



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARG-L27-835-A-DIM-UNV AMBIENT ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN from Intertek
 [ISSUEDATE] 18-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2X2' LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD2ARG-L27-835-A-DIM-UNV AMBIENT ONLY
 [LAMPCAT] HLM 80 CRI, 3500K CCT
 [_SEARCH_SOURCE] LED
 [_SEARCH_APPLICATION] INDOOR, DIRECT, OFFICE, EDUCATION
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2715
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	20.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2661	2658	2757
55	2209	2380	2467
65	1721	1980	1632
75	1280	1275	948
85	822	627	506

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AMD2ARG-L27-835-A-DIM-UNV AMBIENT ONLY_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1183.366	1183.366	1183.366	1183.366	1183.366
2.5	1182.635	1180.440	1179.427	1182.015	1183.422
5.0	1179.370	1176.556	1174.418	1175.093	1176.444
7.5	1172.223	1168.114	1165.187	1164.399	1162.880
10.0	1161.023	1156.295	1150.779	1148.697	1146.952
12.5	1145.827	1140.874	1133.614	1128.999	1125.340
15.0	1125.903	1120.613	1111.664	1105.192	1100.633
17.5	1102.096	1095.455	1085.550	1078.233	1072.999
20.0	1073.899	1066.808	1055.552	1047.616	1041.594
22.5	1041.819	1033.884	1022.290	1014.523	1008.839
25.0	1006.981	997.695	985.032	978.278	973.213
27.5	969.779	959.311	946.592	941.695	937.981
30.0	931.002	920.083	907.870	904.212	901.848
32.5	889.748	878.717	867.573	866.391	864.815
35.0	845.229	834.986	825.531	827.839	827.613
37.5	797.728	788.723	781.632	786.416	788.048
40.0	748.538	740.603	736.100	744.149	747.751
42.5	696.535	690.625	689.500	701.375	707.960
45.0	642.899	639.015	642.392	658.376	666.256
47.5	589.432	589.038	595.510	615.771	624.720
50.0	536.021	539.567	550.936	574.067	579.864
52.5	483.849	490.996	508.106	530.449	533.545
55.0	432.914	443.776	466.401	482.892	483.511
57.5	383.781	397.457	424.753	431.057	417.268
60.0	336.111	352.488	381.023	366.896	354.458
62.5	290.579	309.433	336.223	310.559	293.056
65.0	248.594	269.586	285.964	255.291	235.761
67.5	209.703	231.822	236.099	202.612	186.009
70.0	174.528	196.871	191.581	157.981	144.192
72.5	142.166	162.877	149.708	120.329	110.142
75.0	113.181	129.053	112.787	90.556	83.803
77.5	86.729	96.860	81.439	67.087	63.035
80.0	63.316	68.607	56.281	48.120	45.869
82.5	42.605	43.449	35.626	31.405	29.548
85.0	24.482	22.625	18.685	16.434	15.083
87.5	8.611	7.148	6.529	6.641	6.585
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AMD2ARG-L27-835-A-DIM-UNV AMBIENT ONLY_.IES****CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.056	0.000	0.056
152.5	0.000	0.000	0.056	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.113	0.056	0.000	0.225	0.056
160.0	0.056	0.000	0.169	0.113	0.056
162.5	0.225	0.056	0.056	0.056	0.169
165.0	0.056	0.056	0.169	0.113	0.225
167.5	0.225	0.056	0.113	0.113	0.056
170.0	0.056	0.056	0.169	0.113	0.113
172.5	0.000	0.056	0.225	0.281	0.000
175.0	0.169	0.000	0.113	0.169	0.225
177.5	0.169	0.113	0.169	0.169	0.056
180.0	0.169	0.169	0.169	0.169	0.169

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AMD2ARG-L27-835-A-DIM-UNV AMBIENT ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	424.69	N.A.	15.60
0-30	879.41	N.A.	32.40
0-40	1398.47	N.A.	51.50
0-60	2310.98	N.A.	85.10
0-80	2690.19	N.A.	99.10
0-90	2715.06	N.A.	100.00
10-90	2603.56	N.A.	95.90
20-40	973.78	N.A.	35.90
20-50	1474.28	N.A.	54.30
40-70	1174.7	N.A.	43.30
60-80	379.21	N.A.	14.00
70-80	117.02	N.A.	4.30
80-90	24.87	N.A.	0.90
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	0.06	N.A.	0.00
110-180	0.06	N.A.	0.00
0-180	2715.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.50
10-20	313.18
20-30	454.72
30-40	519.06
40-50	500.50
50-60	412.01
60-70	262.18
70-80	117.02
80-90	24.87
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	0.02
160-170	0.03
170-180	0.01

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARG-L27-835-A-DIM-UNV AMBIENT ONLY_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	47	47	47	47	46	46	46	46	44	44	44	42	42	42	41	41	41	40
1	44	42	40	39	43	41	40	38	39	38	37	38	37	36	36	36	35	34
2	40	37	35	33	39	36	34	32	35	33	31	34	32	31	32	31	30	29
3	37	33	30	27	36	32	29	27	31	29	27	30	28	26	29	27	26	25
4	34	29	26	24	33	29	26	23	28	25	23	27	25	23	26	24	22	22
5	31	26	23	21	30	26	23	20	25	22	20	24	22	20	24	21	20	19
6	29	24	20	18	28	24	20	18	23	20	18	22	20	18	22	19	18	17
7	27	22	18	16	26	21	18	16	21	18	16	20	18	16	20	17	16	15
8	25	20	17	14	24	20	17	14	19	16	14	19	16	14	18	16	14	13
9	23	18	15	13	23	18	15	13	18	15	13	17	15	13	17	15	13	12
10	22	17	14	12	22	17	14	12	16	14	12	16	14	12	16	13	12	11

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARG-L27-835-A-DIM-UNV AMBIENT 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	17.7	19.3	18.1	19.6	19.9	18.3	19.8	18.6	20.1	20.4
	3H	19.1	20.5	19.4	20.8	21.1	19.1	20.5	19.5	20.8	21.2
	4H	19.5	20.8	19.9	21.2	21.5	19.3	20.6	19.7	21.0	21.4
	6H	19.8	21.0	20.2	21.4	21.8	19.5	20.7	19.9	21.0	21.4
	8H	19.9	21.0	20.3	21.4	21.8	19.5	20.6	19.9	21.0	21.4
	12H	19.9	21.0	20.3	21.4	21.8	19.5	20.6	19.9	21.0	21.4

UGR Viewed Endwise

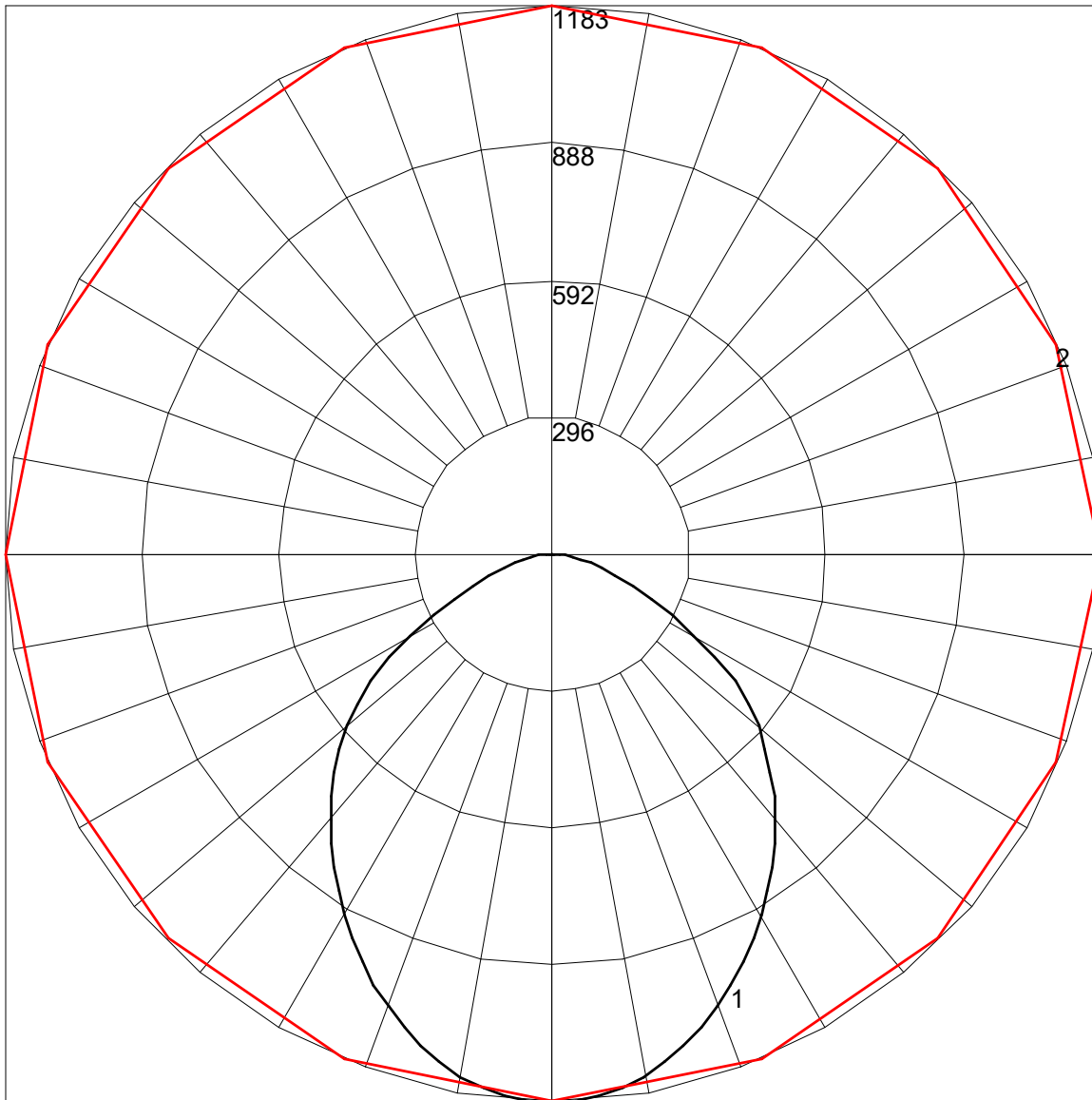
4H	2H	18.3	19.6	18.7	20.0	20.4	18.8	20.1	19.2	20.4	20.8
	3H	19.9	20.9	20.3	21.3	21.8	19.8	20.9	20.2	21.3	21.7
	4H	20.4	21.4	20.9	21.8	22.3	20.1	21.1	20.5	21.5	21.9
	6H	20.8	21.7	21.3	22.1	22.6	20.3	21.1	20.7	21.6	22.0
	8H	20.9	21.7	21.4	22.2	22.6	20.3	21.1	20.8	21.6	22.0
	12H	21.0	21.7	21.5	22.2	22.6	20.3	21.1	20.8	21.5	22.0

8H	4H	20.6	21.4	21.0	21.8	22.3	20.3	21.1	20.7	21.5	22.0
	6H	21.0	21.7	21.5	22.2	22.7	20.5	21.2	21.0	21.7	22.1
	8H	21.2	21.8	21.7	22.3	22.8	20.6	21.2	21.1	21.7	22.2
	12H	21.3	21.8	21.8	22.3	22.9	20.6	21.2	21.2	21.7	22.2

12H	4H	20.6	21.3	21.1	21.8	22.2	20.3	21.0	20.8	21.5	21.9
	6H	21.1	21.6	21.6	22.1	22.7	20.6	21.1	21.1	21.6	22.1
	8H	21.2	21.8	21.7	22.2	22.8	20.7	21.2	21.2	21.7	22.2

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 1183.422 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)