



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARG-L44-835-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-L44-835-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	4440
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	35.1
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	4351	4348	4509
55	3612	3891	4034
65	2815	3238	2670
75	2093	2085	1550
85	1344	1026	828

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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>
0.0	1935.229	1935.229	1935.229	1935.229	1935.229
2.5	1934.032	1930.443	1928.786	1933.020	1935.321
5.0	1928.694	1924.092	1920.595	1921.699	1923.908
7.5	1917.005	1910.286	1905.500	1904.211	1901.726
10.0	1898.689	1890.958	1881.938	1878.532	1875.679
12.5	1873.838	1865.739	1853.866	1846.318	1840.336
15.0	1841.256	1832.604	1817.970	1807.386	1799.930
17.5	1802.323	1791.463	1775.264	1763.298	1754.739
20.0	1756.211	1744.614	1726.206	1713.229	1703.381
22.5	1703.749	1690.771	1671.811	1659.109	1649.813
25.0	1646.776	1631.590	1610.881	1599.836	1591.552
27.5	1585.938	1568.818	1548.017	1540.010	1533.935
30.0	1522.522	1504.667	1484.694	1478.711	1474.846
32.5	1455.057	1437.017	1418.794	1416.861	1414.284
35.0	1382.254	1365.502	1350.040	1353.813	1353.445
37.5	1304.572	1289.846	1278.249	1286.072	1288.741
40.0	1224.129	1211.152	1203.789	1216.950	1222.841
42.5	1139.085	1129.420	1127.580	1147.000	1157.769
45.0	1051.371	1045.020	1050.542	1076.682	1089.567
47.5	963.933	963.289	973.873	1007.007	1021.642
50.0	876.587	882.386	900.978	938.806	948.286
52.5	791.266	802.955	830.935	867.475	872.537
55.0	707.970	725.734	762.734	789.701	790.714
57.5	627.619	649.985	694.624	704.933	682.383
60.0	549.662	576.445	623.109	600.007	579.667
62.5	475.201	506.035	549.846	507.876	479.251
65.0	406.540	440.871	467.654	417.493	385.555
67.5	342.940	379.112	386.107	331.343	304.192
70.0	285.415	321.955	313.303	258.356	235.806
72.5	232.493	266.363	244.826	196.781	180.122
75.0	185.092	211.047	184.448	148.092	137.047
77.5	141.833	158.400	133.182	109.711	103.085
80.0	103.545	112.197	92.040	78.694	75.012
82.5	69.674	71.055	58.261	51.358	48.321
85.0	40.037	37.000	30.557	26.876	24.667
87.5	14.082	11.689	10.677	10.861	10.769
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

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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	0.092	0.000	0.092
152.5	0.000	0.000	0.092	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.184	0.092	0.000	0.368	0.092
160.0	0.092	0.000	0.276	0.184	0.092
162.5	0.368	0.092	0.092	0.092	0.276
165.0	0.092	0.092	0.276	0.184	0.368
167.5	0.368	0.092	0.184	0.184	0.092
170.0	0.092	0.092	0.276	0.184	0.184
172.5	0.000	0.092	0.368	0.460	0.000
175.0	0.276	0.000	0.184	0.276	0.368
177.5	0.276	0.184	0.276	0.276	0.092
180.0	0.276	0.276	0.276	0.276	0.276

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AMD2ARG-L44-835-A-DIM-UNV AMBIENT ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	694.51	N.A.	15.60
0-30	1438.15	N.A.	32.40
0-40	2286.99	N.A.	51.50
0-60	3779.29	N.A.	85.10
0-80	4399.43	N.A.	99.10
0-90	4440.1	N.A.	100.00
10-90	4257.75	N.A.	95.90
20-40	1592.48	N.A.	35.90
20-50	2410.98	N.A.	54.30
40-70	1921.06	N.A.	43.30
60-80	620.14	N.A.	14.00
70-80	191.38	N.A.	4.30
80-90	40.67	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	0.10	N.A.	0.00
110-180	0.10	N.A.	0.00
0-180	4440.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	182.35
10-20	512.17
20-30	743.63
30-40	848.85
40-50	818.50
50-60	673.79
60-70	428.76
70-80	191.38
80-90	40.67
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	0.03
160-170	0.05
170-180	0.02

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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	195	195	195	195	190	190	190	190	182	182	182	174	174	174	167	167	167	164
1	180	173	167	161	175	169	163	158	162	158	153	156	152	149	150	147	144	141
2	165	153	142	134	161	149	140	132	144	136	129	139	132	126	134	128	123	120
3	151	135	123	113	147	133	121	112	128	118	110	124	115	108	119	112	106	103
4	139	121	107	97	136	119	106	96	115	104	95	111	101	94	107	99	93	89
5	128	109	95	84	125	107	94	84	103	92	83	100	90	82	97	88	81	78
6	119	98	84	74	116	97	84	74	94	82	73	91	81	73	89	79	72	69
7	111	89	76	66	108	88	75	66	86	74	65	83	73	65	81	72	65	61
8	103	82	69	59	101	81	68	59	79	67	59	77	66	59	75	65	58	55
9	97	75	62	54	94	74	62	54	73	61	53	71	61	53	69	60	53	50
10	91	70	57	49	89	69	57	49	67	56	49	66	56	48	64	55	48	45

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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

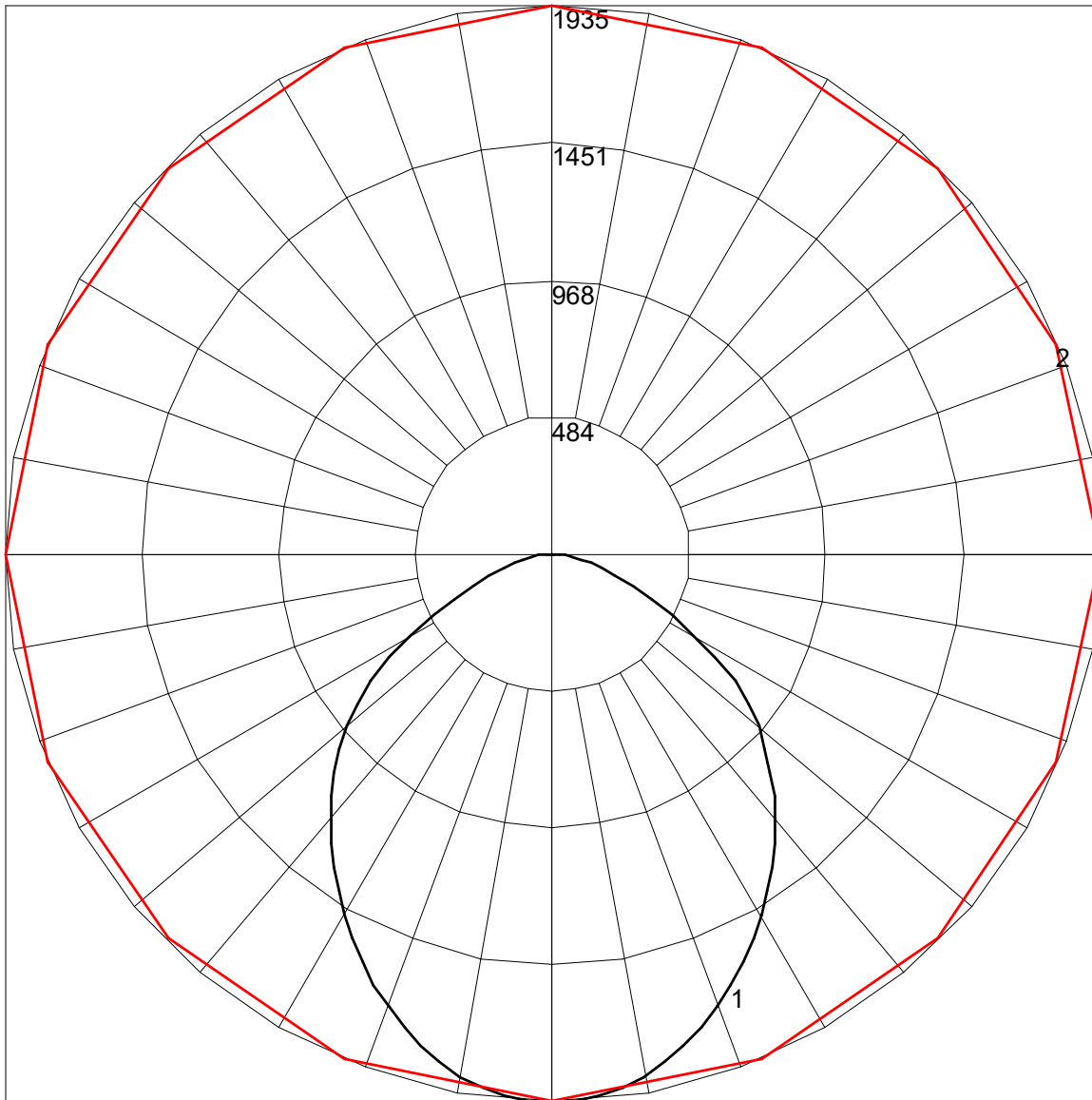
X=2H	Y=2H	14.5	16.1	14.9	16.4	16.7	15.1	16.6	15.4	16.9	17.2
	3H	15.9	17.3	16.2	17.6	17.9	15.9	17.3	16.3	17.6	18.0
	4H	16.3	17.6	16.7	18.0	18.3	16.1	17.4	16.5	17.8	18.2
	6H	16.6	17.8	17.0	18.2	18.6	16.3	17.5	16.7	17.8	18.2
	8H	16.7	17.8	17.1	18.2	18.6	16.3	17.4	16.7	17.8	18.2
	12H	16.7	17.8	17.1	18.2	18.6	16.3	17.4	16.7	17.8	18.2

### UGR Viewed Endwise

4H	2H	15.1	16.4	15.5	16.8	17.2	15.6	16.9	16.0	17.2	17.6
	3H	16.7	17.7	17.1	18.1	18.6	16.6	17.7	17.0	18.1	18.5
	4H	17.2	18.2	17.7	18.6	19.1	16.9	17.9	17.3	18.3	18.7
	6H	17.6	18.5	18.1	18.9	19.4	17.1	17.9	17.5	18.4	18.8
	8H	17.7	18.5	18.2	19.0	19.4	17.1	17.9	17.6	18.4	18.8
	12H	17.8	18.5	18.3	19.0	19.4	17.1	17.9	17.6	18.3	18.8
8H	4H	17.4	18.2	17.8	18.6	19.1	17.1	17.9	17.5	18.3	18.8
	6H	17.8	18.5	18.3	19.0	19.5	17.3	18.0	17.8	18.5	18.9
	8H	18.0	18.6	18.5	19.1	19.6	17.4	18.0	17.9	18.5	19.0
	12H	18.1	18.6	18.6	19.1	19.7	17.4	18.0	18.0	18.5	19.0
12H	4H	17.4	18.1	17.9	18.6	19.0	17.1	17.8	17.6	18.3	18.7
	6H	17.9	18.4	18.4	18.9	19.5	17.4	17.9	17.9	18.4	18.9
	8H	18.0	18.6	18.5	19.0	19.6	17.5	18.0	18.0	18.5	19.0

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 1935.321 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.)