



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-L27-8TW-A-DALI-UNV 4000K EXAM ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN from Intertek
 [ISSUEDATE] 25-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2X2' LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD2AEG-L27-8TW-A-DALI-UNV 4000k EXAM ONLY
 [_SEARCH_SOURCE] LED
 [_SEARCH_APPLICATION] INDOOR, DIRECT, OFFICE, EDUCATION
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4061
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	39.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 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	3980	3976	4124
55	3304	3559	3690
65	2575	2962	2442
75	1914	1907	1417
85	1230	938	757

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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>
0.0	1770.037	1770.037	1770.037	1770.037	1770.037
2.5	1768.943	1765.660	1764.144	1768.017	1770.121
5.0	1764.060	1759.851	1756.652	1757.662	1759.683
7.5	1753.369	1747.223	1742.846	1741.667	1739.394
10.0	1736.616	1729.545	1721.295	1718.180	1715.570
12.5	1713.887	1706.479	1695.619	1688.716	1683.244
15.0	1684.086	1676.173	1662.788	1653.107	1646.288
17.5	1648.476	1638.543	1623.727	1612.783	1604.954
20.0	1606.301	1595.694	1578.857	1566.987	1557.979
22.5	1558.316	1546.446	1529.105	1517.487	1508.985
25.0	1506.207	1492.317	1473.375	1463.273	1455.697
27.5	1450.562	1434.904	1415.878	1408.554	1402.998
30.0	1392.559	1376.228	1357.960	1352.488	1348.952
32.5	1330.853	1314.353	1297.685	1295.917	1293.560
35.0	1264.264	1248.943	1234.800	1238.251	1237.915
37.5	1193.213	1179.744	1169.137	1176.293	1178.734
40.0	1119.637	1107.767	1101.033	1113.071	1118.459
42.5	1041.852	1033.013	1031.329	1049.092	1058.941
45.0	961.625	955.817	960.868	984.776	996.561
47.5	881.651	881.062	890.743	921.049	934.434
50.0	801.761	807.065	824.070	858.669	867.340
52.5	723.723	734.415	760.006	793.427	798.057
55.0	647.538	663.785	697.627	722.292	723.218
57.5	574.046	594.502	635.331	644.760	624.135
60.0	502.742	527.240	569.921	548.791	530.186
62.5	434.638	462.840	502.911	464.523	438.342
65.0	371.837	403.238	427.735	381.855	352.644
67.5	313.667	346.751	353.149	303.060	278.226
70.0	261.052	294.473	286.560	236.302	215.677
72.5	212.647	243.626	223.927	179.984	164.747
75.0	169.293	193.032	168.703	135.451	125.349
77.5	129.726	144.879	121.813	100.346	94.285
80.0	94.706	102.619	84.183	71.977	68.609
82.5	63.727	64.989	53.288	46.974	44.196
85.0	36.620	33.842	27.949	24.582	22.561
87.5	12.880	10.691	9.765	9.934	9.849
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.084	0.000	0.084
152.5	0.000	0.000	0.084	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.168	0.084	0.000	0.337	0.084
160.0	0.084	0.000	0.253	0.168	0.084
162.5	0.337	0.084	0.084	0.084	0.253
165.0	0.084	0.084	0.253	0.168	0.337
167.5	0.337	0.084	0.168	0.168	0.084
170.0	0.084	0.084	0.253	0.168	0.168
172.5	0.000	0.084	0.337	0.421	0.000
175.0	0.253	0.000	0.168	0.253	0.337
177.5	0.253	0.168	0.253	0.253	0.084
180.0	0.253	0.253	0.253	0.253	0.253

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Zone	Lumens	%Lamp	%Fixt
0-20	635.23	N.A.	15.60
0-30	1315.39	N.A.	32.40
0-40	2091.78	N.A.	51.50
0-60	3456.69	N.A.	85.10
0-80	4023.89	N.A.	99.10
0-90	4061.09	N.A.	100.00
10-90	3894.31	N.A.	95.90
20-40	1456.55	N.A.	35.90
20-50	2205.18	N.A.	54.30
40-70	1757.08	N.A.	43.30
60-80	567.21	N.A.	14.00
70-80	175.04	N.A.	4.30
80-90	37.19	N.A.	0.90
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	0.09	N.A.	0.00
110-180	0.09	N.A.	0.00
0-180	4061.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	166.78
10-20	468.45
20-30	680.16
30-40	776.39
40-50	748.64
50-60	616.28
60-70	392.16
70-80	175.04
80-90	37.19
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	0.03
160-170	0.04
170-180	0.02

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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	137	137	137	137	134	134	134	134	128	128	128	123	123	123	118	118	118	115
1	127	122	117	113	124	119	115	112	114	111	108	110	107	105	106	104	102	99
2	116	107	100	94	113	105	99	93	101	96	91	98	93	89	94	90	87	85
3	107	95	87	80	104	94	85	79	90	83	78	87	81	76	84	79	75	73
4	98	85	76	68	96	84	75	68	81	73	67	78	71	66	76	70	65	63
5	91	77	67	59	88	75	66	59	73	65	59	71	64	58	69	62	57	55
6	84	69	59	52	82	68	59	52	66	58	52	64	57	51	62	56	51	49
7	78	63	53	47	76	62	53	46	60	52	46	59	51	46	57	51	45	43
8	73	58	48	42	71	57	48	42	55	47	41	54	47	41	53	46	41	39
9	68	53	44	38	66	52	44	38	51	43	38	50	43	37	49	42	37	35
10	64	49	40	34	62	49	40	34	47	40	34	46	39	34	45	39	34	32

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UGR TABLE - CORRECTED

Reflectances

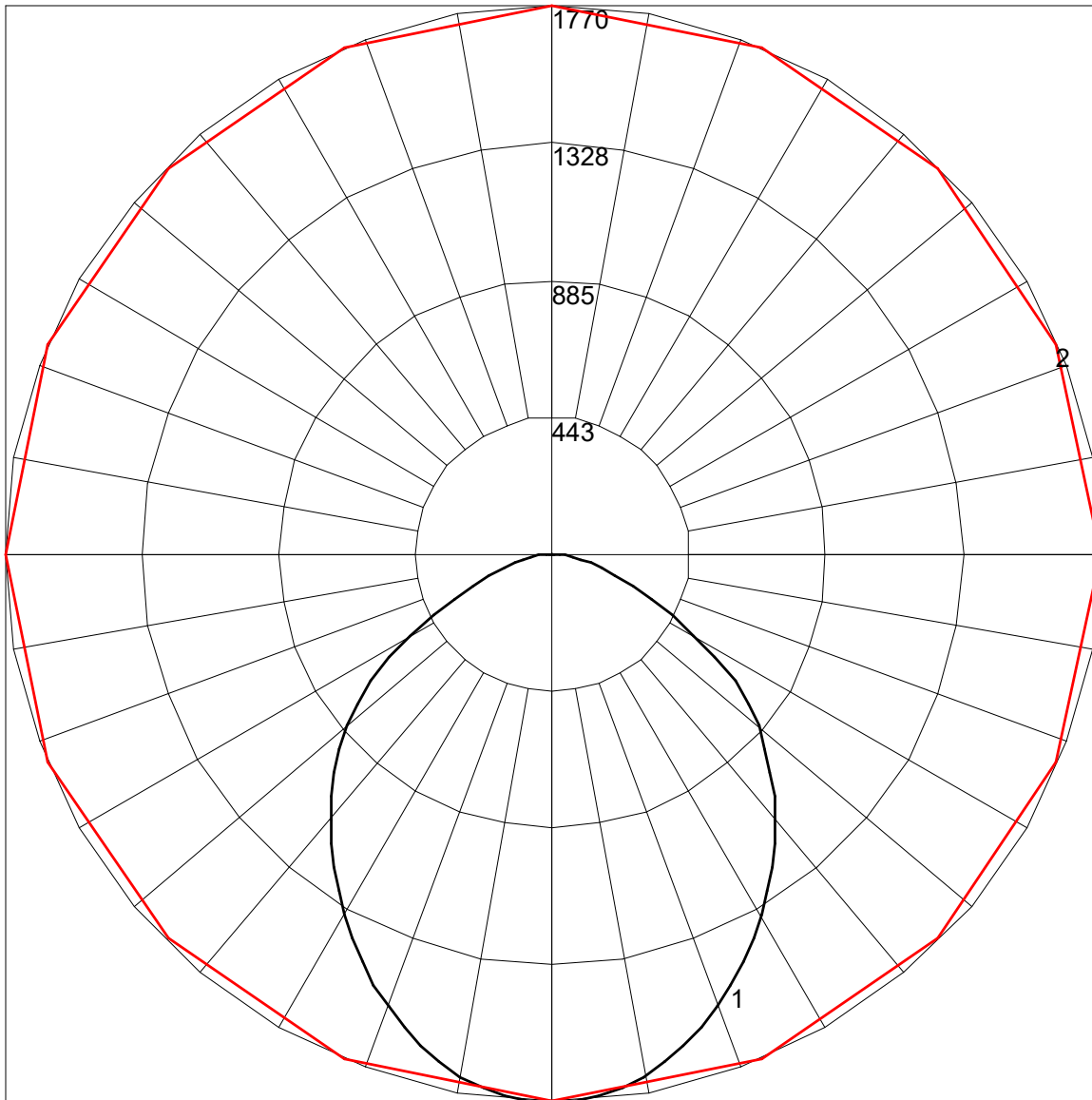
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	15.4	17.0	15.8	17.3	17.6	UGR Viewed Endwise				
	3H	16.8	18.2	17.1	18.5	18.8	16.0	17.5	16.3	17.8	18.1
	4H	17.2	18.5	17.6	18.9	19.2	16.8	18.2	17.2	18.5	18.9
	6H	17.5	18.7	17.9	19.1	19.5	17.0	18.3	17.4	18.7	19.1
	8H	17.6	18.7	18.0	19.1	19.5	17.2	18.4	17.6	18.7	19.1
	12H	17.6	18.7	18.0	19.1	19.5	17.2	18.3	17.6	18.7	19.1
4H	2H	16.0	17.3	16.4	17.7	18.1	17.2	18.3	17.6	18.7	19.1
	3H	17.6	18.6	18.0	19.0	19.5	16.5	17.8	16.9	18.1	18.5
	4H	18.1	19.1	18.6	19.5	20.0	17.5	18.6	17.9	19.0	19.4
	6H	18.5	19.4	19.0	19.8	20.3	17.8	18.8	18.2	19.2	19.6
	8H	18.6	19.4	19.1	19.9	20.3	18.0	18.8	18.4	19.3	19.7
	12H	18.7	19.4	19.2	19.9	20.3	18.0	18.8	18.5	19.3	19.7
8H	4H	18.3	19.1	18.7	19.5	20.0	18.0	18.8	18.4	19.2	19.7
	6H	18.7	19.4	19.2	19.9	20.4	18.2	18.9	18.7	19.4	19.8
	8H	18.9	19.5	19.4	20.0	20.5	18.3	18.9	18.8	19.4	19.9
	12H	19.0	19.5	19.5	20.0	20.6	18.3	18.9	18.9	19.4	19.9
12H	4H	18.3	19.0	18.8	19.5	19.9	18.0	18.7	18.5	19.2	19.6
	6H	18.8	19.3	19.3	19.8	20.4	18.3	18.8	18.8	19.3	19.8
	8H	18.9	19.5	19.4	19.9	20.5	18.4	18.9	18.9	19.4	19.9

Maximum UGR = 20.6

POLAR GRAPH



Maximum Candela = 1770.121 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)