

# MARATHON 2

## LED DOWNLIGHT

### Class II IP20

Available in any of these RAL colors



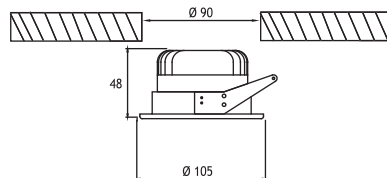
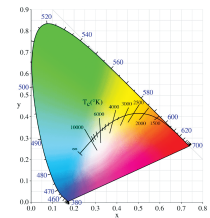
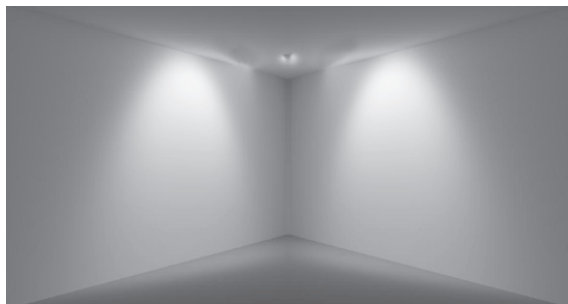
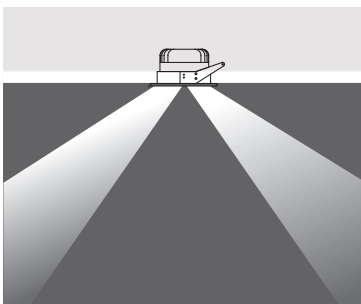
The Marathon LED Downlight is specially designed to deliver high output LED light to indoors and outdoors using CREE LEDs. This downlight is the choice for lighting applications where high luminous-flux output is required from a single, small point source. A combination of high color rendition of over 80, several different color temperatures and several degree reflectors and lenses allow the use in a wide range of applications such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies. The shallow fixture depths allow for installation into most ceilings and applications. Non-dimmable drivers come standard with the Downlights, but 1-10V dimmable and DALI drivers are available on request. An ample heat sink is provided for to allow for the lifetime of L70 = 50,000 hours.

#### Body

Die cast aluminium designed to be heat sink

#### Cover

Die cast aluminium RAL9002 (available in other RAL colors as well as chrome or gold on request)



- Led** : COB LED (350-500mA)
- Reflector** : Wallwasher Lens
- Gear** : 240V Non-Dimmable Driver  
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F

		Total Lighting Output		
		12W	18W	12W
☀ Warm White	3000 K	1098 lm	1638 lm	264201

#### 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.