



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P31-8TW-A-POE 4000K ALL ON\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 18091.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 25-AUG-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 2x4' RECESSED LED TROFFER  
 [MORE] FROSTED ACRYLIC DIFFUSER  
 [LUMCAT] AMD4AEG-P31-8TW-A-PoE 4000k ALL ON  
 [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	9176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	78.1
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	4413	4519	4497
55	3743	4029	3964
65	3126	3439	2738
75	2379	2166	1549
85	1815	1359	1201

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : AMD4AEG-P31-8TW-A-POE 4000K ALL ON\_.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>	3876.401	3876.401	3876.401	3876.401	3876.401
<b>5</b>	3859.971	3859.971	3857.138	3855.438	3855.438
<b>10</b>	3789.717	3785.185	3778.386	3769.888	3767.621
<b>15</b>	3633.913	3625.415	3608.985	3593.688	3589.722
<b>20</b>	3553.462	3545.530	3521.735	3494.540	3486.041
<b>25</b>	3283.213	3278.114	3253.185	3226.557	3206.161
<b>30</b>	3031.094	3022.596	2996.534	2961.974	2939.878
<b>35</b>	2784.074	2781.241	2763.678	2729.118	2717.786
<b>40</b>	2487.763	2493.429	2495.695	2471.333	2462.835
<b>45</b>	2178.988	2207.883	2231.112	2231.112	2220.347
<b>50</b>	1821.489	1854.916	1904.207	1926.303	1912.705
<b>55</b>	1499.117	1541.609	1613.562	1627.159	1587.500
<b>60</b>	1185.809	1232.834	1314.418	1227.168	1173.345
<b>65</b>	922.359	977.882	1014.708	885.533	807.914
<b>70</b>	671.373	733.695	696.302	552.962	495.173
<b>75</b>	430.019	470.244	391.493	304.809	279.880
<b>80</b>	254.952	260.617	203.961	168.268	162.603
<b>85</b>	110.479	98.015	82.718	74.219	73.086
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AMD4AEG-P31-8TW-A-POE 4000K ALL ON\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1391.5	N.A.	15.20
0-30	2891.62	N.A.	31.50
0-40	4612.32	N.A.	50.30
0-60	7718.62	N.A.	84.10
0-80	9071.8	N.A.	98.90
0-90	9176.26	N.A.	100.00
10-90	8810.65	N.A.	96.00
20-40	3220.82	N.A.	35.10
20-50	4920.91	N.A.	53.60
40-70	4034.28	N.A.	44.00
60-80	1353.17	N.A.	14.70
70-80	425.19	N.A.	4.60
80-90	104.46	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	9176.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	365.61
10-20	1025.89
20-30	1500.12
30-40	1720.7
40-50	1700.09
50-60	1406.21
60-70	927.98
70-80	425.19
80-90	104.46
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-P31-8TW-A-POE 4000K ALL ON\_.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	100	100	100	100	98	98	98	98	93	93	93	89	89	89	86	86	86	84
1	92	89	85	82	90	87	84	81	83	81	78	80	78	76	77	75	74	72
2	84	78	73	68	82	76	72	67	73	69	66	71	67	64	68	65	63	61
3	77	69	63	57	75	68	62	57	65	60	56	63	59	55	61	57	54	52
4	71	62	55	49	69	60	54	49	58	53	48	56	52	48	55	50	47	45
5	66	55	48	43	64	54	48	43	53	47	42	51	46	42	49	45	41	39
6	61	50	43	38	59	49	42	37	48	42	37	46	41	37	45	40	36	35
7	56	45	38	33	55	45	38	33	44	37	33	42	37	33	41	36	33	31
8	53	42	35	30	51	41	34	30	40	34	30	39	33	29	38	33	29	28
9	49	38	32	27	48	38	31	27	37	31	27	36	31	27	35	30	27	25
10	46	35	29	25	45	35	29	25	34	28	24	33	28	24	33	28	24	23

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P31-8TW-A-POE 4000K ALL ON\_.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

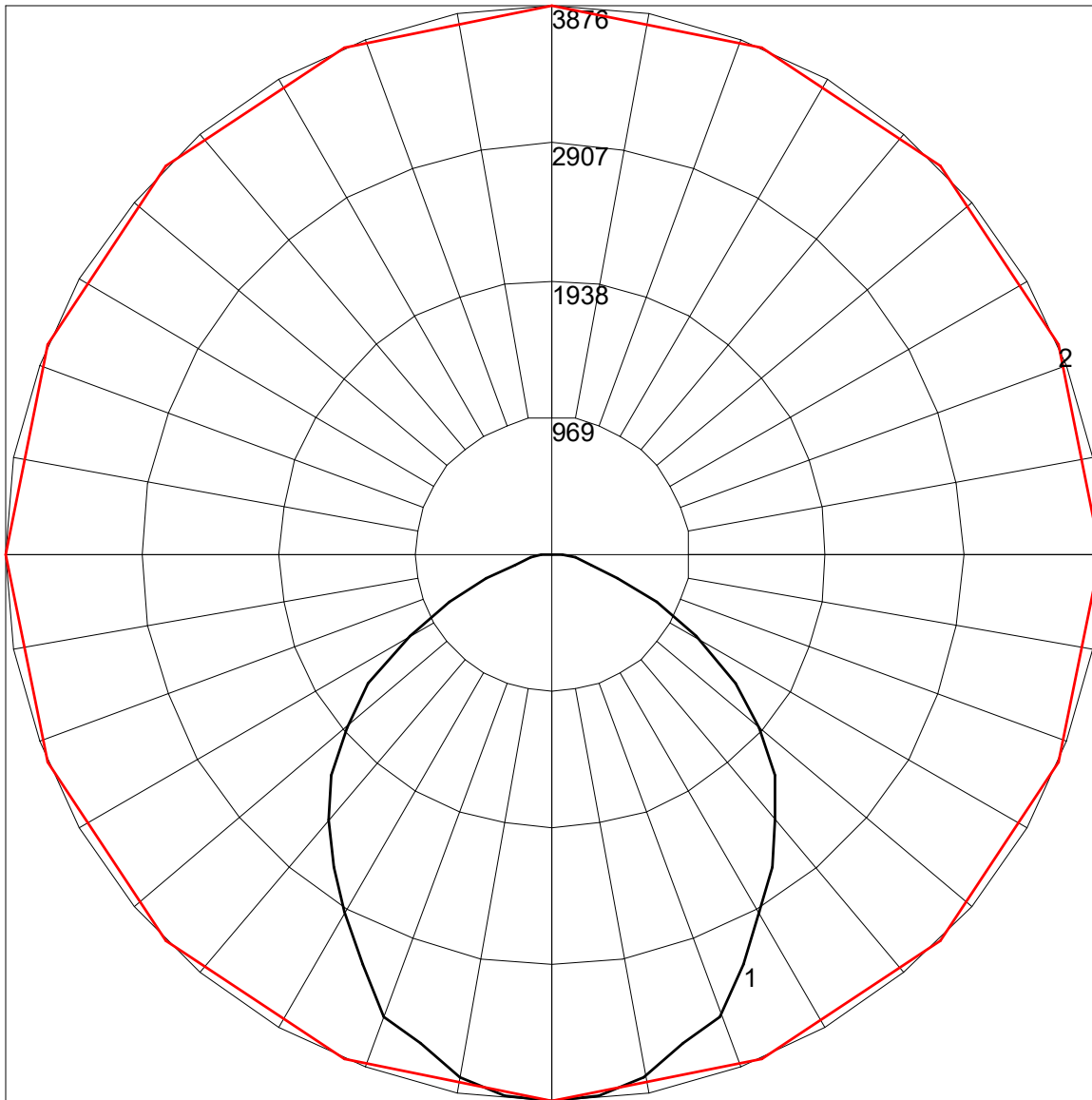
X=2H	Y=2H	17.0	18.6	17.4	18.9	19.2	17.2	18.8	17.6	19.1	19.4
	3H	18.6	20.0	19.0	20.3	20.7	18.2	19.6	18.6	19.9	20.3
	4H	19.1	20.4	19.5	20.7	21.1	18.4	19.7	18.8	20.1	20.5
	6H	19.4	20.6	19.8	21.0	21.4	18.6	19.8	19.0	20.2	20.5
	8H	19.5	20.7	19.9	21.1	21.5	18.6	19.8	19.0	20.2	20.6
	12H	19.6	20.7	20.0	21.1	21.5	18.6	19.7	19.1	20.1	20.6

### UGR Viewed Endwise

4H	2H	17.7	19.0	18.1	19.3	19.7	17.8	19.1	18.2	19.5	19.9
	3H	19.4	20.5	19.8	20.9	21.3	19.0	20.1	19.4	20.5	20.9
	4H	20.0	21.0	20.5	21.4	21.9	19.3	20.2	19.7	20.7	21.1
	6H	20.5	21.3	20.9	21.8	22.2	19.5	20.3	19.9	20.8	21.2
	8H	20.6	21.4	21.1	21.8	22.3	19.5	20.3	20.0	20.8	21.2
	12H	20.7	21.4	21.2	21.9	22.4	19.6	20.3	20.0	20.8	21.2
8H	4H	20.2	21.0	20.6	21.4	21.9	19.5	20.3	19.9	20.7	21.2
	6H	20.7	21.4	21.2	21.9	22.3	19.8	20.4	20.2	20.9	21.4
	8H	20.9	21.5	21.4	22.0	22.5	19.8	20.4	20.4	20.9	21.4
	12H	21.1	21.6	21.6	22.1	22.6	20.0	20.5	20.5	21.0	21.5
12H	4H	20.1	20.9	20.6	21.3	21.8	19.5	20.2	20.0	20.7	21.2
	6H	20.7	21.3	21.2	21.8	22.3	19.8	20.4	20.3	20.8	21.4
	8H	21.0	21.5	21.5	22.0	22.5	19.9	20.4	20.4	20.9	21.5

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 3876.401 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.)