



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-P31-8TW-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	3123
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	27.6
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	3060	3058	3172
55	2541	2737	2838
65	1980	2278	1878
75	1472	1467	1090
85	946	722	583

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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	1361.198	1361.198	1361.198	1361.198	1361.198
2.5	1360.356	1357.832	1356.666	1359.644	1361.263
5.0	1356.602	1353.365	1350.905	1351.681	1353.235
7.5	1348.380	1343.654	1340.287	1339.381	1337.633
10.0	1335.497	1330.059	1323.714	1321.319	1319.312
12.5	1318.017	1312.320	1303.969	1298.660	1294.452
15.0	1295.100	1289.014	1278.721	1271.276	1266.032
17.5	1267.715	1260.076	1248.682	1240.266	1234.245
20.0	1235.281	1227.124	1214.176	1205.048	1198.121
22.5	1198.380	1189.252	1175.916	1166.982	1160.443
25.0	1158.307	1147.625	1133.058	1125.290	1119.463
27.5	1115.514	1103.473	1088.842	1083.210	1078.937
30.0	1070.909	1058.350	1044.302	1040.094	1037.375
32.5	1023.456	1010.767	997.949	996.589	994.776
35.0	972.247	960.465	949.589	952.243	951.984
37.5	917.608	907.250	899.092	904.595	906.473
40.0	861.026	851.898	846.719	855.976	860.120
42.5	801.207	794.410	793.115	806.775	814.349
45.0	739.511	735.044	738.929	757.314	766.378
47.5	678.009	677.556	685.001	708.307	718.601
50.0	616.572	620.651	633.728	660.336	667.004
52.5	556.559	564.781	584.462	610.163	613.724
55.0	497.971	510.465	536.490	555.459	556.171
57.5	441.454	457.185	488.584	495.834	479.973
60.0	386.620	405.459	438.282	422.032	407.725
62.5	334.246	355.934	386.750	357.229	337.095
65.0	285.951	310.099	328.938	293.655	271.191
67.5	241.217	266.659	271.579	233.060	213.962
70.0	200.755	226.456	220.371	181.722	165.861
72.5	163.530	187.354	172.205	138.412	126.694
75.0	130.190	148.446	129.737	104.165	96.396
77.5	99.762	111.415	93.677	77.169	72.507
80.0	72.831	78.917	64.739	55.352	52.762
82.5	49.007	49.978	40.980	36.124	33.988
85.0	28.161	26.025	21.493	18.904	17.350
87.5	9.905	8.222	7.510	7.639	7.574
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	0.065	0.000	0.065
152.5	0.000	0.000	0.065	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.129	0.065	0.000	0.259	0.065
160.0	0.065	0.000	0.194	0.129	0.065
162.5	0.259	0.065	0.065	0.065	0.194
165.0	0.065	0.065	0.194	0.129	0.259
167.5	0.259	0.065	0.129	0.129	0.065
170.0	0.065	0.065	0.194	0.129	0.129
172.5	0.000	0.065	0.259	0.324	0.000
175.0	0.194	0.000	0.129	0.194	0.259
177.5	0.194	0.129	0.194	0.194	0.065
180.0	0.194	0.194	0.194	0.194	0.194

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Zone	Lumens	%Lamp	%Fixt
0-20	488.51	N.A.	15.60
0-30	1011.56	N.A.	32.40
0-40	1608.62	N.A.	51.50
0-60	2658.27	N.A.	85.10
0-80	3094.46	N.A.	99.10
0-90	3123.07	N.A.	100.00
10-90	2994.81	N.A.	95.90
20-40	1120.12	N.A.	35.90
20-50	1695.83	N.A.	54.30
40-70	1351.23	N.A.	43.30
60-80	436.19	N.A.	14.00
70-80	134.61	N.A.	4.30
80-90	28.60	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	0.07	N.A.	0.00
110-180	0.07	N.A.	0.00
0-180	3123.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.26
10-20	360.25
20-30	523.06
30-40	597.06
40-50	575.72
50-60	473.93
60-70	301.58
70-80	134.61
80-90	28.60
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	0.02
160-170	0.03
170-180	0.01

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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	134	134	134	134	131	131	131	131	125	125	125	120	120	120	115	115	115	113
1	124	119	115	111	121	116	112	109	112	108	105	107	105	102	103	101	99	97
2	113	105	98	92	111	103	96	91	99	94	89	95	91	87	92	88	85	83
3	104	93	85	78	101	91	83	77	88	81	76	85	79	74	82	77	73	71
4	96	83	74	67	93	82	73	66	79	71	65	76	70	65	74	68	64	61
5	88	75	65	58	86	73	65	58	71	63	57	69	62	57	67	61	56	54
6	82	68	58	51	80	67	58	51	65	57	51	63	56	50	61	55	50	47
7	76	62	52	46	74	61	52	45	59	51	45	57	50	45	56	49	44	42
8	71	56	47	41	69	56	47	41	54	46	41	53	46	40	51	45	40	38
9	66	52	43	37	65	51	43	37	50	42	37	49	42	37	48	41	36	34
10	62	48	39	34	61	47	39	34	46	39	33	45	38	33	44	38	33	31

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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

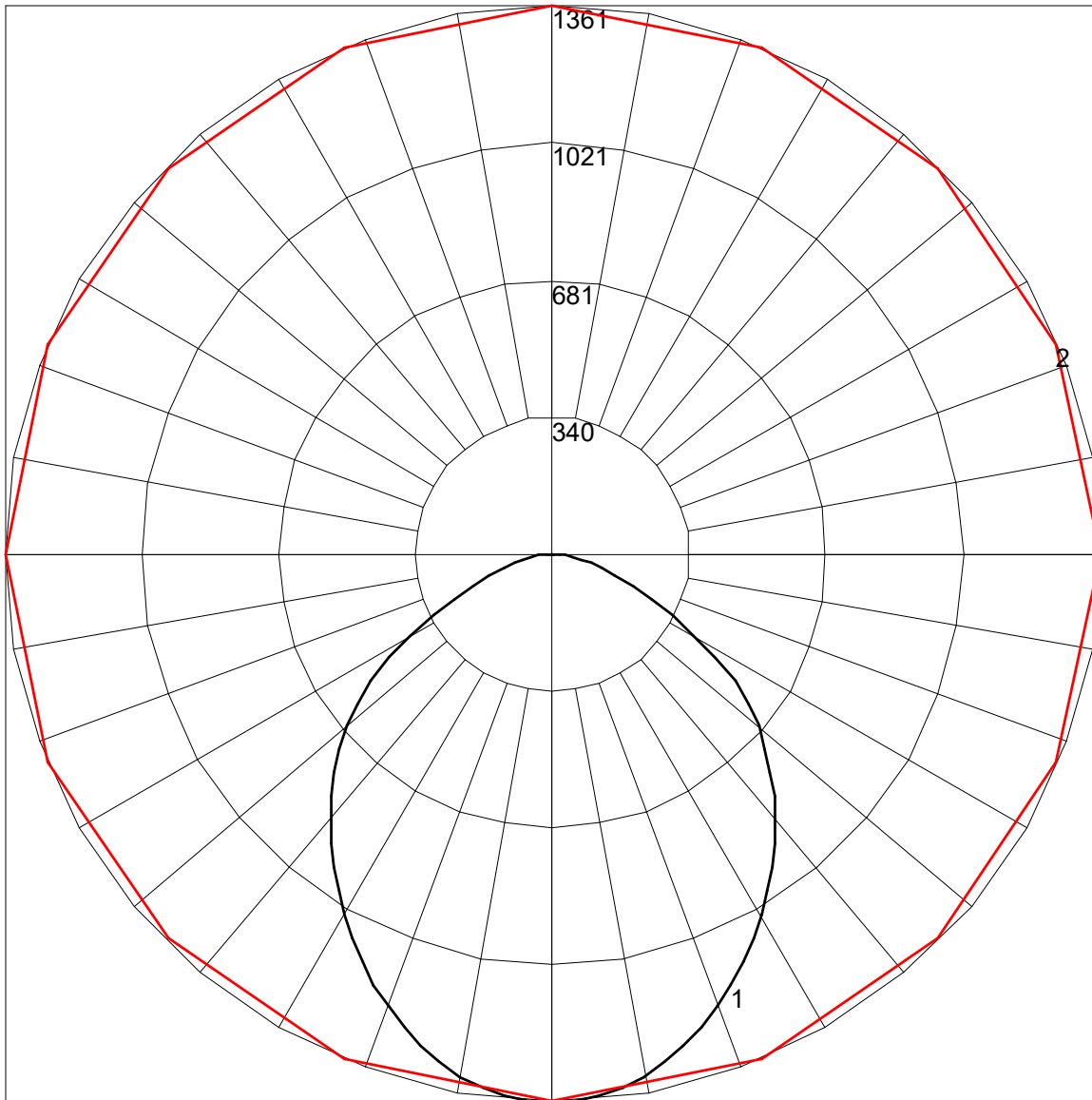
4H	2H	15.2	16.5	15.6	16.9	17.3	15.7	17.0	16.1	17.3	17.7
	3H	16.8	17.8	17.2	18.2	18.7	16.7	17.8	17.1	18.2	18.6
	4H	17.3	18.3	17.8	18.7	19.2	17.0	18.0	17.4	18.4	18.8
	6H	17.7	18.6	18.2	19.0	19.5	17.2	18.0	17.6	18.5	18.9
	8H	17.8	18.6	18.3	19.1	19.5	17.2	18.0	17.7	18.5	18.9
	12H	17.9	18.6	18.4	19.1	19.5	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 = 1361.263 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.)