



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-P31-8TW-A-POE 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-P31-8TW-A-PoE 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	6647
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	59.6
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	6514	6509	6750
55	5407	5826	6039
65	4214	4848	3997
75	3133	3122	2320
85	2012	1536	1240

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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	2897.177	2897.177	2897.177	2897.177	2897.177
2.5	2895.386	2890.012	2887.531	2893.870	2897.315
5.0	2887.394	2880.504	2875.268	2876.922	2880.229
7.5	2869.894	2859.836	2852.671	2850.742	2847.021
10.0	2842.474	2830.900	2817.396	2812.298	2808.027
12.5	2805.271	2793.145	2775.370	2764.071	2755.115
15.0	2756.493	2743.541	2721.632	2705.786	2694.625
17.5	2698.208	2681.949	2657.697	2639.785	2626.970
20.0	2629.175	2611.813	2584.255	2564.827	2550.083
22.5	2550.634	2531.206	2502.821	2483.806	2469.889
25.0	2465.342	2442.607	2411.604	2395.069	2382.668
27.5	2374.263	2348.634	2317.493	2305.506	2296.412
30.0	2279.326	2252.594	2222.694	2213.737	2207.950
32.5	2178.325	2151.318	2124.036	2121.142	2117.284
35.0	2069.333	2044.255	2021.107	2026.756	2026.205
37.5	1953.038	1930.992	1913.630	1925.343	1929.338
40.0	1832.610	1813.181	1802.158	1821.862	1830.681
42.5	1705.292	1690.824	1688.068	1717.142	1733.263
45.0	1573.977	1564.470	1572.737	1611.870	1631.160
47.5	1443.077	1442.112	1457.958	1507.563	1529.471
50.0	1312.314	1320.995	1348.828	1405.460	1419.652
52.5	1184.582	1202.082	1243.970	1298.673	1306.251
55.0	1059.882	1086.476	1141.867	1182.240	1183.756
57.5	939.591	973.074	1039.903	1055.335	1021.577
60.0	822.883	862.980	932.840	898.254	867.803
62.5	711.411	757.571	823.159	760.326	717.474
65.0	608.619	660.015	700.112	625.016	577.203
67.5	513.406	567.558	578.030	496.045	455.397
70.0	427.287	481.990	469.038	386.777	353.019
72.5	348.058	398.765	366.522	294.595	269.655
75.0	277.096	315.953	276.132	221.704	205.170
77.5	212.335	237.137	199.382	164.246	154.325
80.0	155.014	167.966	137.790	117.811	112.299
82.5	104.307	106.374	87.221	76.887	72.340
85.0	59.939	55.392	45.746	40.235	36.928
87.5	21.082	17.499	15.984	16.259	16.121
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	0.138	0.000	0.138
152.5	0.000	0.000	0.138	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.276	0.138	0.000	0.551	0.138
160.0	0.138	0.000	0.413	0.276	0.138
162.5	0.551	0.138	0.138	0.138	0.413
165.0	0.138	0.138	0.413	0.276	0.551
167.5	0.551	0.138	0.276	0.276	0.138
170.0	0.138	0.138	0.413	0.276	0.276
172.5	0.000	0.138	0.551	0.689	0.000
175.0	0.413	0.000	0.276	0.413	0.551
177.5	0.413	0.276	0.413	0.413	0.138
180.0	0.413	0.413	0.413	0.413	0.413

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AMD2AEG-P31-8TW-A-POE 4000K ALL ON\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1039.74	N.A.	15.60
0-30	2153.01	N.A.	32.40
0-40	3423.8	N.A.	51.50
0-60	5657.87	N.A.	85.10
0-80	6586.27	N.A.	99.10
0-90	6647.14	N.A.	100.00
10-90	6374.16	N.A.	95.90
20-40	2384.06	N.A.	35.90
20-50	3609.42	N.A.	54.30
40-70	2875.96	N.A.	43.30
60-80	928.40	N.A.	14.00
70-80	286.51	N.A.	4.30
80-90	60.88	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	6647.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	272.99
10-20	766.75
20-30	1113.27
30-40	1270.78
40-50	1225.36
50-60	1008.71
60-70	641.89
70-80	286.51
80-90	60.88
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	116	116	116	116	113	113	113	113	108	108	108	104	104	104	99	99	99	97
1	107	103	99	96	104	101	97	94	97	94	91	93	91	88	89	87	86	84
2	98	91	85	80	96	89	83	79	86	81	77	82	79	75	80	76	73	71
3	90	80	73	67	88	79	72	67	76	70	65	74	69	64	71	67	63	61
4	83	72	64	58	81	71	63	57	68	62	57	66	60	56	64	59	55	53
5	76	65	56	50	74	64	56	50	62	55	49	60	54	49	58	53	48	46
6	71	58	50	44	69	58	50	44	56	49	44	54	48	43	53	47	43	41
7	66	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	38	37
8	61	49	41	35	60	48	41	35	47	40	35	46	39	35	45	39	35	33
9	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30
10	54	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	29	27

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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	17.7	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

### UGR Viewed Endwise

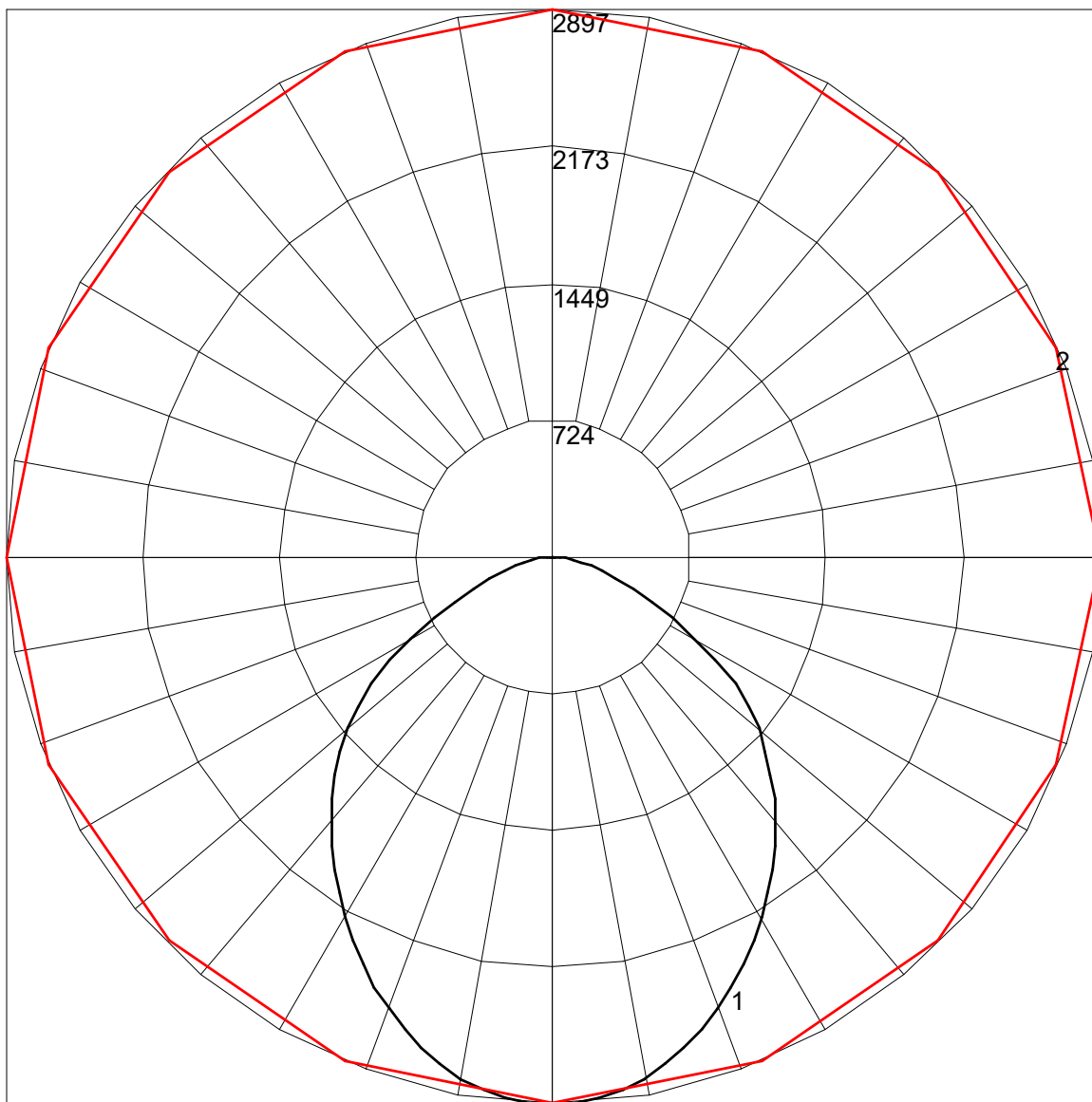
4H	2H	18.3	19.6	18.7	20.0	20.4	18.8	20.1	19.2	20.4	20.8
	3H	19.9	20.9	20.3	21.3	21.8	19.8	20.9	20.2	21.3	21.7
	4H	20.4	21.4	20.9	21.8	22.3	20.1	21.1	20.5	21.5	21.9
	6H	20.8	21.7	21.3	22.1	22.6	20.3	21.1	20.7	21.6	22.0
	8H	20.9	21.7	21.4	22.2	22.6	20.3	21.1	20.8	21.6	22.0
	12H	21.0	21.7	21.5	22.2	22.6	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 = 2897.315 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.)