



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-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] AMD2AEG-L27-8TW-A-DALI-UNV 4000k AMBIENT 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	2730
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	28
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	2675	2673	2772
55	2221	2393	2480
65	1731	1991	1641
75	1287	1282	953
85	827	631	509

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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	1189.904	1189.904	1189.904	1189.904	1189.904
2.5	1189.168	1186.961	1185.943	1188.546	1189.961
5.0	1185.886	1183.056	1180.906	1181.585	1182.943
7.5	1178.699	1174.568	1171.625	1170.832	1169.305
10.0	1167.437	1162.683	1157.137	1155.043	1153.289
12.5	1152.157	1147.177	1139.877	1135.236	1131.558
15.0	1132.124	1126.804	1117.806	1111.298	1106.714
17.5	1108.185	1101.507	1091.547	1084.190	1078.927
20.0	1079.833	1072.702	1061.384	1053.404	1047.349
22.5	1047.575	1039.596	1027.938	1020.128	1014.412
25.0	1012.545	1003.207	990.474	983.683	978.589
27.5	975.137	964.611	951.821	946.898	943.163
30.0	936.145	925.166	912.886	909.208	906.831
32.5	894.663	883.571	872.366	871.178	869.593
35.0	849.899	839.599	830.092	832.412	832.186
37.5	802.135	793.081	785.950	790.760	792.402
40.0	752.674	744.695	740.167	748.260	751.882
42.5	700.383	694.441	693.309	705.250	711.871
45.0	646.451	642.546	645.941	662.014	669.936
47.5	592.688	592.292	598.800	619.173	628.172
50.0	538.982	542.548	553.979	577.239	583.068
52.5	486.522	493.709	510.913	533.380	536.492
55.0	435.306	446.228	468.978	485.560	486.182
57.5	385.901	399.653	427.100	433.438	419.573
60.0	337.968	354.436	383.128	368.923	356.417
62.5	292.185	311.143	338.081	312.275	294.675
65.0	249.967	271.076	287.544	256.701	237.064
67.5	210.862	233.103	237.404	203.731	187.037
70.0	175.492	197.959	192.639	158.854	144.989
72.5	142.951	163.777	150.535	120.994	110.751
75.0	113.807	129.766	113.410	91.057	84.266
77.5	87.208	97.395	81.889	67.458	63.383
80.0	63.666	68.986	56.592	48.386	46.123
82.5	42.840	43.689	35.823	31.578	29.711
85.0	24.618	22.750	18.789	16.525	15.167
87.5	8.659	7.187	6.565	6.678	6.621
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	0.113	0.057	0.000	0.226	0.057
160.0	0.057	0.000	0.170	0.113	0.057
162.5	0.226	0.057	0.057	0.057	0.170
165.0	0.057	0.057	0.170	0.113	0.226
167.5	0.226	0.057	0.113	0.113	0.057
170.0	0.057	0.057	0.170	0.113	0.113
172.5	0.000	0.057	0.226	0.283	0.000
175.0	0.170	0.000	0.113	0.170	0.226
177.5	0.170	0.113	0.170	0.170	0.057
180.0	0.170	0.170	0.170	0.170	0.170

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Zone	Lumens	%Lamp	%Fixt
0-20	427.03	N.A.	15.60
0-30	884.27	N.A.	32.40
0-40	1406.19	N.A.	51.50
0-60	2323.75	N.A.	85.10
0-80	2705.06	N.A.	99.10
0-90	2730.06	N.A.	100.00
10-90	2617.94	N.A.	95.90
20-40	979.16	N.A.	35.90
20-50	1482.43	N.A.	54.30
40-70	1181.19	N.A.	43.30
60-80	381.30	N.A.	14.00
70-80	117.67	N.A.	4.30
80-90	25.00	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	2730.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.12
10-20	314.91
20-30	457.23
30-40	521.93
40-50	503.27
50-60	414.29
60-70	263.63
70-80	117.67
80-90	25.00
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	104	104	104	104	102	102	102	102	97	97	97	93	93	93	89	89	89	87
1	96	92	89	86	94	90	87	85	87	84	82	83	81	79	80	79	77	75
2	88	82	76	71	86	80	75	71	77	73	69	74	71	67	71	69	66	64
3	81	72	66	60	79	71	65	60	68	63	59	66	62	58	64	60	57	55
4	74	65	57	52	72	63	57	52	61	55	51	59	54	50	57	53	49	48
5	69	58	51	45	67	57	50	45	55	49	44	54	48	44	52	47	43	42
6	64	53	45	40	62	52	45	40	50	44	39	49	43	39	47	42	39	37
7	59	48	40	35	58	47	40	35	46	40	35	45	39	35	43	38	34	33
8	55	44	37	32	54	43	36	32	42	36	31	41	35	31	40	35	31	29
9	52	40	33	29	50	40	33	29	39	33	29	38	32	28	37	32	28	27
10	48	37	31	26	47	37	30	26	36	30	26	35	30	26	34	29	26	24

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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

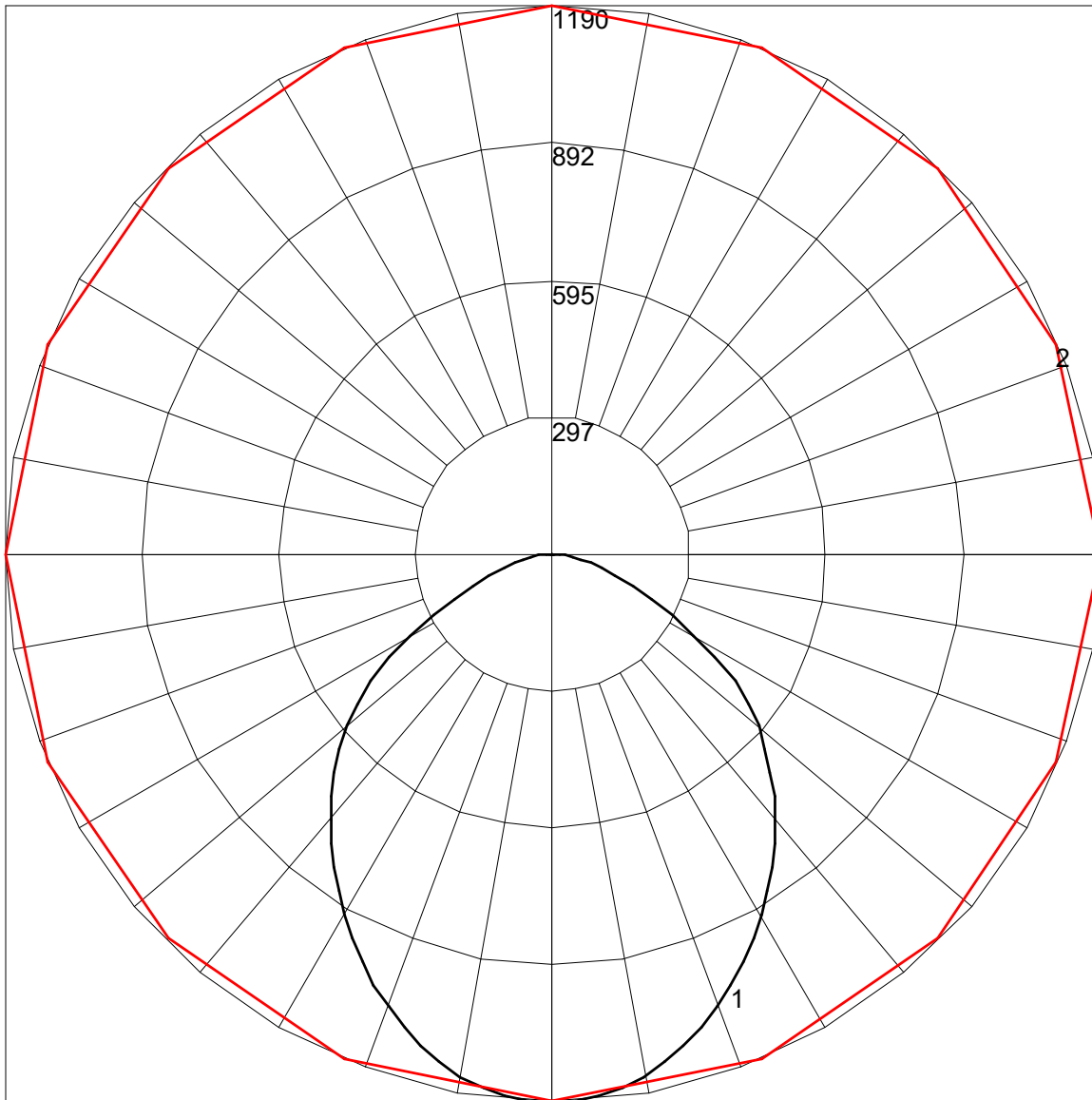
X=2H	Y=2H	15.0	16.6	15.4	16.9	17.2	15.6	17.1	15.9	17.4	17.7
	3H	16.4	17.8	16.7	18.1	18.4	16.4	17.8	16.8	18.1	18.5
	4H	16.8	18.1	17.2	18.5	18.8	16.6	17.9	17.0	18.3	18.7
	6H	17.1	18.3	17.5	18.7	19.1	16.8	18.0	17.2	18.3	18.7
	8H	17.2	18.3	17.6	18.7	19.1	16.8	17.9	17.2	18.3	18.7
	12H	17.2	18.3	17.6	18.7	19.1	16.8	17.9	17.2	18.3	18.7

UGR Viewed Endwise

4H	2H	15.6	16.9	16.0	17.3	17.6	16.1	17.4	16.5	17.7	18.1
	3H	17.2	18.2	17.6	18.6	19.0	17.1	18.2	17.5	18.6	19.0
	4H	17.7	18.7	18.2	19.1	19.6	17.4	18.4	17.8	18.8	19.2
	6H	18.1	19.0	18.6	19.4	19.9	17.6	18.4	18.0	18.9	19.3
	8H	18.2	19.0	18.7	19.5	19.9	17.6	18.4	18.1	18.9	19.3
	12H	18.3	19.0	18.8	19.5	19.9	17.6	18.4	18.1	18.8	19.3
8H	4H	17.9	18.7	18.3	19.1	19.6	17.6	18.4	18.0	18.8	19.3
	6H	18.3	19.0	18.8	19.5	20.0	17.8	18.5	18.3	19.0	19.4
	8H	18.5	19.1	19.0	19.6	20.1	17.9	18.5	18.4	19.0	19.5
	12H	18.6	19.1	19.1	19.6	20.2	17.9	18.5	18.5	19.0	19.5
12H	4H	17.9	18.6	18.4	19.1	19.5	17.6	18.3	18.1	18.8	19.2
	6H	18.3	18.9	18.9	19.4	19.9	17.8	18.4	18.4	18.9	19.4
	8H	18.5	19.1	19.0	19.5	20.1	17.9	18.5	18.5	19.0	19.5

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 1189.961 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.)