



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L44-8TW-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-L44-8TW-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	10849
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	99.2
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	5218	5343	5317
55	4426	4763	4686
65	3696	4066	3237
75	2813	2561	1831
85	2146	1607	1420

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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>	4583.160	4583.160	4583.160	4583.160	4583.160
<b>5</b>	4563.734	4563.734	4560.385	4558.375	4558.375
<b>10</b>	4480.672	4475.313	4467.275	4457.227	4454.547
<b>15</b>	4296.461	4286.413	4266.987	4248.901	4244.212
<b>20</b>	4201.341	4191.963	4163.829	4131.676	4121.628
<b>25</b>	3881.820	3875.791	3846.317	3814.834	3790.719
<b>30</b>	3583.733	3573.686	3542.872	3502.011	3475.887
<b>35</b>	3291.676	3288.327	3267.561	3226.700	3213.303
<b>40</b>	2941.341	2948.039	2950.719	2921.915	2911.867
<b>45</b>	2576.269	2610.432	2637.896	2637.896	2625.169
<b>50</b>	2153.589	2193.111	2251.388	2277.513	2261.436
<b>55</b>	1772.441	1822.680	1907.752	1923.829	1876.939
<b>60</b>	1402.010	1457.608	1554.068	1450.910	1387.273
<b>65</b>	1090.527	1156.173	1199.713	1046.986	955.216
<b>70</b>	793.780	867.464	823.254	653.780	585.455
<b>75</b>	508.421	555.981	462.871	360.383	330.909
<b>80</b>	301.436	308.134	241.148	198.947	192.249
<b>85</b>	130.622	115.885	97.799	87.751	86.412
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1645.2	N.A.	15.20
0-30	3418.83	N.A.	31.50
0-40	5453.26	N.A.	50.30
0-60	9125.91	N.A.	84.10
0-80	10725.8	N.A.	98.90
0-90	10849.3	N.A.	100.00
10-90	10417.04	N.A.	96.00
20-40	3808.05	N.A.	35.10
20-50	5818.11	N.A.	53.60
40-70	4769.82	N.A.	44.00
60-80	1599.89	N.A.	14.70
70-80	502.72	N.A.	4.60
80-90	123.51	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	10849.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	432.27
10-20	1212.94
20-30	1773.63
30-40	2034.43
40-50	2010.06
50-60	1662.59
60-70	1097.17
70-80	502.72
80-90	123.51
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	124	124	124	124	122	122	122	122	116	116	116	111	111	111	107	107	107	105
1	115	110	106	102	112	108	104	101	103	100	98	99	97	95	96	94	92	90
2	105	97	90	85	102	95	89	84	91	86	82	88	84	80	85	81	78	76
3	96	86	78	71	94	84	77	71	81	75	70	78	73	68	76	71	67	65
4	89	77	68	61	86	75	67	61	73	66	60	70	64	59	68	63	58	56
5	82	69	60	53	79	68	59	53	65	58	52	63	57	52	62	56	51	49
6	76	62	53	47	74	61	53	47	59	52	46	58	51	46	56	50	45	43
7	70	57	48	42	68	56	47	41	54	47	41	53	46	41	51	45	41	39
8	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35
9	61	48	39	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
10	58	44	36	31	56	44	36	31	42	35	30	42	35	30	41	35	30	28

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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	16.8	18.4	17.2	18.7	19.0	UGR Viewed Endwise	17.0	18.6	17.4	18.9	19.2
	3H	18.4	19.8	18.8	20.1	20.5	18.0	19.4	18.4	19.7	20.1	
	4H	18.9	20.2	19.3	20.5	20.9	18.2	19.5	18.6	19.9	20.3	
	6H	19.2	20.4	19.6	20.8	21.2	18.4	19.6	18.8	20.0	20.3	
	8H	19.3	20.5	19.7	20.9	21.3	18.4	19.6	18.8	20.0	20.4	
	12H	19.4	20.5	19.8	20.9	21.3	18.4	19.5	18.9	19.9	20.4	

4H	2H	17.5	18.8	17.9	19.1	19.5	17.6	18.9	18.0	19.3	19.7	
	3H	19.2	20.3	19.6	20.7	21.1	18.8	19.9	19.2	20.3	20.7	
	4H	19.8	20.8	20.3	21.2	21.7	19.1	20.0	19.5	20.5	20.9	
	6H	20.3	21.1	20.7	21.6	22.0	19.3	20.1	19.7	20.6	21.0	
	8H	20.4	21.2	20.9	21.6	22.1	19.3	20.1	19.8	20.6	21.0	
	12H	20.5	21.2	21.0	21.7	22.2	19.4	20.1	19.8	20.6	21.0	

8H	4H	20.0	20.8	20.4	21.2	21.7	19.3	20.1	19.7	20.5	21.0	
	6H	20.5	21.2	21.0	21.7	22.1	19.6	20.2	20.0	20.7	21.2	
	8H	20.7	21.3	21.2	21.8	22.3	19.6	20.2	20.2	20.7	21.2	
	12H	20.9	21.4	21.4	21.9	22.4	19.8	20.3	20.3	20.8	21.3	

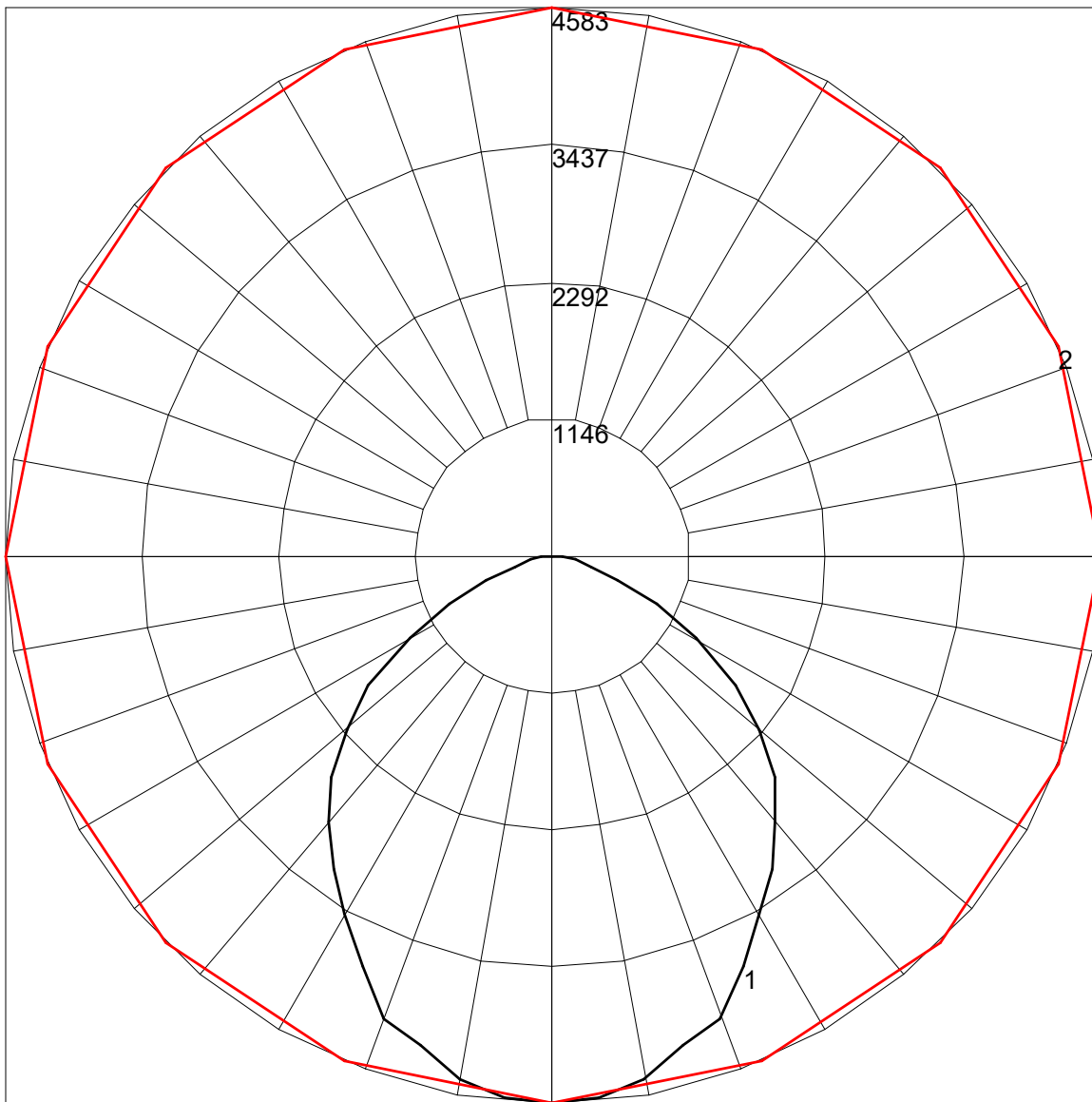
12H	4H	19.9	20.7	20.4	21.1	21.6	19.3	20.0	19.8	20.5	21.0	
	6H	20.5	21.1	21.0	21.6	22.1	19.6	20.2	20.1	20.6	21.2	
	8H	20.8	21.3	21.3	21.8	22.3	19.7	20.2	20.2	20.7	21.3	

Maximum UGR = 22.4

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## POLAR GRAPH



Maximum Candela = 4583.16 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.)