



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L27-835-A-DIM-UNV 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] 17-AUG-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 2x4' RECESSED LED TROFFER  
 [MORE] FROSTED ACRYLIC DIFFUSER  
 [LUMCAT] AMD4AEG-L27-835-A-DIM-UNV ALL ON  
 [LAMPCAT] HLM 80 CRI, 3500K 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	10920
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	86.1
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	5252	5378	5352
55	4455	4795	4717
65	3720	4092	3258
75	2832	2578	1843
85	2160	1618	1429

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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>	4613.154	4613.154	4613.154	4613.154	4613.154
<b>5</b>	4593.601	4593.601	4590.230	4588.207	4588.207
<b>10</b>	4509.995	4504.601	4496.510	4486.396	4483.700
<b>15</b>	4324.579	4314.465	4294.912	4276.708	4271.988
<b>20</b>	4228.837	4219.397	4191.079	4158.716	4148.602
<b>25</b>	3907.224	3901.156	3871.489	3839.800	3815.527
<b>30</b>	3607.187	3597.073	3566.058	3524.929	3498.634
<b>35</b>	3313.218	3309.847	3288.945	3247.817	3234.332
<b>40</b>	2960.590	2967.333	2970.030	2941.037	2930.924
<b>45</b>	2593.129	2627.515	2655.159	2655.159	2642.349
<b>50</b>	2167.683	2207.463	2266.122	2292.418	2276.236
<b>55</b>	1784.040	1834.608	1920.237	1936.419	1889.222
<b>60</b>	1411.185	1467.147	1564.238	1460.405	1396.352
<b>65</b>	1097.664	1163.739	1207.565	1053.838	961.467
<b>70</b>	798.975	873.141	828.642	658.059	589.286
<b>75</b>	511.749	559.620	465.900	362.741	333.075
<b>80</b>	303.408	310.151	242.727	200.249	193.507
<b>85</b>	131.477	116.644	98.439	88.326	86.977
<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	1655.97	N.A.	15.20
0-30	3441.21	N.A.	31.50
0-40	5488.95	N.A.	50.30
0-60	9185.63	N.A.	84.10
0-80	10795.99	N.A.	98.90
0-90	10920.31	N.A.	100.00
10-90	10485.21	N.A.	96.00
20-40	3832.98	N.A.	35.10
20-50	5856.19	N.A.	53.60
40-70	4801.04	N.A.	44.00
60-80	1610.36	N.A.	14.70
70-80	506.01	N.A.	4.60
80-90	124.32	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	10920.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	435.09
10-20	1220.88
20-30	1785.24
30-40	2047.74
40-50	2023.21
50-60	1673.47
60-70	1104.35
70-80	506.01
80-90	124.32
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

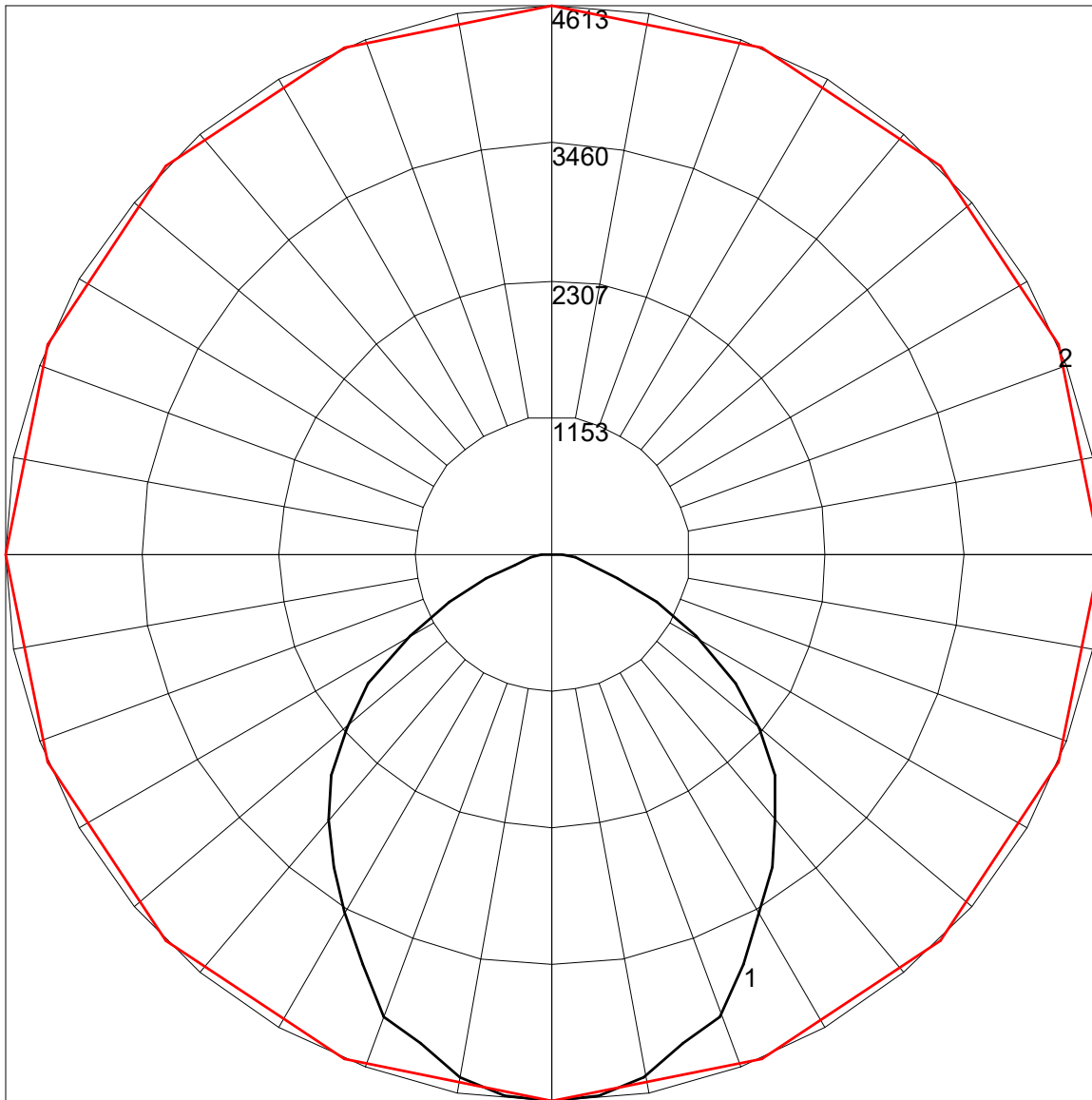
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise			
X=2H	Y=2H	17.0	18.6	17.4	18.9	19.2	17.2	18.8	17.6	19.1
	3H	18.6	20.0	19.0	20.3	20.7	18.2	19.6	18.6	19.9
	4H	19.1	20.4	19.5	20.7	21.1	18.4	19.7	18.8	20.1
	6H	19.4	20.6	19.8	21.0	21.4	18.6	19.8	19.0	20.2
	8H	19.5	20.7	19.9	21.1	21.5	18.6	19.8	19.0	20.2
	12H	19.6	20.7	20.0	21.1	21.5	18.6	19.7	19.1	20.1
4H	2H	17.7	19.0	18.1	19.3	19.7	17.8	19.1	18.2	19.5
	3H	19.4	20.5	19.8	20.9	21.3	19.0	20.1	19.4	20.5
	4H	20.0	21.0	20.5	21.4	21.9	19.3	20.2	19.7	20.7
	6H	20.5	21.3	20.9	21.8	22.2	19.5	20.3	19.9	20.8
	8H	20.6	21.4	21.1	21.8	22.3	19.5	20.3	20.0	20.8
	12H	20.7	21.4	21.2	21.9	22.4	19.6	20.3	20.0	20.8
8H	4H	20.2	21.0	20.6	21.4	21.9	19.5	20.3	19.9	20.7
	6H	20.7	21.4	21.2	21.9	22.3	19.8	20.4	20.2	20.9
	8H	20.9	21.5	21.4	22.0	22.5	19.8	20.4	20.4	20.9
	12H	21.1	21.6	21.6	22.1	22.6	20.0	20.5	20.5	21.0
12H	4H	20.1	20.9	20.6	21.3	21.8	19.5	20.2	20.0	20.7
	6H	20.7	21.3	21.2	21.8	22.3	19.8	20.4	20.3	20.8
	8H	21.0	21.5	21.5	22.0	22.5	19.9	20.4	20.4	20.9

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 4613.154 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.)