



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L44-8TW-A-DALI-UNV 4000K 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
 [ISSUEDATE] 25-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' RECESSED LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD4AEG-L44-8TW-A-DALI-UNV 4000k EXAM ONLY
 [_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	6351
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	56.1
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	3055	3128	3113
55	2591	2788	2743
65	2163	2380	1895
75	1647	1499	1072
85	1256	941	831

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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	2682.979	2682.979	2682.979	2682.979	2682.979
5	2671.608	2671.608	2669.647	2668.471	2668.471
10	2622.983	2619.846	2615.140	2609.258	2607.690
15	2515.146	2509.264	2497.892	2487.305	2484.560
20	2459.463	2453.973	2437.504	2418.681	2412.799
25	2272.415	2268.886	2251.632	2233.202	2219.085
30	2097.916	2092.034	2073.996	2050.076	2034.782
35	1926.946	1924.985	1912.829	1888.909	1881.066
40	1721.860	1725.781	1727.349	1710.488	1704.606
45	1508.147	1528.145	1544.223	1544.223	1536.772
50	1260.710	1283.846	1317.962	1333.255	1323.844
55	1037.586	1066.996	1116.797	1126.208	1098.759
60	820.736	853.283	909.750	849.362	812.109
65	638.394	676.823	702.312	612.905	559.183
70	464.679	507.813	481.932	382.723	342.725
75	297.630	325.471	270.964	210.968	193.714
80	176.460	180.382	141.168	116.464	112.542
85	76.466	67.839	57.252	51.370	50.585
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	963.10	N.A.	15.20
0-30	2001.38	N.A.	31.50
0-40	3192.34	N.A.	50.30
0-60	5342.3	N.A.	84.10
0-80	6278.88	N.A.	98.90
0-90	6351.18	N.A.	100.00
10-90	6098.13	N.A.	96.00
20-40	2229.23	N.A.	35.10
20-50	3405.92	N.A.	53.60
40-70	2792.25	N.A.	44.00
60-80	936.57	N.A.	14.70
70-80	294.29	N.A.	4.60
80-90	72.30	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	6351.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	253.05
10-20	710.05
20-30	1038.28
30-40	1190.95
40-50	1176.69
50-60	973.28
60-70	642.28
70-80	294.29
80-90	72.30
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	125	125	125	125	122	122	122	122	117	117	117	112	112	112	107	107	107	105
1	115	111	107	103	113	109	105	101	104	101	98	100	98	95	96	94	92	90
2	106	98	91	85	103	96	90	84	92	87	82	89	84	81	85	82	79	77
3	97	86	78	72	94	85	77	71	82	75	70	79	73	69	76	72	68	66
4	89	77	68	62	87	76	68	61	73	66	60	71	65	60	68	63	59	57
5	82	69	60	54	80	68	60	53	66	58	53	64	57	52	62	56	52	49
6	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	46	44
7	71	57	48	42	69	56	48	42	55	47	41	53	46	41	52	45	41	39
8	66	52	43	38	64	51	43	37	50	43	37	49	42	37	48	41	37	35
9	62	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
10	58	44	36	31	57	44	36	31	43	36	31	42	35	31	41	35	30	29

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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	14.9	16.5	15.3	16.8	17.1	15.1	16.7	15.5	17.0	17.3
	3H	16.5	17.9	16.9	18.2	18.6	16.1	17.5	16.5	17.8	18.2
	4H	17.0	18.3	17.4	18.6	19.0	16.3	17.6	16.7	18.0	18.4
	6H	17.3	18.5	17.7	18.9	19.3	16.5	17.7	16.9	18.1	18.4
	8H	17.4	18.6	17.8	19.0	19.4	16.5	17.7	16.9	18.1	18.5
	12H	17.5	18.6	17.9	19.0	19.4	16.5	17.6	17.0	18.0	18.5

UGR Viewed Endwise

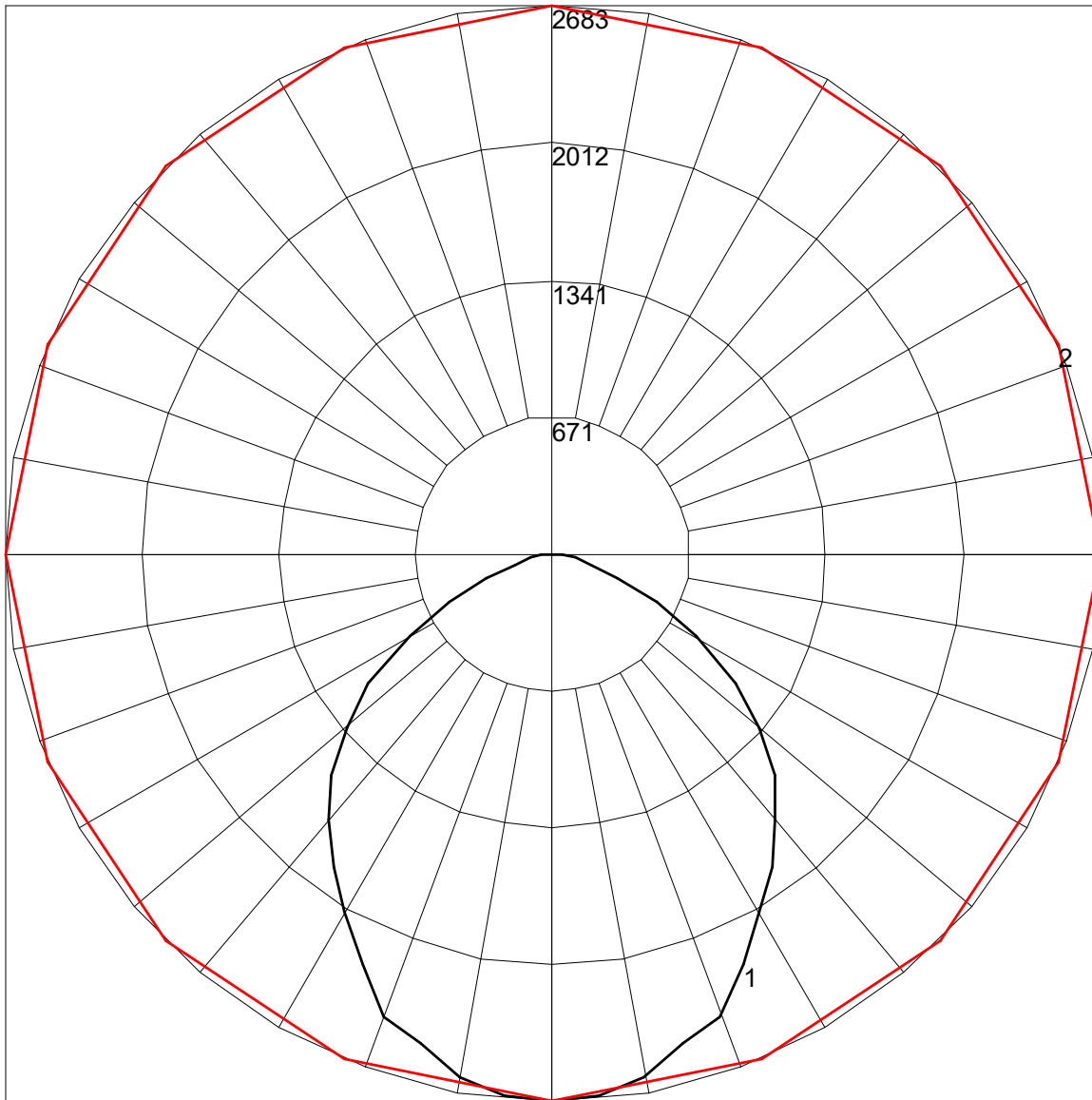
4H	2H	15.6	16.9	16.0	17.2	17.6	15.7	17.0	16.1	17.4	17.8
	3H	17.3	18.4	17.7	18.8	19.2	16.9	18.0	17.3	18.4	18.8
	4H	17.9	18.9	18.4	19.3	19.8	17.2	18.1	17.6	18.6	19.0
	6H	18.4	19.2	18.8	19.7	20.1	17.4	18.2	17.8	18.7	19.1
	8H	18.5	19.3	19.0	19.7	20.2	17.4	18.2	17.9	18.7	19.1
	12H	18.6	19.3	19.1	19.8	20.3	17.5	18.2	17.9	18.7	19.1

8H	4H	18.1	18.9	18.5	19.3	19.8	17.4	18.2	17.8	18.6	19.1
	6H	18.6	19.3	19.1	19.8	20.2	17.7	18.3	18.1	18.8	19.3
	8H	18.8	19.4	19.3	19.9	20.4	17.7	18.3	18.3	18.8	19.3
	12H	19.0	19.5	19.5	20.0	20.5	17.9	18.4	18.4	18.9	19.4

12H	4H	18.0	18.8	18.5	19.2	19.7	17.4	18.1	17.9	18.6	19.1
	6H	18.6	19.2	19.1	19.7	20.2	17.7	18.3	18.2	18.7	19.3
	8H	18.9	19.4	19.4	19.9	20.4	17.8	18.3	18.3	18.8	19.4

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 2682.979 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.)