



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARG-L27-8TW-A-DALI-UNV 4000K AMBIENT 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] AMD2ARG-L27-8TW-A-DALI-UNV AMBIENT ONLY
[_SEARCH_SOURCE TYPE] 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	2759
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	26.2
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	2704	2702	2802
55	2244	2418	2507
65	1749	2012	1659
75	1300	1296	963
85	835	638	515

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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	1202.544	1202.544	1202.544	1202.544	1202.544
2.5	1201.801	1199.570	1198.541	1201.172	1202.601
5.0	1198.484	1195.624	1193.451	1194.137	1195.509
7.5	1191.220	1187.045	1184.071	1183.270	1181.726
10.0	1179.839	1175.034	1169.429	1167.313	1165.540
12.5	1164.396	1159.363	1151.985	1147.296	1143.578
15.0	1144.150	1138.774	1129.680	1123.103	1118.470
17.5	1119.957	1113.208	1103.142	1095.707	1090.388
20.0	1091.303	1084.097	1072.658	1064.594	1058.475
22.5	1058.703	1050.639	1038.857	1030.965	1025.188
25.0	1023.301	1013.864	1000.995	994.132	988.985
27.5	985.496	974.858	961.932	956.957	953.182
30.0	946.090	934.994	922.584	918.866	916.464
32.5	904.167	892.957	881.633	880.432	878.831
35.0	858.928	848.518	838.910	841.255	841.026
37.5	810.656	801.506	794.299	799.161	800.819
40.0	760.670	752.605	748.030	756.209	759.869
42.5	707.823	701.818	700.674	712.742	719.433
45.0	653.318	649.372	652.803	669.046	677.053
47.5	598.984	598.584	605.161	625.751	634.845
50.0	544.708	548.311	559.864	583.371	589.262
52.5	491.690	498.953	516.340	539.046	542.192
55.0	439.930	450.968	473.960	490.718	491.347
57.5	390.000	403.898	431.637	438.043	424.030
60.0	341.558	358.201	387.198	372.842	360.203
62.5	295.289	314.448	341.672	315.592	297.805
65.0	252.622	273.955	290.599	259.428	239.582
67.5	213.102	235.579	239.925	205.896	189.024
70.0	177.356	200.062	194.686	160.541	146.529
72.5	144.470	165.517	152.134	122.279	111.927
75.0	115.016	131.144	114.615	92.024	85.161
77.5	88.135	98.430	82.759	68.174	64.056
80.0	64.342	69.719	57.193	48.900	46.612
82.5	43.295	44.153	36.203	31.914	30.026
85.0	24.879	22.992	18.988	16.700	15.328
87.5	8.751	7.264	6.634	6.749	6.692
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	0.057	0.000	0.057
152.5	0.000	0.000	0.057	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.114	0.057	0.000	0.229	0.057
160.0	0.057	0.000	0.172	0.114	0.057
162.5	0.229	0.057	0.057	0.057	0.172
165.0	0.057	0.057	0.172	0.114	0.229
167.5	0.229	0.057	0.114	0.114	0.057
170.0	0.057	0.057	0.172	0.114	0.114
172.5	0.000	0.057	0.229	0.286	0.000
175.0	0.172	0.000	0.114	0.172	0.229
177.5	0.172	0.114	0.172	0.172	0.057
180.0	0.172	0.172	0.172	0.172	0.172

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Zone	Lumens	%Lamp	%Fixt
0-20	431.57	N.A.	15.60
0-30	893.66	N.A.	32.40
0-40	1421.13	N.A.	51.50
0-60	2348.44	N.A.	85.10
0-80	2733.79	N.A.	99.10
0-90	2759.06	N.A.	100.00
10-90	2645.75	N.A.	95.90
20-40	989.56	N.A.	35.90
20-50	1498.18	N.A.	54.30
40-70	1193.74	N.A.	43.30
60-80	385.35	N.A.	14.00
70-80	118.92	N.A.	4.30
80-90	25.27	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	0.06	N.A.	0.00
110-180	0.06	N.A.	0.00
0-180	2759.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.31
10-20	318.26
20-30	462.09
30-40	527.47
40-50	508.62
50-60	418.69
60-70	266.43
70-80	118.92
80-90	25.27
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	0.02
160-170	0.03
170-180	0.01

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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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	104	104	104	102
1	112	107	103	100	109	105	102	98	101	98	95	97	95	92	93	91	90	88
2	102	95	88	83	100	93	87	82	89	84	80	86	82	78	83	80	77	75
3	94	84	76	70	92	82	75	70	80	73	68	77	72	67	74	70	66	64
4	86	75	67	60	84	74	66	60	71	64	59	69	63	58	67	62	58	55
5	80	67	59	52	78	66	58	52	64	57	52	62	56	51	60	55	51	48
6	74	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	69	56	47	41	67	55	47	41	53	46	41	52	45	40	50	45	40	38
8	64	51	43	37	63	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	33	59	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	30	55	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

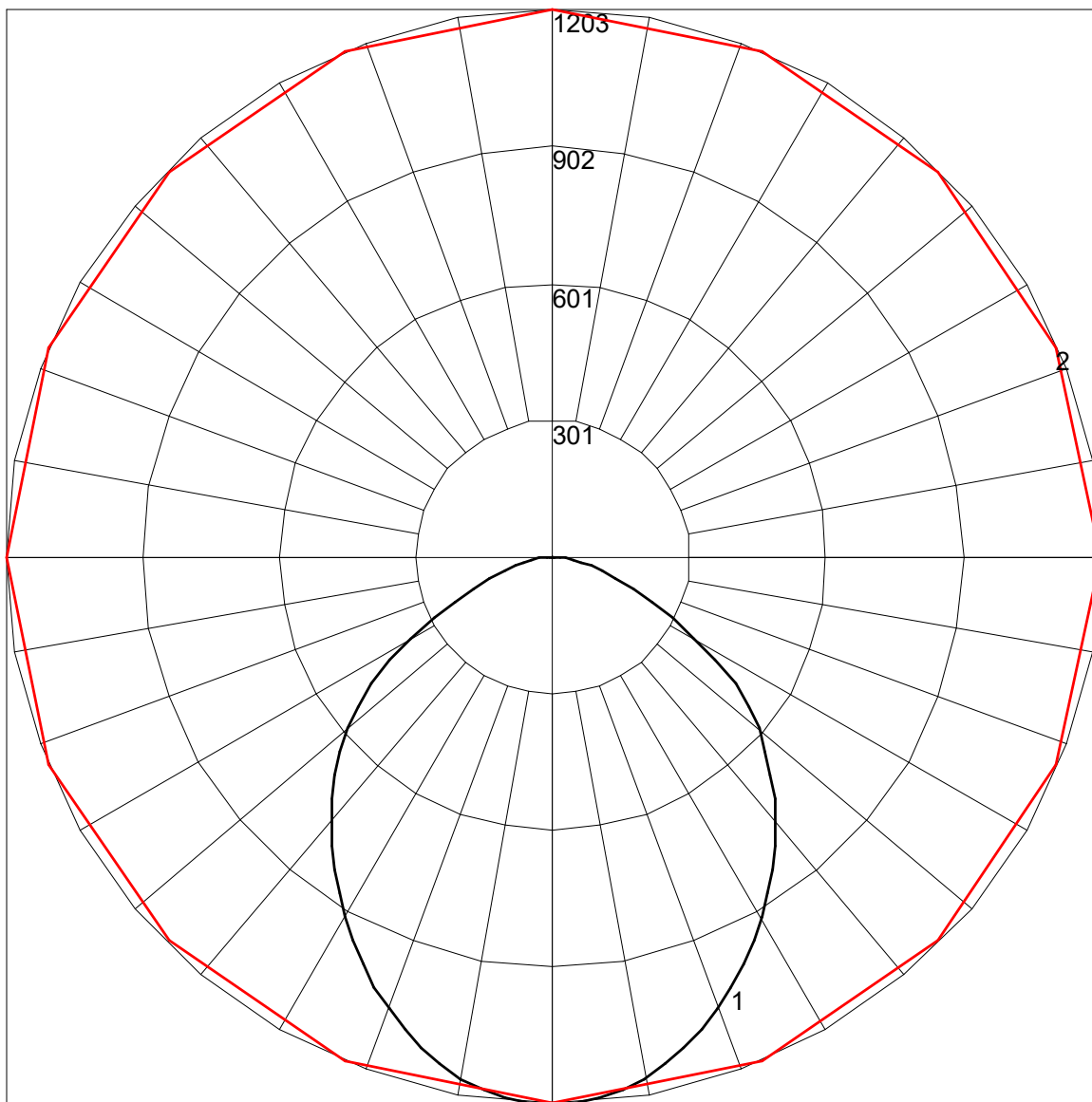
X=2H	Y=2H	14.5	16.1	14.9	16.4	16.7	15.1	16.6	15.4	16.9	17.2
	3H	15.9	17.3	16.2	17.6	17.9	15.9	17.3	16.3	17.6	18.0
	4H	16.3	17.6	16.7	18.0	18.3	16.1	17.4	16.5	17.8	18.2
	6H	16.6	17.8	17.0	18.2	18.6	16.3	17.5	16.7	17.8	18.2
	8H	16.7	17.8	17.1	18.2	18.6	16.3	17.4	16.7	17.8	18.2
	12H	16.7	17.8	17.1	18.2	18.6	16.3	17.4	16.7	17.8	18.2
4H	2H	15.1	16.4	15.5	16.8	17.2	15.6	16.9	16.0	17.2	17.6
	3H	16.7	17.7	17.1	18.1	18.6	16.6	17.7	17.0	18.1	18.5
	4H	17.2	18.2	17.7	18.6	19.1	16.9	17.9	17.3	18.3	18.7
	6H	17.6	18.5	18.1	18.9	19.4	17.1	17.9	17.5	18.4	18.8
	8H	17.7	18.5	18.2	19.0	19.4	17.1	17.9	17.6	18.4	18.8
	12H	17.8	18.5	18.3	19.0	19.4	17.1	17.9	17.6	18.3	18.8
8H	4H	17.4	18.2	17.8	18.6	19.1	17.1	17.9	17.5	18.3	18.8
	6H	17.8	18.5	18.3	19.0	19.5	17.3	18.0	17.8	18.5	18.9
	8H	18.0	18.6	18.5	19.1	19.6	17.4	18.0	17.9	18.5	19.0
	12H	18.1	18.6	18.6	19.1	19.7	17.4	18.0	18.0	18.5	19.0
12H	4H	17.4	18.1	17.9	18.6	19.0	17.1	17.8	17.6	18.3	18.7
	6H	17.9	18.4	18.4	18.9	19.5	17.4	17.9	17.9	18.4	18.9
	8H	18.0	18.6	18.5	19.0	19.6	17.5	18.0	18.0	18.5	19.0

Maximum UGR = 19.7

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POLAR GRAPH



Maximum Candela = 1202.601 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.)