



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P43-840-A-POE EXAM 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-P43-840-A-PoE EXAM 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	6031
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	46.4
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	2901	2970	2956
55	2460	2648	2605
65	2054	2260	1799
75	1564	1424	1018
85	1193	893	789

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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>
<b>0</b>	2547.795	2547.795	2547.795	2547.795	2547.795
<b>5</b>	2536.996	2536.996	2535.134	2534.017	2534.017
<b>10</b>	2490.822	2487.843	2483.374	2477.788	2476.299
<b>15</b>	2388.418	2382.833	2372.034	2361.980	2359.373
<b>20</b>	2335.541	2330.328	2314.688	2296.814	2291.228
<b>25</b>	2157.918	2154.566	2138.182	2120.680	2107.275
<b>30</b>	1992.210	1986.625	1969.496	1946.781	1932.258
<b>35</b>	1829.855	1827.993	1816.449	1793.734	1786.287
<b>40</b>	1635.102	1638.826	1640.315	1624.303	1618.718
<b>45</b>	1432.157	1451.148	1466.416	1466.416	1459.341
<b>50</b>	1197.188	1219.158	1251.555	1266.078	1257.141
<b>55</b>	985.306	1013.235	1060.526	1069.463	1043.397
<b>60</b>	779.383	810.290	863.912	806.566	771.190
<b>65</b>	606.228	642.721	666.925	582.023	531.008
<b>70</b>	441.265	482.227	457.650	363.439	325.456
<b>75</b>	282.633	309.072	257.312	200.338	183.954
<b>80</b>	167.569	171.293	134.055	110.596	106.872
<b>85</b>	72.613	64.421	54.367	48.781	48.036
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	914.57	N.A.	15.20
0-30	1900.54	N.A.	31.50
0-40	3031.49	N.A.	50.30
0-60	5073.13	N.A.	84.10
0-80	5962.51	N.A.	98.90
0-90	6031.17	N.A.	100.00
10-90	5790.87	N.A.	96.00
20-40	2116.91	N.A.	35.10
20-50	3234.31	N.A.	53.60
40-70	2651.56	N.A.	44.00
60-80	889.38	N.A.	14.70
70-80	279.46	N.A.	4.60
80-90	68.66	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	6031.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	240.30
10-20	674.28
20-30	985.97
30-40	1130.94
40-50	1117.4
50-60	924.24
60-70	609.92
70-80	279.46
80-90	68.66
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	89	89	89	89	86	86	86	86	83	83	83	79	79	79	76	76	76	74
1	82	78	75	73	80	77	74	72	74	71	69	71	69	67	68	67	65	64
2	75	69	64	60	73	68	63	60	65	61	58	63	60	57	60	58	56	54
3	68	61	55	51	67	60	55	50	58	53	50	56	52	49	54	51	48	46
4	63	54	48	44	61	54	48	43	52	47	43	50	46	42	48	45	42	40
5	58	49	43	38	57	48	42	38	47	41	37	45	40	37	44	40	36	35
6	54	44	38	33	52	44	37	33	42	37	33	41	36	33	40	36	32	31
7	50	40	34	30	49	40	34	29	39	33	29	37	33	29	36	32	29	27
8	47	37	31	26	45	36	30	26	35	30	26	34	30	26	34	29	26	25
9	44	34	28	24	43	33	28	24	33	27	24	32	27	24	31	27	24	22
10	41	31	26	22	40	31	25	22	30	25	22	30	25	22	29	25	21	20

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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	16.0	17.6	16.4	17.9	18.2	UGR Viewed Endwise			
	3H	17.6	19.0	18.0	19.3	19.7	16.2	17.8	16.6	18.1
	4H	18.1	19.4	18.5	19.7	20.1	17.2	18.6	17.6	18.9
	6H	18.4	19.6	18.8	20.0	20.4	17.4	18.7	17.8	19.1
	8H	18.5	19.7	18.9	20.1	20.5	17.6	18.8	18.0	19.2
	12H	18.6	19.7	19.0	20.1	20.5	17.6	18.7	18.1	19.1

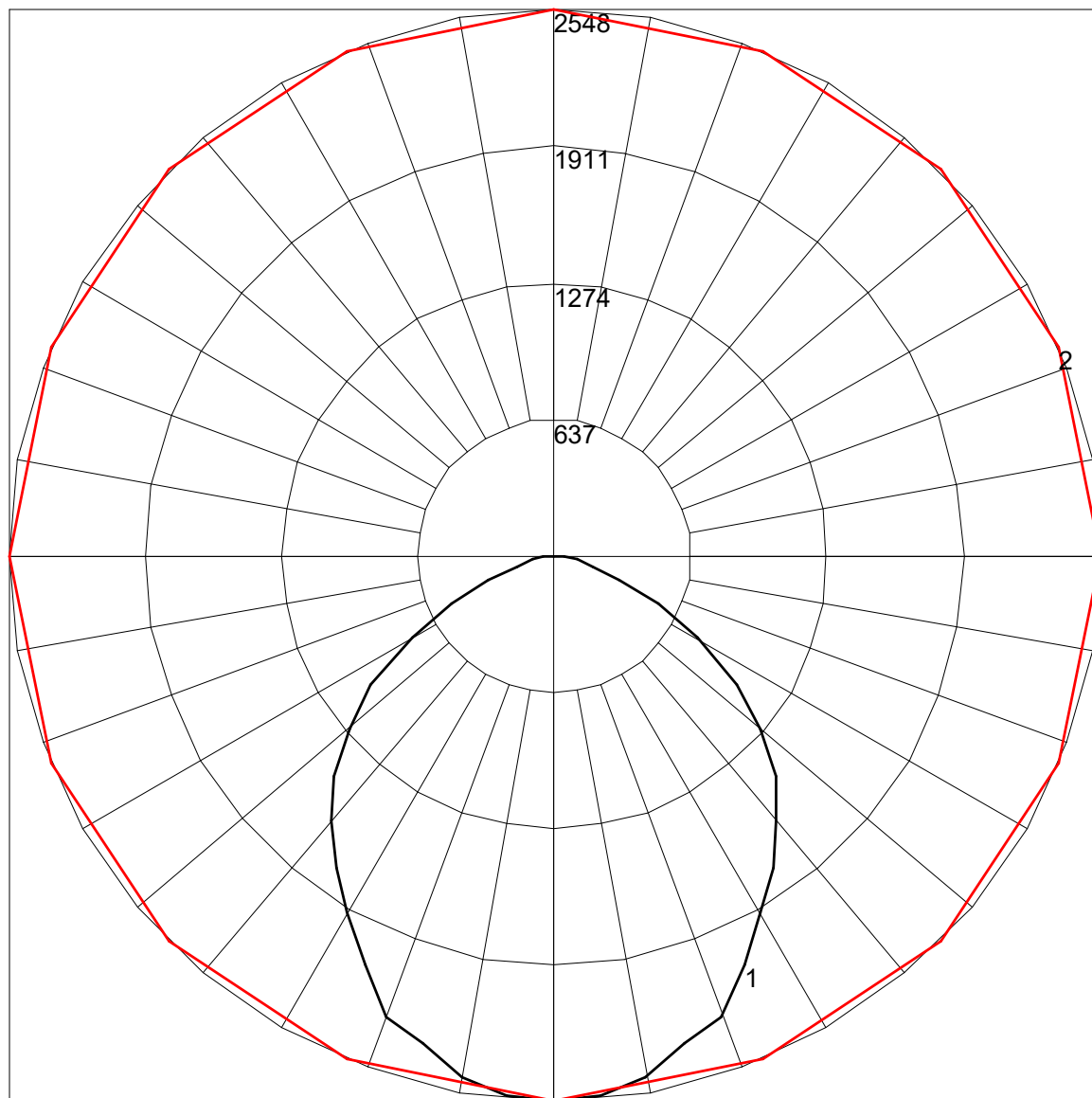
4H	2H	16.7	18.0	17.1	18.3	18.7	16.8	18.1	17.2	18.5
	3H	18.4	19.5	18.8	19.9	20.3	18.0	19.1	18.4	19.5
	4H	19.0	20.0	19.5	20.4	20.9	18.3	19.2	18.7	19.7
	6H	19.5	20.3	19.9	20.8	21.2	18.5	19.3	18.9	19.8
	8H	19.6	20.4	20.1	20.8	21.3	18.5	19.3	19.0	19.8
	12H	19.7	20.4	20.2	20.9	21.4	18.6	19.3	19.0	19.8

8H	4H	19.2	20.0	19.6	20.4	20.9	18.5	19.3	18.9	19.7
	6H	19.7	20.4	20.2	20.9	21.3	18.8	19.4	19.2	19.9
	8H	19.9	20.5	20.4	21.0	21.5	18.8	19.4	19.4	19.9
	12H	20.1	20.6	20.6	21.1	21.6	19.0	19.5	19.5	20.0

12H	4H	19.1	19.9	19.6	20.3	20.8	18.5	19.2	19.0	19.7
	6H	19.7	20.3	20.2	20.8	21.3	18.8	19.4	19.3	19.8
	8H	20.0	20.5	20.5	21.0	21.5	18.9	19.4	19.4	19.9

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 2547.795 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.)