

### **FEATURES & SPECIFICATIONS**

INTENDED USE — Ideal for applications requiring low-profile, attractive emergency lighting with Optional normally-off or normally-on with photocell control. Provides a minimum of 90 minutes of illumination both indoors and outdoors upon loss of AC power. Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

**CONSTRUCTION** — Compact, low-profile, architectural design with die-cast aluminum housing. Finishes are texturized powder coat paint for dark bronze, white, black and non-texturized for natural aluminum. Test switch indicator light and remote enabled are located on the bottom of the housing and are easily accessible and visible from the floor.

**OPTICS** — LEDs with L70 of 55,000 hours. Delivers 635 lumens in Normal-On and Emergency operation. Optional field configurable for wide and forward throw distribution **(US Patent Pending)**. Outdoor wide throw distribution: 70' (3' path of egress) at a 7.5' mounting height with 1 FC Average.

4,000K correlated color temperature (CCT).

70 CRI

**ELECTRICAL** — UVOLT (120 thru 347V, 50/60hz). Current-limiting charger maximizes battery life and minimizes energy consumption to provide low operating costs. Small battery chargers Certified in the CA Title 20 Appliance Efficiency Database

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts. Regulated charge voltage maintains a stable charge voltage over a wide range of line voltages.

Prevents over/undercharging that shortens battery life and reduces capacity. Filtered charger input minimizes charge voltage ripple and extends battery life.

Photocell option (PEL) for normally on product in order to discontinue illumination during periods when ambient light is present.

Remote units (OELR) are normally off. Emergency only functionality with DC power from an external battery.

BATTERY: Sealed, maintenance-free Lithium Iron Phosphate battery.

**SELF-DIAGNOSTICS AND REMOTE TEST (SDRT OPTION):** Automatic 24-hour recharge after a 90-minute discharge. Advanced electrical design provides constant light output throughout the entire discharge period for non-CW batteries. (For cold weather and cold temperature applications, the light may diminish though the discharge cycle). Brownout protection is automatically switched to emergency mode when supply voltage drops below approximately 80 percent nominal of 120, 220, 277 or 347. Other input voltages may vary. AC/LVD re-set allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Self-Diagnostics: Continuously monitors AC functionality. Standard derangement monitoring will indicate disconnected battery, charger failure and displays green flashing indicator light while in emergency mode. Single multi-chromatic LED indicator to display two-state charging, test activation and three-state self-diagnostics.

Self-diagnostic testing: Five minutes every 30 days and 90 minutes annually. Diagnostic evaluation of lamps, AC to DC transfer, battery charging and condition of microprocessor. Automatic test is easily postponed for eight hours by activating manual test switch or use of remote tester (RTKIT accessory).

Manual testing: Test switch and remote tester (RTKIT accessory) provides manual activation of 60-second diagnostic testing for on-demand visual inspection. 90 minute manual testing can be enabled by pressing the test switch again while in test mode.

**INSTALLATION** — Wall mount: typically meets 7.5' to 14' mounting height from ground or floor. Power supplied by either mounting directly to a 4" square or 4" octagon j-box (wall mount) and accepts rigid or flex conduit.

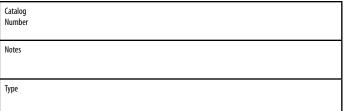
**LISTINGS** — UL wet location listed standard at 32-122°F (0-50°C). Unit with CW battery(cold weather) listed for -22°F to 122°F (-30° to 50°C). Remote listed for -40°F to 122°F (-40° to 50°C). Meets or exceeds all applicable requirements for UL 924, NFPA 101 (current Life Safety code), NFPA 70 (NEC), NOM (Norma Oficial Mexicana), California Energy Commission Title 20 section 1605.3 (W)(4), FCC Title 47, Part 15, Subpart B and OSHA. List and labeled to comply with Canadian Standards C22.2 No. 141-10.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms\_and\_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25  $^{\circ}$ C. Specifications subject to change without notice.

† Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database.



## **AFFINITY**®

**Premium Die-Cast Architectural Emergency Light** 

# **AFF**



without photocell (white)



without photocell (natural aluminum)



with photocell (white)



with photocell (dark bronze)

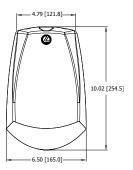
#### MOUNTING

All dimensions are inches (centimeters). Shipping weight: 3.5 lbs. (1.59 kgs.)

Length: 6 1/2 (16.51) Depth: 3 27/100 (8.30) Height: 10 ( 25.45) Weight: 3.5 lbs ( 1.59kg)



















EMERGENCY AFF

# AFF Affinity® Premium Die-Cast Architectural Emergency Light

#### **SELF-POWERED MODELS**

ORDERING INFORMATION

For the shortest lead times, configure product using **bolded options**.

#### **Example:** AFF PEL DWHGXD UVOLT LTP SDRT WT

Serie		Unit T	'ype'	Housing Co	lor	Voltage		Batte	ry Type	Autom	atic Testing	Optics	•	Options	
AFF	AFFINITY Premium	PEL OEL	Photocell: Normally-ON with internal battery Normally-OFF with internal battery	DWHGXD DBLBXD DNAXD DDBTXD	White textured Black textured Natural aluminum Dark bronze textured	UVOLT	120-347VAC, 50/60Hz	LTP	Lithium Iron Phosphate	SDRT	Self-diagnostics remote test	WT FCT	Wide Throw Field configurable throw <sup>2</sup>	<b>CW</b> USPOM	Cold Weather (-30 - 50C) Assembled in the US

#### Notes

1 AFF with internal battery is not remote capable.

#### REMOTE MODELS listed for -40°F to 122°F (-40° to 50°C)

ORDERING IN	FORMATION	For the

For the shortest lead times, configure product using **bolded options**.

#### **Example:** AFF OELR DWHGXD WT

Series <sup>1</sup>	Unit Type	Housing Color	Voltage	Optics
<b>AFF</b> AFFINITY Premiu	OELR Remote fixture, Normally OFF (requires external battery sou		(blank) Universal DC volt (8-30VDC)	tage WT Wide Throw FCT Field configurable throw <sup>2</sup>

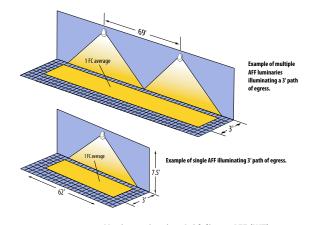
#### **Accessories:** Order as separate catalog number.

RTKIT Remote test kit, up to 40' away (includes goggles, laser and battery)

#### Notes

- 1 Not available with USPOM
- FCT optics ships standard in the WT (wide throw) mode. Upon installation, configuration can be changed to the FCT mode.

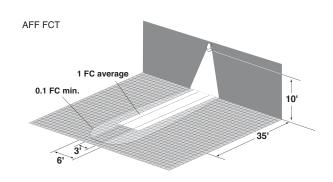
### **AFF SPACING GUIDELINES**



### Maximum Spacing Guidelines - AFF (WT)

Mounting	Illumination Level	Single Luminaire		Multiple Luminaire			
Mounting Height		3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	Application Notes *	
7.5'		62'	46'	69'	53'		
10'	1FC Avg	48'	34'	55'	46'	200' Open Space 80/50/20	
12'	in critig	28'	22'	46'	41'	reflectances	
14'		6'	N/A	38'	36'		

<sup>\*</sup> Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.



#### Maximum Spacing Guidelines - AFF (FCT)

Mounting	Illumination	Single Lu	ıminaire		
Mounting Height	Level	3' Path of Egress	6' Path of Egress	Application Notes *	
7.5'		24'	23'		
10'	1FC Avg	35'	35'	200' Open Space 80/50/20	
12'		37'	31'	reflectances	
14'		31'	N/A		

 $<sup>^{*}</sup>$  Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.



# **AFF** Affinity® Premium Die-Cast Architectural Emergency Light

### **SPECIFICATIONS**

### **Electrical: Primary Circuit**

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Unit Type	Battery Type	Input Voltage(V)	Input Current(A)	Watts(W)				
DEL WE	LTP	120-347	0.053-0.086	11.28				
PEL WT	LTP CW	120-347	0.089-0.167	20.39				
PEL FCT	LTP	120-347	0.053-0.086	11.28				
PELFCI	LTP CW	LTP CW 120-347 0.089-0.167		20.39				
OEL WT	LTP	120-347	0.025-0.032	2.50				
OEL WI	LTP CW	120-347	0.075-0.097	11.60				
OEL FCT	LTP	120-347	0.025-0.032	2.50				
UELFCI	LTP CW	120-347	0.075-0.097	11.60				
OELR WT	N/A	7-30	0.248 - 1.225	8.57*				
OELR FCT	N/A	7-30	0.254 - 1.168	8.22*				

 $<sup>{}^{*}\</sup>text{OELR}$  watts data is in addition to the lamp heads on the product

#### **BATTERY**

Lithium Iron Phosphate								
Туре	Voltage	Typical Shelf Life <sup>1</sup>	Typical Life <sup>1</sup>	Maintenance <sup>2</sup>	Temperature range 3,4			
STD	12.8V	1 year	7-9 years	none	32 - 122°F (0 - 50°C)			
CW	12.8V	1 year	7-9 years	none	-22 - 122°F (-30 - 50°C)			

#### Notes

- 1 At 77°F (25°C).
- 2 2 Battery life is negatively impacted by many variables including temperature, charging rates, number of cycles and deep discharges due to long periods of time without AC power.
- 3 All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.
- 4 Ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity. See option packages for expanded temperature ranges.

