



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P31-840-A-POE AMBIENT ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 18091.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 24-AUG-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 2x4' RECESSED LED TROFFER  
 [MORE] FROSTED ACRYLIC DIFFUSER  
 [LUMCAT] AMD4AEG-P31-840-A-PoE AMBIENT ONLY  
 [LAMPCAT] HLM 80 CRI, 4000K CCT  
 [SEARCH\_SOURCETYPE]LED  
 [SEARCH\_APPLICATION]INDOOR,DIRECT  
 [SEARCH\_MOUNTING]RECESSED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3141
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	25.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 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	1511	1547	1539
55	1281	1379	1357
65	1070	1177	937
75	815	742	530
85	621	465	411

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : AMD4AEG-P31-840-A-POE AMBIENT ONLY\_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1326.915	1326.915	1326.915	1326.915	1326.915
<b>5</b>	1321.291	1321.291	1320.321	1319.739	1319.739
<b>10</b>	1297.243	1295.691	1293.364	1290.455	1289.679
<b>15</b>	1243.910	1241.001	1235.377	1230.141	1228.783
<b>20</b>	1216.371	1213.656	1205.511	1196.202	1193.293
<b>25</b>	1123.863	1122.118	1113.585	1104.470	1097.488
<b>30</b>	1037.561	1034.652	1025.731	1013.901	1006.338
<b>35</b>	953.005	952.035	946.023	934.193	930.314
<b>40</b>	851.576	853.515	854.291	845.952	843.043
<b>45</b>	745.881	755.771	763.723	763.723	760.038
<b>50</b>	623.507	634.949	651.821	659.385	654.730
<b>55</b>	513.157	527.702	552.332	556.986	543.411
<b>60</b>	405.910	422.006	449.933	420.067	401.643
<b>65</b>	315.729	334.735	347.341	303.123	276.554
<b>70</b>	229.815	251.148	238.348	189.282	169.501
<b>75</b>	147.198	160.967	134.010	104.338	95.805
<b>80</b>	87.272	89.211	69.817	57.599	55.660
<b>85</b>	37.818	33.551	28.315	25.406	25.018
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AMD4AEG-P31-840-A-POE AMBIENT ONLY\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	476.32	N.A.	15.20
0-30	989.82	N.A.	31.50
0-40	1578.83	N.A.	50.30
0-60	2642.13	N.A.	84.10
0-80	3105.33	N.A.	98.90
0-90	3141.09	N.A.	100.00
10-90	3015.94	N.A.	96.00
20-40	1102.51	N.A.	35.10
20-50	1684.46	N.A.	53.60
40-70	1380.96	N.A.	44.00
60-80	463.20	N.A.	14.70
70-80	145.55	N.A.	4.60
80-90	35.76	N.A.	1.10
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	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3141.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	125.15
10-20	351.17
20-30	513.50
30-40	589.01
40-50	581.95
50-60	481.35
60-70	317.65
70-80	145.55
80-90	35.76
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	0.00
160-170	0.00
170-180	0.00

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P31-840-A-POE AMBIENT ONLY\_.IES

## 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	133	133	133	133	130	130	130	130	124	124	124	119	119	119	114	114	114	112
1	123	118	113	109	120	115	111	108	111	107	104	106	104	101	102	100	98	96
2	112	104	97	91	109	102	95	90	98	92	88	94	90	86	91	87	84	81
3	103	92	83	76	100	90	82	76	87	80	74	84	78	73	81	76	72	70
4	95	82	73	65	92	80	72	65	78	70	64	75	69	63	73	67	62	60
5	87	74	64	57	85	72	63	57	70	62	56	68	61	55	66	60	55	53
6	81	67	57	50	79	65	56	50	63	55	49	62	54	49	60	54	49	46
7	75	61	51	44	73	60	51	44	58	50	44	56	49	44	55	48	43	41
8	70	55	46	40	68	55	46	40	53	45	39	52	45	39	50	44	39	37
9	66	51	42	36	64	50	42	36	49	41	36	48	41	36	47	40	35	33
10	62	47	39	33	60	47	38	33	45	38	33	44	37	32	43	37	32	30

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P31-840-A-POE AMBIENT ONLY\_.IES

## UGR TABLE - CORRECTED

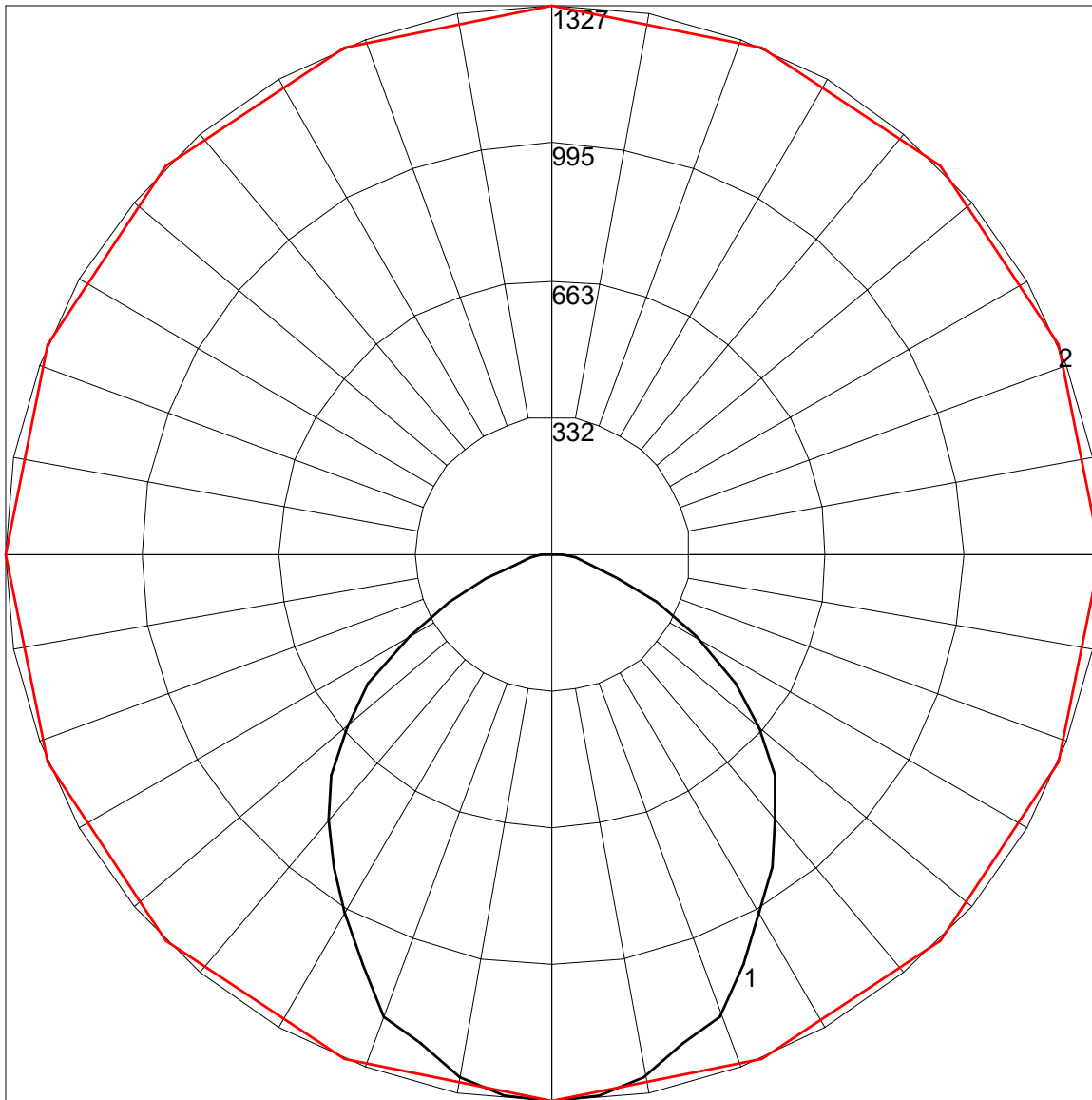
### Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	12.3	13.9	12.7	14.2	14.5	12.5	14.1	12.9	14.4	14.7
	3H	13.9	15.3	14.3	15.6	16.0	13.5	14.9	13.9	15.2	15.6
	4H	14.4	15.7	14.8	16.0	16.4	13.7	15.0	14.1	15.4	15.8
	6H	14.7	15.9	15.1	16.3	16.7	13.9	15.1	14.3	15.5	15.8
	8H	14.8	16.0	15.2	16.4	16.8	13.9	15.1	14.3	15.5	15.9
	12H	14.9	16.0	15.3	16.4	16.8	13.9	15.0	14.4	15.4	15.9
4H	2H	13.0	14.3	13.4	14.6	15.0	13.1	14.4	13.5	14.8	15.2
	3H	14.7	15.8	15.1	16.2	16.6	14.3	15.4	14.7	15.8	16.2
	4H	15.3	16.3	15.8	16.7	17.2	14.6	15.5	15.0	16.0	16.4
	6H	15.8	16.6	16.2	17.1	17.5	14.8	15.6	15.2	16.1	16.5
	8H	15.9	16.7	16.4	17.1	17.6	14.8	15.6	15.3	16.1	16.5
	12H	16.0	16.7	16.5	17.2	17.7	14.9	15.6	15.3	16.1	16.5
8H	4H	15.5	16.3	15.9	16.7	17.2	14.8	15.6	15.2	16.0	16.5
	6H	16.0	16.7	16.5	17.2	17.6	15.1	15.7	15.5	16.2	16.7
	8H	16.2	16.8	16.7	17.3	17.8	15.1	15.7	15.7	16.2	16.7
	12H	16.4	16.9	16.9	17.4	17.9	15.3	15.8	15.8	16.3	16.8
12H	4H	15.4	16.2	15.9	16.6	17.1	14.8	15.5	15.3	16.0	16.5
	6H	16.0	16.6	16.5	17.1	17.6	15.1	15.7	15.6	16.1	16.7
	8H	16.3	16.8	16.8	17.3	17.8	15.2	15.7	15.7	16.2	16.8

Maximum UGR = 17.9

POLAR GRAPH



Maximum Candela = 1326.915 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)