



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L44-8TW-A-DALI-UNV 4000K 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] 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 AMBIENT 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	4498
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	43.1
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	2163	2215	2204
55	1835	1975	1943
65	1532	1686	1342
75	1166	1062	759
85	890	666	589

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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	1900.179	1900.179	1900.179	1900.179	1900.179
5	1892.125	1892.125	1890.737	1889.904	1889.904
10	1857.688	1855.466	1852.133	1847.968	1846.857
15	1781.314	1777.148	1769.094	1761.596	1759.652
20	1741.877	1737.989	1726.325	1712.994	1708.828
25	1609.404	1606.904	1594.684	1581.631	1571.633
30	1485.817	1481.651	1468.876	1451.935	1441.104
35	1364.730	1363.341	1354.732	1337.791	1332.236
40	1219.481	1222.258	1223.369	1211.427	1207.261
45	1068.122	1082.286	1093.672	1093.672	1088.396
50	892.879	909.264	933.426	944.258	937.592
55	734.855	755.684	790.955	797.620	778.179
60	581.274	604.325	644.317	601.548	575.164
65	452.133	479.350	497.402	434.081	396.033
70	329.102	359.651	341.321	271.057	242.730
75	210.792	230.510	191.906	149.415	137.195
80	124.975	127.752	99.980	82.484	79.706
85	54.156	48.046	40.548	36.382	35.826
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	682.10	N.A.	15.20
0-30	1417.45	N.A.	31.50
0-40	2260.92	N.A.	50.30
0-60	3783.6	N.A.	84.10
0-80	4446.92	N.A.	98.90
0-90	4498.12	N.A.	100.00
10-90	4318.91	N.A.	96.00
20-40	1578.82	N.A.	35.10
20-50	2412.19	N.A.	53.60
40-70	1977.57	N.A.	44.00
60-80	663.31	N.A.	14.70
70-80	208.43	N.A.	4.60
80-90	51.21	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	4498.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.22
10-20	502.88
20-30	735.35
30-40	843.47
40-50	833.37
50-60	689.31
60-70	454.89
70-80	208.43
80-90	51.21
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	123	123	123	123	120	120	120	120	115	115	115	110	110	110	106	106	106	104
1	114	109	105	101	111	107	103	100	102	99	97	98	96	94	95	93	91	89
2	104	96	90	84	101	94	88	83	91	86	81	87	83	79	84	81	78	75
3	95	85	77	71	93	84	76	70	80	74	69	78	72	68	75	71	67	64
4	88	76	67	61	85	75	66	60	72	65	59	70	64	59	67	62	58	56
5	81	68	59	53	79	67	59	52	65	57	52	63	56	51	61	55	51	49
6	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	50	45	43
7	70	56	47	41	68	55	47	41	54	46	41	52	45	40	51	45	40	38
8	65	51	43	37	63	51	42	37	49	42	37	48	41	36	47	41	36	34
9	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	33	31
10	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28

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UGR TABLE - CORRECTED

Reflectances

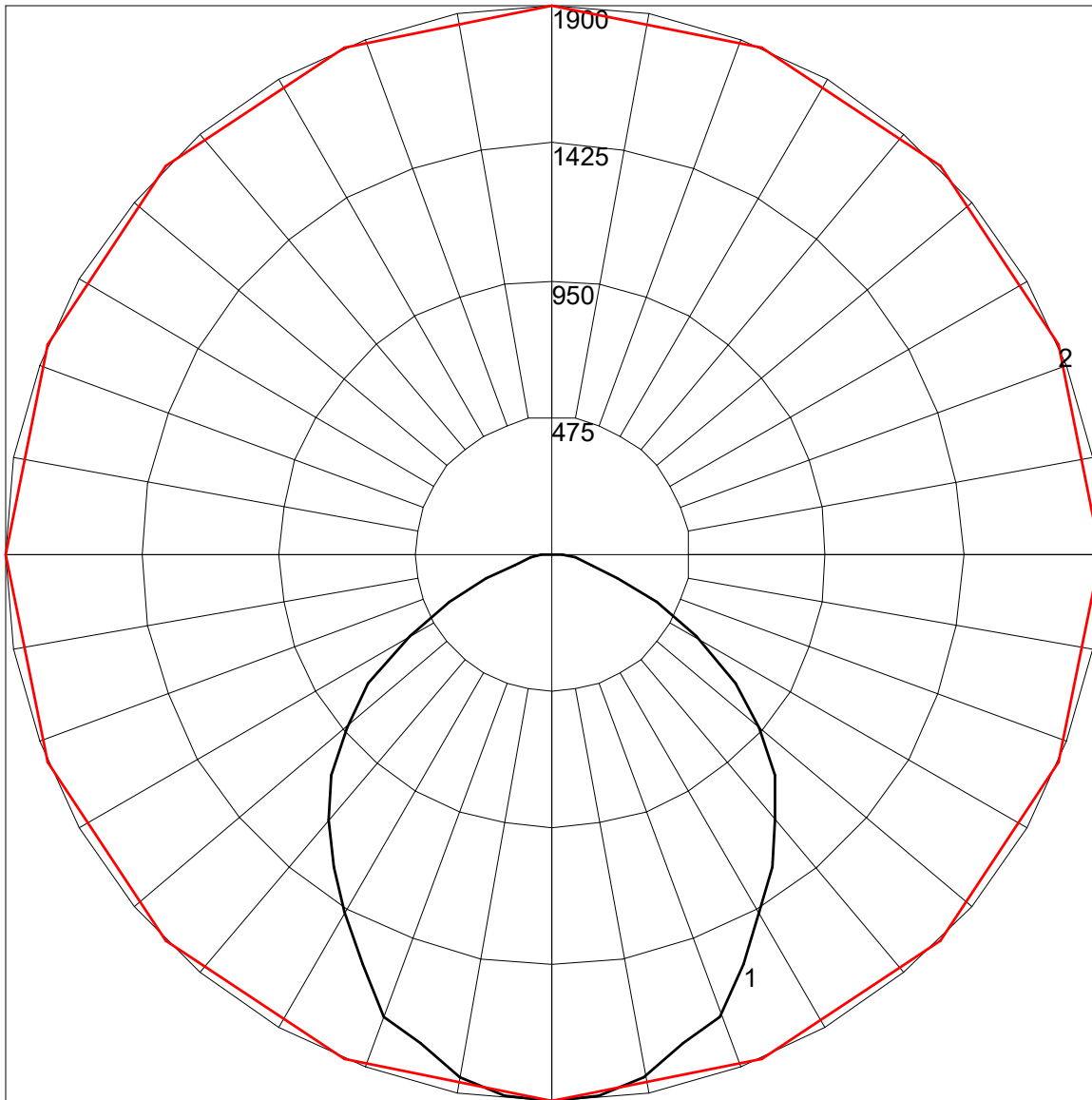
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	13.8	15.4	14.2	15.7	16.0	UGR Viewed Endwise				
	3H	15.4	16.8	15.8	17.1	17.5	14.0	15.6	14.4	15.9	16.2
	4H	15.9	17.2	16.3	17.5	17.9	15.0	16.4	15.4	16.7	17.1
	6H	16.2	17.4	16.6	17.8	18.2	15.2	16.5	15.6	16.9	17.3
	8H	16.3	17.5	16.7	17.9	18.3	15.4	16.6	15.8	17.0	17.3
	12H	16.4	17.5	16.8	17.9	18.3	15.4	16.6	15.8	17.0	17.4
4H	2H	14.5	15.8	14.9	16.1	16.5	15.4	16.5	15.9	16.9	17.4
	3H	16.2	17.3	16.6	17.7	18.1	14.6	15.9	15.0	16.3	16.7
	4H	16.8	17.8	17.3	18.2	18.7	15.8	16.9	16.2	17.3	17.7
	6H	17.3	18.1	17.7	18.6	19.0	16.1	17.0	16.5	17.5	17.9
	8H	17.4	18.2	17.9	18.6	19.1	16.3	17.1	16.7	17.6	18.0
	12H	17.5	18.2	18.0	18.7	19.2	16.3	17.1	16.8	17.6	18.0
8H	4H	17.0	17.8	17.4	18.2	18.7	16.4	17.1	16.8	17.6	18.0
	6H	17.5	18.2	18.0	18.7	19.1	16.3	17.1	16.7	17.5	18.0
	8H	17.7	18.3	18.2	18.8	19.3	16.6	17.2	17.0	17.7	18.2
	12H	17.9	18.4	18.4	18.9	19.4	16.6	17.2	17.2	17.7	18.2
12H	4H	16.9	17.7	17.4	18.1	18.6	16.8	17.3	17.3	17.8	18.3
	6H	17.5	18.1	18.0	18.6	19.1	16.3	17.0	16.8	17.5	18.0
	8H	17.8	18.3	18.3	18.8	19.3	16.6	17.2	17.1	17.6	18.2

Maximum UGR = 19.4

POLAR GRAPH



Maximum Candela = 1900.179 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.)