ETC

Pro One-Cell Small

ArcSystem Series

Type(s)

Project

Date

Notes

GENERAL INFORMATION

The compact Pro One-Cell Small luminaire is a single-cell solution that is ideally suited for recessed installations in areas that require short- to medium-throw illumination. With a high grade, painted metal construction, the Pro One-Cell Small delivers the quality performance of the larger multi-cell versions, in a much smaller form factor.

The Pro One-Cell Small luminaire requires a direct connection to the D1 Driver (see separate datasheet). In conjunction with the driver unit, the luminaire can be dimmed using either a wired-DMX connection or the onboard wireless ArcMesh protocol. Alternatively, a wired-only DMX/RDM version of the D1 driver is available for applications where wireless control and configuration is not required.

ArcSystem has been specifically developed for auditorium lighting applications where high-quality, extremely accurate and smooth dimming is required. The use of onboard device management in the driver allows all fixtures to be addressed remotely, ensuring fast and simple installation.

GENERAL INFORMATION

APPLICATIONS

- Auditoriums
- Work lights
- Lobbies
- Houses of worship
- Retail
- Museums
- Studios

PRODUCT FEATURES

- Wired-DMX or wireless (ArcMesh) control protocols
- Stepless smooth dimming to blackout
- Convection cooled
- Fan-free, silent operation
- Multiple color-temperature and fixture color options

ORDERING INFORMATION

ArcSystem Pro One-Cell Small

MODEL	FADE-TO-WARM	COLOR TEMP	BEAM ANGLE	FIXTURE COLOR	MOUNTING
ARCP1S	**BLANK** - Standard **F** - Fade To Warm (only available with 2700 K and 3000 K options)	**2** - 2700 K **3** - 3000 K **35** - 3500 K **4** - 4000 K **5** - 5000 K	**19** - 19° **24** - 24° **37** - 37° **60** - 60°	**W** - White **B** - Black **C** - Custom	**A** - Recess Adjust **Y** - Surface Yoke
ARCP1S					

To complete the form, simply select an option at the bottom of each column to populate the last row with your desired part number.

Color Options: Fixtures ship standard in black or white. For additional colors please contact ETC.

PRODUCT SPECIFICATIONS (PRO ONE-CELL SMALL)

Source

LED details	Bridgelux Vero 13 (standard) Vesta 15 (FTW)
Max field lumens	2,023 (5000 K 37°)
Max total lumens	2,202 (5000 K 37°)
Lumens per watt	110
L70 rating (hours to 70% output)	50,000 hours

Color

Colors used	Fixed white
Color temperature range	2700 K, 3000 K, 3500 K, 4000 K, 5000 K
Fade to warm	Optional on 2700 K and 3000 K

Optical

Beam angle range	19, 24, 37, 60
CRI	>90
TM-30-18 data	Refer to ArcSystem photometry guide
Photometry data	See below or refer to ArcSystem guide

Control (via separate driver)

Input method	DMX-512 via RJ45 connector
Protocols	DMX, ArcMesh wireless, RDM (option)
Modes (footprint)	1-channel
RDM configuration	Yes (with RDM driver option)
UI type	PC config app for ArcMesh option
Local control	No
Notes	ArcMesh wireless control requires optional TX1 transmitter

Electrical

Voltage range	48 VDC Max (requires separate D1 or D4 driver to operate)
Input method	4-position (2-pole) Molex connector with hard-wired 36 in (90 cm) power cord
Inrush (including Driver)	D1 Driver: 20 A at 120 VAC D4 CC Driver: 15 A at all voltages
Wattage (typical / standby)	20 W/<1 W
Current draw (via driver)	0.17 A at 120 V

Thermal

Ambient operating temp	0°–40°C (32°–104°F)
Fan (controllable)	N/A (convection cooled)
BTUs/hour	68

Physical

Materials	Die-cast aluminum and cold-rolled steel
Color options	Black, white or custom color
Mounting options	Recessed spring clips (for 3–24mm thick ceilings) or yoke
IP rating	IP-20 (dry locations only)
Weight (adj / yoke)	0.55 kg (1.21 lb)/0.59 kg (1.29 lb)
Included accessories	Yoke (yoke version only)
Notes	See accessories list for power cable options

Warranty

Full fixture	5 years
LED array	10 years

Regulatory and Compliance

Approved regulatory standards	Standard version cETLus Listed Conforms to ANSI/UL STD.2108 Certified to CSA STD. C22.2 No: 250 CE Compliant Recessed fixtures additionally conform to ANSI/ UL STD. 2043

D1 DRIVERS

ArcSystem Pro One-Cell fixtures require an external ArcSystem D1 driver to operate. See separate datasheet or visit etcconnect.com/ArcSystem for additional information.

ACCESSORIES

Extension Cables

PART NUMBER	DESCRIPTION
ARCDAHBC1	1 m Extension Cable
ARCDAHBC2	2 m Extension Cable
ARCDAHBC3	3 m Extension Cable
ARCDAHBC5	5 m Extension Cable
ARCDAHBC10	10 m Extension Cable

Extension cables to be used between the ARCMD1D driver and the Pro One-Cell Small luminaire.

PHOTOMETRY

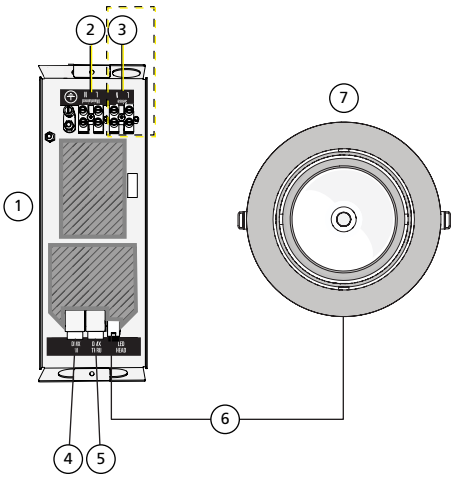
Lumen table

COLOR TEMP	BEAM ANGLE	FIELD ANGLE	FIELD LUMENS	BEAM LUMENS	MAX CANDELA
3000 K	19°	17.2°	1,351	691	13,260
3000 K	24°	53.8°	1,530	931	7,640
3000 K	37°	65.1°	1,753	1,049	4,490
3000 K	60°	75.7°	1,766	1,061	2,680

IES light files are available on request for all beam angles of ArcSystem.

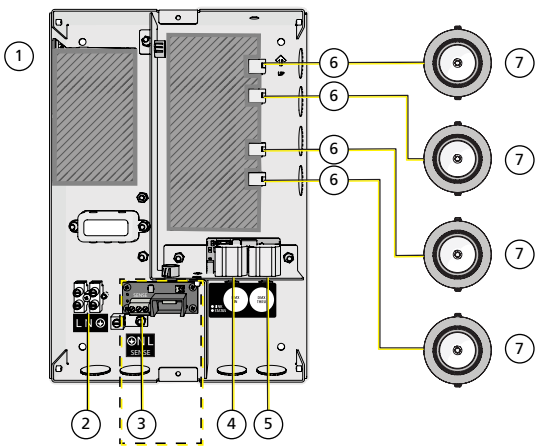
Full photometry and color information for the ArcSystem family is available in the ArcSystem Photometry and Color Info Guide.

D1 DRIVER WIRING DIAGRAM



	Description	Notes
1	ArcSystem Pro D1 Driver	ARCPD1D ARCPED1D (Emergency)
2	Maintained input power	Up to 6 mm² (10 AWG) line/neutral/ground 100–277 VAC, 50/60 Hz ARCPD1D: normal branch circuit ARCPED1D: normal/emergency branch circuit from UL1008 automatic transfer switch (ATS) by others
3	Sense input power (emergency models only)	Up to 6 mm² (10 AWG) line/neutral/ground 100–277 VAC, 50/60 Hz, normal branch circuit (ARPED1D only)
4	DMX input from external DMX source	RJ45 connector, Cat5e (or equivalent) 0.2 mm² (24 AWG) or larger conductors terminated to T568B standard
5	DMX thru to another ArcSystem Pro Driver or other device	RJ45 connector, Cat5e (or equivalent) 0.2 mm² (24 AWG) or larger conductors terminated to T568B standard
6	Luminaire cable	18 AWG with Molex Mini-Fit connector, provided attached to luminaire. Extension cables are available (see page 3).
7	ArcSystem Pro One-Cell or One-Cell Small luminaire ARCP1 or ARCP1S	

D4 CC DRIVER WIRING DIAGRAM



	Description	Notes
1	ArcSystem Pro D4 CC Driver	ARCPD4DCCMMW ARCPED4DCCMMW (Emergency)
2	Input power	0.5–10 mm² (22–6 AWG) line/neutral, 2.5–10 mm² (14–6 AWG) ground 100–277 VAC, 50/60 Hz ARCPD4DCCMMW: normal branch circuit ARCPED4DCCMMW: normal/emergency branch circuit from UL1008 automatic transfer switch (ATS) by others
3	Sense input power (emergency models only)	0.2–2.5 mm² (24–14 AWG) line/neutral/ground 100–277 VAC, 50/60 Hz, normal branch circuit (ARCPED4DCCMMW only)
4	DMX input from external DMX source	RJ45 connector, Cat5e (or equivalent) 0.2 mm² (24 AWG) or larger conductors terminated to T568B standard
5	DMX thru to another ArcSystem Pro Driver or other device	RJ45 connector, Cat5e (or equivalent) 0.2 mm² (24 AWG) or larger conductors terminated to T568B standard
6	Luminaire cable	18 AWG with Molex Mini-Fit connector, provided attached to luminaire. Extension cables are available (see page 3).
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PHYSICAL

Pro One-Cell Small Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
Adjustable*	5.03	128	4.33	110	3.44	87
Yoke	6.08	154	4.65	118	3.54	90

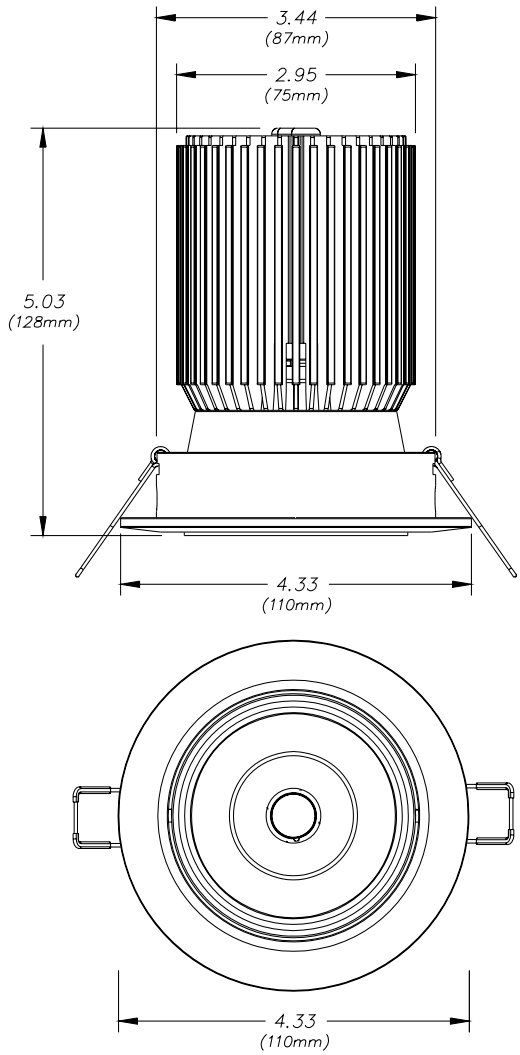
*Recommend hole cut-out: 3.93 in/100 mm

Pro One-Cell Small Weights

MODEL	WEIGHT*		SHIPPING WEIGHT	
	lb	kg	lb	kg
Adjustable	3.08	1.40	3.5	1.60
Yoke	2.50	1.13	3.0	1.36

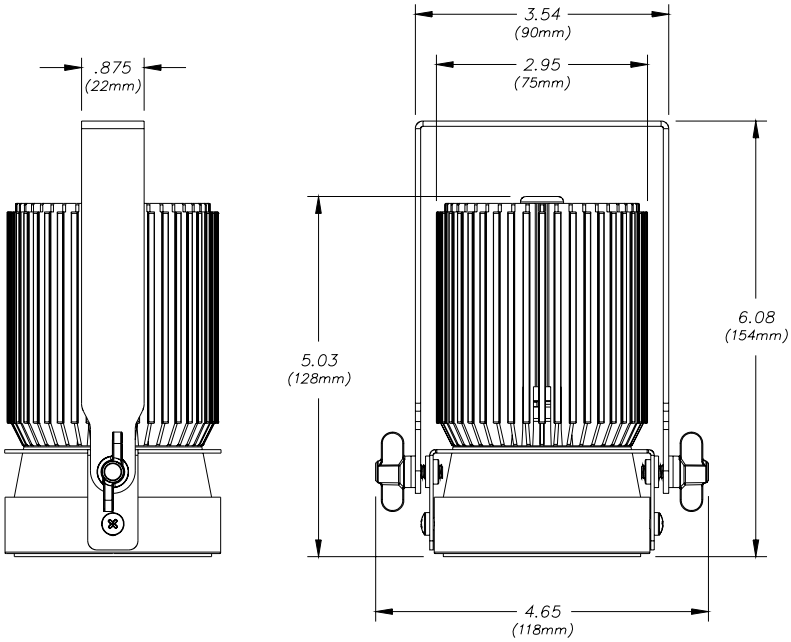
*Does not include mounting hardware

PRO ONE-CELL SMALL ADJUSTABLE



PHYSICAL

PRO ONE-CELL SMALL YOKE



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