



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-L44-8TW-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-L44-8TW-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	8538
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	82.4
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	8367	8360	8671
55	6946	7483	7757
65	5413	6227	5134
75	4024	4010	2980
85	2585	1973	1593

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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	3721.392	3721.392	3721.392	3721.392	3721.392
2.5	3719.091	3712.188	3709.002	3717.144	3721.569
5.0	3708.825	3699.976	3693.250	3695.374	3699.622
7.5	3686.348	3673.427	3664.224	3661.746	3656.967
10.0	3651.127	3636.259	3618.914	3612.366	3606.879
12.5	3603.339	3587.764	3564.933	3550.419	3538.915
15.0	3540.685	3524.048	3495.906	3475.553	3461.216
17.5	3465.818	3444.933	3413.783	3390.774	3374.314
20.0	3377.146	3354.845	3319.447	3294.492	3275.554
22.5	3276.262	3251.306	3214.846	3190.422	3172.546
25.0	3166.705	3137.502	3097.679	3076.440	3060.511
27.5	3049.715	3016.794	2976.795	2961.397	2949.715
30.0	2927.769	2893.432	2855.026	2843.521	2836.088
32.5	2798.035	2763.345	2728.301	2724.584	2719.628
35.0	2658.036	2625.824	2596.089	2603.346	2602.638
37.5	2508.656	2480.338	2458.037	2473.081	2478.214
40.0	2353.967	2329.011	2314.852	2340.162	2351.489
42.5	2190.428	2171.844	2168.304	2205.649	2226.357
45.0	2021.757	2009.544	2020.164	2070.429	2095.208
47.5	1853.616	1852.377	1872.731	1936.448	1964.589
50.0	1685.653	1696.803	1732.555	1805.298	1823.528
52.5	1521.583	1544.061	1597.866	1668.131	1677.865
55.0	1361.407	1395.566	1466.716	1518.574	1520.521
57.5	1206.895	1249.903	1335.744	1355.566	1312.204
60.0	1056.984	1108.488	1198.222	1153.798	1114.683
62.5	913.799	973.091	1057.338	976.631	921.587
65.0	781.765	847.782	899.286	802.827	741.411
67.5	659.465	729.022	742.473	637.164	584.952
70.0	548.846	619.111	602.474	496.811	453.448
72.5	447.077	512.209	470.793	378.405	346.369
75.0	355.927	405.838	354.688	284.777	263.538
77.5	272.742	304.600	256.105	210.972	198.229
80.0	199.114	215.751	176.990	151.326	144.247
82.5	133.981	136.636	112.035	98.760	92.920
85.0	76.991	71.150	58.761	51.681	47.433
87.5	27.079	22.478	20.531	20.885	20.708
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	0.177	0.000	0.177
152.5	0.000	0.000	0.177	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.354	0.177	0.000	0.708	0.177
160.0	0.177	0.000	0.531	0.354	0.177
162.5	0.708	0.177	0.177	0.177	0.531
165.0	0.177	0.177	0.531	0.354	0.708
167.5	0.708	0.177	0.354	0.354	0.177
170.0	0.177	0.177	0.531	0.354	0.354
172.5	0.000	0.177	0.708	0.885	0.000
175.0	0.531	0.000	0.354	0.531	0.708
177.5	0.531	0.354	0.531	0.531	0.177
180.0	0.531	0.531	0.531	0.531	0.531

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Zone	Lumens	%Lamp	%Fixt
0-20	1335.53	N.A.	15.60
0-30	2765.52	N.A.	32.40
0-40	4397.83	N.A.	51.50
0-60	7267.47	N.A.	85.10
0-80	8459.99	N.A.	99.10
0-90	8538.18	N.A.	100.00
10-90	8187.54	N.A.	95.90
20-40	3062.29	N.A.	35.90
20-50	4636.25	N.A.	54.30
40-70	3694.14	N.A.	43.30
60-80	1192.52	N.A.	14.00
70-80	368.01	N.A.	4.30
80-90	78.20	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	0.19	N.A.	0.00
110-180	0.19	N.A.	0.00
0-180	8538.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	350.65
10-20	984.89
20-30	1429.99
30-40	1632.31
40-50	1573.96
50-60	1295.68
60-70	824.50
70-80	368.01
80-90	78.20
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	0.05
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	129	129	129	129	126	126	126	126	121	121	121	116	116	116	111	111	111	109
1	119	115	111	107	117	112	109	105	108	105	102	104	101	99	100	98	96	94
2	109	101	95	89	107	99	93	88	95	90	86	92	88	84	89	85	82	80
3	100	90	82	75	98	88	81	74	85	78	73	82	77	72	79	75	71	68
4	92	80	71	64	90	79	70	64	76	69	63	74	67	62	71	66	61	59
5	85	72	63	56	83	71	62	56	69	61	55	67	60	55	65	59	54	52
6	79	65	56	49	77	64	56	49	62	55	49	61	54	48	59	53	48	46
7	73	59	50	44	72	59	50	44	57	49	43	55	48	43	54	48	43	41
8	69	54	46	39	67	54	45	39	52	45	39	51	44	39	50	43	39	37
9	64	50	41	36	63	49	41	36	48	41	35	47	40	35	46	40	35	33
10	60	46	38	33	59	46	38	32	45	37	32	44	37	32	43	37	32	30

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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	18.2	19.8	18.6	20.1	20.4	18.8	20.3	19.1	20.6	20.9
	3H	19.6	21.0	19.9	21.3	21.6	19.6	21.0	20.0	21.3	21.7
	4H	20.0	21.3	20.4	21.7	22.0	19.8	21.1	20.2	21.5	21.9
	6H	20.3	21.5	20.7	21.9	22.3	20.0	21.2	20.4	21.5	21.9
	8H	20.4	21.5	20.8	21.9	22.3	20.0	21.1	20.4	21.5	21.9
	12H	20.4	21.5	20.8	21.9	22.3	20.0	21.1	20.4	21.5	21.9

UGR Viewed Endwise

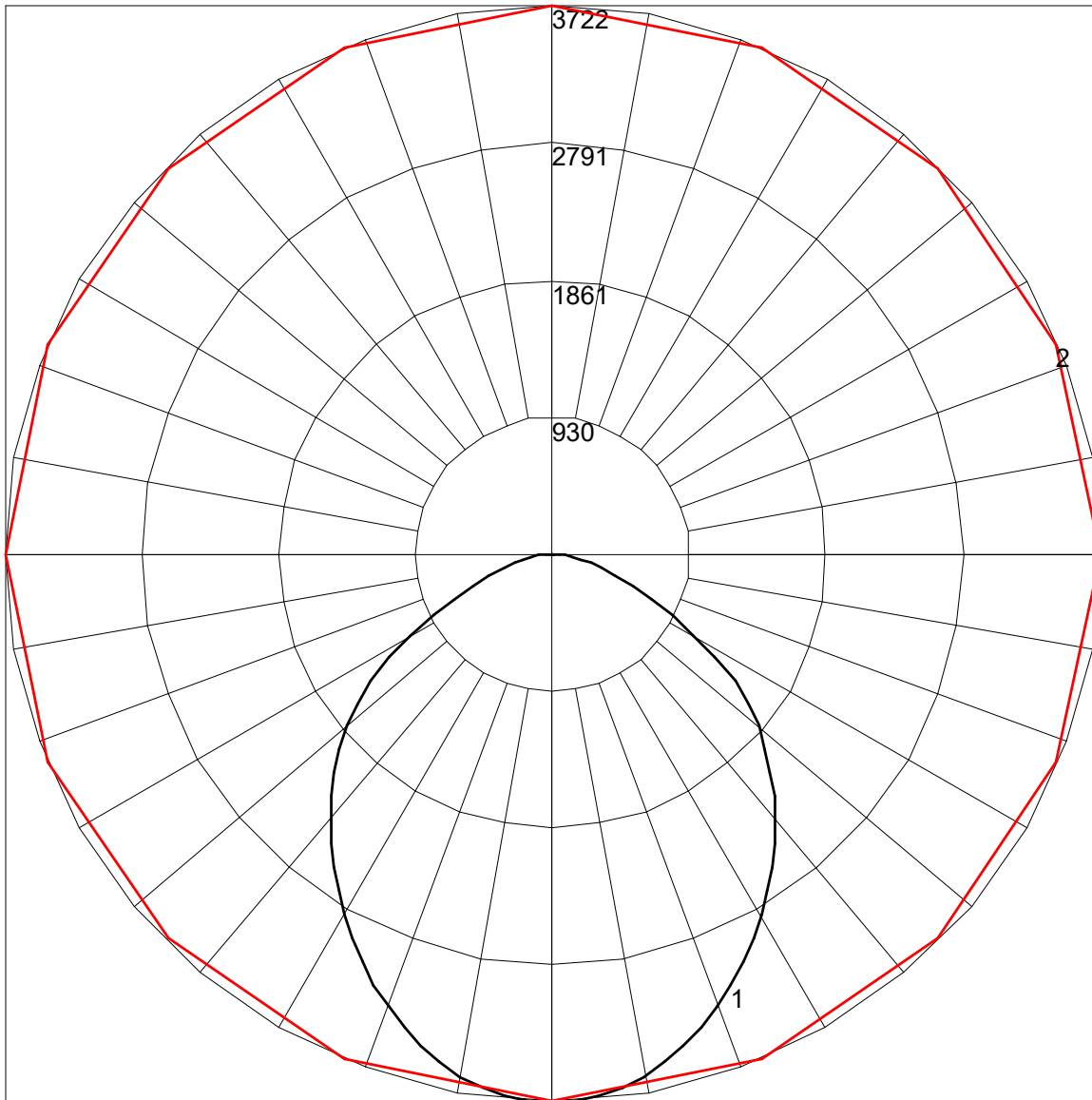
4H	2H	18.8	20.1	19.2	20.5	20.8	19.3	20.6	19.7	20.9	21.3
	3H	20.4	21.4	20.8	21.8	22.2	20.3	21.4	20.7	21.8	22.2
	4H	20.9	21.9	21.4	22.3	22.8	20.6	21.6	21.0	22.0	22.4
	6H	21.3	22.2	21.8	22.6	23.1	20.8	21.6	21.2	22.1	22.5
	8H	21.4	22.2	21.9	22.7	23.1	20.8	21.6	21.3	22.1	22.5
	12H	21.5	22.2	22.0	22.7	23.1	20.8	21.6	21.3	22.0	22.5
8H	4H	21.1	21.9	21.5	22.3	22.8	20.8	21.6	21.2	22.0	22.5
	6H	21.5	22.2	22.0	22.7	23.2	21.0	21.7	21.5	22.2	22.6
	8H	21.7	22.3	22.2	22.8	23.3	21.1	21.7	21.6	22.2	22.7
	12H	21.8	22.3	22.3	22.8	23.4	21.1	21.7	21.7	22.2	22.7
12H	4H	21.1	21.8	21.6	22.3	22.7	20.8	21.5	21.3	22.0	22.4
	6H	21.6	22.1	22.1	22.6	23.2	21.1	21.6	21.6	22.1	22.6
	8H	21.7	22.3	22.2	22.7	23.3	21.1	21.7	21.7	22.2	22.7

Maximum UGR = 23.4

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POLAR GRAPH



Maximum Candela = 3721.569 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.)