

Alien LED Downlight™



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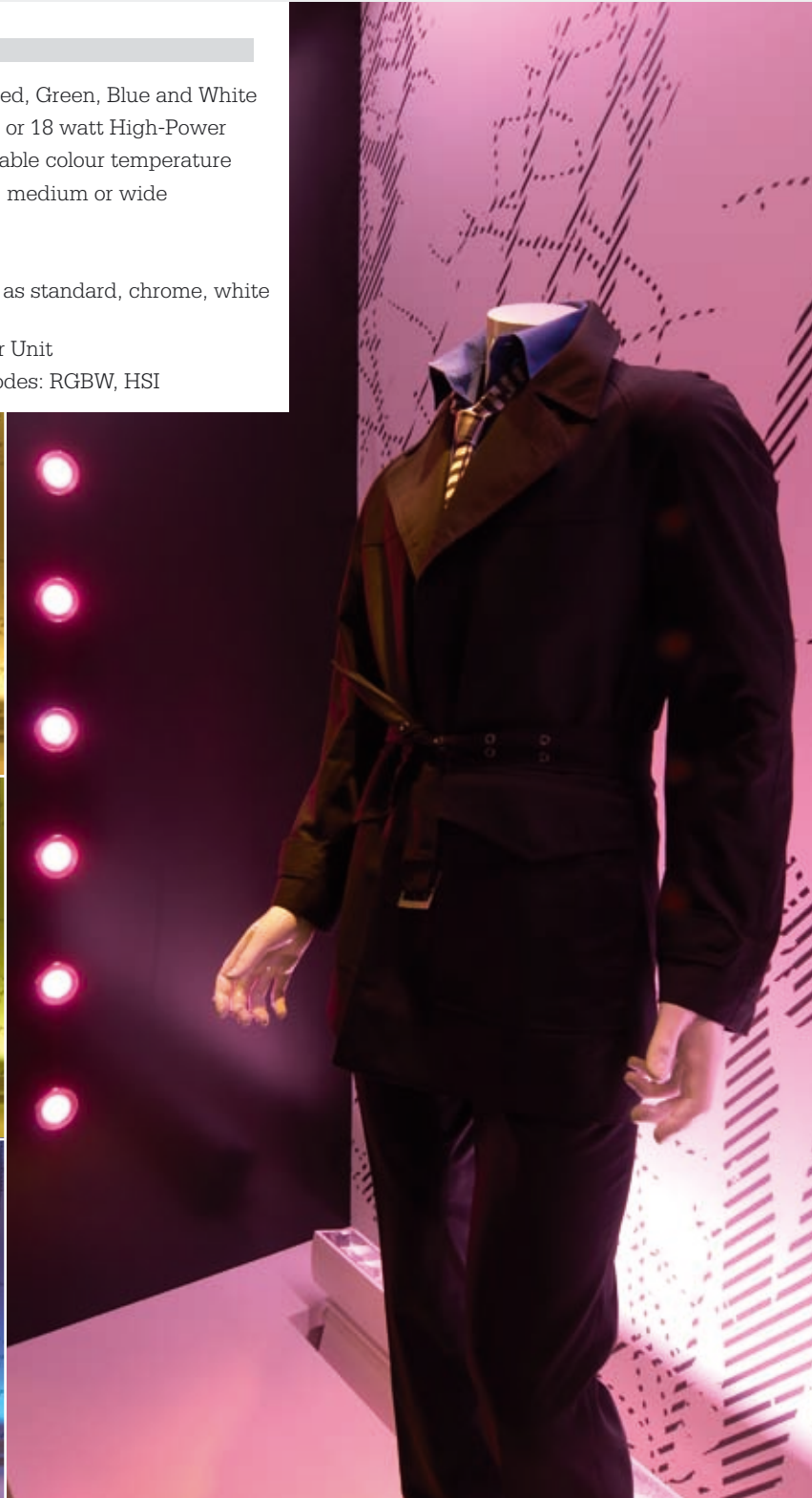


These plug-and-play recessed LED downlights feature RGBW colour mixing designed for accent lighting in coloured or variable white light, and are equally suited to both indoor and outdoor environments



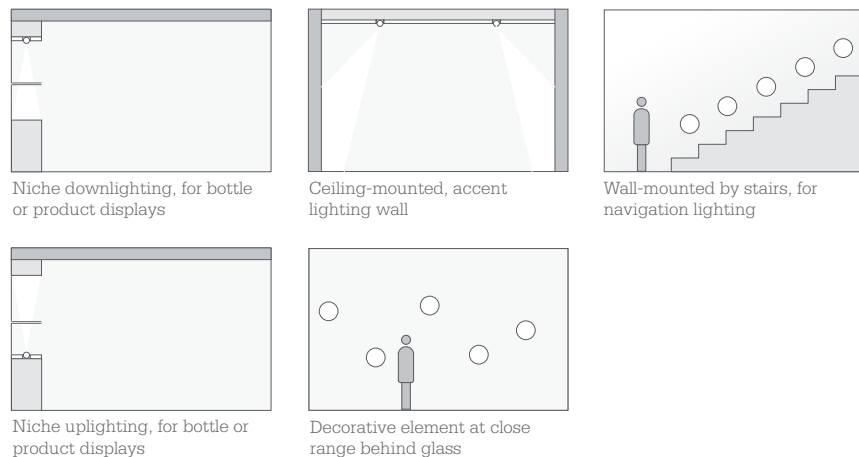
FEATURES

- 5 or 9 LEDs in 4 colours: Red, Green, Blue and White
- Choice of 9 watt Standard or 18 watt High-Power
- RGBW colour mixing, variable colour temperature
- Choice of optical systems: medium or wide
- 0-100% intensity control
- Weatherproof rating: IP67
- Trim rings: Stainless steel as standard, chrome, white or brass as accessories
- DMX controlled, via Driver Unit
- Choice of DMX control modes: RGBW, HSI



EASY TO INSTALL

The Alien LED Downlight will fit into any standard MR16 hole in your ceiling or wall and is therefore ideal as a replacement or as a new installation. This allows the luminaire to blend inconspicuously into existing architecture.

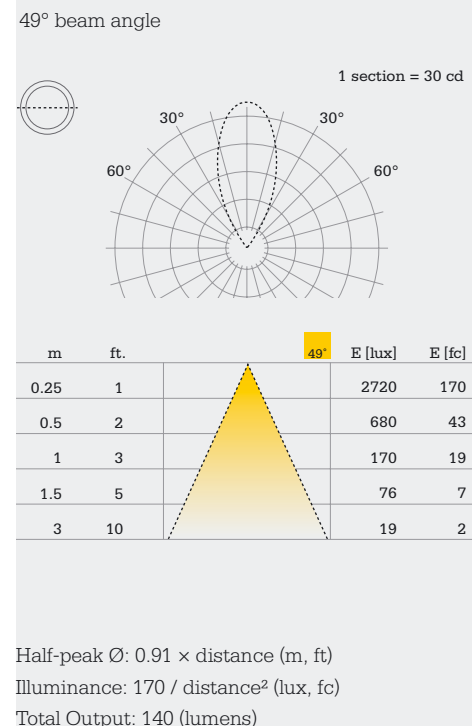


TRUE WHITE & RGBW COLOUR-MIXING

The Alien LED Downlight is strong in achieving saturated colours. Whereas you typically subtract output when mixing colour in a metal halide luminaire, you increase output the more LEDs are turned on. That the colours are evenly mixed when leaving the luminaire means that it is also an attractive product to look at. Furthermore, the white LED allows for a 'true' white colour as opposed to 'dirty' whites when using only RGB diodes. The white also allows designers to create softer, subtler pastel shades.

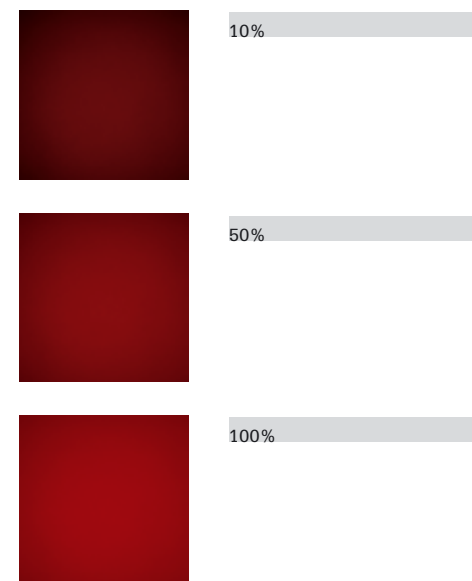


STANDARD (Only 2 x white LED's on)



0-100% INTENSITY CONTROL

The ability to dim a luminaire is appreciated by designers who want balance of brightness or the ability to allow structures and landscapes to respond intelligently to the availability of natural light.

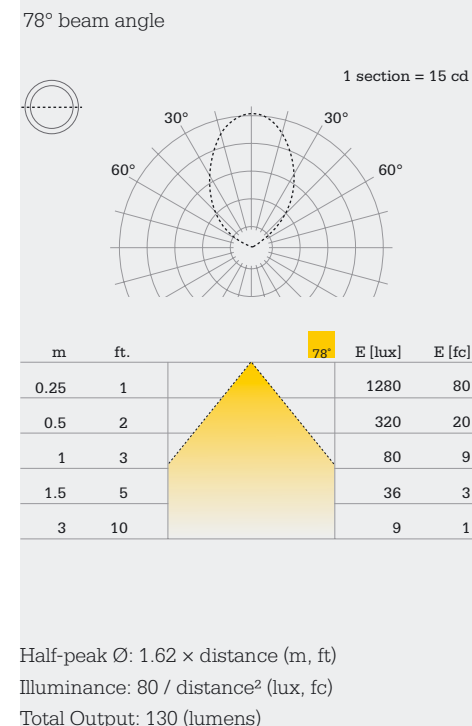


MEDIUM OR WIDE OPTICAL SYSTEMS

Choose between two optical systems: medium or wide.



WIDE (Only 2 x white LED's on)



CHOICE OF STANDARD OR HIGH-POWER MODELS

Choose between 9 W per Standard luminaire or 18 W per High-Power luminaire. Well-known Rebel LEDs are used to ensure high performance and output as well as a high quality. The luminaires are sold in sets consisting either of two Standard (9 W) fixtures and a transformer, or one High-Power (18 W) luminaire and a transformer. The required driver unit is sold separately.

CONNECTIONS

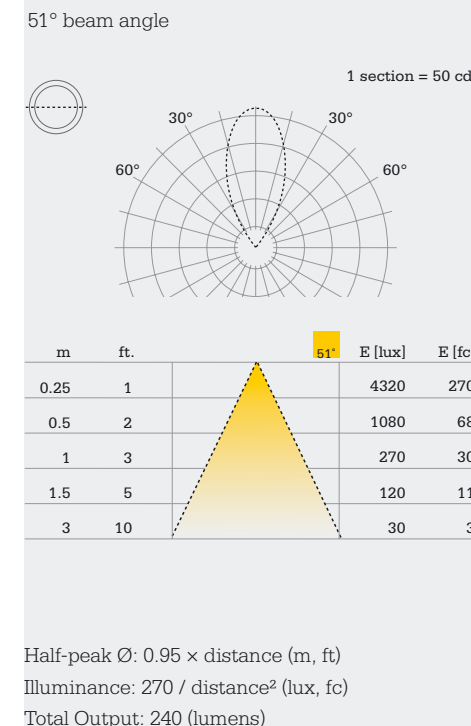
The Alien LED Downlight is easily interconnected by linking transformers together with standard IEC connectors. The link to the luminaire is via standard RJ-45 connectors.

IP67 WEATHER RESISTANT RATING



The luminaire is weather-protected for dynamic illumination of facades, structures and water features and operates flawlessly from -25 to +45° C. With the Driver Unit and transformer placed remotely from the luminaires, a similarly high IP-rating is not necessary for these units.

HIGH-POWER (Only 4 x white LED's on)

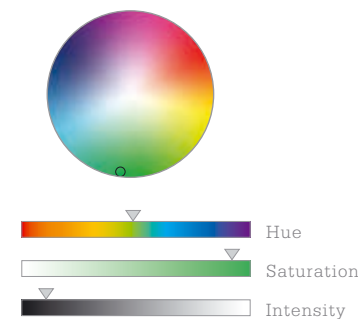


DMX CONTROL MODES OR STAND-ALONE

RGBW or HSI DMX control modes offer full, comprehensive control when a designer or user needs it, simply and effectively, without using lots of channels. A maximum of 16 channels are needed per Driver Unit. Alternatively, 31 pre-programmed static/dynamic scenes/sequences are built into the Driver Unit for stand-alone operation, which are easily activated from the DIP switch.

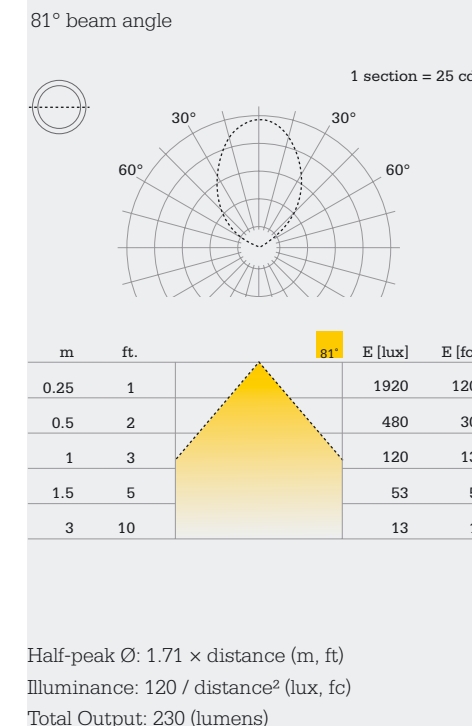


HSI (HUE, SATURATION, INTENSITY) CONTROL



The intuitive HSI control system allows designers to control the unit in terms of colour, rather than only DMX levels. Simply set the DIP-switch 10 to "on" for HSI mode.

HIGH POWER (Only 2 x white LED's on)



DRIVER UNIT

Sold separately, the Alien LED Driver is a plug-and-play unit for the Alien LED Downlight and offers great flexibility for solutions using both 9 watt and 18 watt fixtures. One Driver Unit can control up to a maximum of 20 Standard luminaires or 10 High-Power luminaires, or any combination of the two equal to 10 transformers. Up to four unique groups can be controlled from one Driver Unit, and each transformer is easily programmed from the Driver Unit.

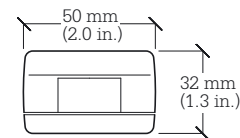
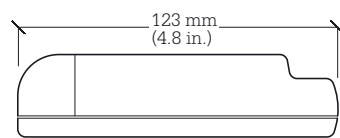
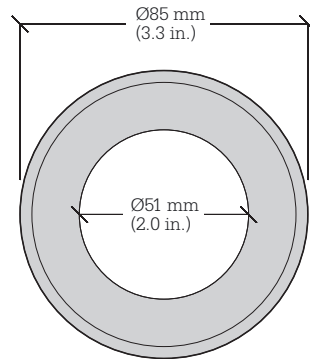
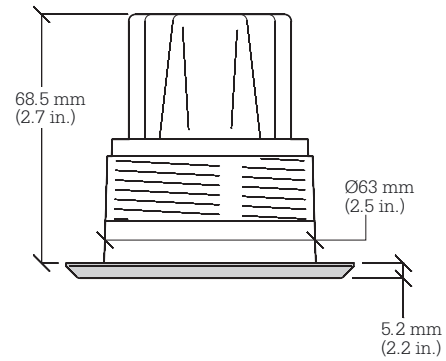


Alien LED Downlight™

SPECIFICATION

PHYSICAL

Length: 69 mm (2.7 in.)
 Trim ring outer diameter: 85 mm (3.3 in.)
 Diameter of luminaire at widest point: 63 mm (2.5 in.)
 Weight: 330 g (11.6 oz.) incl. cable
 Maximum protrusion from mounting surface: 6 mm (0.2 in.)
 Length (transformer): 123 mm (4.8 in.)
 Width (transformer): 50 mm (2.0 in.)
 Height (transformer): 32 mm (1.3 in.)
 Weight (transformer): 385 g (13.6 oz.) incl. cables



Transformer

DYNAMIC EFFECTS

Colour mixing: RGBW
 Red: 0 - 100%
 Green: 0 - 100%
 Blue: 0 - 100%
 White: 0 - 100%

PHOTOMETRIC DATA

Light source: Luxeon Rebel high power emitters
 Total LED power: 9 W (approx.) per Standard luminaire, 18 W (approx.) per High-Power luminaire
 Half-peak angle: 49° as standard
 Super-wide lens available

CONTROL AND PROGRAMMING

Required control hardware: Alien LED Downlight Driver Unit (ordered separately, drives up to 20 std. or 10 high-power luminaires)
 Colour control modes: RGBW, HSI
 DMX channels: 4 per independently controlled luminaire or group of luminaires
 Protocol: USITT DMX512-A
 DMX address setting: DIP switch on Driver Unit
 Stand-alone options: 31 pre-programmed static/dynamic scenes/sequences in Driver Unit

CONSTRUCTION

Housing: Steel & aluminium
 Housing (transformer): Flame-retardant plastic
 Trim ring: Brushed stainless (standard), chrome, white or brass
 Protection rating: IP67
 Protection rating (transformer): IP20

INSTALLATION

Location: Recessed, ceiling or wall
 Orientation: Any
 Minimum clearance around device: 50 mm (2.0 in.)
 Ceiling thickness: 5 mm (0.2 in.) - 22 mm (0.9 in.)
 Luminaire external thread for retaining nut: 2-inch BSP
 Diameter of mounting hole: 70 mm (2.8 in.) with plasterboard retainer, 63 mm (2.5 in.) with 2" BSP nut

ELECTRICAL

AC power: Supplied by Driver Unit via combined power & data cable

THERMAL

Cooling: Convection
 Maximum ambient temperature (Ta max.): Luminaire 45° C (113° F), transformer 40° C (104° F)
 Minimum ambient temperature (Ta min.): Luminaire -25° C (-13° F), transformer 0° C (32° F)
 Maximum surface temperature, steady state, Ta=45° C: Standard luminaire 80° C (176° F), High-Power luminaire 85° C (185° F), transformer 70° C (158° F)
 Total heat dissipation per head (1 High-Power or 2 standard luminaires), calculated, +/- 10%: 62 BTU/hr.

APPROVALS

EU safety: BSEN 60598-1, BSEN 60598-2-2 (luminaire), BSEN 61347-1, BSEN 61347-2-13 (transformer)



EU EMC: EN 55 015, EN 55 103, EN 61 000-3

US safety: UL 1598 (luminaire), UL 1310 (transformer)

Canadian safety: CSA C22.2 No. 250 (luminaire), CSA C22.2 No. 223 (transformer)

INCLUDED ITEMS

Two Standard luminaires, one transformer, all cables and connectors (Standard Downlight Set)
 One High-Power luminaire, one transformer, all cables and connectors (High-Power Downlight Set)

ACCESSORIES



91611301
Chrome trim ring



91611302
Brass trim ring



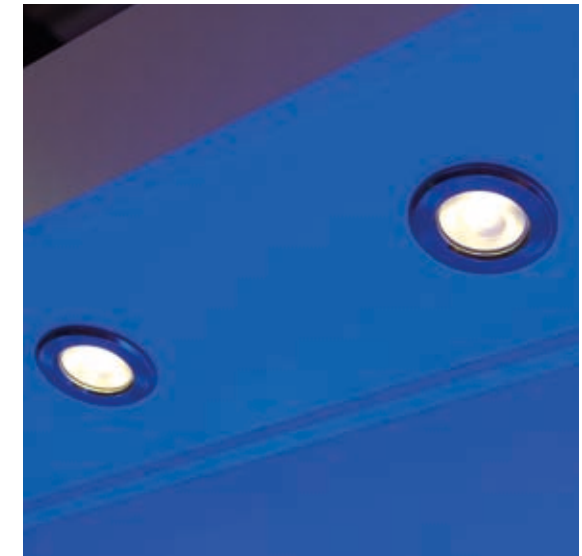
91611303
White trim ring



91610093
Super-wide lens

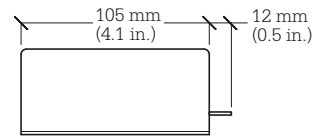
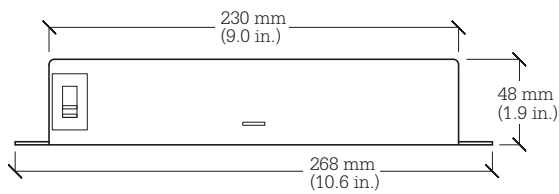


91613028
DMX termination plug, RJ-45



Alien LED Driver™

SPECIFICATION



PHYSICAL

Length: 268 mm (10.6 in.)
 Width: 117 mm (4.6 in.)
 Height: 48 mm (1.9 in.)
 Weight: 1720 g (60.7 oz.) incl. cable

CONTROL AND PROGRAMMING

Colour control modes: RGBW, HSI
 DMX channels: Up to 16
 Protocol: USITT DMX512-A
 DMX address setting: DIP switch
 Stand-alone options: 31 pre-programmed static/dynamic scenes/sequences

CONSTRUCTION

Housing: Steel
 Colour: Black
 Protection rating: IP20

INSTALLATION

Location: Interior
 Orientation: Any
 Minimum clearance around device: 50 mm (2.0 in.)

ELECTRICAL

AC power: Switch-selectable 100-120/208-240 V nominal, 50/60 Hz
 Max. power and current at max. load: 1200 W, 5 A
 Max. total current at outputs (combined): 5 A

THERMAL

Cooling: Convection
 Maximum ambient temperature (Ta max.): 40° C (104° F)
 Minimum ambient temperature (Ta min.): 5° C (41° F)
 Maximum surface temperature, steady state: 60° C (140° F)
 Total heat dissipation, 1 Driver + 1 head (calculated, +/- 10% at 110 V, 60 Hz / 230 V, 50 Hz): 62 BTU/hr.
 Total heat dissipation, 1 Driver + 10 heads (calculated, +/- 10% at 110 V, 60 Hz / 230 V, 50 Hz): 620 BTU/hr.

APPROVALS

EU safety: BSEN 61347-1, BSEN 61347-2-11
 EU EMC: EN 55 015, EN 55 103, EN 61 000-3
 US safety: UL 1598
 Canadian safety: CAN/CSA C.22.2 No. 250



INCLUDED ITEMS

Alien LED Driver Unit
 3-pin male XLR to male RJ-45 adapter
 User manual

ACCESSORIES



11840111
 5-pin male XLR to male RJ-45 adapter



11840112
 5-pin female XLR to male RJ-45 adapter



11840087
 3-pin male XLR to male RJ-45 adapter



11840086
 3-pin female XLR to male RJ-45 adapter



11840088
 RJ-45 patch cable, 250 mm



Alien LED Downlight™

ORDERING

EXAMPLE SPECIFICATION

Alien LED Downlight, Recessed Mounted, LED, IP67, **RGB+W, 9 W, Standard Downlight Set**

= Alien LED Standard Downlight Set

= **90353000**

VARIABLES

Alien LED Standard Downlight Set	9 W
Alien LED High-Power Downlight Set	18 W



Alien LED Downlight

SPECIFICATION	CODE
Alien LED Standard Downlight Set	90353000
Alien LED High-Power Downlight Set	90353040

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China	Greece	Latvia	Paraguay	Sudan	Yemen

Alien LED Driver™

ORDERING



Alien LED Downlight Driver Unit

SPECIFICATION	CODE
Alien LED Downlight Driver Unit	90734510

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