



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-P43-8TW-A-POE 4000K AMBIENT ONLY\_.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-P31-8TW-A-PoE 4000k AMBIENT ONLY  
 [ \_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	4336
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	37.8
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	4249	4246	4403
55	3527	3800	3940
65	2749	3162	2607
75	2044	2037	1513
85	1313	1002	809

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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	1889.899	1889.899	1889.899	1889.899	1889.899
2.5	1888.731	1885.225	1883.607	1887.742	1889.989
5.0	1883.517	1879.023	1875.608	1876.686	1878.843
7.5	1872.102	1865.541	1860.867	1859.608	1857.181
10.0	1854.215	1846.665	1837.856	1834.531	1831.744
12.5	1829.947	1822.037	1810.442	1803.071	1797.229
15.0	1798.128	1789.679	1775.387	1765.050	1757.770
17.5	1760.107	1749.500	1733.681	1721.996	1713.637
20.0	1715.075	1703.750	1685.773	1673.099	1663.482
22.5	1663.841	1651.167	1632.651	1620.247	1611.169
25.0	1608.203	1593.372	1573.148	1562.362	1554.273
27.5	1548.790	1532.071	1511.758	1503.938	1498.005
30.0	1486.860	1469.422	1449.917	1444.075	1440.300
32.5	1420.975	1403.358	1385.560	1383.673	1381.156
35.0	1349.877	1333.518	1318.417	1322.102	1321.743
37.5	1274.015	1259.633	1248.308	1255.948	1258.555
40.0	1195.456	1182.782	1175.592	1188.445	1194.198
42.5	1112.403	1102.965	1101.168	1120.133	1130.650
45.0	1026.744	1020.542	1025.935	1051.462	1064.046
47.5	941.354	940.725	951.062	983.420	997.711
50.0	856.054	861.717	879.874	916.816	926.074
52.5	772.732	784.147	811.472	847.156	852.099
55.0	691.387	708.735	744.868	771.204	772.193
57.5	612.918	634.760	678.354	688.421	666.399
60.0	536.787	562.943	608.514	585.953	566.089
62.5	464.071	494.182	536.966	495.979	468.026
65.0	397.017	430.544	456.700	407.713	376.524
67.5	334.907	370.232	377.063	323.582	297.066
70.0	278.730	314.414	305.965	252.304	230.283
72.5	227.047	260.124	239.091	192.172	175.903
75.0	180.757	206.104	180.127	144.623	133.837
77.5	138.511	154.690	130.062	107.142	100.670
80.0	101.119	109.568	89.884	76.851	73.255
82.5	68.042	69.390	56.897	50.155	47.189
85.0	39.100	36.133	29.841	26.246	24.089
87.5	13.752	11.415	10.427	10.606	10.516
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	0.090	0.000	0.090
152.5	0.000	0.000	0.090	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.180	0.090	0.000	0.360	0.090
160.0	0.090	0.000	0.270	0.180	0.090
162.5	0.360	0.090	0.090	0.090	0.270
165.0	0.090	0.090	0.270	0.180	0.360
167.5	0.360	0.090	0.180	0.180	0.090
170.0	0.090	0.090	0.270	0.180	0.180
172.5	0.000	0.090	0.360	0.449	0.000
175.0	0.270	0.000	0.180	0.270	0.360
177.5	0.270	0.180	0.270	0.270	0.090
180.0	0.270	0.270	0.270	0.270	0.270

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AMD2AEG-P43-8TW-A-POE 4000K AMBIENT ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	678.25	N.A.	15.60
0-30	1404.46	N.A.	32.40
0-40	2233.43	N.A.	51.50
0-60	3690.77	N.A.	85.10
0-80	4296.38	N.A.	99.10
0-90	4336.09	N.A.	100.00
10-90	4158.02	N.A.	95.90
20-40	1555.18	N.A.	35.90
20-50	2354.51	N.A.	54.30
40-70	1876.06	N.A.	43.30
60-80	605.62	N.A.	14.00
70-80	186.89	N.A.	4.30
80-90	39.71	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	0.10	N.A.	0.00
110-180	0.10	N.A.	0.00
0-180	4336.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	178.08
10-20	500.17
20-30	726.22
30-40	828.96
40-50	799.33
50-60	658.01
60-70	418.72
70-80	186.89
80-90	39.71
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	0.03
160-170	0.05
170-180	0.02

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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	186	186	186	186	182	182	182	182	174	174	174	166	166	166	159	159	159	156
1	172	165	159	154	168	162	156	151	155	151	146	149	145	142	143	141	138	135
2	158	146	136	128	154	143	134	126	137	130	123	132	126	121	128	123	118	115
3	145	129	117	108	141	127	116	107	122	113	105	118	110	103	114	107	102	98
4	133	115	103	93	130	113	101	92	110	99	91	106	97	90	103	95	88	85
5	123	104	90	81	120	102	90	80	99	88	79	96	86	79	93	85	78	75
6	114	94	81	71	111	92	80	71	90	78	70	87	77	70	85	76	69	66
7	106	85	72	63	103	84	72	63	82	71	63	80	70	62	78	69	62	59
8	99	78	66	57	96	77	65	57	75	64	56	73	63	56	71	62	56	53
9	92	72	60	51	90	71	59	51	69	59	51	68	58	51	66	57	50	48
10	87	67	55	47	85	66	54	47	64	54	46	63	53	46	62	53	46	43

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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

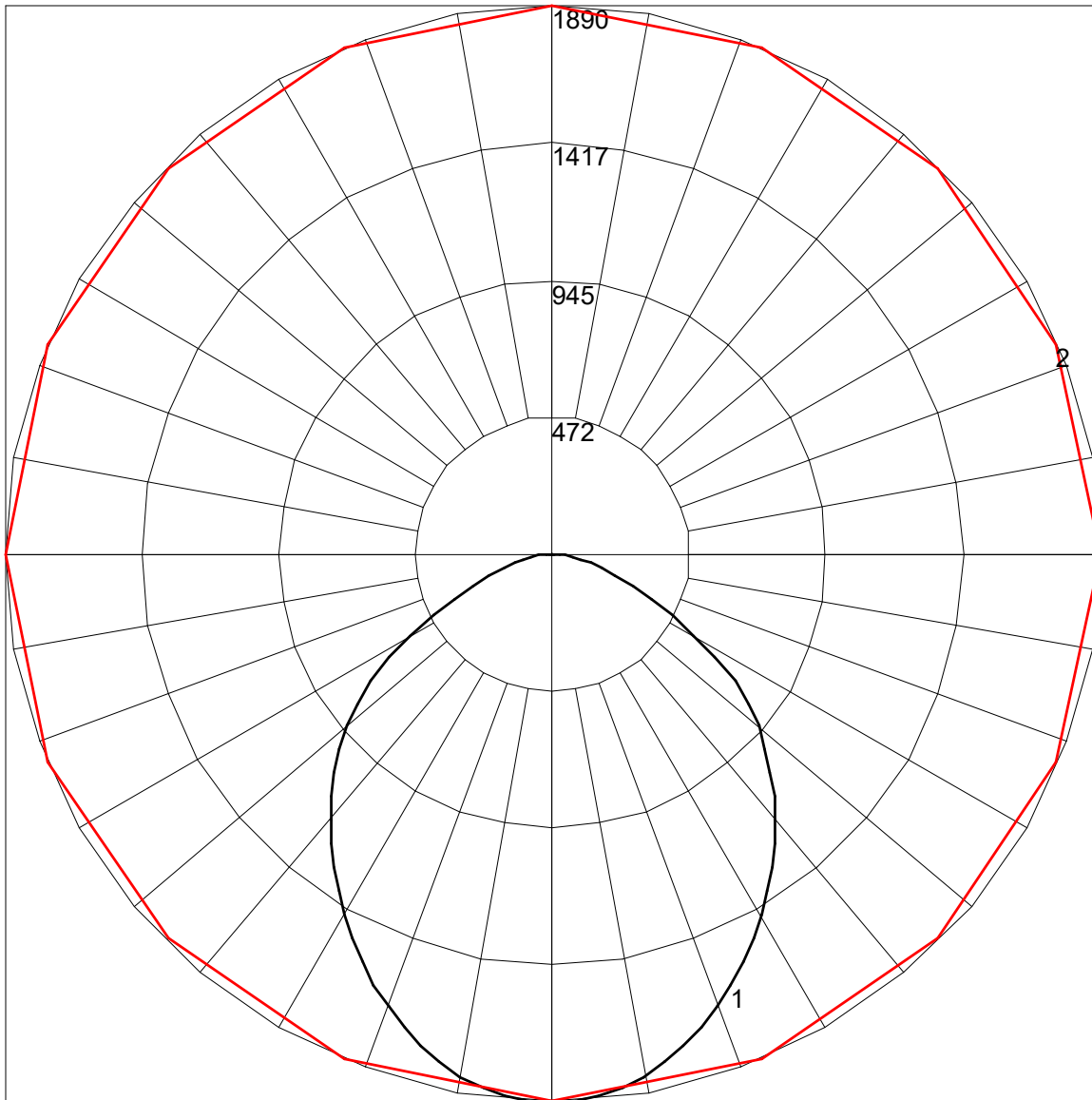
X=2H	Y=2H	14.6	16.2	15.0	16.5	16.8	15.2	16.7	15.5	17.0	17.3
	3H	16.0	17.4	16.3	17.7	18.0	16.0	17.4	16.4	17.7	18.1
	4H	16.4	17.7	16.8	18.1	18.4	16.2	17.5	16.6	17.9	18.3
	6H	16.7	17.9	17.1	18.3	18.7	16.4	17.6	16.8	17.9	18.3
	8H	16.8	17.9	17.2	18.3	18.7	16.4	17.5	16.8	17.9	18.3
	12H	16.8	17.9	17.2	18.3	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 = 1889.989 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.)