



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L76-835-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
 [ISSUE DATE] 6-JUN-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' RECESSED LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD4AEG-L76-835-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	7423
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	57.86
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	3570	3656	3638
55	3028	3259	3207
65	2529	2782	2215
75	1925	1752	1253
85	1469	1100	972

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	3135.846	3135.846	3135.846	3135.846	3135.846
5	3122.555	3122.555	3120.263	3118.888	3118.888
10	3065.723	3062.056	3056.556	3049.681	3047.848
15	2939.684	2932.809	2919.518	2907.143	2903.935
20	2874.602	2868.185	2848.936	2826.936	2820.061
25	2655.982	2651.857	2631.691	2610.149	2593.650
30	2452.028	2445.153	2424.070	2396.113	2378.238
35	2252.199	2249.908	2235.700	2207.742	2198.575
40	2012.496	2017.080	2018.913	1999.205	1992.330
45	1762.710	1786.085	1804.876	1804.876	1796.168
50	1473.508	1500.550	1540.424	1558.298	1547.298
55	1212.723	1247.097	1305.304	1316.304	1284.221
60	959.270	997.311	1063.309	992.728	949.187
65	746.150	791.066	820.856	716.359	653.569
70	543.113	593.528	563.279	447.323	400.574
75	347.867	380.408	316.701	246.578	226.412
80	206.245	210.829	164.996	136.122	131.539
85	89.373	79.290	66.915	60.040	59.124
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1125.67	N.A.	15.20
0-30	2339.2	N.A.	31.50
0-40	3731.18	N.A.	50.30
0-60	6244.04	N.A.	84.10
0-80	7338.7	N.A.	98.90
0-90	7423.21	N.A.	100.00
10-90	7127.45	N.A.	96.00
20-40	2605.51	N.A.	35.10
20-50	3980.81	N.A.	53.60
40-70	3263.56	N.A.	44.00
60-80	1094.66	N.A.	14.70
70-80	343.96	N.A.	4.60
80-90	84.50	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	7423.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	295.76
10-20	829.91
20-30	1213.54
30-40	1391.98
40-50	1375.3
50-60	1137.56
60-70	750.70
70-80	343.96
80-90	84.50
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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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	315	315	315	315	307	307	307	307	294	294	294	281	281	281	270	270	270	264
1	290	278	268	259	283	272	263	255	261	254	247	251	245	239	242	237	232	227
2	265	245	228	214	259	240	225	212	231	218	207	223	212	202	215	206	198	192
3	243	217	197	181	237	213	194	179	205	189	176	198	184	173	191	180	170	164
4	224	194	172	155	218	190	170	154	184	166	152	178	162	150	172	159	148	142
5	206	174	151	134	201	171	150	134	165	147	132	160	144	131	156	141	129	124
6	191	157	134	118	186	155	133	118	150	131	117	146	129	116	142	126	115	109
7	177	143	121	105	173	141	120	105	137	118	104	133	116	103	130	114	102	97
8	165	131	109	94	161	129	108	94	126	107	93	122	105	93	119	104	92	87
9	155	120	99	85	151	119	99	85	116	97	84	113	96	84	110	95	84	79
10	145	111	91	77	142	110	90	77	107	89	77	105	88	77	103	87	76	72

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

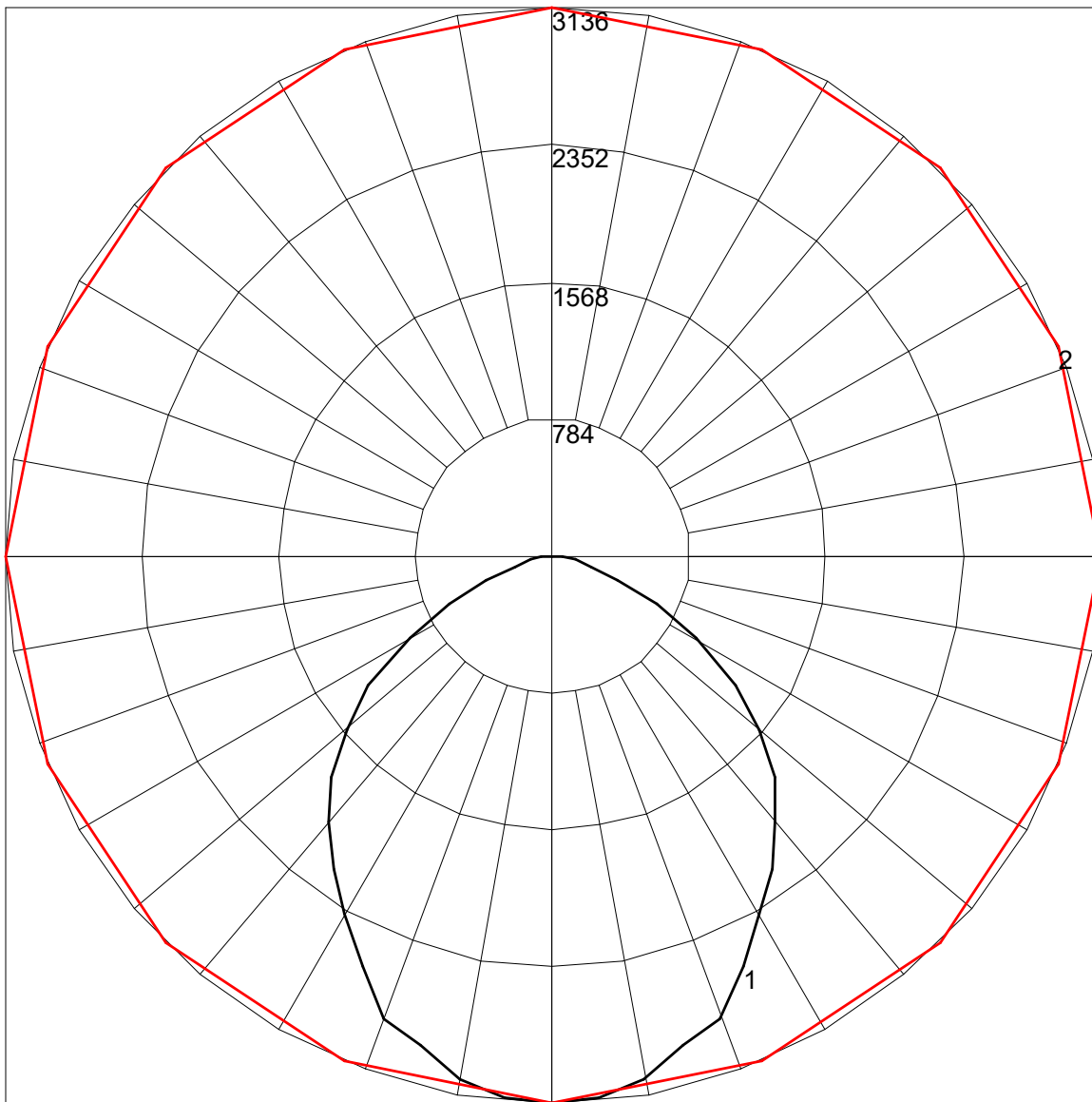
4H	2H	13.0	14.3	13.4	14.6	15.0	13.1	14.4	13.5	14.8	15.2
	3H	14.7	15.8	15.1	16.2	16.6	14.3	15.4	14.7	15.8	16.2
	4H	15.3	16.3	15.8	16.7	17.2	14.6	15.5	15.0	16.0	16.4
	6H	15.8	16.6	16.2	17.1	17.5	14.8	15.6	15.2	16.1	16.5
	8H	15.9	16.7	16.4	17.1	17.6	14.8	15.6	15.3	16.1	16.5
	12H	16.0	16.7	16.5	17.2	17.7	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 = 3135.846 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.)