

PHILIPS
Day-Brite
CFI

Recessed

Arioso LED 2x4

ribbed acrylic lens, 3800,
4300, 4900, or 7400 lumens



Project: _____
Location: _____
Cat.No: _____
Type: _____
Lamps: _____ Qty: _____
Notes: _____

The Philips Day-Brite / Philips CFI Arioso recessed LED with ribbed acrylic lens offers standard-setting efficiency without aesthetic compromise. These LED luminaires combine state-of-the-art, flexible and globally-recognized LED lighting platforms with proven Arioso optical combinations.

Ordering guide

Example: 2AVEG38L835-4-ACR-UNV-DIM

Width	Family	Ceiling Type	Lumen Package	Color	Length	Shielding	Voltage	Driver	Options
2	AVE	G		—	4	ACR	—	—	
2 2'	AVE Arioso recessed LED	G 15/16" T-Grid or 9/16" Slot Grid	38L 3800 nominal lumens 43L 4300 nominal lumens 49L 4900 nominal lumens 74L 7400 nominal lumens	835 80 CRI, 3500K 840 80 CRI, 4000K	4 4'	ACR 100% frosted ribbed acrylic lens	UNV Universal voltage, 120-277V 347 347V	DIM 0-10V dimming Step dimming to 40% input power (not available for 74L lumen package) SDIM	F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F1/D 3/8" Twin Flex, 3 Wire 18 gauge 6' for dimmable luminaires F2/SW 3/8" Single Flex, 5 Wire 18 gauge 6' for dimmable luminaires GLR Fusing, Fast Blow EMLED Integral emergency battery pack, 1100lm nominal (ballast enclosure on top of luminaire)

Accessories (order separately)

- **AVHD** – Hold down clips
- **FMA24** – 2'x4' "F" mounting frame for NEMA "F" mounting
- **1AVE/2AVE-ACR** – replacement lens
- **Electrical wiring options** – Consult factory

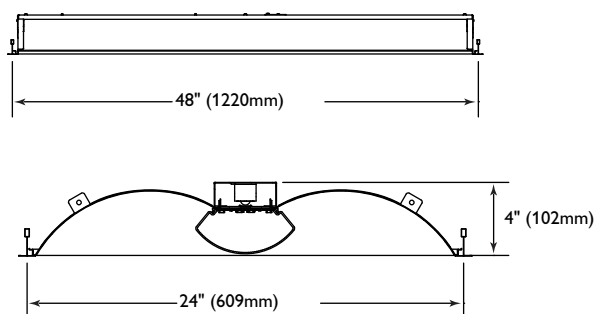
2AVE Arioso recessed LED ribbed acrylic 2x4

3800, 4300, 4900, or 7400 lumens

Features

- 100% frosted ribbed acrylic lens provides soft, balanced, direct and reflected light.
- Seamless welded form – curved top and side reflectors formed together without any gaps or visual barriers.
- High performance LED technology capable of delivering up to 7400 lm at 74.9W.
- Multiple lumen outputs available to balance energy savings with lighting application needs.
- Ideal for indoor general area lighting – offices, schools, retail and health care applications.
- High lumen package version available for retail applications (7400 lm at 75W) - provides similar light output to a 3-32W T8 luminaire and 12% energy savings.
- 80+ CRI and excellent color consistency.
- High efficiency LEDs have a minimum 50,000 hour rated life (L70).
- Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- Dimming option available.

Dimensions



* EMLED is 1-3/4" (45mm) deeper.

Construction/Finish

- 20 gauge steel housing assembly.
- 95% reflectance baked white acrylic matte paint finish.

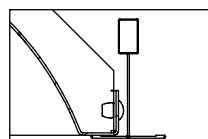
Electrical

- LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. For dimming options, consult factory. LED array and driver accessible from below.
- cCSAus listed.

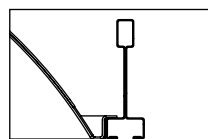
Enclosure

- High performance contoured lens conceals lamp image providing balance between reflected and direct light.

Ceiling compatibility for G type luminaire



Suited to standard exposed 15/16" T-grid ceilings



Suited to standard exposed Slot T-grid ceilings

Photometry

Arioso Recessed LED Ribbed Acrylic 2x4, 3800 nominal lumens

LER – 97

Catalog No.		2AVEG38L840-4-ACR				Candlepower			Light Distribution		
Test No.		31664		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	
S/MH		1.3		0	1345	1345	1345	0-30	1044	26.67	
Lamp Type		LED		5	1341	1354	1310	0-40	1702	43.46	
Lumens/Lamp		3920		10	1320	1338	1298	0-60	2983	76.19	
Input Watts		40.3		15	1284	1307	1268	0-90	3915	100.00	
Comparative yearly lighting energy cost per 1000 lumens – \$2.47 based on 3000 hrs. and \$.08 pwr KWH.		20	1234	1261	1233	Coefficients of Utilization					
		25	1169	1209	1185						
		30	1092	1145	1127						
		35	1001	1068	1064						
		40	901	986	992						
		45	796	903	912						
		50	683	799	830						
		55	573	699	743						
		60	466	604	657						
		65	364	507	569						
		70	272	416	483						
		75	195	332	398						
		80	124	246	289						
		85	60	136	121						
		EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pcc	80			70			50				
pw	70	50	30	70	50	30	50	30			
RCR											
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11			
1	1.09	1.04	1.00	1.06	1.02	.98	.97	.94			
2	.99	.92	.85	.97	.90	.83	.86	.81			
3	.91	.81	.73	.88	.79	.72	.76	.70			
4	.84	.72	.64	.82	.71	.63	.68	.61			
5	.77	.65	.56	.75	.63	.55	.61	.54			
6	.71	.58	.49	.69	.57	.48	.55	.48			
7	.65	.52	.43	.64	.51	.43	.49	.42			
8	.61	.47	.39	.59	.46	.38	.45	.38			
9	.56	.43	.35	.55	.42	.34	.41	.34			
10	.52	.39	.31	.51	.38	.31	.37	.30			

2AVE Arioso recessed LED ribbed acrylic 2x4

3800, 4300, 4900, or 7400 lumens

Arioso Recessed LED Ribbed Acrylic 2x4, 4300 nominal lumens

LER – 110

Catalog No. 2AVEG43L840-4-ACR Test No. 31665 S/MH 1.3 Lamp Type LED Lumens/Lamp 4293 Input Watts 39.2 Comparative yearly lighting energy cost per 1000 lumens – \$2.18 based on 3000 hrs. and \$.08 pwr KWH.	Candlepower				Light Distribution		
	Angle	End	45	Cross	Degrees	Lumens	% Luminaire
	0	1478	1478	1478	0-30	1147	26.74
	5	1477	1489	1433	0-40	1868	43.57
	10	1454	1472	1420	0-60	3271	76.29
	15	1415	1437	1387	0-90	4288	100.00
	20	1359	1387	1348			
	25	1288	1329	1295			
	30	1202	1258	1233			
	35	1102	1174	1163			
	40	992	1084	1085			
	45	872	983	997			
	50	749	877	906			
	55	627	767	810			
	60	509	660	716			
	65	398	556	618			
	70	297	458	524			
	75	207	366	430			
	80	127	272	304			
	85	61	145	123			

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11
1	1.09	1.04	1.00	1.06	1.02	.98	.97	.94
2	.99	.92	.85	.97	.90	.83	.86	.81
3	.91	.81	.73	.88	.79	.72	.76	.70
4	.84	.72	.64	.82	.71	.63	.68	.62
5	.77	.65	.56	.75	.63	.55	.61	.54
6	.71	.58	.49	.69	.57	.49	.55	.48
7	.65	.52	.43	.64	.51	.43	.50	.42
8	.61	.47	.39	.59	.46	.38	.45	.38
9	.56	.43	.35	.55	.42	.34	.41	.34
10	.52	.39	.31	.51	.38	.31	.37	.30

Arioso Recessed LED Ribbed Acrylic 2x4, 4900 nominal lumens

LER – 110

Catalog No. 2AVEG49L840-4-ACR Test No. 31666 S/MH 1.3 Lamp Type LED Lumens/Lamp 4854 Input Watts 44.1 Comparative yearly lighting energy cost per 1000 lumens – \$2.16 based on 3000 hrs. and \$.08 pwr KWH.	Candlepower				Light Distribution		
	Angle	End	45	Cross	Degrees	Lumens	% Luminaire
	0	1667	1667	1667	0-30	1292	26.66
	5	1668	1683	1610	0-40	2104	43.39
	10	1642	1663	1594	0-60	3678	75.87
	15	1597	1623	1556	0-90	4848	100.00
	20	1533	1565	1515			
	25	1451	1499	1456			
	30	1352	1417	1387			
	35	1238	1321	1309			
	40	1113	1217	1221			
	45	978	1102	1122			
	50	841	980	1021			
	55	704	856	914			
	60	571	735	808			
	65	447	617	697			
	70	334	508	592			
	75	234	403	484			
	80	146	298	326			
	85	71	150	125			

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11
1	1.09	1.04	.99	1.06	1.02	.97	.97	.94
2	.99	.91	.85	.97	.89	.83	.86	.80
3	.91	.80	.72	.88	.79	.71	.76	.70
4	.84	.72	.63	.82	.71	.63	.68	.61
5	.77	.64	.56	.75	.63	.55	.61	.54
6	.71	.58	.49	.69	.57	.48	.55	.48
7	.65	.52	.43	.64	.51	.43	.49	.42
8	.61	.47	.39	.59	.46	.38	.45	.38
9	.56	.43	.34	.55	.42	.34	.41	.34
10	.52	.39	.31	.51	.38	.31	.37	.30

2AVE Arioso recessed LED ribbed acrylic 2x4

3800, 4300, 4900, or 7400 lumens

Arioso Recessed LED Ribbed Acrylic 2x4, 7400 nominal lumens

LER – 99

Catalog No. 2AVEG74L840-4-ACR		Candlepower				Light Distribution							
Test No. 31667		Angle	End	45	Cross	Degrees	Lumens	% Luminaire					
S/MH 1.3		0	2560	2560	2560	0-30	1986	26.87					
Lamp Type LED		5	2563	2587	2468	0-40	3234	43.76					
Lumens/Lamp 7400		10	2523	2556	2446	0-60	5659	76.56					
Input Watts 74.9		15	2453	2495	2390	0-90	7392	100.00					
		20	2355	2406	2325								
		25	2229	2306	2236								
		30	2078	2180	2130								
		35	1902	2034	2013								
		40	1711	1875	1879								
		45	1504	1698	1728								
		50	1291	1512	1573								
		55	1081	1322	1409								
		60	876	1137	1245								
		65	686	956	1077								
		70	512	783	914								
		75	357	626	745								
		80	220	460	492								
		85	105	220	180								
Comparative yearly lighting energy cost per 1000 lumens – \$2.42 based on 3000 hrs. and \$.08 pwr KWH.													
		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			1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	
		1			1.09	1.04	1.00	1.06	1.02	.98	.98	.95	
		2			1.00	.92	.85	.97	.90	.84	.86	.81	
		3			.91	.81	.73	.89	.79	.72	.76	.70	
		4			.84	.72	.64	.82	.71	.63	.69	.62	
		5			.77	.65	.56	.75	.64	.55	.61	.54	
		6			.71	.58	.49	.69	.57	.49	.55	.48	
		7			.65	.52	.43	.64	.51	.43	.50	.42	
		8			.61	.47	.39	.59	.46	.38	.45	.38	
		9			.56	.43	.35	.55	.42	.34	.41	.34	
		10			.52	.39	.31	.51	.39	.31	.38	.30	

Catalog Number	Delivered Lumens	Input Watts	Efficacy lm/W	8'x8' avg fc	8'x8' W/sq ft	8'x10' avg fc	8'x10' W/sq ft
2AVEG38L840-4-ACR	3920	40.3	97	61.2	0.63	48.9	0.50
2AVEG43L840-4-ACR	4293	39.2	110	67.0	0.61	53.6	0.49
2AVEG49L840-4-ACR	4854	44.1	110	75.8	0.69	60.6	0.55
2AVEG74L840-4-ACR	7400	74.9	99	115.5	1.17	92.4	0.94

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