



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARNG-L44-835-A-DIM-UNV ALL ON\_.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] AMD2ARNG-L44-835-A-DIM-UNV ALL ON  
 [LAMPCAT] HLM 80 CRI, 3500K CCT  
 [ \_SEARCH\_SOURCETYPE] 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	6292
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	63.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
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	8511	7222	5685
55	8392	6858	4761
65	6461	6238	3816
75	3535	4085	2887
85	1210	1789	2003

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	2538.382	2538.382	2538.382	2538.382	2538.382	2538.382	2538.382	2538.382	2538.382
5	2608.652	2605.411	2588.814	2567.525	2543.208	2508.655	2479.338	2461.852	2454.766
10	2628.614	2621.139	2585.299	2539.580	2489.475	2425.973	2372.542	2340.219	2323.939
15	2631.358	2619.190	2570.905	2506.014	2429.977	2342.832	2269.328	2222.596	2201.714
20	2574.055	2548.788	2478.083	2388.047	2280.872	2174.258	2085.620	2033.422	2010.147
25	2503.746	2467.489	2376.209	2269.858	2150.781	2029.216	1938.303	1887.057	1871.674
30	2432.717	2379.727	2256.376	2114.043	1982.143	1848.614	1760.633	1724.934	1711.825
35	2343.594	2276.726	2123.865	1960.420	1819.153	1685.696	1604.368	1587.850	1579.324
40	2195.640	2113.192	1931.190	1749.265	1598.002	1476.607	1415.824	1417.087	1421.042
45	2056.560	1957.718	1745.128	1531.545	1373.603	1268.182	1236.992	1258.514	1272.667
50	1870.304	1769.651	1543.151	1315.310	1149.245	1072.602	1069.098	1114.858	1128.756
55	1644.828	1558.944	1344.181	1092.559	933.120	883.934	912.472	959.921	961.116
60	1307.701	1266.074	1138.796	888.662	732.467	706.890	764.923	751.741	727.269
65	933.076	934.212	900.847	703.591	551.131	549.705	594.106	527.290	483.809
70	573.921	590.430	619.948	524.800	388.695	406.028	397.897	318.804	286.803
75	312.649	323.694	361.316	352.957	255.322	270.333	224.987	176.004	164.959
80	143.203	155.147	178.821	187.695	147.955	144.317	115.820	101.442	97.760
85	36.027	40.302	53.279	64.885	59.660	53.525	47.082	43.400	38.093
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.092	0.000	0.092	0.000	0.000	0.000	0.092	0.000	0.092
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.092	0.184	0.276	0.000	0.092	0.000	0.276	0.184	0.092
165	0.368	0.184	0.276	0.092	0.092	0.092	0.276	0.184	0.368
170	0.184	0.184	0.276	0.092	0.092	0.092	0.276	0.184	0.184
175	0.368	0.276	0.184	0.000	0.276	0.000	0.184	0.276	0.368
180	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AMD2ARNG-L44-835-A-DIM-UNV ALL ON\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	918.96	N.A.	14.60
0-30	1914.59	N.A.	30.40
0-40	3083.11	N.A.	49.00
0-60	5244.67	N.A.	83.40
0-80	6225.53	N.A.	98.90
0-90	6291.87	N.A.	100.00
10-90	6051.73	N.A.	96.20
20-40	2164.15	N.A.	34.40
20-50	3325.47	N.A.	52.90
40-70	2838.08	N.A.	45.10
60-80	980.86	N.A.	15.60
70-80	304.35	N.A.	4.80
80-90	66.34	N.A.	1.10
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	0.01	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.09	N.A.	0.00
0-180	6291.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	240.14
10-20	678.82
20-30	995.63
30-40	1168.52
40-50	1161.32
50-60	1000.25
60-70	676.52
70-80	304.35
80-90	66.34
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.01
150-160	0.02
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

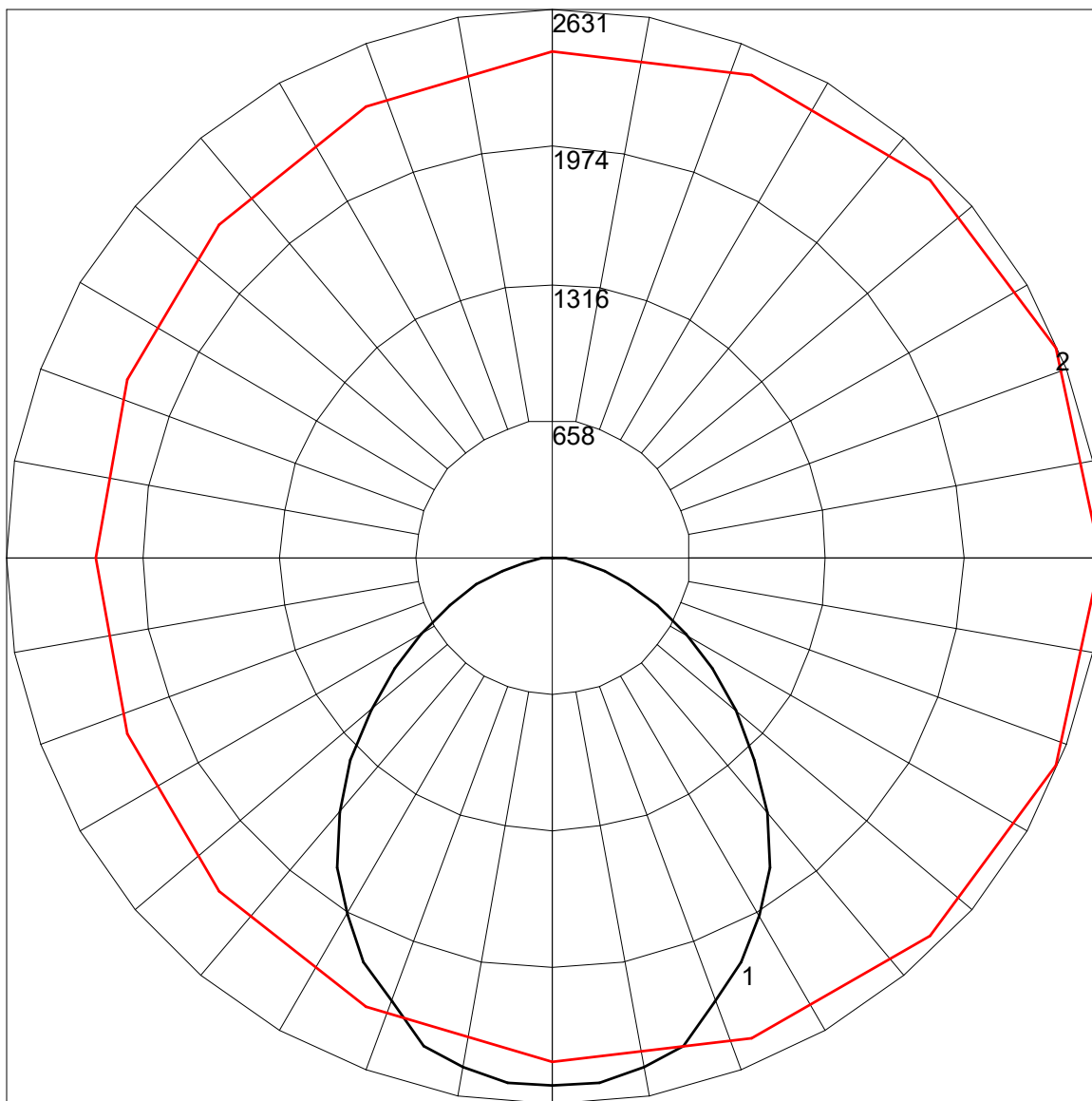
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	20.5	22.0	20.8	22.3	22.7	17.2	18.7	17.5	19.0	19.4
	3H	21.6	23.0	22.0	23.4	23.7	18.6	20.0	19.0	20.3	20.7
	4H	21.9	23.2	22.3	23.6	23.9	19.0	20.4	19.4	20.7	21.1
	6H	22.0	23.2	22.4	23.6	24.0	19.4	20.6	19.8	21.0	21.3
	8H	22.0	23.2	22.5	23.6	24.0	19.5	20.6	19.9	21.0	21.4
	12H	22.0	23.1	22.4	23.5	23.9	19.5	20.6	19.9	21.0	21.4
4H	2H	20.9	22.2	21.3	22.6	22.9	18.0	19.4	18.4	19.7	20.1
	3H	22.2	23.3	22.6	23.7	24.1	19.6	20.7	20.0	21.1	21.5
	4H	22.6	23.6	23.0	24.0	24.4	20.2	21.2	20.7	21.6	22.1
	6H	22.8	23.6	23.2	24.1	24.5	20.6	21.5	21.1	21.9	22.4
	8H	22.8	23.6	23.2	24.0	24.5	20.7	21.5	21.2	22.0	22.5
	12H	22.8	23.5	23.3	24.0	24.5	20.8	21.5	21.3	22.0	22.5
8H	4H	22.7	23.5	23.2	24.0	24.4	20.5	21.3	20.9	21.7	22.2
	6H	23.0	23.6	23.5	24.1	24.6	21.0	21.6	21.5	22.1	22.6
	8H	23.0	23.6	23.5	24.1	24.6	21.1	21.7	21.6	22.2	22.7
	12H	23.0	23.6	23.5	24.0	24.6	21.2	21.8	21.7	22.3	22.8
12H	4H	22.7	23.4	23.2	23.9	24.4	20.5	21.2	20.9	21.7	22.1
	6H	23.0	23.6	23.5	24.0	24.6	21.0	21.6	21.5	22.0	22.6
	8H	23.0	23.6	23.5	24.1	24.6	21.2	21.7	21.7	22.2	22.8

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 2631.358 Located At Horizontal Angle = 0, Vertical Angle = 15

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)

# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)