



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L27-8TW-A-DALI-UNV 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  
 [ISSUEDATE] 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-L27-8TW-A-DALI-UNV 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	9110
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	82.3
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	4381	4486	4465
55	3716	4000	3935
65	3103	3414	2718
75	2362	2151	1538
85	1802	1349	1192

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	3848.519	3848.519	3848.519	3848.519	3848.519
<b>5</b>	3832.207	3832.207	3829.394	3827.707	3827.707
<b>10</b>	3762.459	3757.959	3751.209	3742.772	3740.522
<b>15</b>	3607.776	3599.338	3583.026	3567.839	3563.902
<b>20</b>	3527.903	3520.028	3496.404	3469.404	3460.967
<b>25</b>	3259.598	3254.535	3229.786	3203.349	3183.100
<b>30</b>	3009.292	3000.855	2974.981	2940.669	2918.732
<b>35</b>	2764.049	2761.236	2743.799	2709.488	2698.238
<b>40</b>	2469.869	2475.494	2477.744	2453.557	2445.120
<b>45</b>	2163.315	2192.002	2215.064	2215.064	2204.377
<b>50</b>	1808.388	1841.574	1890.510	1912.447	1898.948
<b>55</b>	1488.334	1530.520	1601.956	1615.455	1576.082
<b>60</b>	1177.280	1223.966	1304.964	1218.341	1164.905
<b>65</b>	915.725	970.848	1007.410	879.163	802.103
<b>70</b>	666.544	728.417	691.293	548.985	491.611
<b>75</b>	426.926	466.862	388.677	302.617	277.867
<b>80</b>	253.118	258.743	202.494	167.058	161.433
<b>85</b>	109.684	97.310	82.123	73.685	72.561
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AMD4AEG-L27-8TW-A-DALI-UNV 4000K ALL ON\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1381.49	N.A.	15.20
0-30	2870.82	N.A.	31.50
0-40	4579.15	N.A.	50.30
0-60	7663.1	N.A.	84.10
0-80	9006.54	N.A.	98.90
0-90	9110.25	N.A.	100.00
10-90	8747.28	N.A.	96.00
20-40	3197.66	N.A.	35.10
20-50	4885.52	N.A.	53.60
40-70	4005.26	N.A.	44.00
60-80	1343.44	N.A.	14.70
70-80	422.13	N.A.	4.60
80-90	103.71	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	9110.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	362.98
10-20	1018.51
20-30	1489.33
30-40	1708.32
40-50	1687.86
50-60	1396.09
60-70	921.31
70-80	422.13
80-90	103.71
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	0.00
160-170	0.00
170-180	0.00

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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	118	118	118	118	115	115	115	115	110	110	110	106	106	106	101	101	101	99
1	109	105	101	97	106	102	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	81	97	90	84	80	87	82	78	84	80	76	81	77	74	72
3	91	82	74	68	89	80	73	67	77	71	66	74	69	65	72	68	64	62
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	51	75	64	56	50	62	55	50	60	54	49	58	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	44	39	49	43	38	37
8	62	49	41	35	61	48	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	32	41	36	31	30
10	55	42	34	29	53	41	34	29	40	34	29	39	33	29	39	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	16.4	18.0	16.8	18.3	18.6	16.6	18.2	17.0	18.5	18.8
	3H	18.0	19.4	18.4	19.7	20.1	17.6	19.0	18.0	19.3	19.7
	4H	18.5	19.8	18.9	20.1	20.5	17.8	19.1	18.2	19.5	19.9
	6H	18.8	20.0	19.2	20.4	20.8	18.0	19.2	18.4	19.6	19.9
	8H	18.9	20.1	19.3	20.5	20.9	18.0	19.2	18.4	19.6	20.0
	12H	19.0	20.1	19.4	20.5	20.9	18.0	19.1	18.5	19.5	20.0

### UGR Viewed Endwise

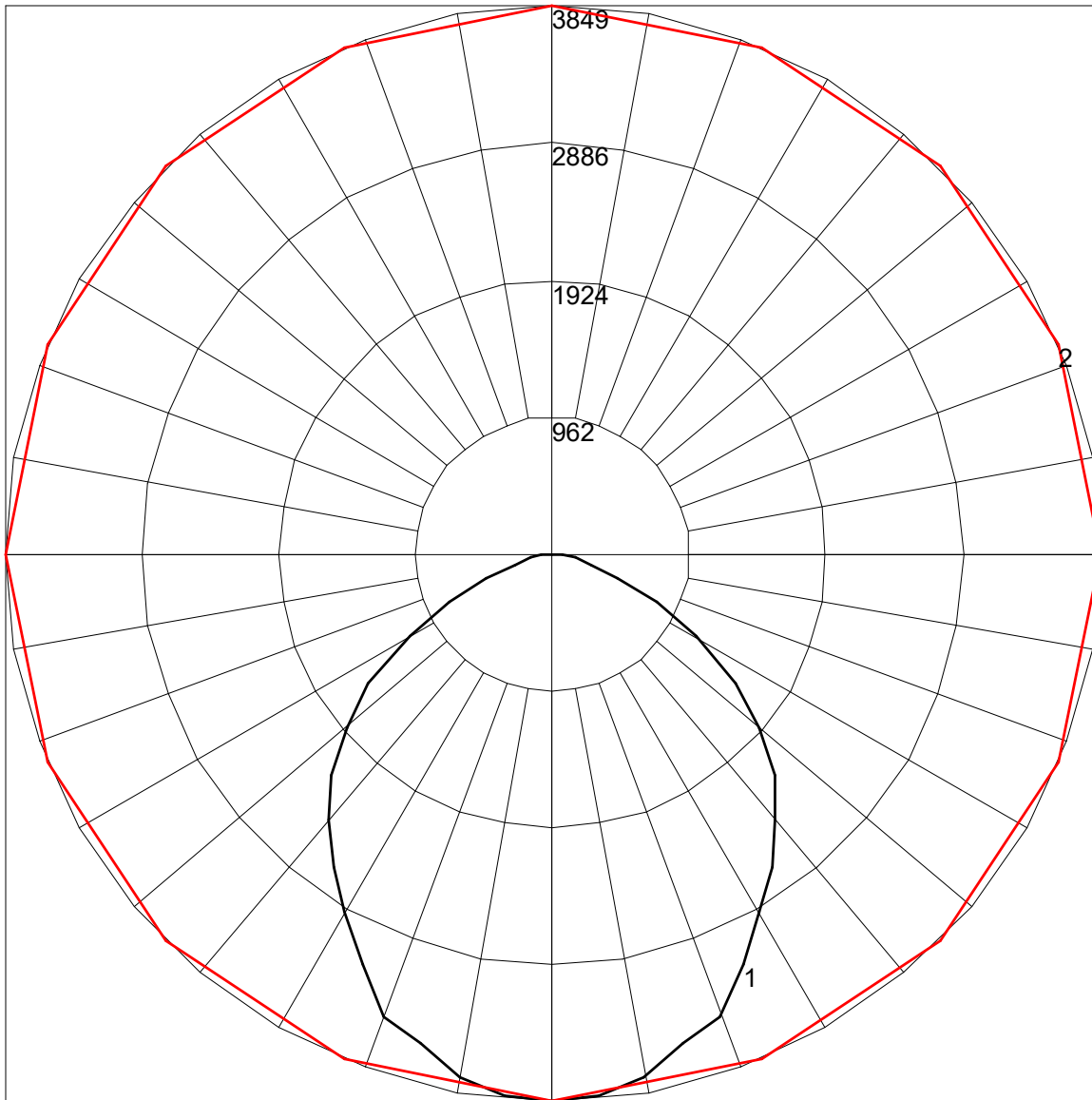
4H	2H	17.1	18.4	17.5	18.7	19.1	17.2	18.5	17.6	18.9	19.3
	3H	18.8	19.9	19.2	20.3	20.7	18.4	19.5	18.8	19.9	20.3
	4H	19.4	20.4	19.9	20.8	21.3	18.7	19.6	19.1	20.1	20.5
	6H	19.9	20.7	20.3	21.2	21.6	18.9	19.7	19.3	20.2	20.6
	8H	20.0	20.8	20.5	21.2	21.7	18.9	19.7	19.4	20.2	20.6
	12H	20.1	20.8	20.6	21.3	21.8	19.0	19.7	19.4	20.2	20.6
8H	4H	19.6	20.4	20.0	20.8	21.3	18.9	19.7	19.3	20.1	20.6
	6H	20.1	20.8	20.6	21.3	21.7	19.2	19.8	19.6	20.3	20.8
	8H	20.3	20.9	20.8	21.4	21.9	19.2	19.8	19.8	20.3	20.8
	12H	20.5	21.0	21.0	21.5	22.0	19.4	19.9	19.9	20.4	20.9
12H	4H	19.5	20.3	20.0	20.7	21.2	18.9	19.6	19.4	20.1	20.6
	6H	20.1	20.7	20.6	21.2	21.7	19.2	19.8	19.7	20.2	20.8
	8H	20.4	20.9	20.9	21.4	21.9	19.3	19.8	19.8	20.3	20.9

Maximum UGR = 22.0

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## POLAR GRAPH



Maximum Candela = 3848.519 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.)