



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L44-835-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-L44-835-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	12551
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	98.4
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	6036	6181	6151
55	5120	5511	5422
65	4275	4703	3745
75	3255	2963	2118
85	2483	1859	1643

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AMD4AEG-L44-835-A-DIM-UNV ALL ON_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	5302.170	5302.170	5302.170	5302.170	5302.170
5	5279.696	5279.696	5275.822	5273.497	5273.497
10	5183.603	5177.404	5168.104	5156.480	5153.380
15	4970.494	4958.869	4936.396	4915.472	4910.048
20	4860.451	4849.602	4817.055	4779.857	4768.233
25	4490.803	4483.828	4449.731	4413.308	4385.410
30	4145.953	4134.329	4098.681	4051.409	4021.187
35	3808.077	3804.202	3780.179	3732.907	3717.408
40	3402.781	3410.530	3413.630	3380.308	3368.683
45	2980.436	3019.958	3051.731	3051.731	3037.007
50	2491.446	2537.168	2604.588	2634.811	2616.212
55	2050.503	2108.624	2207.042	2225.640	2171.394
60	1621.959	1686.279	1797.871	1678.530	1604.910
65	1261.610	1337.554	1387.925	1211.238	1105.071
70	918.309	1003.553	952.407	756.346	677.301
75	588.183	643.204	535.487	416.920	382.823
80	348.725	356.474	278.980	230.158	222.409
85	151.114	134.065	113.142	101.518	99.968
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AMD4AEG-L44-835-A-DIM-UNV ALL ON_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1903.3	N.A.	15.20
0-30	3955.18	N.A.	31.50
0-40	6308.77	N.A.	50.30
0-60	10557.59	N.A.	84.10
0-80	12408.47	N.A.	98.90
0-90	12551.35	N.A.	100.00
10-90	12051.27	N.A.	96.00
20-40	4405.47	N.A.	35.10
20-50	6730.86	N.A.	53.60
40-70	5518.12	N.A.	44.00
60-80	1850.88	N.A.	14.70
70-80	581.58	N.A.	4.60
80-90	142.88	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	12551.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	500.08
10-20	1403.23
20-30	2051.88
30-40	2353.59
40-50	2325.4
50-60	1923.42
60-70	1269.3
70-80	581.58
80-90	142.88
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-L44-835-A-DIM-UNV ALL ON_.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

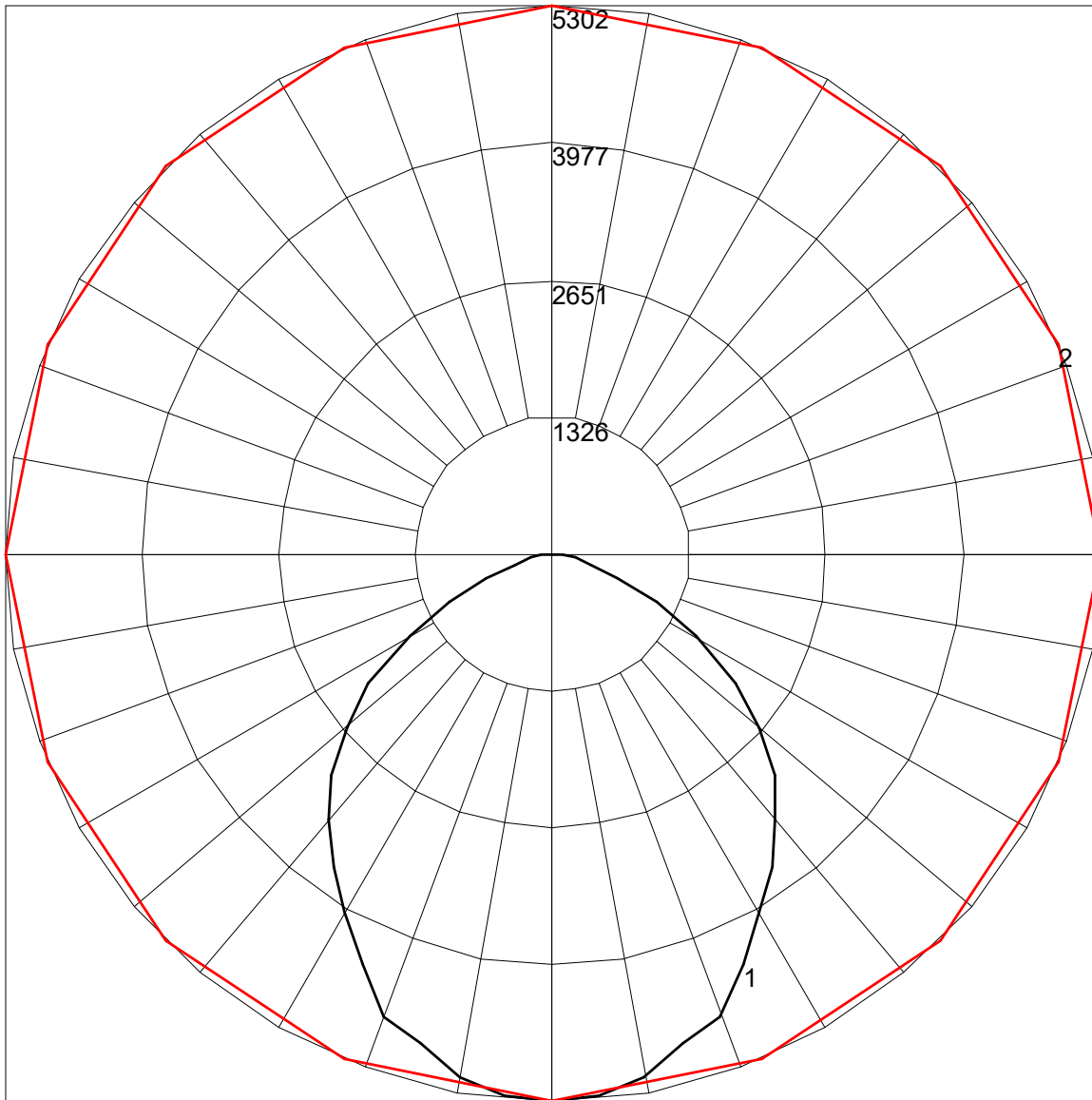
IES INDOOR REPORT
PHOTOMETRIC FILENAME : AMD4AEG-L44-835-A-DIM-UNV ALL ON_.IES

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					UGR Viewed Endwise				
X=2H	Y=2H	17.5	19.1	17.9	19.4	19.7	17.7	19.3	18.1	19.6	19.9
	3H	19.1	20.5	19.5	20.8	21.2	18.7	20.1	19.1	20.4	20.8
	4H	19.6	20.9	20.0	21.2	21.6	18.9	20.2	19.3	20.6	21.0
	6H	19.9	21.1	20.3	21.5	21.9	19.1	20.3	19.5	20.7	21.0
	8H	20.0	21.2	20.4	21.6	22.0	19.1	20.3	19.5	20.7	21.1
	12H	20.1	21.2	20.5	21.6	22.0	19.1	20.2	19.6	20.6	21.1
4H	2H	18.2	19.5	18.6	19.8	20.2	18.3	19.6	18.7	20.0	20.4
	3H	19.9	21.0	20.3	21.4	21.8	19.5	20.6	19.9	21.0	21.4
	4H	20.5	21.5	21.0	21.9	22.4	19.8	20.7	20.2	21.2	21.6
	6H	21.0	21.8	21.4	22.3	22.7	20.0	20.8	20.4	21.3	21.7
	8H	21.1	21.9	21.6	22.3	22.8	20.0	20.8	20.5	21.3	21.7
	12H	21.2	21.9	21.7	22.4	22.9	20.1	20.8	20.5	21.3	21.7
8H	4H	20.7	21.5	21.1	21.9	22.4	20.0	20.8	20.4	21.2	21.7
	6H	21.2	21.9	21.7	22.4	22.8	20.3	20.9	20.7	21.4	21.9
	8H	21.4	22.0	21.9	22.5	23.0	20.3	20.9	20.9	21.4	21.9
	12H	21.6	22.1	22.1	22.6	23.1	20.5	21.0	21.0	21.5	22.0
12H	4H	20.6	21.4	21.1	21.8	22.3	20.0	20.7	20.5	21.2	21.7
	6H	21.2	21.8	21.7	22.3	22.8	20.3	20.9	20.8	21.3	21.9
	8H	21.5	22.0	22.0	22.5	23.0	20.4	20.9	20.9	21.4	22.0

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 5302.17 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.)