



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-L27-8TW-A-DALI-UNV 4000K ALL ON_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN from Intertek
 [ISSUEDATE] 25-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2X2' LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD2AEG-L27-8TW-A-DALI-UNV 4000k ALL ON
 [_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	6791
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	67.8
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	6655	6650	6897
55	5525	5952	6170
65	4306	4953	4083
75	3201	3190	2370
85	2056	1569	1267

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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	2959.941	2959.941	2959.941	2959.941	2959.941
2.5	2958.111	2952.621	2950.087	2956.563	2960.082
5.0	2949.946	2942.908	2937.558	2939.247	2942.626
7.5	2932.068	2921.791	2914.471	2912.500	2908.699
10.0	2904.054	2892.229	2878.433	2873.224	2868.860
12.5	2866.044	2853.656	2835.496	2823.952	2814.802
15.0	2816.210	2802.977	2780.594	2764.405	2753.002
17.5	2756.662	2740.050	2715.274	2696.973	2683.881
20.0	2686.133	2668.396	2640.241	2620.391	2605.328
22.5	2605.892	2586.042	2557.043	2537.616	2523.397
25.0	2518.752	2495.524	2463.849	2446.956	2434.286
27.5	2425.699	2399.515	2367.700	2355.452	2346.161
30.0	2328.705	2301.395	2270.846	2261.696	2255.783
32.5	2225.517	2197.925	2170.051	2167.095	2163.153
35.0	2114.163	2088.542	2064.892	2070.664	2070.101
37.5	1995.349	1972.825	1955.087	1967.053	1971.136
40.0	1872.311	1852.462	1841.200	1861.331	1870.341
42.5	1742.235	1727.454	1724.638	1754.342	1770.812
45.0	1608.076	1598.363	1606.809	1646.789	1666.498
47.5	1474.340	1473.354	1489.543	1540.223	1562.606
50.0	1340.744	1349.613	1378.049	1435.908	1450.408
52.5	1210.245	1228.124	1270.919	1326.807	1334.550
55.0	1082.844	1110.013	1166.605	1207.852	1209.401
57.5	959.947	994.155	1062.431	1078.198	1043.708
60.0	840.710	881.676	953.049	917.714	886.603
62.5	726.823	773.983	840.992	776.798	733.017
65.0	621.804	674.314	715.279	638.557	589.708
67.5	524.529	579.853	590.552	506.791	465.262
70.0	436.544	492.432	479.199	395.156	360.666
72.5	355.598	407.404	374.462	300.978	275.497
75.0	283.099	322.798	282.114	226.507	209.614
77.5	216.935	242.274	203.702	167.804	157.668
80.0	158.372	171.605	140.775	120.363	114.732
82.5	106.567	108.679	89.111	78.553	73.907
85.0	61.237	56.592	46.737	41.106	37.728
87.5	21.539	17.878	16.330	16.611	16.471
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	0.141	0.000	0.141
152.5	0.000	0.000	0.141	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.282	0.141	0.000	0.563	0.141
160.0	0.141	0.000	0.422	0.282	0.141
162.5	0.563	0.141	0.141	0.141	0.422
165.0	0.141	0.141	0.422	0.282	0.563
167.5	0.563	0.141	0.282	0.282	0.141
170.0	0.141	0.141	0.422	0.282	0.282
172.5	0.000	0.141	0.563	0.704	0.000
175.0	0.422	0.000	0.282	0.422	0.563
177.5	0.422	0.282	0.422	0.422	0.141
180.0	0.422	0.422	0.422	0.422	0.422

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Zone	Lumens	%Lamp	%Fixt
0-20	1062.26	N.A.	15.60
0-30	2199.66	N.A.	32.40
0-40	3497.97	N.A.	51.50
0-60	5780.44	N.A.	85.10
0-80	6728.95	N.A.	99.10
0-90	6791.15	N.A.	100.00
10-90	6512.25	N.A.	95.90
20-40	2435.71	N.A.	35.90
20-50	3687.61	N.A.	54.30
40-70	2938.27	N.A.	43.30
60-80	948.51	N.A.	14.00
70-80	292.71	N.A.	4.30
80-90	62.20	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	6791.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	278.90
10-20	783.36
20-30	1137.39
30-40	1298.31
40-50	1251.91
50-60	1030.57
60-70	655.80
70-80	292.71
80-90	62.20
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	122	122	122	122	119	119	119	119	114	114	114	109	109	109	104	104	104	102
1	112	108	104	100	110	106	102	99	101	98	96	97	95	93	94	92	90	88
2	103	95	89	84	100	93	88	83	90	85	81	87	82	79	83	80	77	75
3	95	85	77	71	92	83	76	70	80	74	69	77	72	68	75	70	66	64
4	87	75	67	61	85	74	66	60	72	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	52	65	57	52	63	56	51	61	55	51	49
6	74	61	53	46	72	60	52	46	59	51	46	57	50	45	55	50	45	43
7	69	56	47	41	67	55	47	41	54	46	41	52	46	41	51	45	40	38
8	64	51	43	37	63	50	43	37	49	42	37	48	41	37	47	41	36	34
9	60	47	39	34	59	47	39	33	45	38	33	44	38	33	43	37	33	31
10	57	44	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	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	17.6	19.2	18.0	19.5	19.8	18.2	19.7	18.5	20.0	20.3
	3H	19.0	20.4	19.3	20.7	21.0	19.0	20.4	19.4	20.7	21.1
	4H	19.4	20.7	19.8	21.1	21.4	19.2	20.5	19.6	20.9	21.3
	6H	19.7	20.9	20.1	21.3	21.7	19.4	20.6	19.8	20.9	21.3
	8H	19.8	20.9	20.2	21.3	21.7	19.4	20.5	19.8	20.9	21.3
	12H	19.8	20.9	20.2	21.3	21.7	19.4	20.5	19.8	20.9	21.3

UGR Viewed Endwise

4H	2H	18.2	19.5	18.6	19.9	20.2	18.7	20.0	19.1	20.3	20.7
	3H	19.8	20.8	20.2	21.2	21.6	19.7	20.8	20.1	21.2	21.6
	4H	20.3	21.3	20.8	21.7	22.2	20.0	21.0	20.4	21.4	21.8
	6H	20.7	21.6	21.2	22.0	22.5	20.2	21.0	20.6	21.5	21.9
	8H	20.8	21.6	21.3	22.1	22.5	20.2	21.0	20.7	21.5	21.9
	12H	20.9	21.6	21.4	22.1	22.5	20.2	21.0	20.7	21.4	21.9

8H	4H	20.5	21.3	20.9	21.7	22.2	20.2	21.0	20.6	21.4	21.9
	6H	20.9	21.6	21.4	22.1	22.6	20.4	21.1	20.9	21.6	22.0
	8H	21.1	21.7	21.6	22.2	22.7	20.5	21.1	21.0	21.6	22.1
	12H	21.2	21.7	21.7	22.2	22.8	20.5	21.1	21.1	21.6	22.1

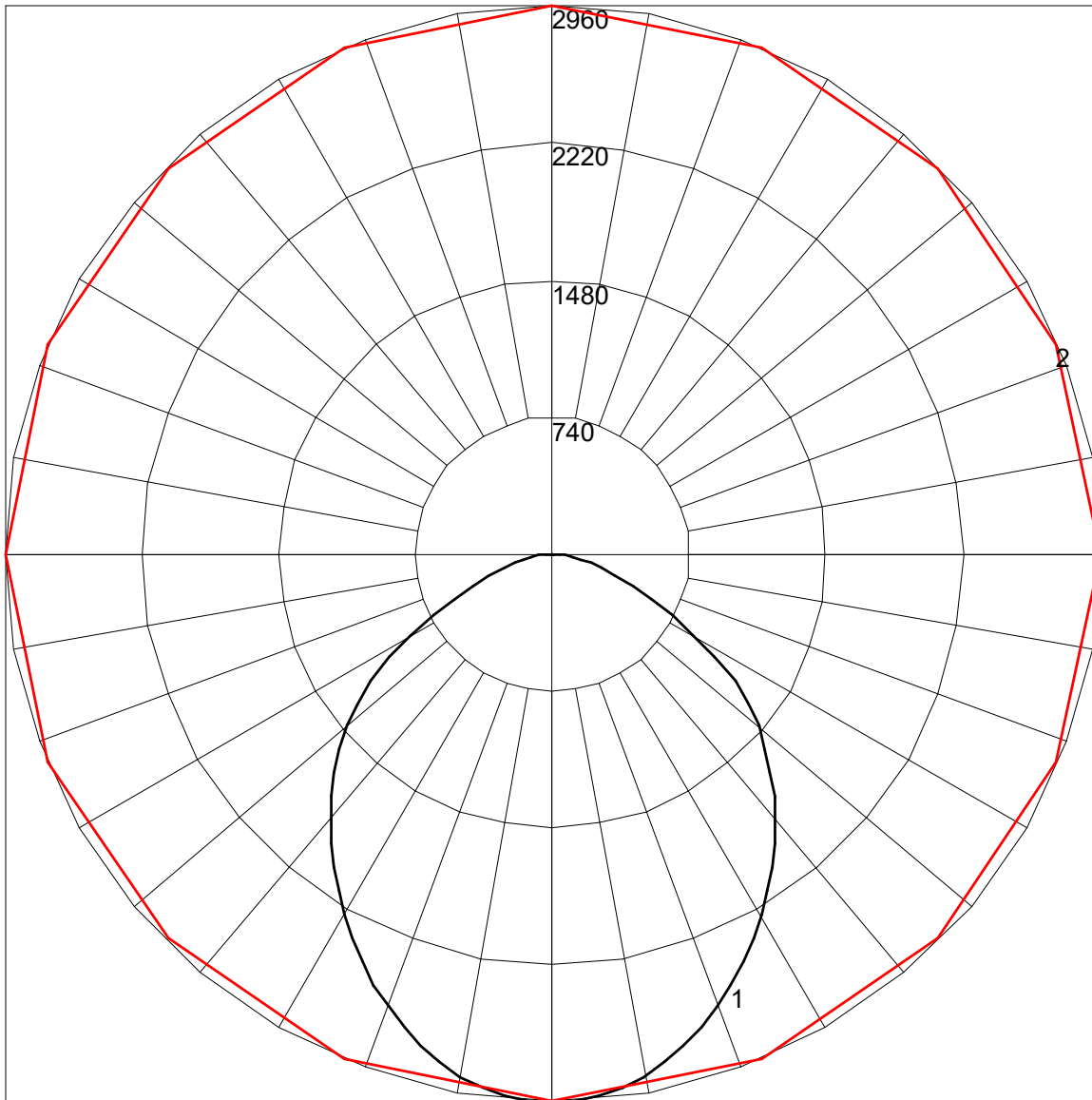
12H	4H	20.5	21.2	21.0	21.7	22.1	20.2	20.9	20.7	21.4	21.8
	6H	21.0	21.5	21.5	22.0	22.6	20.5	21.0	21.0	21.5	22.0
	8H	21.1	21.7	21.6	22.1	22.7	20.5	21.1	21.1	21.6	22.1

Maximum UGR = 22.8

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POLAR GRAPH



Maximum Candela = 2960.082 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.)