

ELECTRICAL - SITE PLAN
3/16" = 1'-0"

EM



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/LVDre-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 324, 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. Meets City of Chicago Code.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

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 °C. Specifications subject to change without notice.

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

Catalog Number	
Notes	
Type	

AFFINITY®
Premium Die-Cast Architectural Emergency Light

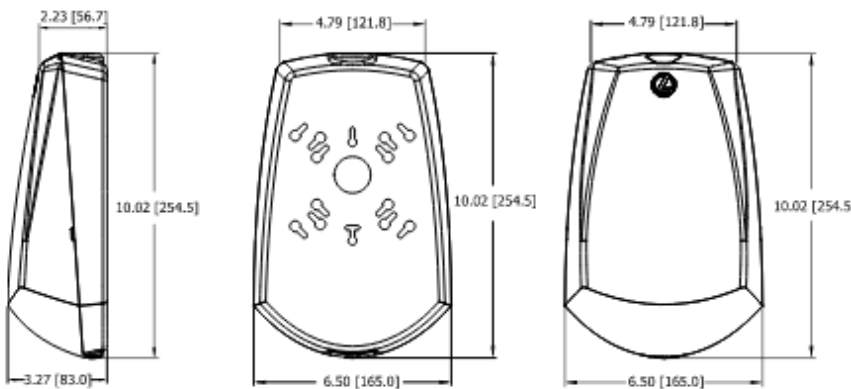
AFF



MOUNTING

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

Length: 6 1/2 (16.51)
Depth: 3.27/3.00 (8.30)
Height: 10 (25.45)
Weight: 3.5 lbs (1.59kg)



EMERGENCY

AFF

W1

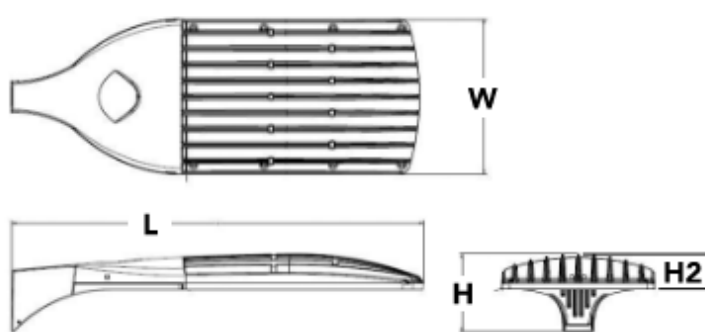


D-Series Size 2
LED Area Luminaire



Specifications

EPA: 1.1 ft²
(0.10 m²)
Length: 40"
(101.6 cm)
Width: 15"
(38.1 cm)
Height 1: 7-1/4"
(18.4 cm)
Height 2: 3.5"
(max)
Weight: 36lbs



Catalog Number	
Notes	
Type	

Pin the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. The Size 2 is ideal for replacing 400-1000W metal halide in area lighting applications with energy savings of up to 80% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX2 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX2 LED					
Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX2 LED	Forward optics P1 P5 ¹ P2 P6 P3 P7 ¹ P4 P8 ¹ Rotated optics P10 ² P13 ^{1,2} P11 ¹ P14 ^{1,2} P12 ²	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I Short (Automotive) T2S Type II Short T2M Type II Medium T3S Type II Short T3M Type II Medium T4M Type IV Medium TFTM Forward Throw Medium	TSVS Type V Very Short ¹ TSS Type V Short ¹ TSM Type V Medium ¹ TSW Type V Wide ¹ BLC Backlight control ¹ LECO Left corner cutoff ¹ RCCO Right corner cutoff ¹	MVOLT ¹ XVOLT (277V-480V) ^{1,2} 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 ¹ 480 ¹

Shipped included

SPA Square pole mounting
RPA Round pole mounting¹⁰
WBA Wall bracket¹
SPUMBA Square pole universal mounting adaptor¹¹
RPUMBA Round pole universal mounting adaptor¹¹

Shipped separately

KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)¹⁰

Control options			Other options	Finish (optional)
Shipped installed			Shipped installed	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DOBXT Textured dark bronze DBLXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white
NLTAR2 nLight AIR generation 2 enabled ¹³		PIRH	Bi-level, motion/ambient sensor, 15-30" mounting height, ambient sensor enable at 5ft. ¹⁰	
PIRHN Network, Bi-Level motion/ambient sensor ¹⁴		PIRHFC3V	High/low, motion/ambient sensor, 15-30" mounting height, ambient sensor enabled at 1ft. ¹⁰	
PER NEMA twist-lock receptacle only (no controls) ¹⁵				
PER5 Five-wire receptacle only (no controls) ^{15,16}		FAO	Field Adjustable Output ¹⁰	
PER7 Seven-wire receptacle only (no controls) ^{15,16}				
DMG 0-10V dimming extend out back of housing for external control (no controls) ¹⁷				
DS Dual switching ^{18,19}			Shipped separately BS Bird spikes ²¹ EGS External glare shield	



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DSX2-LED
Rev. 02/17/21
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R1



FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.

Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Max ceiling thickness: 1-1/2".

Accommodates 12"-24" joist spacing. Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

OPTICS — LEDs are binned to a 3-step SDCA; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumens maintenance at 60,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product.

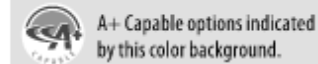
BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy American! government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

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Specifications subject to change without notice.



ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. Example: LDN6 35/15 L06AR LSS MVOLT EZ10

LDN6					
Series	Color temperature	Lumens ²	Aperture/Trim Color	Finish	Voltage
LDN6 6" round	27/ 2700K 30/ 3000K 35/ 3500K 40/ 4000K 50/ 5000K	05 500 lumens 07 750 lumens 10 1000 lumens 15 1500 lumens 20 2000 lumens	L06 Downlight LW6 Wallwash	AR Clear WR ⁴ White BR ⁴ Black	LSS Semi-specular LD Matte diffuse LS Specular

Driver	Options
GZ10 0-10V driver dims to 100%	SE ¹ Single fuse
GZ10 0-10V driver dims to 1%	TRW ¹ White painted flange
D10 Minimum dimming 100% driver for use with JOT	TRBL ¹ Black painted flange
D1 Minimum dimming 1% driver for use with JOT	EL ⁴ Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
EZ10 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	ELB ⁴ Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ELSD ⁴ Emergency battery pack with self-diagnostics, integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
EDAB eldoLED DALI SOLDRIVE dim to dark	ELRSD ⁴ Emergency battery pack with self-diagnostics, remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
	E10WCP ⁶ Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB
	E10WCPR ⁶ Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDB
	NPP16D ⁷ nLight™ network power/relay pack with 0-10V dimming for non-elddLED drivers (GZ10, GZ1).
	NPP16DER ⁷ nLight™ network power/relay pack with 0-10V dimming for non-elddLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.

Accessories: Order as separate catalog number.	Notes
PS10SSCP FMC Power Sentry batterypack, T20 compliant, field installable, 10w constant power	1 Overall height varies based on lumens package; refer to dimensional chart on page 3.
EAC ISSM 125 Compact interruptible emergency AC power system	2 Not available with finishes.
EAC ISSM 125 Compact interruptible emergency AC power system	3 Not available with emergency options.
GRA68 IZ Oversized trim ring with 8" outside diameter	4 Must specify voltage 120V or 277V.
SCA6 Sloped Ceiling Adapter. Degree of slope must be specified (SD, 100, 150, 200, 250, 300). Ex: SCA6 100	5 Available with clear (AR) reflector only.
	6 12.5" of plenum depth or top access required for battery pack maintenance.
	7 Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
	8 Fixture begins at 80% light level. Must be specified with NPS80Z or NPS80Z ER. Only available with EZ10 and EZ1 drivers.
	9 Not available with CP, NPS80Z, NPS80ZER, NPP16D, NPP16DER or N80 options.
	10 NLTAR2, NLTARER2 and NLTAREM2 not recommended for metal ceiling installations.
	11 Fixture height is 6.5" for all lumens packages with HAQ.
	12 Must specify voltage for 3000lm and above. 5000lm with marked spacing 24 x 24 W x 14 H. Not available with emergency battery pack option.
	13 Must specify D10 or D11 driver. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.

DOWNLIGHTING

LDN6

WESTERN TECH

1395 N Hayden Rd
Scottsdale, AZ 85257

Project No:	1398
Date:	02/07/22
Drawn By:	JWN
Reviewed By:	Checker
No:	Revision
	Date

SÄZÄN
GROUP

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SAZAN# 882-22002

Sheet Title:
FIXTURE
OUTSHEETS

Sheet No:

E0.03