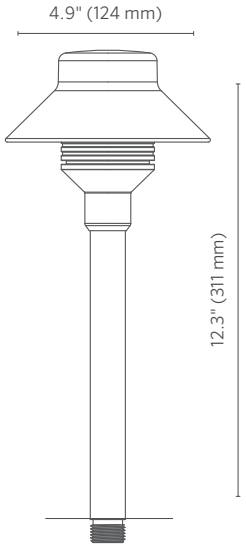
LUMASCAPE

| | |
|---|---|
| TYPE | |
| CATALOG # | |
| PROJECT | |
| NOTES | |

**LED** AREA LUMINAIRE

# aDuke-12a

Sleek area luminaire in 1 or 3 LED. Aluminum construction. RGBW capable with **ZDC**link® systems.




## Quick Facts

- Aluminum construction
- Two-layer, marine-grade anodization and powder-coat finish
- Cree® integrated LEDs
- Tamper-resistant features
- Color temperature filters
- Compatible with Luxor® technology
- Phase and Luxor dimmable
- Input voltage: 10–15 Vac/Vdc

# *a**Duke**-12a* SPECIFICATIONS

| Output | 1 LED | 3 LED | ZDC |
|---|---|---|---|
| **Total Lumens†** | 44 | 94 | 83 |
| **Input Voltage** | 10 to 15 V | 10 to 15 V | 11 to 15 V |
| **Input Power (W)** | 2.0 W | 4.2 W | 6.0 W |
| **Power Consumption (VA)** | 2.4 W | 4.5 W | 7.2 W |
| **Efficacy (lm/W)** | 23 | 64 | 36 |
| **Color Rendering Index (CRI)** | 82 | 83 | 84 |
| **Max Candela** | 15 | 30 | 40 |
| **Dimming** | | | |
| **Primary Dimming (Transformer)** | | Consult transformer specifications | |
| **Secondary Dimming (Fixture)** | Phase-cut** | Phase-cut** | Luxor |
| **RGBW Available** | No | No | Yes |
| **Luxor Compatibility** | | | |
| **Default** | Zoning | Zoning | -- |
| **ZD Option** | Zoning/Dimming | Zoning/Dimming | -- |
| **ZDC Option** | -- | -- | Zoning/Dimming/Color |
| **Minimum Rated Life L90 B10 (Hrs)** | 55,000 | 55,000 | 55,000 |

*† Measured using the 3,900K CCT lens. Multipliers for other CCTs include 0.80 (2,700K), 0.65 (4,500K), and 0.65 (5,200K).*
*** For optimal performance, use a trailing-edge (reverse phase-cut) dimmer.*

**Lumascape**
Lumascape transforms spaces with precision-engineered lighting solutions, proven to perform. Since 1991, customers have relied on us as a leading manufacturer of high-quality, innovative luminaires that solve their toughest lighting challenges. Our global experts combine sophisticated design, advanced technologies, quality materials, and rigorous testing to manufacture a comprehensive range of lighting systems that consistently exceed performance expectations. Lumascape is a member of the Hunter Industries family of companies. Learn more at lumascape.com.

**Materials**
Die-cast aluminum A380 housing, top/shade and riser.

**Lamp**
Integrated module with Cree LEDs. Gold-plated connectors and conformal coated for maximum reliability and corrosion resistance. Proprietary on-board intelligent driver uses firmware-controlled temperature regulation, maximizing LED life. Field upgradeable and replaceable, the LEDs are rated to 55,000 hrs. Maximum drive current: 1 A.

**Optics**
Polycarbonate color temperature adjustment lenses included with luminaire: 2,700K (preinstalled), 3,900K (no lens), 4,500K, and 5,200K. Conical reflector maximizes distribution according to riser height. Color temperature lenses field serviceable.

**Socket**
Socket contains MoistureBlock™ technology, preventing moisture from wicking up into sealed areas of the fixture.

**Wiring**
18 AWG (1 mm); SPT-1W; 220°F (105°C); 300 V; 3.6' (1.1 m) length with 12" (305 mm) riser.

**Power**
Input 10–15 Vac/Vdc, 50/60 Hz. Remote transformer required (specify separately).

**Housing**
Die-cast aluminum housing with capacity for 1 LED, 3 LED, or ZDC integrated LEDs.

**Riser**
¾" (19 mm) aluminum riser with machined male threads.

**Threads**
Machined aluminum with ½"-14 (13 mm) NPSM threads.

**Lens**
Frosted polycarbonate lens with high tolerance for thermal expansion, stress, and abuse.

**Finish**
Two-layer protection of sulfuric acid anodization and polyester TGIC powder coat, providing superior outdoor weathering in all conditions. Tested to ASTM standards.

**Hardware**
Includes ratcheting ABS spike for 360° horizontal rotation in 10° increments. Tamper-resistant locking screw included.

**Ambient Operating Temperature**
0°F to 140°F (-18°C to 60°C)

**Weight**
4.0 lbs (1.8 kg)

**Control**
**ZDC**link utilizes Luxor technology to zone light fixtures in up to 250 groups and dim each group in 1% increments between 0 and 100%. Select the ZD option for zoning/dimming. Standard fixture is zoneable with **ZDC**link.

**Installation Requirements**
Designed for installation in the downward lighting direction only.

**Sustainability**
Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining superior functionality. Our LED products provide high-quality light at optimal energy efficiency, lifespan, and durability.

**International Compliance**
Compliant per IEC 60598-1 and IEC 60598-2-4 when used with International Spike Kit ("EKITSPIKE") or alternate mount greater than or equal to IP65

**Manufacturing**
ISO 9001:2015 certified facility

**Warranty**
5-year limited warranty

**Listings**

# *a**Duke**-12a* ORDERING INFORMATION

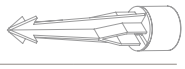
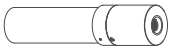
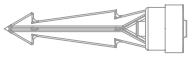
| Luminaire | Luxor Option | Output | Color Temp | Riser | Finish | | | |
|---|---|---|---|---|---|---|---|---|
| aDUK-12a* | ■ **[default]** *Zone* | ■ **1LED** *44 lm* | ■ **K27** *2,700K* | ■ **08R** *8" (203 mm) Riser* | ■ **BL** *Black* | | ■ **DA** *Dark Aluminum* | |
| | ■ **ZD** *Zone/Dim* | ■ **3LED** *94 lm* | | ■ **12R** *12" (305 mm) Riser* | ■ **SL** *Anodic Silver* | | ■ **BT** *Basalt Gray* | |
| | ■ **ZDC** *Zone/Dim/ Color* | ■ **[default]** *83 lm* | | ■ **18R** *18" (457 mm) Riser* | ■ **LT** *Latte* | | ■ **DB** *Dark Bronze* | |
| | | | | ■ **24R** *24" (610 mm) Riser* | ■ **AG** *Anthracite Gray* | | ■ **CC** *Custom RAL* | |
| | | | | ■ **30R** *30" (762 mm) Riser* | ■ **WT** *White* | | | |
| | | | | ■ **36R** *36" (914 mm) Riser* | | | | |

EXAMPLE LUMINAIRE CONFIGURATION: aDUK-12a-ZDC-K27-24R-SL†

aDUK-12a – [ ] – [ ] – K27 – [ ] – [ ]

* Ships with ProAim® racheting spike.
† Hyphens are for readability purposes only.

## MOUNTING OPTIONS: Specify Separately

| Mounts | Code† | |
|---|---|---|
| ■ **SUPER J-BOX** *2.5" (64 mm) x 12" (305 mm)* | SJ-XX* |  |
| ■ **PROAIM** *2.4" (61 mm) x 10" (254 mm)* | PARS | |
| ■ **3-PRONG SPIKE** *5.0" (127 mm) x 9.0" (229 mm)* | 250020020000 | |
| ■ **POST MOUNT** *2.5" (64 mm) x 13" (330 mm)* | PM-XX* | |
| ■ **GROUND MOUNT** *2.7" (67 mm) Diameter* | GM-XX* |  |
| ■ **VERSABOX®** *2.2" (57 mm) x 1.5" (39 mm)* | VB-050-XX* | |
| ■ **JUNCTION BOX SPIKE KIT** *3.35" (85 mm) x 12.5" (317.5 mm)* | EKITSPIKE |  |

**XX = Finish code*
***YY = Riser height in inches (6" increments between 6" and 36"; 150 mm increments between 150 mm and 900 mm).*
*† Hyphens are for readability purposes only.*

## COUPLING OPTIONS: Order Individually

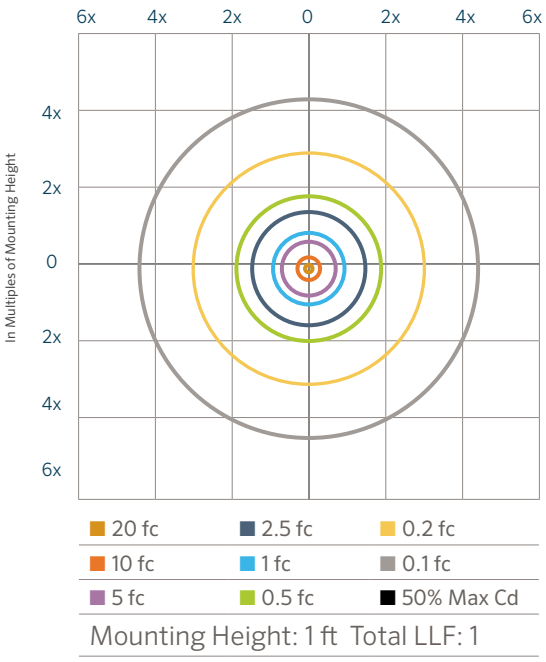
| Couplings | Code† | |
|---|---|---|
| ■ **STRAIGHT** *1.3" (32 mm) x 2.0" (51 mm)* | COUP-XX* | |

## RISER OPTIONS: Order Individually

| Riser | Code† | |
|---|---|---|
| ■ **ALUMINUM RISER** *0.8" (21 mm) Diameter* | YY**-R-XX* | |

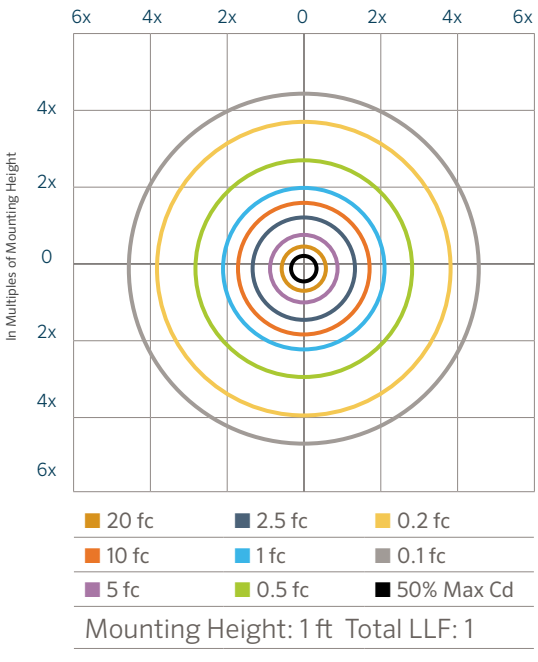
# *a*Duke-*12a* PHOTOMETRICS

## *a*Duke-*12a* 1LED Isofootcandle Plot



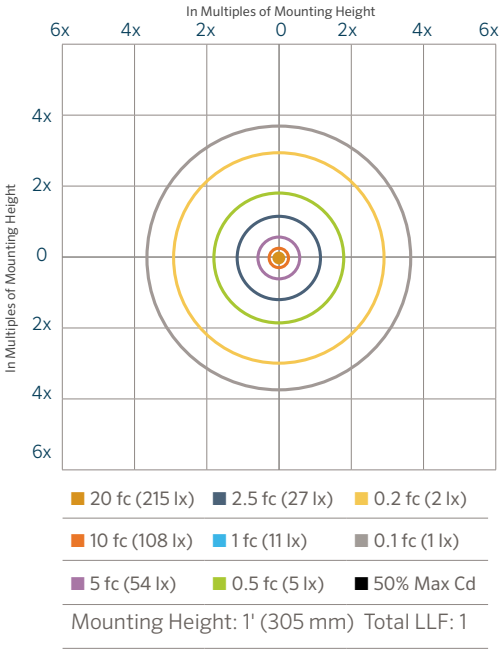

Mounting Height: 1 ft Total LLF: 1

## *a*Duke-*12a* 3LED Isofootcandle Plot




Mounting Height: 1 ft Total LLF: 1

## *a*Duke-*12a* ZDC Isofootcandle Plot




Mounting Height: 1' (305 mm) Total LLF: 1

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