



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-L44-835-A-DIM-UNV ALL ON_.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-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	8579
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	69.2
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	8407	8400	8712
55	6979	7519	7795
65	5439	6257	5158
75	4044	4029	2994
85	2597	1982	1600

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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	3739.264	3739.264	3739.264	3739.264	3739.264
2.5	3736.952	3730.016	3726.815	3734.996	3739.442
5.0	3726.637	3717.745	3710.987	3713.121	3717.389
7.5	3704.051	3691.069	3681.821	3679.332	3674.530
10.0	3668.661	3653.723	3636.294	3629.714	3624.201
12.5	3620.644	3604.995	3582.053	3567.470	3555.911
15.0	3557.689	3540.972	3512.696	3492.244	3477.839
17.5	3482.463	3461.478	3430.178	3407.059	3390.519
20.0	3393.365	3370.957	3335.389	3310.314	3291.285
22.5	3291.996	3266.921	3230.286	3205.744	3187.782
25.0	3181.913	3152.570	3112.556	3091.215	3075.209
27.5	3064.361	3031.283	2991.091	2975.619	2963.881
30.0	2941.829	2907.328	2868.737	2857.177	2849.708
32.5	2811.472	2776.616	2741.404	2737.669	2732.689
35.0	2670.801	2638.434	2608.557	2615.848	2615.137
37.5	2520.704	2492.250	2469.842	2484.958	2490.116
40.0	2365.272	2340.196	2325.969	2351.400	2362.782
42.5	2200.948	2182.275	2178.718	2216.242	2237.049
45.0	2031.466	2019.195	2029.866	2080.372	2105.270
47.5	1862.518	1861.273	1881.725	1945.747	1974.024
50.0	1693.748	1704.952	1740.876	1813.968	1832.285
52.5	1528.890	1551.476	1605.539	1676.142	1685.923
55.0	1367.945	1402.268	1473.760	1525.867	1527.823
57.5	1212.691	1255.906	1342.158	1362.077	1318.506
60.0	1062.060	1113.812	1203.977	1159.339	1120.036
62.5	918.188	977.764	1062.416	981.321	926.013
65.0	785.519	851.854	903.605	806.682	744.972
67.5	662.632	732.523	746.039	640.224	587.761
70.0	551.482	622.084	605.367	499.197	455.626
72.5	449.224	514.669	473.054	380.222	348.033
75.0	357.636	407.787	356.391	286.145	264.804
77.5	274.051	306.063	257.334	211.985	199.181
80.0	200.070	216.787	177.840	152.053	144.940
82.5	134.625	137.292	112.573	99.235	93.366
85.0	77.360	71.492	59.043	51.929	47.661
87.5	27.210	22.586	20.629	20.985	20.807
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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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	0.178	0.000	0.178
152.5	0.000	0.000	0.178	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.356	0.178	0.000	0.711	0.178
160.0	0.178	0.000	0.534	0.356	0.178
162.5	0.711	0.178	0.178	0.178	0.534
165.0	0.178	0.178	0.534	0.356	0.711
167.5	0.711	0.178	0.356	0.356	0.178
170.0	0.178	0.178	0.534	0.356	0.356
172.5	0.000	0.178	0.711	0.889	0.000
175.0	0.534	0.000	0.356	0.534	0.711
177.5	0.534	0.356	0.534	0.534	0.178
180.0	0.534	0.534	0.534	0.534	0.534

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1341.95	N.A.	15.60
0-30	2778.8	N.A.	32.40
0-40	4418.95	N.A.	51.50
0-60	7302.37	N.A.	85.10
0-80	8500.61	N.A.	99.10
0-90	8579.19	N.A.	100.00
10-90	8226.86	N.A.	95.90
20-40	3077.00	N.A.	35.90
20-50	4658.52	N.A.	54.30
40-70	3711.89	N.A.	43.30
60-80	1198.24	N.A.	14.00
70-80	369.78	N.A.	4.30
80-90	78.57	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	0.19	N.A.	0.00
110-180	0.19	N.A.	0.00
0-180	8579.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	352.33
10-20	989.61
20-30	1436.86
30-40	1640.15
40-50	1581.52
50-60	1301.9
60-70	828.46
70-80	369.78
80-90	78.57
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	0.05
160-170	0.09
170-180	0.04

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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

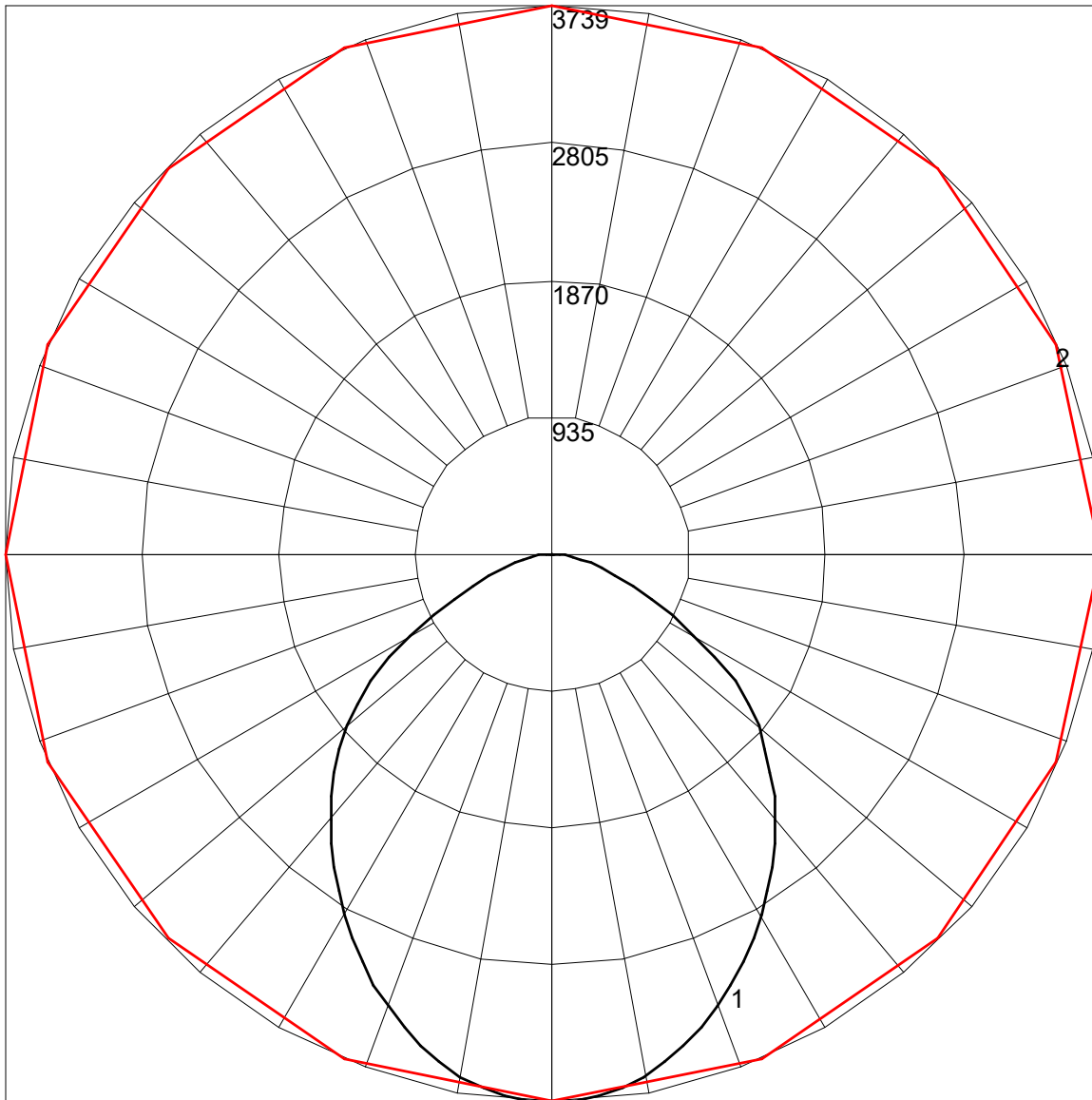
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.5	20.1	18.9	20.4	20.7	19.1	20.6	19.4	20.9	21.2
	3H	19.9	21.3	20.2	21.6	21.9	19.9	21.3	20.3	21.6	22.0
	4H	20.3	21.6	20.7	22.0	22.3	20.1	21.4	20.5	21.8	22.2
	6H	20.6	21.8	21.0	22.2	22.6	20.3	21.5	20.7	21.8	22.2
	8H	20.7	21.8	21.1	22.2	22.6	20.3	21.4	20.7	21.8	22.2
	12H	20.7	21.8	21.1	22.2	22.6	20.3	21.4	20.7	21.8	22.2
4H	2H	19.1	20.4	19.5	20.8	21.1	19.6	20.9	20.0	21.2	21.6
	3H	20.7	21.7	21.1	22.1	22.5	20.6	21.7	21.0	22.1	22.5
	4H	21.2	22.2	21.7	22.6	23.1	20.9	21.9	21.3	22.3	22.7
	6H	21.6	22.5	22.1	22.9	23.4	21.1	21.9	21.5	22.4	22.8
	8H	21.7	22.5	22.2	23.0	23.4	21.1	21.9	21.6	22.4	22.8
	12H	21.8	22.5	22.3	23.0	23.4	21.1	21.9	21.6	22.3	22.8
8H	4H	21.4	22.2	21.8	22.6	23.1	21.1	21.9	21.5	22.3	22.8
	6H	21.8	22.5	22.3	23.0	23.5	21.3	22.0	21.8	22.5	22.9
	8H	22.0	22.6	22.5	23.1	23.6	21.4	22.0	21.9	22.5	23.0
	12H	22.1	22.6	22.6	23.1	23.7	21.4	22.0	22.0	22.5	23.0
12H	4H	21.4	22.1	21.9	22.6	23.0	21.1	21.8	21.6	22.3	22.7
	6H	21.9	22.4	22.4	22.9	23.5	21.4	21.9	21.9	22.4	22.9
	8H	22.0	22.6	22.5	23.0	23.6	21.4	22.0	22.0	22.5	23.0

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 3739.442 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.)