



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-L27-835-A-DIM-UNV EXAM ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN from Intertek
 [ISSUEDATE] 17-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2X2' LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD2AEG-L27-835-A-DIM-UNV EXAM ONLY
 [LAMPCAT] HLM 80 CRI, 3500K CCT
 [_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	4056
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	32.2
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	3975	3972	4119
55	3300	3555	3685
65	2572	2958	2439
75	1912	1905	1415
85	1228	937	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	1767.858	1767.858	1767.858	1767.858	1767.858
2.5	1766.765	1763.486	1761.972	1765.840	1767.942
5.0	1761.888	1757.684	1754.489	1755.498	1757.516
7.5	1751.210	1745.072	1740.700	1739.523	1737.253
10.0	1734.478	1727.415	1719.176	1716.065	1713.458
12.5	1711.777	1704.378	1693.531	1686.637	1681.172
15.0	1682.012	1674.109	1660.740	1651.071	1644.261
17.5	1646.447	1636.525	1621.727	1610.797	1602.978
20.0	1604.323	1593.729	1576.913	1565.058	1556.061
22.5	1556.397	1544.542	1527.222	1515.619	1507.127
25.0	1504.352	1490.479	1471.561	1461.472	1453.904
27.5	1448.776	1433.137	1414.135	1406.820	1401.271
30.0	1390.845	1374.533	1356.288	1350.823	1347.292
32.5	1329.214	1312.735	1296.087	1294.321	1291.967
35.0	1262.707	1247.405	1233.280	1236.727	1236.391
37.5	1191.744	1178.292	1167.697	1174.844	1177.283
40.0	1118.259	1106.403	1099.677	1111.700	1117.082
42.5	1040.569	1031.741	1030.059	1047.800	1057.637
45.0	960.441	954.640	959.685	983.563	995.334
47.5	880.566	879.977	889.646	919.915	933.284
50.0	800.774	806.071	823.055	857.612	866.272
52.5	722.832	733.510	759.071	792.450	797.075
55.0	646.740	662.968	696.768	721.403	722.328
57.5	573.339	593.770	634.549	643.966	623.366
60.0	502.123	526.591	569.219	548.115	529.533
62.5	434.103	462.270	502.292	463.951	437.802
65.0	371.380	402.741	427.208	381.385	352.209
67.5	313.281	346.324	352.714	302.687	277.883
70.0	260.731	294.110	286.207	236.011	215.412
72.5	212.385	243.326	223.652	179.762	164.544
75.0	169.084	192.795	168.496	135.284	125.195
77.5	129.567	144.701	121.663	100.223	94.169
80.0	94.590	102.493	84.080	71.888	68.525
82.5	63.648	64.909	53.222	46.916	44.142
85.0	36.575	33.800	27.914	24.551	22.533
87.5	12.864	10.678	9.753	9.921	9.837
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	0.336	0.084
160.0	0.084	0.000	0.252	0.168	0.084
162.5	0.336	0.084	0.084	0.084	0.252
165.0	0.084	0.084	0.252	0.168	0.336
167.5	0.336	0.084	0.168	0.168	0.084
170.0	0.084	0.084	0.252	0.168	0.168
172.5	0.000	0.084	0.336	0.420	0.000
175.0	0.252	0.000	0.168	0.252	0.336
177.5	0.252	0.168	0.252	0.252	0.084
180.0	0.252	0.252	0.252	0.252	0.252

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Zone	Lumens	%Lamp	%Fixt
0-20	634.45	N.A.	15.60
0-30	1313.77	N.A.	32.40
0-40	2089.2	N.A.	51.50
0-60	3452.43	N.A.	85.10
0-80	4018.94	N.A.	99.10
0-90	4056.09	N.A.	100.00
10-90	3889.51	N.A.	95.90
20-40	1454.75	N.A.	35.90
20-50	2202.47	N.A.	54.30
40-70	1754.91	N.A.	43.30
60-80	566.51	N.A.	14.00
70-80	174.83	N.A.	4.30
80-90	37.15	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	4056.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	166.58
10-20	467.87
20-30	679.32
30-40	775.43
40-50	747.71
50-60	615.52
60-70	391.68
70-80	174.83
80-90	37.15
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	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

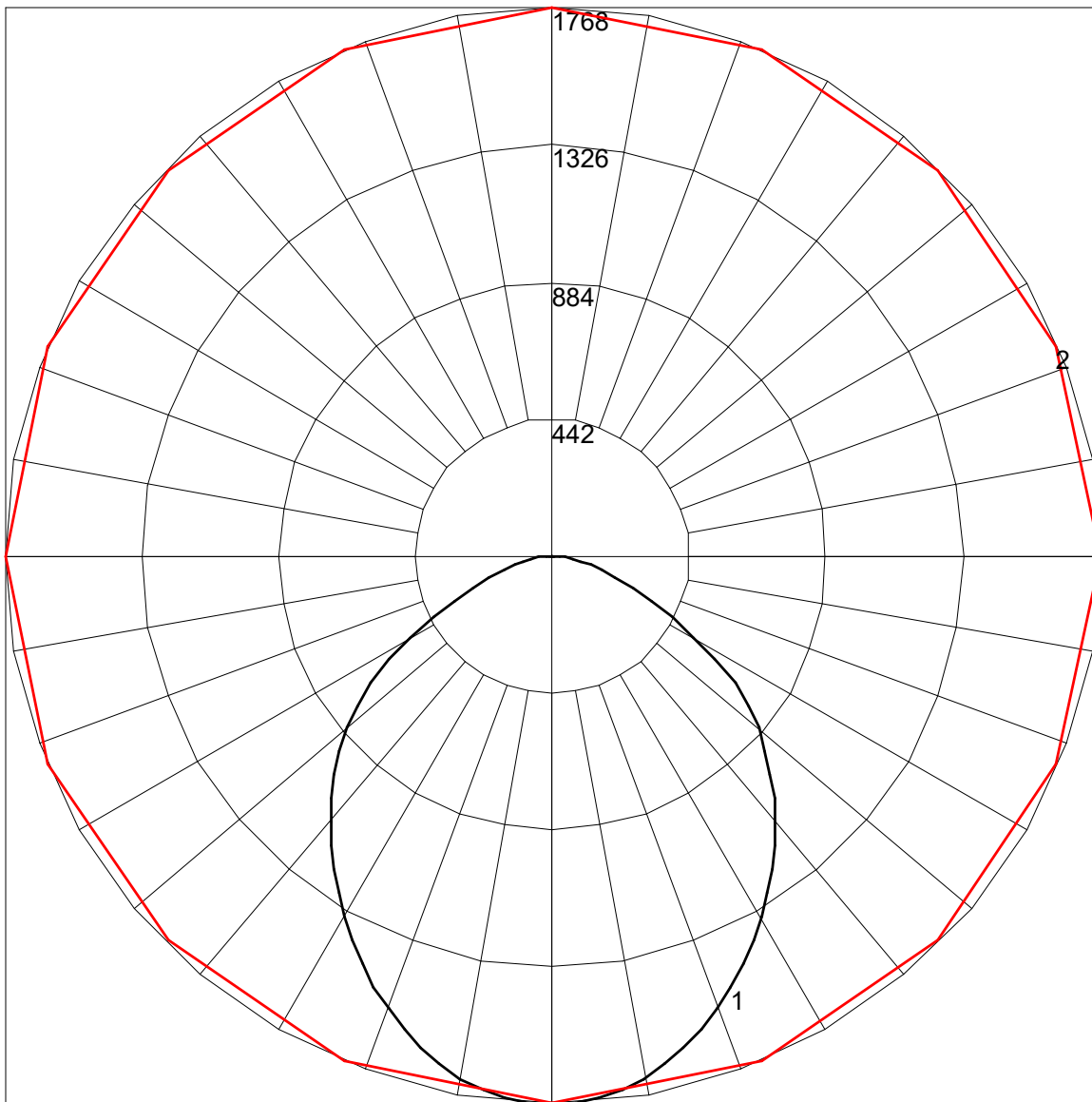
X=2H	Y=2H	15.9	17.5	16.3	17.8	18.1	16.5	18.0	16.8	18.3	18.6
	3H	17.3	18.7	17.6	19.0	19.3	17.3	18.7	17.7	19.0	19.4
	4H	17.7	19.0	18.1	19.4	19.7	17.5	18.8	17.9	19.2	19.6
	6H	18.0	19.2	18.4	19.6	20.0	17.7	18.9	18.1	19.2	19.6
	8H	18.1	19.2	18.5	19.6	20.0	17.7	18.8	18.1	19.2	19.6
	12H	18.1	19.2	18.5	19.6	20.0	17.7	18.8	18.1	19.2	19.6

UGR Viewed Endwise

4H	2H	16.5	17.8	16.9	18.2	18.6	17.0	18.3	17.4	18.6	19.0
	3H	18.1	19.1	18.5	19.5	20.0	18.0	19.1	18.4	19.5	19.9
	4H	18.6	19.6	19.1	20.0	20.5	18.3	19.3	18.7	19.7	20.1
	6H	19.0	19.9	19.5	20.3	20.8	18.5	19.3	18.9	19.8	20.2
	8H	19.1	19.9	19.6	20.4	20.8	18.5	19.3	19.0	19.8	20.2
	12H	19.2	19.9	19.7	20.4	20.8	18.5	19.3	19.0	19.7	20.2
8H	4H	18.8	19.6	19.2	20.0	20.5	18.5	19.3	18.9	19.7	20.2
	6H	19.2	19.9	19.7	20.4	20.9	18.7	19.4	19.2	19.9	20.3
	8H	19.4	20.0	19.9	20.5	21.0	18.8	19.4	19.3	19.9	20.4
	12H	19.5	20.0	20.0	20.5	21.1	18.8	19.4	19.4	19.9	20.4
12H	4H	18.8	19.5	19.3	20.0	20.4	18.5	19.2	19.0	19.7	20.1
	6H	19.3	19.8	19.8	20.3	20.9	18.8	19.3	19.3	19.8	20.3
	8H	19.4	20.0	19.9	20.4	21.0	18.9	19.4	19.4	19.9	20.4

Maximum UGR = 21.1

POLAR GRAPH



Maximum Candela = 1767.942 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.)