



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L27-835-A-DIM-UNV AMBIENT 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] 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 AMBIENT ONLY
 [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	2809
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	22.8
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	1351	1383	1377
55	1146	1233	1213
65	957	1053	838
75	728	663	474
85	556	416	368

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AMD4AEG-L27-835-A-DIM-UNV AMBIENT ONLY_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1186.661	1186.661	1186.661	1186.661	1186.661
5	1181.632	1181.632	1180.765	1180.244	1180.244
10	1160.125	1158.738	1156.657	1154.055	1153.361
15	1112.430	1109.829	1104.799	1100.116	1098.902
20	1087.802	1085.374	1078.089	1069.764	1067.163
25	1005.072	1003.511	995.880	987.728	981.485
30	927.892	925.291	917.313	906.733	899.969
35	852.273	851.406	846.030	835.450	831.981
40	761.565	763.300	763.994	756.536	753.934
45	667.042	675.887	682.998	682.998	679.703
50	557.603	567.835	582.924	589.689	585.526
55	458.916	471.924	493.951	498.113	485.973
60	363.005	377.401	402.376	375.666	359.190
65	282.357	299.354	310.627	271.083	247.322
70	205.524	224.602	213.155	169.275	151.585
75	131.639	143.953	119.846	93.310	85.678
80	78.047	79.781	62.438	51.511	49.777
85	33.820	30.005	25.322	22.720	22.373
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AMD4AEG-L27-835-A-DIM-UNV AMBIENT ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	425.97	N.A.	15.20
0-30	885.20	N.A.	31.50
0-40	1411.95	N.A.	50.30
0-60	2362.86	N.A.	84.10
0-80	2777.1	N.A.	98.90
0-90	2809.08	N.A.	100.00
10-90	2697.16	N.A.	96.00
20-40	985.97	N.A.	35.10
20-50	1506.41	N.A.	53.60
40-70	1234.99	N.A.	44.00
60-80	414.24	N.A.	14.70
70-80	130.16	N.A.	4.60
80-90	31.98	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	2809.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.92
10-20	314.05
20-30	459.22
30-40	526.75
40-50	520.44
50-60	430.47
60-70	284.08
70-80	130.16
80-90	31.98
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-L27-835-A-DIM-UNV AMBIENT ONLY_.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	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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L27-835-A-DIM-UNV AMBIENT ONLY_.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

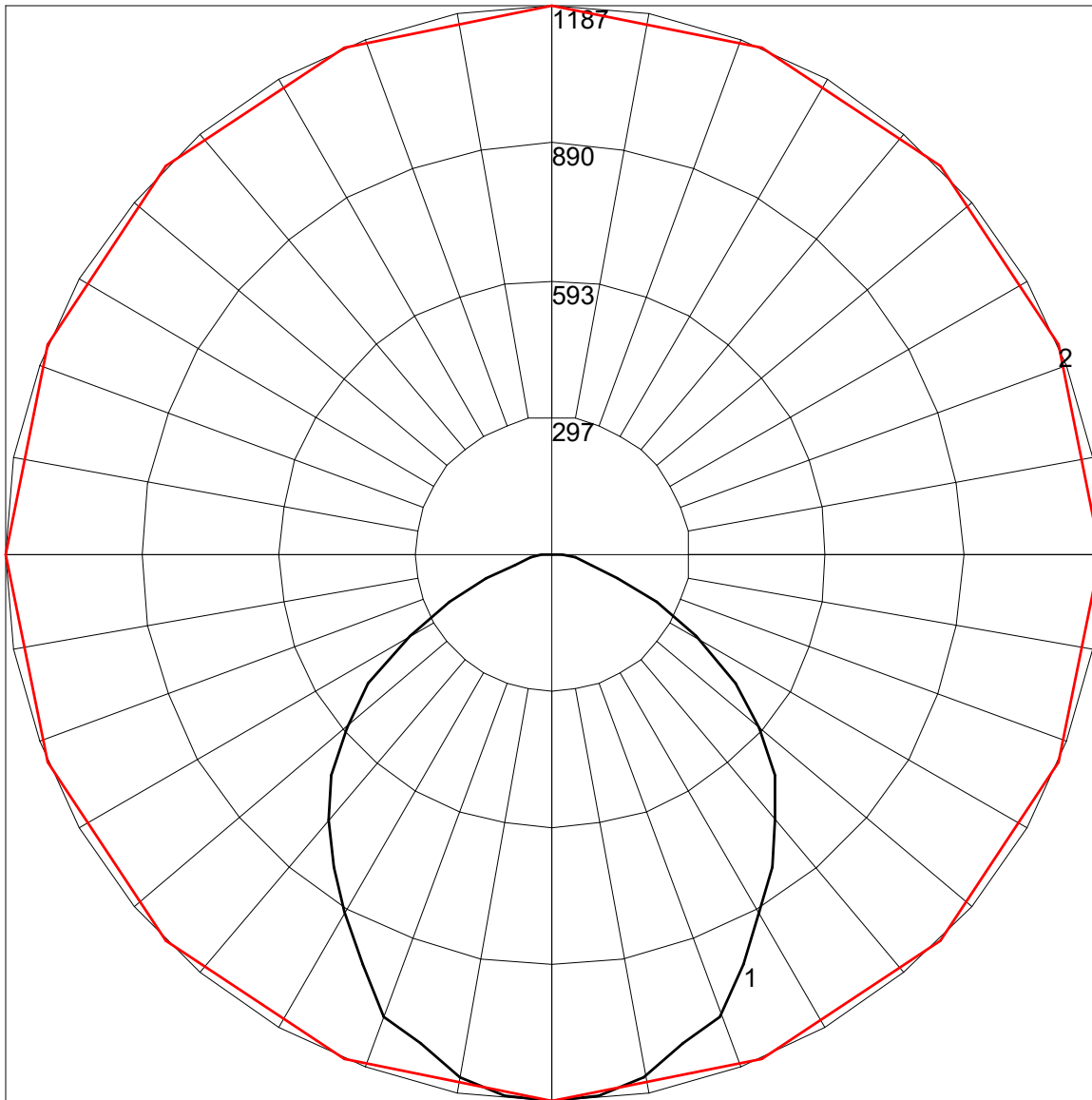
X=2H	Y=2H	12.3	13.9	12.7	14.2	14.5	12.5	14.1	12.9	14.4	14.7
	3H	13.9	15.3	14.3	15.6	16.0	13.5	14.9	13.9	15.2	15.6
	4H	14.4	15.7	14.8	16.0	16.4	13.7	15.0	14.1	15.4	15.8
	6H	14.7	15.9	15.1	16.3	16.7	13.9	15.1	14.3	15.5	15.8
	8H	14.8	16.0	15.2	16.4	16.8	13.9	15.1	14.3	15.5	15.9
	12H	14.9	16.0	15.3	16.4	16.8	13.9	15.0	14.4	15.4	15.9

UGR Viewed Endwise

4H	2H	13.0	14.3	13.4	14.6	15.0	13.1	14.4	13.5	14.8	15.2
	3H	14.7	15.8	15.1	16.2	16.6	14.3	15.4	14.7	15.8	16.2
	4H	15.3	16.3	15.8	16.7	17.2	14.6	15.5	15.0	16.0	16.4
	6H	15.8	16.6	16.2	17.1	17.5	14.8	15.6	15.2	16.1	16.5
	8H	15.9	16.7	16.4	17.1	17.6	14.8	15.6	15.3	16.1	16.5
	12H	16.0	16.7	16.5	17.2	17.7	14.9	15.6	15.3	16.1	16.5
8H	4H	15.5	16.3	15.9	16.7	17.2	14.8	15.6	15.2	16.0	16.5
	6H	16.0	16.7	16.5	17.2	17.6	15.1	15.7	15.5	16.2	16.7
	8H	16.2	16.8	16.7	17.3	17.8	15.1	15.7	15.7	16.2	16.7
	12H	16.4	16.9	16.9	17.4	17.9	15.3	15.8	15.8	16.3	16.8
12H	4H	15.4	16.2	15.9	16.6	17.1	14.8	15.5	15.3	16.0	16.5
	6H	16.0	16.6	16.5	17.1	17.6	15.1	15.7	15.6	16.1	16.7
	8H	16.3	16.8	16.8	17.3	17.8	15.2	15.7	15.7	16.2	16.8

Maximum UGR = 17.9

POLAR GRAPH



Maximum Candela = 1186.661 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.)