60	592.51
60-70	395.81
70-80	191.36
80-90	50.97
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-L40-RGB835-D-DMX-UNV WHITE ONLY_.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	169	169	169	169	165	165	165	165	158	158	158	151	151	151	145	145	145	142
1	156	150	144	139	152	146	141	137	140	136	132	135	131	128	130	127	125	122
2	143	132	123	115	139	129	121	114	124	117	111	120	114	109	115	111	106	103
3	131	117	106	97	128	115	105	97	111	102	95	107	99	93	103	97	92	89
4	120	104	93	84	117	103	92	83	99	90	82	96	88	81	93	86	80	77
5	111	94	82	73	108	92	81	72	89	79	72	87	78	71	84	76	70	67
6	103	85	73	64	100	84	72	64	81	71	63	79	70	63	77	69	62	60
7	96	78	66	57	93	76	65	57	74	64	57	72	63	56	70	62	56	53
8	90	71	59	51	87	70	59	51	68	58	51	66	57	51	65	57	50	48
9	84	65	54	47	82	65	54	46	63	53	46	62	53	46	60	52	46	43
10	79	61	50	43	77	60	49	42	58	49	42	57	48	42	56	48	42	39

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-14-L40-RGB835-D-DMX-UNV WHITE ONLY_.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

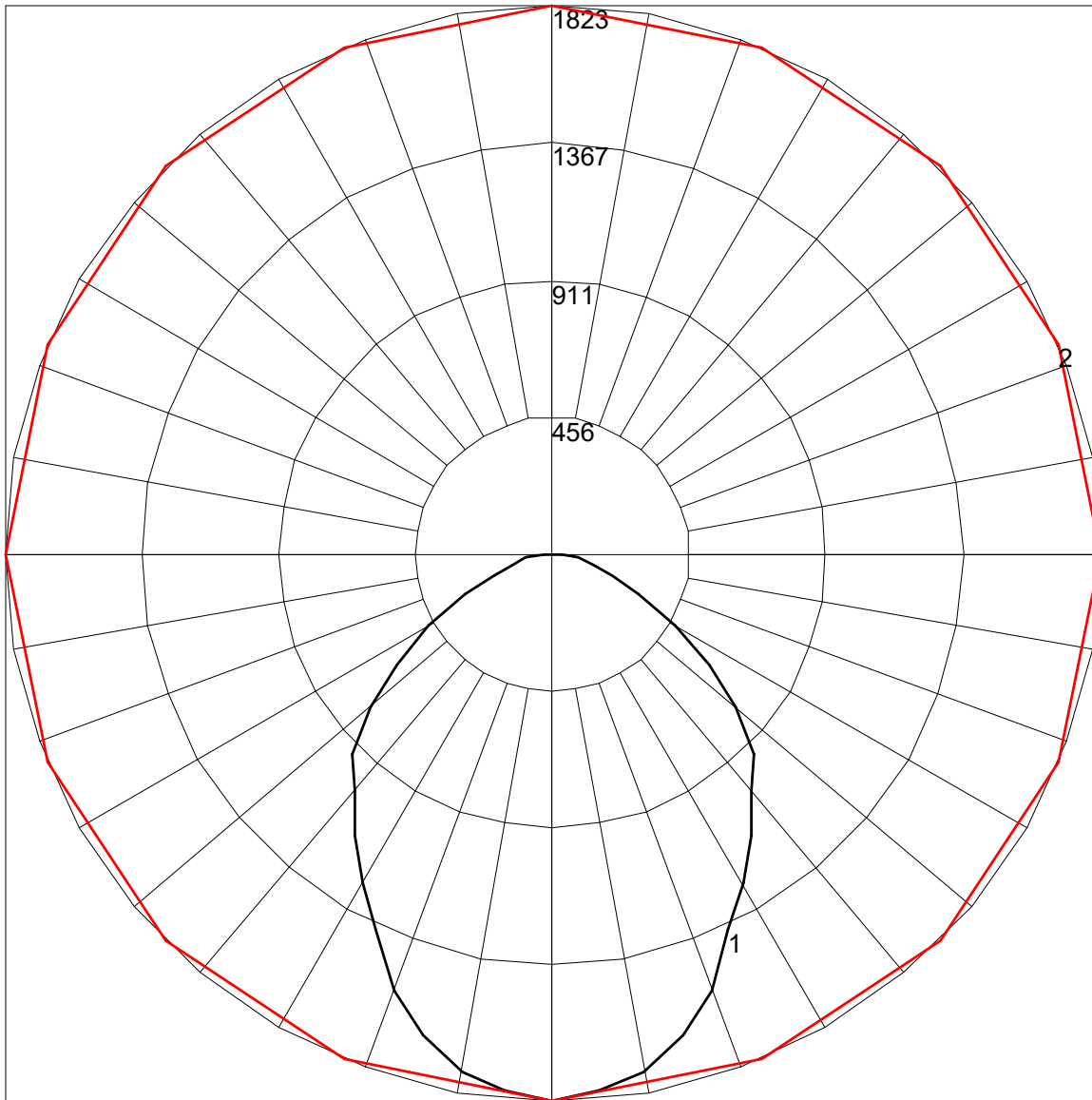
X=2H	Y=2H	15.7	17.3	16.1	17.6	17.9	15.4	16.9	15.7	17.2	17.5
	3H	17.4	18.8	17.8	19.1	19.5	16.3	17.7	16.7	18.0	18.4
	4H	18.0	19.3	18.4	19.6	20.0	16.6	17.9	17.0	18.3	18.7
	6H	18.4	19.6	18.8	20.0	20.4	16.9	18.1	17.3	18.5	18.9
	8H	18.5	19.7	19.0	20.1	20.5	17.0	18.1	17.4	18.5	18.9
	12H	18.6	19.7	19.1	20.1	20.6	17.0	18.1	17.4	18.5	18.9

UGR Viewed Endwise

4H	2H	16.3	17.6	16.7	18.0	18.3	16.0	17.3	16.4	17.7	18.0
	3H	18.1	19.2	18.6	19.6	20.0	17.1	18.2	17.5	18.6	19.0
	4H	18.9	19.8	19.3	20.2	20.7	17.5	18.5	17.9	18.9	19.3
	6H	19.4	20.2	19.8	20.7	21.1	17.9	18.7	18.3	19.2	19.6
	8H	19.6	20.3	20.0	20.8	21.3	18.0	18.8	18.5	19.2	19.7
	12H	19.7	20.4	20.2	20.9	21.3	18.1	18.8	18.5	19.2	19.7
8H	4H	19.0	19.8	19.4	20.2	20.7	17.8	18.5	18.2	19.0	19.5
	6H	19.6	20.2	20.1	20.7	21.2	18.2	18.9	18.7	19.4	19.8
	8H	19.8	20.4	20.3	20.9	21.4	18.4	19.0	18.9	19.5	20.0
	12H	20.0	20.5	20.5	21.0	21.6	18.5	19.0	19.0	19.5	20.1
12H	4H	19.0	19.7	19.5	20.2	20.6	17.8	18.5	18.3	19.0	19.4
	6H	19.6	20.2	20.1	20.7	21.2	18.3	18.9	18.8	19.3	19.9
	8H	19.9	20.4	20.4	20.9	21.5	18.5	19.0	19.0	19.5	20.0

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 1822.779 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)