Day-Brite CFI by Signify

Recessed

Arioso air perf 2x4

T5, T5HO, or T8

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

The Day-Brite / CFI Arioso recessed air perf offers air handling capabilities along with all the benefits of the standard Arioso. Through integrated side slots, this luminaire incorporates the air handling feature without disturbing the simple clean lines and soft natural illumination that is the foundation of the Arioso recessed family.

Ordering guide

Example: 2AVGA232-PMW-UNV-1/2-EBLHE-LPT835HL

Width	Family	Ceiling Type	Air Function	No. of Lamps (not included)	Lamp Type	Shielding	Voltage	Options
2	AV	G	A		–	PMW –	–	
2 2'	**AV** Arioso recessed perf	**G** Grid	**A** Air handling	**2** **3**	**28** 28WT5 (46") **32** 32WT8 (48") **54HO** 54WT5HO (46")	**PMW** Perforated metal w/ white overlay	**120** **277** **347** **UNV** Universal Voltage 120-277V	**1/2** One 2-lamp ballast **1/3** One 3-lamp ballast **1/21** 2-lamp & 1-lamp ballasts **EB** Electronic ballast, <10% THD, std. ballast factor **EB10R** T8 electronic ballast, program rapid start, <10% THD **EBHE** T8 electronic ballast, high efficiency, std. ballast factor **EBLHE** T8 electronic ballast, high efficiency, low ballast factor **EBHHE** T8 electronic ballast, high efficiency, high ballast factor **EBSD** T8 electronic step dimming ballast, .88 ballast factor **EBD7** Advance Mark 7 dimming ballast, 0-10V (low voltage) control **EBDX** Advance Mark 10 dimming ballast, phase control **EBD** Electronic dimming ballast, customer specified **E1** B100 emerg. ballast, T8, 350-450 lumens, 120/277V **E1CAN** B100-CAN emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V **E7** B60 emerg. ballast, T8, 600-700 lumens, 120/277V **E5** B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV **E5CAN** B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V **E5ST** B50ST emerg. ballast w/self test, T8, 1100-1400 lumens, UNV **E7LP** LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V **E6LP** LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V **F1** 3/8" flex 3 wire, 18 gauge 6' **F2** 3/8" flex 4 wire, 18 gauge 6' **F2/5W** 3/8" flex, 5 wire 18 gauge 6' **GLR** Fusing, fast blow **LPT830** Installed T8/T5/T5HO lamps, 80+ CRI, 3000K **LPT835** Installed T8/T5/T5HO lamps, 80+ CRI, 3500K **LPT841** Installed T8/T5/T5HO lamps, 80+ CRI, 4100K **LPT830HL** Installed T8/T5 high lumen lamps, 80+ CRI, 3000K **LPT835HL** Installed T8/T5 high lumen lamps, 80+ CRI, 3500K **LPT841HL** Installed T8/T5 high lumen lamps, 80+ CRI, 4100K

Accessories (order separately)

- **AVHD** Hold down clips
- **AV-DC4** Debris cover 2'x4'
- **FMA24** 2'x4' "F" mounting frame for NEMA "F" mounting

2AVGA Arioso recessed air perf 2x4

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Application

- Architectural air handling recessed direct/indirect lighting for glare free illumination.
- Air return through side slots.
- Suitable for grid inverted T (NEMA “G”) ceilings. Flange type ceilings (NEMA “F”) require independently mounted flange kits (FMA).
- Fully recessed mounting, suitable for row mounting.

Construction/Finish

- Top reflector and end panels are formed together with no gaps.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- Soft white baked enamel finish.
- Easy ballast access through lamp compartment.
- Optional hold down clips available (order separately: cat # AVHD).

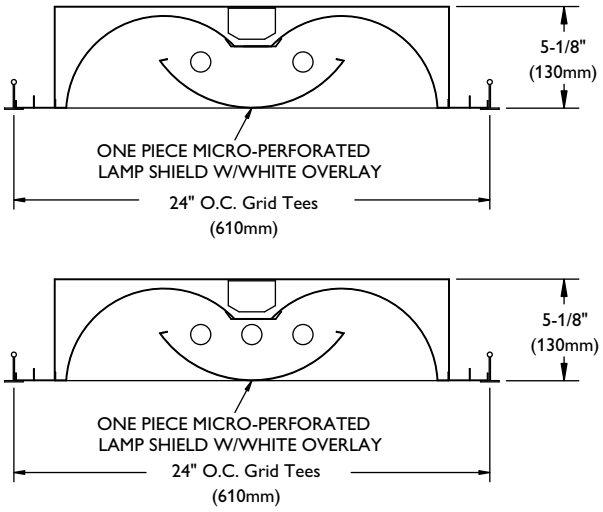
Electrical

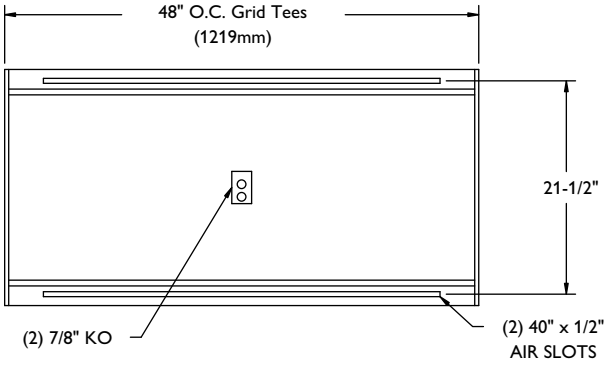
- cULus listed for damp locations.
- Self-contained fluorescent emergency power pack can be incorporated.

Enclosure

- Micro-perforated mesh lamp shield provides soft awareness of light source.
- Soft white overlay on inside of micro-perforated mesh conceals lamp image and balances between reflected and direct light.
- Swing down lamp shield for easy relamping.
- Drop out basket will fall out in fire situation before flames reach the luminaire.
- Lamp shield end trim is included for field installation if desired (not required).

Dimensions





Hg

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, “Contain Mercury” and/or the symbol “HG”. Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

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Photometry

Arioso recessed air perf 2x4 2 lamp T8

Efficiency – 57.8% **LER – 50** **TER – 43**

Catalog No.	2AVGA232-PMW-1/2-EB
Test No.	24697
S/MH	1.3
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	.88
Input Watts	58

Comparative yearly lighting energy cost per 1000 lumens – **$4.80** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	End	45	Cross
0	1163	1163	1163
5	1167	1162	1149
10	1149	1148	1139
15	1120	1125	1122
20	1083	1093	1096
25	1039	1056	1064
30	980	1003	1025
35	910	947	969
40	838	883	906
45	757	813	825
50	674	735	727
55	579	641	601
60	488	528	452
65	400	399	307
70	310	252	234
75	219	156	163
80	132	97	98
85	54	46	42

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	911	16.0	27.6
0-40	1502	26.4	45.6
0-60	2667	46.8	80.9
0-90	3296	57.8	100.00

Average Luminance

Angle	End	45°	Cross
45	1820	1955	1984
55	1716	1900	1782
65	1609	1605	1235
75	1439	1025	1071
85	1053	897	819

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	68	68	68	67	67	67	64	64
1	63	59	57	60	58	56	56	55
2	56	53	48	56	52	47	50	46
3	52	46	41	51	45	40	44	40
4	47	40	35	46	40	35	39	34
5	44	36	32	42	35	30	34	30
6	40	33	28	40	32	28	30	27
7	38	29	25	36	28	25	28	23
8	34	27	22	34	27	22	26	22
9	33	25	20	32	25	20	23	20
10	30	23	19	29	23	17	22	17

Arioso recessed air perf 2x4 3 lamp T8

Efficiency – 56.4% **LER – 52** **TER – 45**

Catalog No.	2AVGA332-PMW-1/3-EB
Test No.	24696
S/MH	1.3
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	.88
Input Watts	81

Comparative yearly lighting energy cost per 1000 lumens – **$4.62** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	End	45	Cross
0	1735	1735	1735
5	1739	1728	1714
10	1711	1705	1695
15	1670	1669	1667
20	1614	1621	1628
25	1543	1561	1579
30	1454	1487	1513
35	1354	1397	1426
40	1242	1299	1320
45	1121	1189	1191
50	991	1065	1042
55	855	919	859
60	719	755	645
65	584	570	439
70	453	361	338
75	321	226	240
80	192	141	145
85	82	65	61

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1353	15.8	28.0
0-40	2224	26.0	46.1
0-60	3921	45.9	81.2
0-90	4829	56.5	100.0

Average Luminance

Angle	End	45°	Cross
45	2695	2859	2864
55	2534	2724	2546
65	2350	2293	1766
75	2109	1485	1577
85	1600	1268	1190

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	67	67	67	66	66	66	63	63
1	61	58	56	59	57	56	55	54
2	56	52	47	55	51	46	48	46
3	51	45	40	50	44	40	42	39
4	46	40	34	46	39	34	38	34
5	42	35	30	41	34	30	34	29
6	40	32	27	39	32	27	30	27
7	36	28	23	35	28	23	28	23
8	34	27	22	34	26	22	26	20
9	32	25	20	30	23	20	23	20
10	29	23	17	28	22	17	22	17

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