

PENTATHLON

LED DOWNLIGHT

Class II IP20

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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The PENTATHLON Dark Reflector LED Downlight is specially designed to provide low glare lighting in high ceiling areas. The Nichia COB chip gives out a high efficiency and high CRI (90) light. The lens that is used in the PENTATHLON allows the light to reach the ground with minimal loss from deep inside the fixture. The depth of the fixture and the clean beam of the lens is what provides the low glare of this fixture.

Body

Die cast aluminium

Paint

Electrostatic powder paint RAL 9016 (available in other RAL colors)

Springs

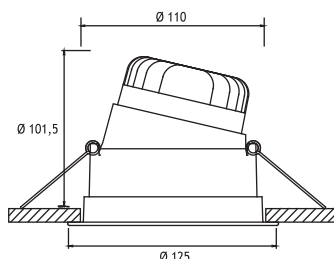
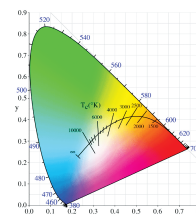
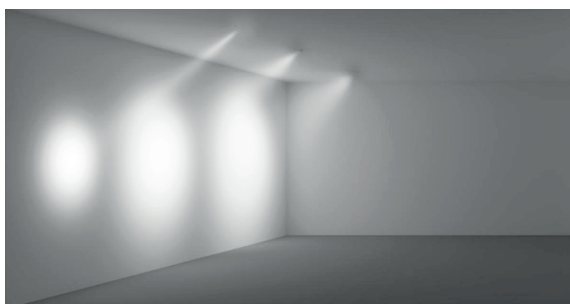
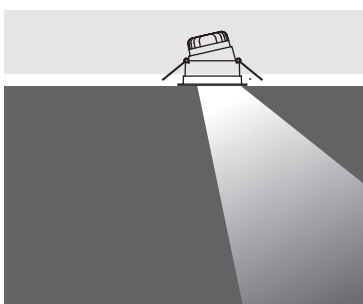
Steel for mounting in ceilings of 1-25mm thickness

Gear

Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)

Cable

0.5m exiting from top of fixture



Led : 350mA 13W / 500mA 18W LED (Nichia)
Reflector : 24° or 38°
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

13W / 18W COB LED		Total Lighting Output		
		13W	18W	13W
☾ Warm White	3000 K	1250 lm	1710 lm	118221

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.