



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-L27-835-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-L27-835-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	6831
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	55
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	6694	6689	6937
55	5557	5987	6207
65	4331	4982	4107
75	3220	3208	2384
85	2068	1578	1274

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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	2977.376	2977.376	2977.376	2977.376	2977.376
2.5	2975.535	2970.013	2967.464	2973.978	2977.518
5.0	2967.322	2960.242	2954.861	2956.560	2959.959
7.5	2949.338	2939.001	2931.638	2929.655	2925.832
10.0	2921.159	2909.264	2895.387	2890.148	2885.758
12.5	2882.926	2870.465	2852.198	2840.586	2831.382
15.0	2832.798	2819.487	2796.972	2780.687	2769.218
17.5	2772.899	2756.190	2731.268	2712.859	2699.690
20.0	2701.955	2684.113	2655.792	2635.826	2620.674
22.5	2621.241	2601.275	2572.104	2552.563	2538.261
25.0	2533.588	2510.223	2478.362	2461.369	2448.625
27.5	2439.987	2413.649	2381.646	2369.326	2359.981
30.0	2342.422	2314.950	2284.222	2275.018	2269.070
32.5	2238.625	2210.871	2182.833	2179.860	2175.895
35.0	2126.616	2100.844	2077.055	2082.861	2082.294
37.5	2007.102	1984.445	1966.603	1978.640	1982.746
40.0	1883.340	1863.374	1852.045	1872.295	1881.357
42.5	1752.497	1737.629	1734.797	1764.675	1781.243
45.0	1617.548	1607.777	1616.274	1656.489	1676.314
47.5	1483.024	1482.033	1498.317	1549.295	1571.810
50.0	1348.641	1357.562	1386.166	1444.366	1458.951
52.5	1217.374	1235.358	1278.405	1334.622	1342.411
55.0	1089.222	1116.551	1173.476	1214.967	1216.524
57.5	965.601	1000.011	1068.689	1084.549	1049.856
60.0	845.662	886.869	958.662	923.120	891.825
62.5	731.104	778.542	845.945	781.374	737.335
65.0	625.467	678.286	719.492	642.318	593.181
67.5	527.618	583.269	594.031	509.776	468.003
70.0	439.116	495.333	482.022	397.484	362.791
72.5	357.693	409.803	376.668	302.750	277.120
75.0	284.767	324.699	283.775	227.842	210.849
77.5	218.213	243.701	204.902	168.793	158.597
80.0	159.305	172.616	141.604	121.072	115.408
82.5	107.195	109.319	89.636	79.015	74.342
85.0	61.598	56.925	47.013	41.349	37.950
87.5	21.665	17.984	16.426	16.709	16.568
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	0.142	0.000	0.142
152.5	0.000	0.000	0.142	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.283	0.142	0.000	0.566	0.142
160.0	0.142	0.000	0.425	0.283	0.142
162.5	0.566	0.142	0.142	0.142	0.425
165.0	0.142	0.142	0.425	0.283	0.566
167.5	0.566	0.142	0.283	0.283	0.142
170.0	0.142	0.142	0.425	0.283	0.283
172.5	0.000	0.142	0.566	0.708	0.000
175.0	0.425	0.000	0.283	0.425	0.566
177.5	0.425	0.283	0.425	0.425	0.142
180.0	0.425	0.425	0.425	0.425	0.425

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1068.52	N.A.	15.60
0-30	2212.61	N.A.	32.40
0-40	3518.57	N.A.	51.50
0-60	5814.49	N.A.	85.10
0-80	6768.59	N.A.	99.10
0-90	6831.15	N.A.	100.00
10-90	6550.61	N.A.	95.90
20-40	2450.05	N.A.	35.90
20-50	3709.33	N.A.	54.30
40-70	2955.58	N.A.	43.30
60-80	954.10	N.A.	14.00
70-80	294.44	N.A.	4.30
80-90	62.57	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	0.15	N.A.	0.00
110-180	0.15	N.A.	0.00
0-180	6831.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	280.54
10-20	787.98
20-30	1144.09
30-40	1305.96
40-50	1259.28
50-60	1036.64
60-70	659.66
70-80	294.44
80-90	62.57
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	0.04
160-170	0.07
170-180	0.03

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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

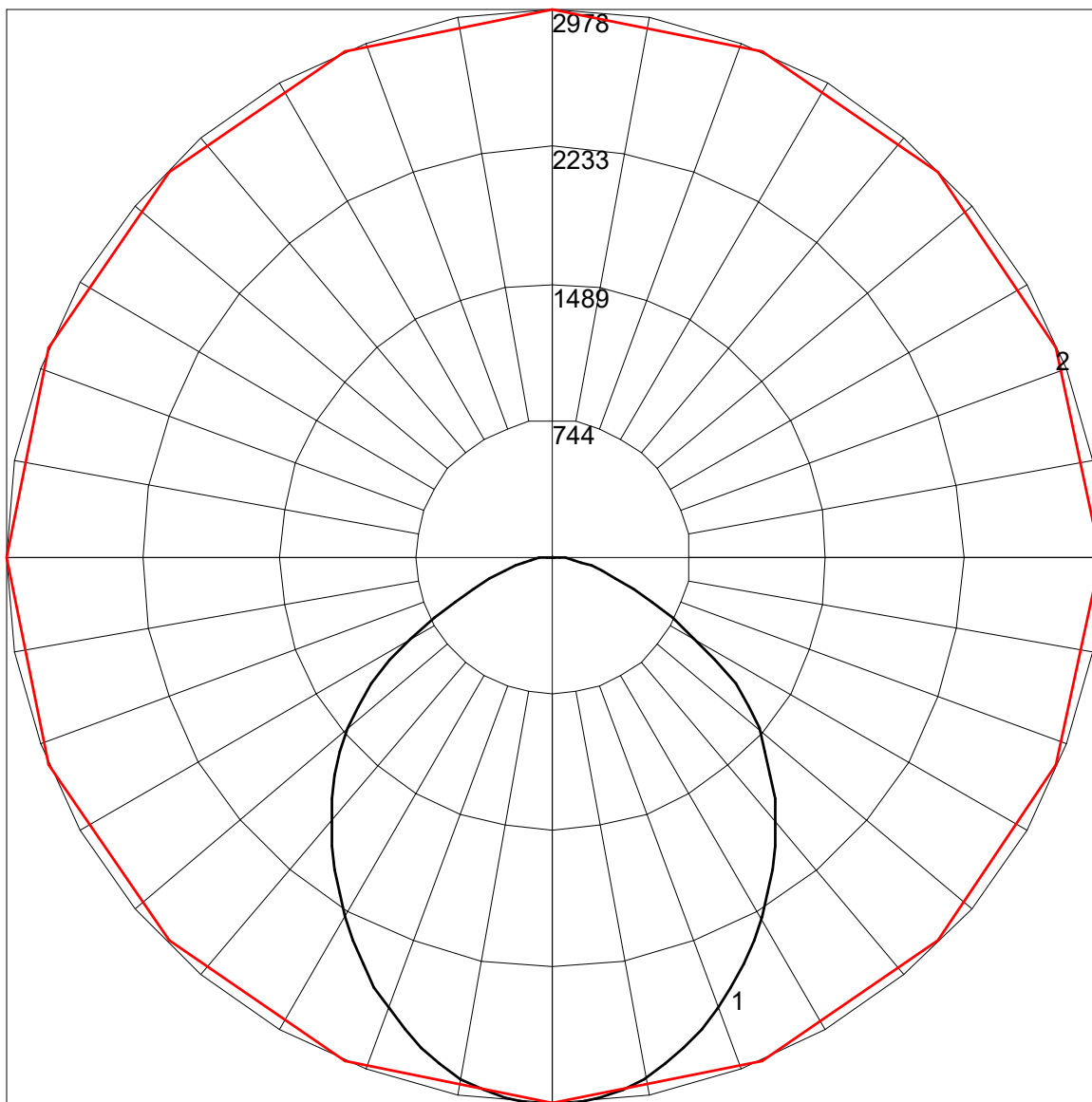
Reflectances

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	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
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 = 2977.518 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.)