



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L76-835-A-DIM-UNV 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
 [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 EXAM 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	11309
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	94.69
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	5439	5569	5542
55	4613	4965	4885
65	3852	4238	3374
75	2933	2670	1909
85	2237	1675	1480

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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>
0	4777.487	4777.487	4777.487	4777.487	4777.487
5	4757.237	4757.237	4753.746	4751.651	4751.651
10	4670.653	4665.067	4656.688	4646.214	4643.421
15	4478.632	4468.158	4447.909	4429.056	4424.168
20	4379.479	4369.704	4340.377	4306.860	4296.387
25	4046.410	4040.126	4009.402	3976.584	3951.447
30	3735.685	3725.211	3693.091	3650.497	3623.265
35	3431.244	3427.753	3406.107	3363.513	3349.548
40	3066.054	3073.037	3075.830	3045.805	3035.331
45	2685.503	2721.115	2749.743	2749.743	2736.476
50	2244.902	2286.099	2346.848	2374.080	2357.322
55	1847.593	1899.962	1988.641	2005.399	1956.521
60	1461.456	1519.411	1619.960	1512.429	1446.094
65	1136.765	1205.195	1250.582	1091.379	995.717
70	827.437	904.245	858.160	681.501	610.278
75	529.978	579.555	482.497	375.663	344.940
80	314.216	321.199	251.373	207.383	200.400
85	136.160	120.799	101.946	91.472	90.075
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1714.96	N.A.	15.20
0-30	3563.79	N.A.	31.50
0-40	5684.48	N.A.	50.30
0-60	9512.85	N.A.	84.10
0-80	11180.57	N.A.	98.90
0-90	11309.32	N.A.	100.00
10-90	10858.72	N.A.	96.00
20-40	3969.52	N.A.	35.10
20-50	6064.8	N.A.	53.60
40-70	4972.06	N.A.	44.00
60-80	1667.72	N.A.	14.70
70-80	524.03	N.A.	4.60
80-90	128.74	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	11309.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	450.59
10-20	1264.37
20-30	1848.83
30-40	2120.69
40-50	2095.28
50-60	1733.09
60-70	1143.69
70-80	524.03
80-90	128.74
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	166	166	166	166	162	162	162	162	155	155	155	148	148	148	142	142	142	139
1	153	147	141	137	149	144	139	134	138	134	130	132	129	126	127	125	122	120
2	140	129	121	113	137	127	119	112	122	115	109	117	112	107	113	109	104	101
3	128	115	104	95	125	112	102	94	108	100	93	105	97	91	101	95	90	87
4	118	102	91	82	115	100	89	81	97	87	80	94	86	79	91	84	78	75
5	109	92	80	71	106	90	79	71	87	77	70	85	76	69	82	74	68	65
6	101	83	71	62	98	82	70	62	79	69	62	77	68	61	75	67	60	58
7	94	75	64	55	91	74	63	55	72	62	55	70	61	54	68	60	54	51
8	87	69	58	50	85	68	57	50	66	56	49	65	56	49	63	55	49	46
9	82	64	52	45	80	63	52	45	61	51	45	60	51	44	58	50	44	42
10	77	59	48	41	75	58	48	41	57	47	41	55	47	40	54	46	40	38

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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

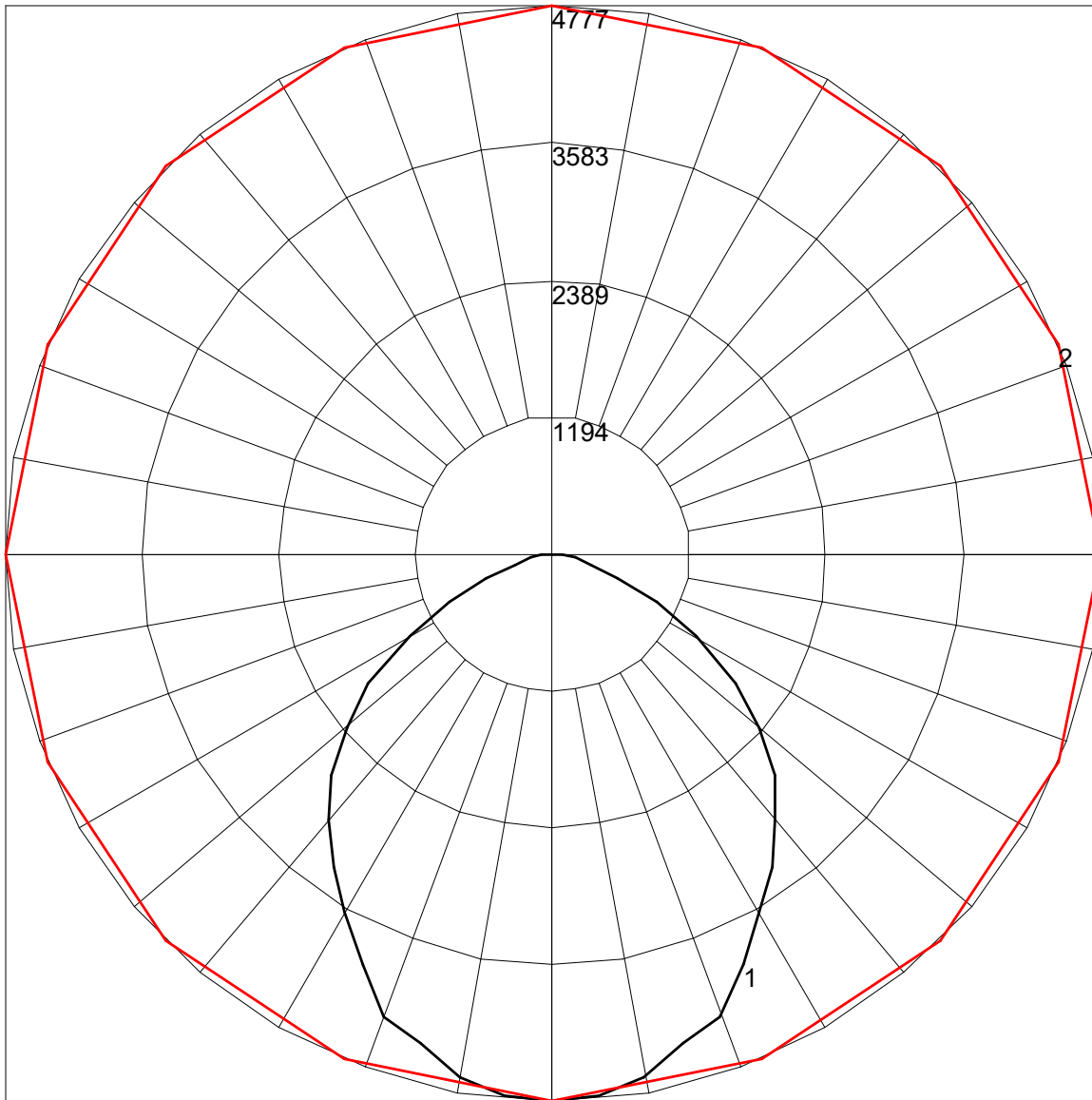
X=2H	Y=2H	16.0	17.6	16.4	17.9	18.2	16.2	17.8	16.6	18.1	18.4
	3H	17.6	19.0	18.0	19.3	19.7	17.2	18.6	17.6	18.9	19.3
	4H	18.1	19.4	18.5	19.7	20.1	17.4	18.7	17.8	19.1	19.5
	6H	18.4	19.6	18.8	20.0	20.4	17.6	18.8	18.0	19.2	19.5
	8H	18.5	19.7	18.9	20.1	20.5	17.6	18.8	18.0	19.2	19.6
	12H	18.6	19.7	19.0	20.1	20.5	17.6	18.7	18.1	19.1	19.6

UGR Viewed Endwise

4H	2H	16.7	18.0	17.1	18.3	18.7	16.8	18.1	17.2	18.5	18.9
	3H	18.4	19.5	18.8	19.9	20.3	18.0	19.1	18.4	19.5	19.9
	4H	19.0	20.0	19.5	20.4	20.9	18.3	19.2	18.7	19.7	20.1
	6H	19.5	20.3	19.9	20.8	21.2	18.5	19.3	18.9	19.8	20.2
	8H	19.6	20.4	20.1	20.8	21.3	18.5	19.3	19.0	19.8	20.2
	12H	19.7	20.4	20.2	20.9	21.4	18.6	19.3	19.0	19.8	20.2
8H	4H	19.2	20.0	19.6	20.4	20.9	18.5	19.3	18.9	19.7	20.2
	6H	19.7	20.4	20.2	20.9	21.3	18.8	19.4	19.2	19.9	20.4
	8H	19.9	20.5	20.4	21.0	21.5	18.8	19.4	19.4	19.9	20.4
	12H	20.1	20.6	20.6	21.1	21.6	19.0	19.5	19.5	20.0	20.5
12H	4H	19.1	19.9	19.6	20.3	20.8	18.5	19.2	19.0	19.7	20.2
	6H	19.7	20.3	20.2	20.8	21.3	18.8	19.4	19.3	19.8	20.4
	8H	20.0	20.5	20.5	21.0	21.5	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 4777.487 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.)