

COOLICS R70A DS10

Adjustable LED Downlight

Indoor architectural & general lighting



580 lm (200mA)
700 lm (250mA)

Total Weight Only 135g

Environmental Green
Coolics Heat- Sink*

Many Applications

Tilt 0 -30 deg.

Choices of Optics

Product information:

Features and benefits

- Advanced downlight application
- Choices of LEDiL's MINNIE and MIRA optics
- Optimized for light beams up to ~60 degrees FWHM, meaning optimal balance between UGR value and light output towards downlight area that is supposed to be illuminated
- Design allows tilt between 0...30 degrees with all luminaires attached
- Balanced assembly holds heatsink in all tilt positions
- Total weight of luminaire is only 135g
- Lifetime up to 50,000 h
- Color temperature 3000K, 4000K
- Dimmable
- Type of protection IP20

Connector, plug and play

- Heatsink is equipped with 2 pcs through-board TE-connectors (2213189-1)
- Design allows solder-free wire connection from behind the heatsink

Applications

- Indoor architectural
- Retail display Light
- Commercial lighting
- Hotel lighting
- Bar & Restaurant
- General lighting
- Museum & Gallery

Structures & Materials

Optics:

Ledil; Lens MIRA; 54°. Material PC

Ledil; Reflector MINNIE; Material PC

Heat-Sink: Coolics, Thermal conductive plastic

Bezel: Ledil; AINO PC+ASA blend

LED: Osram Duris S 10

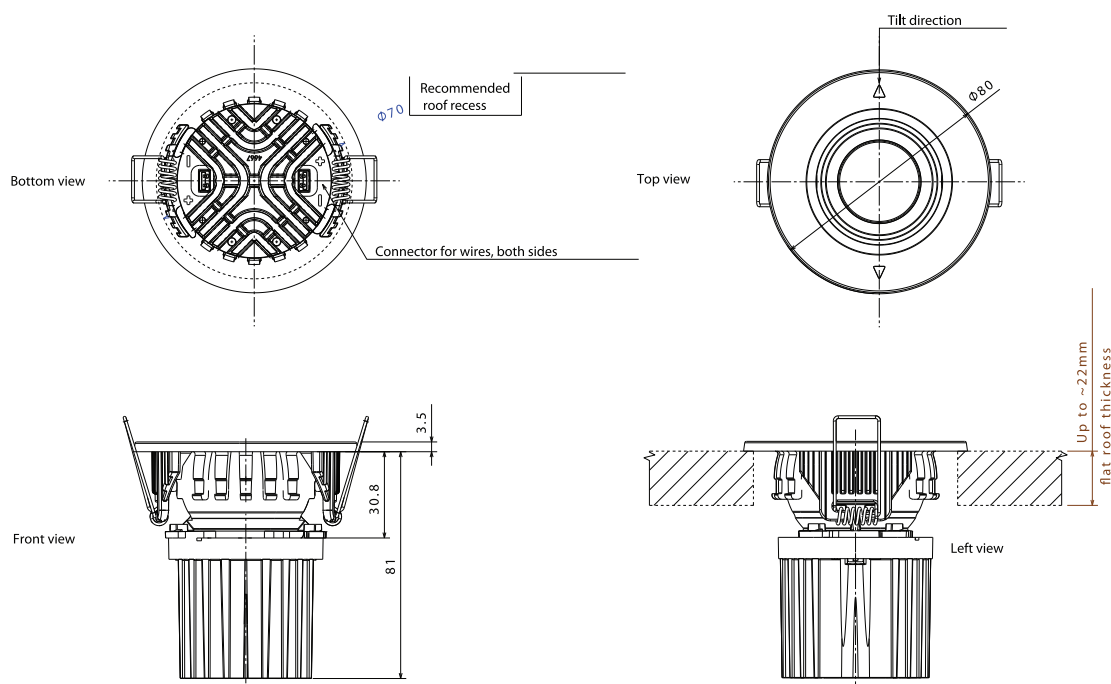
Assembly tips on roof

1. Make a ~70 mm diameter recess on roof
 2. Connect power wire
 3. Push springs open on both sides
 4. Put the lamp in to the roof recess hole
 5. Release springs
- Please note that collar is compatible with flat roofs up to ~22mm thickness maximum.

Technical Data

Dimensions and weight

- Diameter 80,0mm
- Height 84,5mm
- Weight 135g
- Roof recess 67,0 – 71,0 mm (recommended 70mm)
- Flat roof thickness up to -22mm



Electrical data

- Operating mode Dimmable (with suitable drivers)
- Nominal wattage 200mA = 5,4 W | 250mA = 6,9W
- Nominal voltage 28V, power supply 220...240 V

Photometrical data

- Color temperature 3000 K | 4000 K
- Light color (designation) Warm white | White
- Luminous flux 200mA = 580 lm | 250mA = 700lm

Light technical data

- Beam angle Optional MIRA 54° MINNIE-XW 86° (MIRA FAMILY 22°, 34° 54° | MINNIE 21°, 86°)*
- Light distribution tilt between 0...30 degrees

* Optical possibilities on special demand

Colors & materials

- Body material Black, Coolics, thermal conductive plastic
- Cover material White, Polycarbonate (PC) + ASA blend
- Reflector material White, HRPC

Temperatures & operating conditions

- Ambient temperature range $\leq +30^{\circ}\text{C}$

Type of installation

Recessed

Type of connection Cable, 0,65 - 1 mm²

Certificates & standards

Type of protection IP20
ROHS Compliant Yes

Order reference: Coolics R70 DS10 MA 54 (Optics 54°)
Coolics R70 DS10 ME 86 (Optics 86°)

OPTICAL INFORMATION

PRODUCT DATASHEET

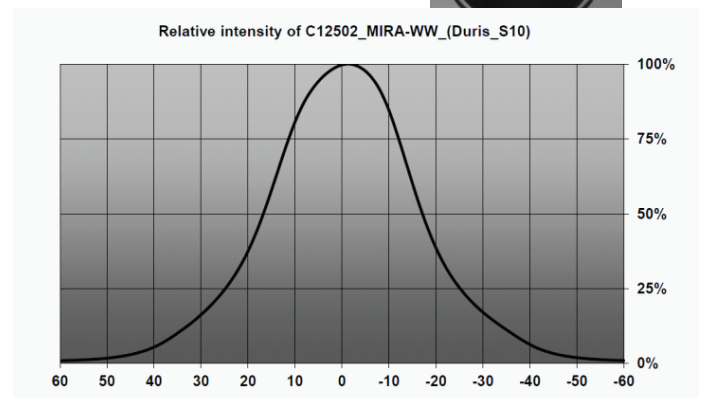
COOLICS R70 DS10 MA54

DETAILS

Type Lens. Ledil MIRA-WW
Color clear
Diameter 32,4 mm
Height 14,7 mm
Style round
Optic Material PC
ROHS Compliant Yes

OPTICAL PROPERTIES

LED Duris S10
Viewing Angle 54°
Light Beam Very Wide
Efficiency 86%
cd/lm 1.100



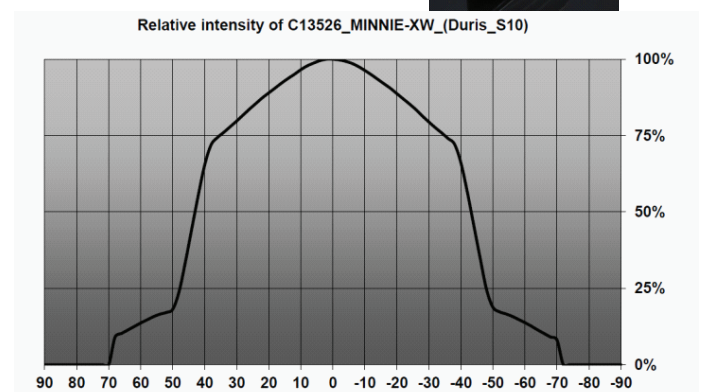
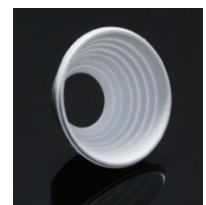
COOLICS R70 DS10 ME86

DETAILS

Type Reflector, Ledil MINNIE-XW
Color white
Diameter 32,4 mm
Height 14,75 mm
Style round
Optic Material HRPC
ROHS Compliant Yes

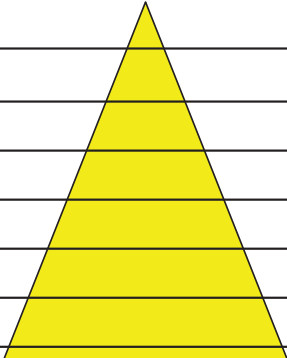
OPTICAL PROPERTIES

LED Duris S10
Viewing Angle 86°
Light Beam WWW-class
Efficiency 92%
cd/lm 0,500



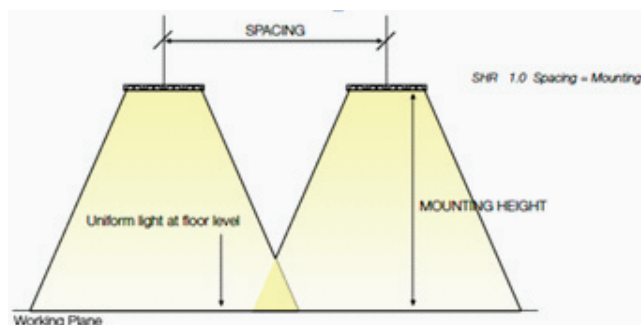
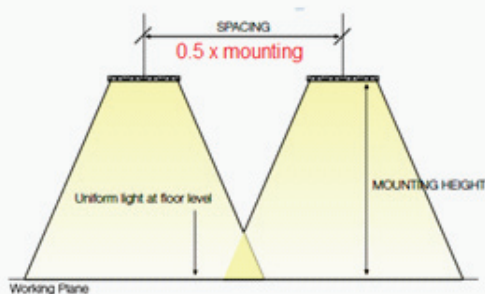
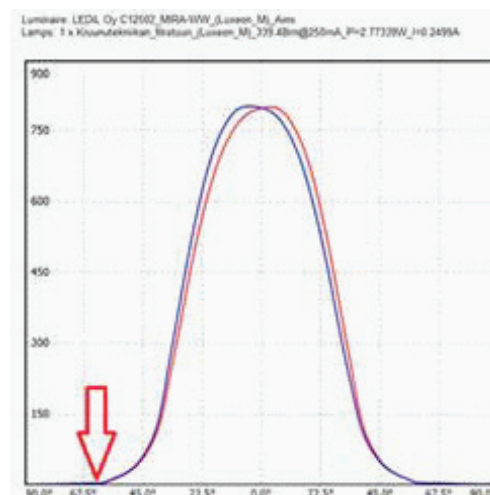
COOLICS R70A simulated Cone diagram

Cone diameter BA-50% CO-180/ C90-270 (m)

Distance (m)	Beam angle BA, FWHM 50%	Illuminance in the Cone center (lx)			
		200mA	200mA	250mA	250mA
		Optics 54°	Optics 86°	Optics 54°	Optics 86°
0.5		3388	1374	4089	1659
1.0		847	343	1022	414
1.5		376	152	454	184
2.0		212	86	255	104
2.5		136	55	163	66
3.0		94	38	113	46

Application example

- C12502_MIRA-WW as 1000 lm led light output.
- What AINO brings to an already good LEDiL single optic performance is a glare shield to support room atmosphere where high flux downlights are needed but direct light has to be avoided.
- When lamp spacing = mounting height / 1000LM led drive UGR < 6
- When lamp spacing 0.5 from mounting height / 1000LM led drive UGR < 16
- When lamp spacing 0.3 from mounting height / 1000LM led drive UGR < 19



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Coolics Oy is a flexible and innovative company offering highest quality injection moulded LED Heatsink Modules and Components that are made of Thermally Conductive Polymers (TCP's). This Future Heatsink Technology will guarantee several benefits to our Customers including Lower Carbon Footprint, reduced weight, inherent corrosion resistance and total customization of the final product, including also design of the custom made solutions where lighting element itself works as a thermal transfer component.