

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

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 850 80 CRI, 5000K	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

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

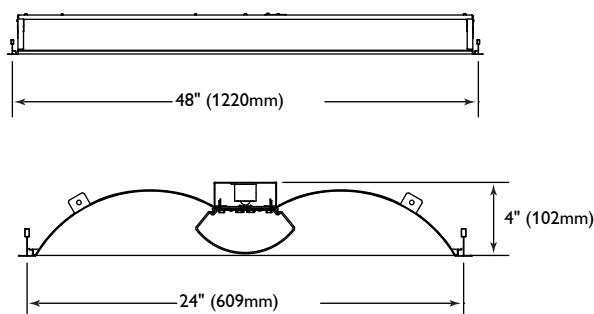
2AVE Arioso recessed LED ribbed acrylic 2x4

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



Construction/Finish

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

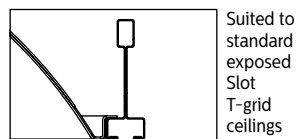
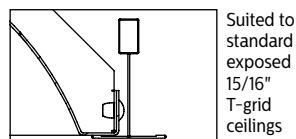
Electrical

- 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



Photometry

Arioso Recessed LED Ribbed Acrylic 2x4, 3800 nominal lumens

LER – 97

Catalog No.		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		
			70	50	30	70	50	30
		pw						
		RCR						
		0	1.19	1.19	1.19	1.16	1.16	1.16
		1	1.09	1.04	1.00	1.06	1.02	.98
		2	.99	.92	.85	.97	.90	.83
		3	.91	.81	.73	.88	.79	.72
		4	.84	.72	.64	.82	.71	.63
		5	.77	.65	.56	.75	.63	.55
		6	.71	.58	.49	.69	.57	.48
		7	.65	.52	.43	.64	.51	.43
		8	.61	.47	.39	.59	.46	.38
		9	.56	.43	.35	.55	.42	.34
		10	.52	.39	.31	.51	.38	.31

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 <table><tr><th>Angle</th><th>End</th><th>45</th><th>Cross</th></tr><tr><td>0</td><td>2560</td><td>2560</td><td>2560</td></tr><tr><td>5</td><td>2563</td><td>2587</td><td>2468</td></tr><tr><td>10</td><td>2523</td><td>2556</td><td>2446</td></tr><tr><td>15</td><td>2453</td><td>2495</td><td>2390</td></tr><tr><td>20</td><td>2355</td><td>2406</td><td>2325</td></tr><tr><td>25</td><td>2229</td><td>2306</td><td>2236</td></tr><tr><td>30</td><td>2078</td><td>2180</td><td>2130</td></tr><tr><td>35</td><td>1902</td><td>2034</td><td>2013</td></tr><tr><td>40</td><td>1711</td><td>1875</td><td>1879</td></tr><tr><td>45</td><td>1504</td><td>1698</td><td>1728</td></tr><tr><td>50</td><td>1291</td><td>1512</td><td>1573</td></tr><tr><td>55</td><td>1081</td><td>1322</td><td>1409</td></tr><tr><td>60</td><td>876</td><td>1137</td><td>1245</td></tr><tr><td>65</td><td>686</td><td>956</td><td>1077</td></tr><tr><td>70</td><td>512</td><td>783</td><td>914</td></tr><tr><td>75</td><td>357</td><td>626</td><td>745</td></tr><tr><td>80</td><td>220</td><td>460</td><td>492</td></tr><tr><td>85</td><td>105</td><td>220</td><td>180</td></tr></table>				Angle	End	45	Cross	0	2560	2560	2560	5	2563	2587	2468	10	2523	2556	2446	15	2453	2495	2390	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	Light Distribution <table><tr><th>Degrees</th><th>Lumens</th><th>% Luminaire</th></tr><tr><td>0-30</td><td>1986</td><td>26.87</td></tr><tr><td>0-40</td><td>3234</td><td>43.76</td></tr><tr><td>0-60</td><td>5659</td><td>76.56</td></tr><tr><td>0-90</td><td>7392</td><td>100.00</td></tr></table>			Degrees	Lumens	% Luminaire	0-30	1986	26.87	0-40	3234	43.76	0-60	5659	76.56	0-90	7392	100.00																																				
Angle	End					45	Cross																																																																																																																																
0	2560					2560	2560																																																																																																																																
5	2563					2587	2468																																																																																																																																
10	2523					2556	2446																																																																																																																																
15	2453					2495	2390																																																																																																																																
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																																																																																																																																				
Degrees	Lumens	% Luminaire																																																																																																																																					
0-30	1986	26.87																																																																																																																																					
0-40	3234	43.76																																																																																																																																					
0-60	5659	76.56																																																																																																																																					
0-90	7392	100.00																																																																																																																																					
Test No. 31667		Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) <table><tr><th>pcc</th><th colspan="3">80</th><th colspan="3">70</th><th colspan="3">50</th></tr><tr><th>pw</th><th>70</th><th>50</th><th>30</th><th>70</th><th>50</th><th>30</th><th>50</th><th>30</th></tr><tr><td>RCR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>0</td><td>1.19</td><td>1.19</td><td>1.19</td><td>1.16</td><td>1.16</td><td>1.16</td><td>1.11</td><td>1.11</td></tr><tr><td>1</td><td>1.09</td><td>1.04</td><td>1.00</td><td>1.06</td><td>1.02</td><td>.98</td><td>.98</td><td>.95</td></tr><tr><td>2</td><td>1.00</td><td>.92</td><td>.85</td><td>.97</td><td>.90</td><td>.84</td><td>.86</td><td>.81</td></tr><tr><td>3</td><td>.91</td><td>.81</td><td>.73</td><td>.89</td><td>.79</td><td>.72</td><td>.76</td><td>.70</td></tr><tr><td>4</td><td>.84</td><td>.72</td><td>.64</td><td>.82</td><td>.71</td><td>.63</td><td>.69</td><td>.62</td></tr><tr><td>5</td><td>.77</td><td>.65</td><td>.56</td><td>.75</td><td>.64</td><td>.55</td><td>.61</td><td>.54</td></tr><tr><td>6</td><td>.71</td><td>.58</td><td>.49</td><td>.69</td><td>.57</td><td>.49</td><td>.55</td><td>.48</td></tr><tr><td>7</td><td>.65</td><td>.52</td><td>.43</td><td>.64</td><td>.51</td><td>.43</td><td>.50</td><td>.42</td></tr><tr><td>8</td><td>.61</td><td>.47</td><td>.39</td><td>.59</td><td>.46</td><td>.38</td><td>.45</td><td>.38</td></tr><tr><td>9</td><td>.56</td><td>.43</td><td>.35</td><td>.55</td><td>.42</td><td>.34</td><td>.41</td><td>.34</td></tr><tr><td>10</td><td>.52</td><td>.39</td><td>.31</td><td>.51</td><td>.39</td><td>.31</td><td>.38</td><td>.30</td></tr></table>							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
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																																																																																																																															
S/MH 1.3																																																																																																																																							
Lamp Type LED																																																																																																																																							
Lumens/Lamp 7400																																																																																																																																							
Input Watts 74.9																																																																																																																																							
Comparative yearly lighting energy cost per 1000 lumens – \$2.42 based on 3000 hrs. and \$.08 pwr KWH.																																																																																																																																							

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

© 2015 Koninklijke Philips N.V. All rights reserved.
 Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.
philips.com/luminaires



Philips Lighting, North America Corporation
 200 Franklin Square Drive, Somerset, NJ 08873
 Tel. 855-486-2216

Philips Lighting Canada Ltd.
 A division of Philips Electronics Ltd.
 281 Hillmount Rd, Markham, ON, Canada L6C 2S3
 Tel. 800-668-9008