



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-L27-835-A-DIM-UNV AMBIENT ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TESTLAB] GEN from Intertek  
 [ISSUEDATE] 17-AUG-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836  
 [LUMINAIRE] 2X2' LED TROFFER  
 [MORE] FROSTED ACRYLIC DIFFUSER  
 [LUMCAT] AMD2AEG-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	2775
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	22.8
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	2719	2717	2818
55	2257	2432	2521
65	1759	2024	1669
75	1308	1303	968
85	840	641	518

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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	1209.518	1209.518	1209.518	1209.518	1209.518
2.5	1208.770	1206.527	1205.491	1208.137	1209.575
5.0	1205.434	1202.557	1200.372	1201.062	1202.442
7.5	1198.128	1193.929	1190.937	1190.132	1188.579
10.0	1186.681	1181.848	1176.211	1174.083	1172.299
12.5	1171.149	1166.087	1158.666	1153.949	1150.210
15.0	1150.785	1145.378	1136.231	1129.616	1124.956
17.5	1126.452	1119.664	1109.540	1102.061	1096.712
20.0	1097.632	1090.384	1078.879	1070.768	1064.613
22.5	1064.843	1056.732	1044.882	1036.943	1031.133
25.0	1029.235	1019.743	1006.800	999.897	994.720
27.5	991.211	980.511	967.511	962.506	958.710
30.0	951.576	940.417	927.934	924.195	921.779
32.5	909.411	898.136	886.746	885.538	883.927
35.0	863.909	853.439	843.775	846.133	845.903
37.5	815.358	806.154	798.905	803.795	805.463
40.0	765.081	756.970	752.368	760.594	764.275
42.5	711.928	705.888	704.737	716.875	723.605
45.0	657.107	653.137	656.589	672.926	680.979
47.5	602.458	602.055	608.671	629.380	638.526
50.0	547.867	551.491	563.111	586.754	592.679
52.5	494.541	501.847	519.335	542.172	545.336
55.0	442.481	453.584	476.709	493.563	494.196
57.5	392.262	406.241	434.140	440.583	426.489
60.0	343.539	360.278	389.443	375.005	362.292
62.5	297.001	316.272	343.654	317.422	299.532
65.0	254.087	275.544	292.284	260.933	240.972
67.5	214.338	236.945	241.317	207.090	190.120
70.0	178.385	201.222	195.815	161.472	147.379
72.5	145.308	166.477	153.016	122.988	112.576
75.0	115.683	131.905	115.280	92.558	85.655
77.5	88.646	99.000	83.238	68.570	64.428
80.0	64.715	70.123	57.525	49.184	46.883
82.5	43.546	44.409	36.413	32.099	30.201
85.0	25.023	23.125	19.098	16.797	15.417
87.5	8.801	7.306	6.673	6.788	6.730
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	0.058	0.000	0.058
152.5	0.000	0.000	0.058	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.115	0.058	0.000	0.230	0.058
160.0	0.058	0.000	0.173	0.115	0.058
162.5	0.230	0.058	0.058	0.058	0.173
165.0	0.058	0.058	0.173	0.115	0.230
167.5	0.230	0.058	0.115	0.115	0.058
170.0	0.058	0.058	0.173	0.115	0.115
172.5	0.000	0.058	0.230	0.288	0.000
175.0	0.173	0.000	0.115	0.173	0.230
177.5	0.173	0.115	0.173	0.173	0.058
180.0	0.173	0.173	0.173	0.173	0.173

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AMD2AEG-L27-835-A-DIM-UNV AMBIENT ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	434.07	N.A.	15.60
0-30	898.84	N.A.	32.40
0-40	1429.37	N.A.	51.50
0-60	2362.06	N.A.	85.10
0-80	2749.64	N.A.	99.10
0-90	2775.06	N.A.	100.00
10-90	2661.09	N.A.	95.90
20-40	995.30	N.A.	35.90
20-50	1506.86	N.A.	54.30
40-70	1200.66	N.A.	43.30
60-80	387.59	N.A.	14.00
70-80	119.61	N.A.	4.30
80-90	25.42	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	2775.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	113.97
10-20	320.11
20-30	464.77
30-40	530.53
40-50	511.56
50-60	421.12
60-70	267.98
70-80	119.61
80-90	25.42
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

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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

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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

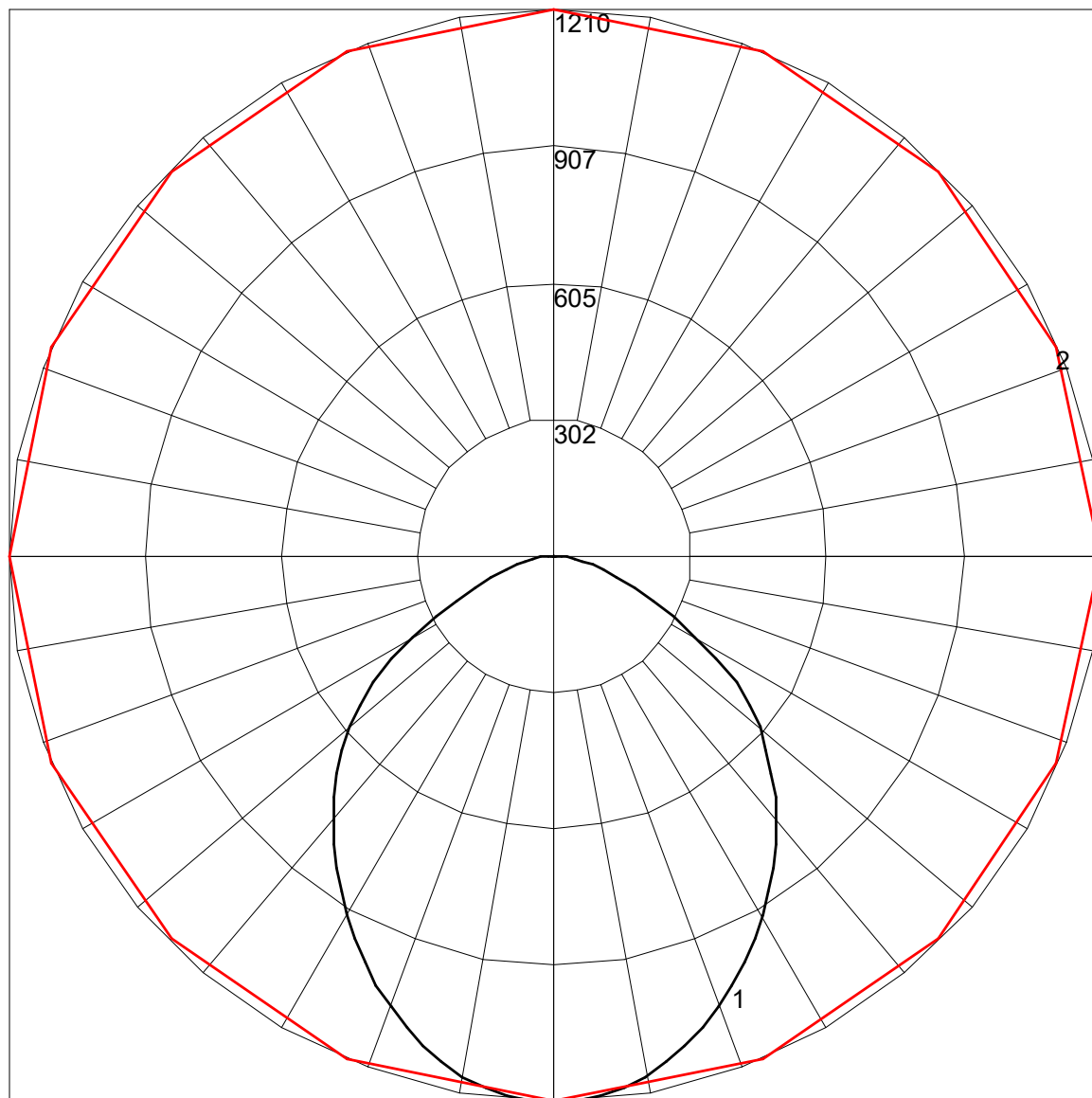
X=2H	Y=2H	14.6	16.2	15.0	16.5	16.8	15.2	16.7	15.5	17.0	17.3
	3H	16.0	17.4	16.3	17.7	18.0	16.0	17.4	16.4	17.7	18.1
	4H	16.4	17.7	16.8	18.1	18.4	16.2	17.5	16.6	17.9	18.3
	6H	16.7	17.9	17.1	18.3	18.7	16.4	17.6	16.8	17.9	18.3
	8H	16.8	17.9	17.2	18.3	18.7	16.4	17.5	16.8	17.9	18.3
	12H	16.8	17.9	17.2	18.3	18.7	16.4	17.5	16.8	17.9	18.3

### UGR Viewed Endwise

4H	2H	15.2	16.5	15.6	16.9	17.3	15.7	17.0	16.1	17.3	17.7
	3H	16.8	17.8	17.2	18.2	18.7	16.7	17.8	17.1	18.2	18.6
	4H	17.3	18.3	17.8	18.7	19.2	17.0	18.0	17.4	18.4	18.8
	6H	17.7	18.6	18.2	19.0	19.5	17.2	18.0	17.6	18.5	18.9
	8H	17.8	18.6	18.3	19.1	19.5	17.2	18.0	17.7	18.5	18.9
	12H	17.9	18.6	18.4	19.1	19.5	17.2	18.0	17.7	18.4	18.9
8H	4H	17.5	18.3	17.9	18.7	19.2	17.2	18.0	17.6	18.4	18.9
	6H	17.9	18.6	18.4	19.1	19.6	17.4	18.1	17.9	18.6	19.0
	8H	18.1	18.7	18.6	19.2	19.7	17.5	18.1	18.0	18.6	19.1
	12H	18.2	18.7	18.7	19.2	19.8	17.5	18.1	18.1	18.6	19.1
12H	4H	17.5	18.2	18.0	18.7	19.1	17.2	17.9	17.7	18.4	18.8
	6H	18.0	18.5	18.5	19.0	19.6	17.5	18.0	18.0	18.5	19.0
	8H	18.1	18.7	18.6	19.1	19.7	17.6	18.1	18.1	18.6	19.1

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 1209.575 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.)