

Harput Downlight Series



EMFA

HARPUT LED DOWNLIGHT

Class II IP65/20



The Harput LED downlight is specially designed to deliver high output LED light with very clean beam angles to corridors, hotel rooms, museums and general lighting of public spaces. The LEDs used in the HARPUT are very efficient and have a high CRI (90). The unique lens that is used in this fixture creates very sharp beams that minimize the spill of uncontrolled light from the fixture. This reduces the glare of the fixture and gives more control to the architects and designers

Body

Aluminium

Heatsink

Aluminium

Diffuser

With clear or frosted tempered glass

Springs

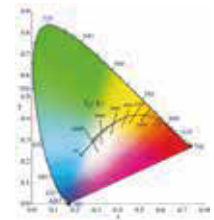
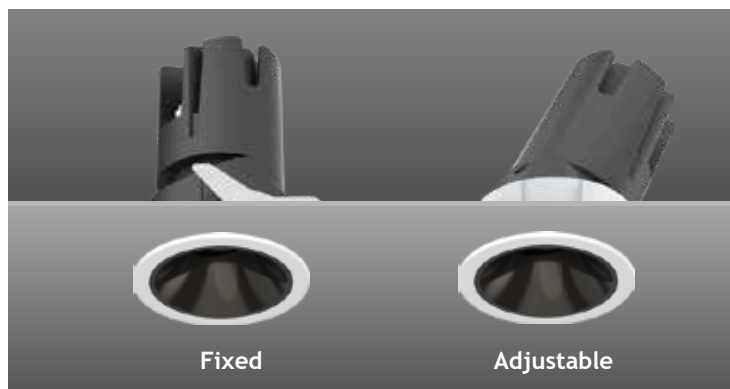
Steel

Cable

0.5 m exiting top of fixture

Gear

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



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.

Application

Symmetrical and asymmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 standard paint colors, 2 white tones, 2 wattages are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

BEAM ANGLE



Thermal Management

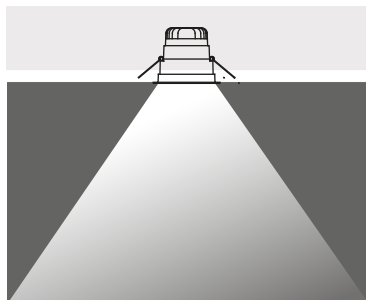
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained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

HARPOT MINI LED DOWNLIGHT

Class II IP20



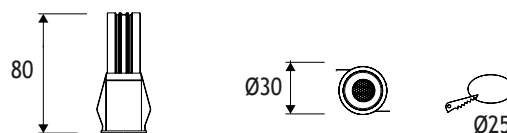
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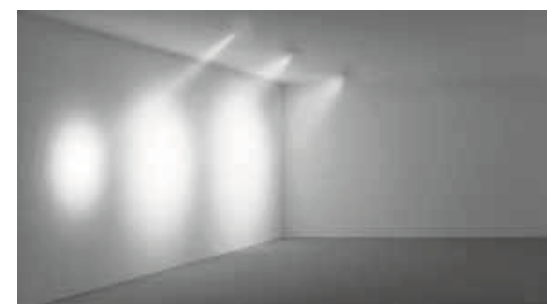
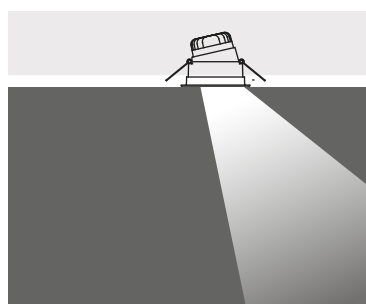
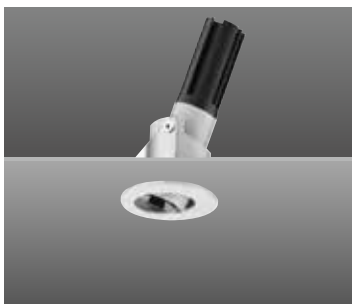
Led : 1W or 3W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

1W POWER LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	95 lm	230001
☼ Natural White	4000 K	104 lm	230002

3W POWER LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	285 lm	230011
☼ Natural White	4000 K	310 lm	230012



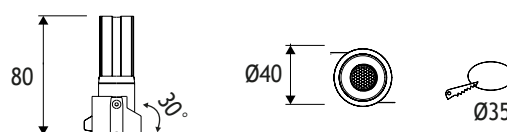
Adjustable



Led : 1W or 3W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

1W POWER LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	95 lm	230101
☼ Natural White	4000 K	104 lm	230102

3W POWER LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	285 lm	230111
☼ Natural White	4000 K	310 lm	230112



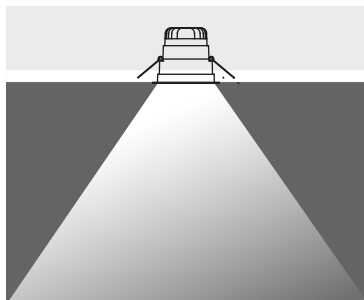
HARPUR 2

LED DOWNLIGHT

Class II IP65



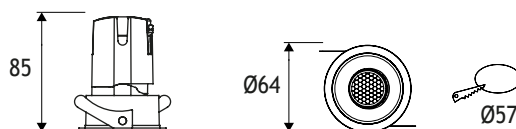
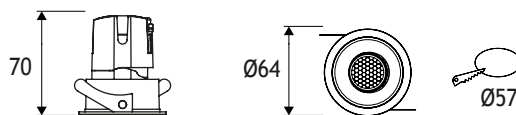
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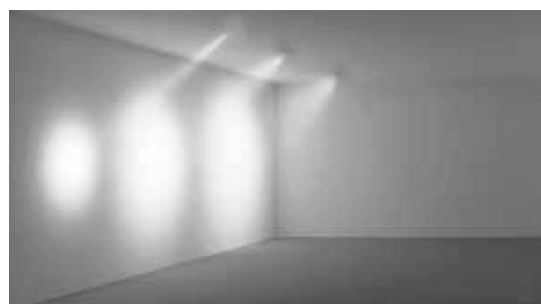
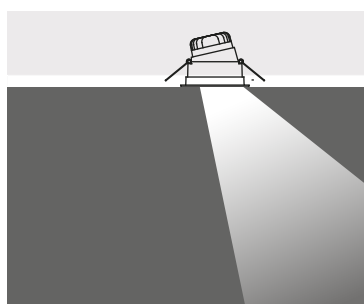
Led : 6W or 12W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

6W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	570 lm	231001
☼ Natural White	4000 K	627 lm	231002

12W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	1140 lm	231011
☼ Natural White	4000 K	1254 lm	231012



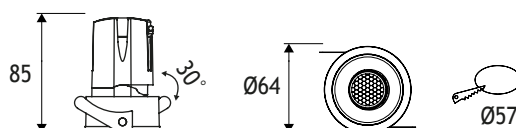
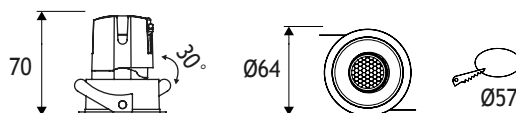
Adjustable



Led : 6W or 12W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

6W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	570 lm	231101
☼ Natural White	4000 K	627 lm	231102

12W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	1140 lm	231111
☼ Natural White	4000 K	1254 lm	231112



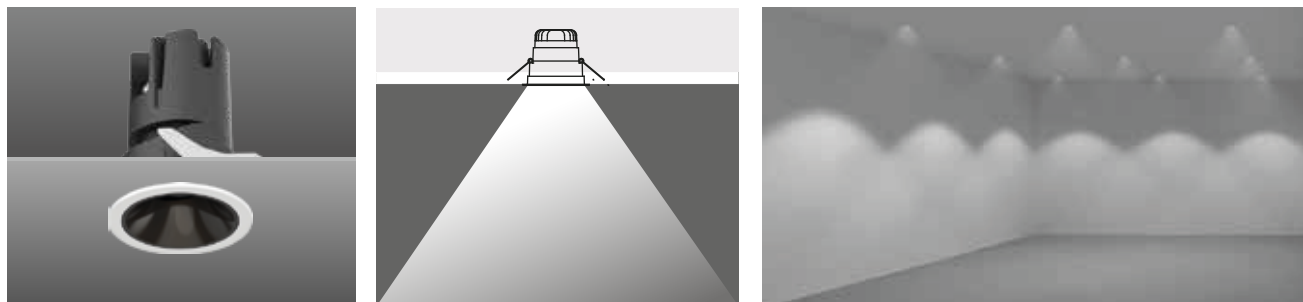
HARPUT 3

LED DOWNLIGHT

Class II IP65



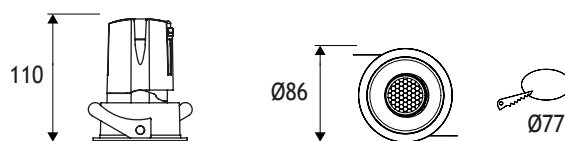
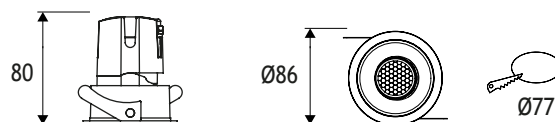
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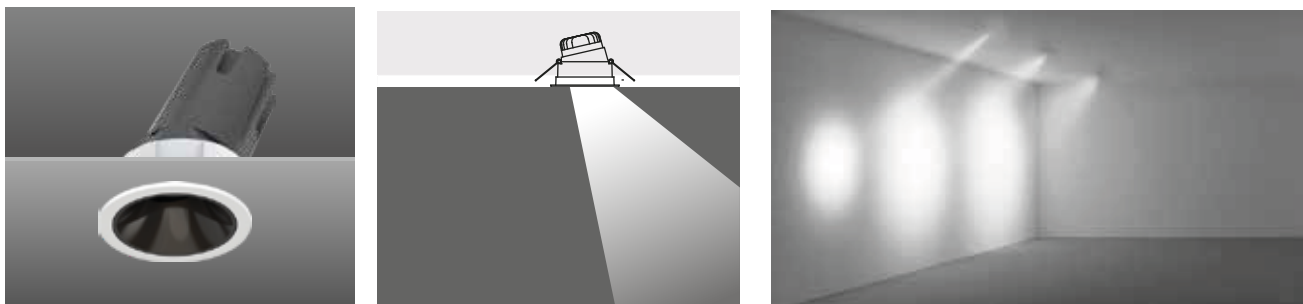
Led : 6W or 12W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

12W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	1140 lm	232001
☼ Natural White	4000 K	1254 lm	232002

20W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	1900 lm	232011
☼ Natural White	4000 K	2090 lm	232012



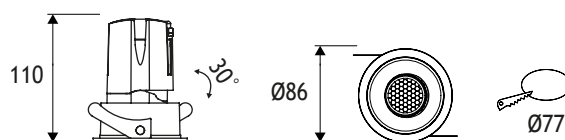
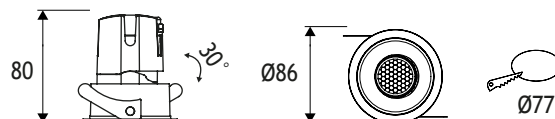
Adjustable



Led : 6W or 12W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

12W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	1140 lm	232101
☼ Natural White	4000 K	1254 lm	232102

20W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	1900 lm	232111
☼ Natural White	4000 K	2090 lm	232112



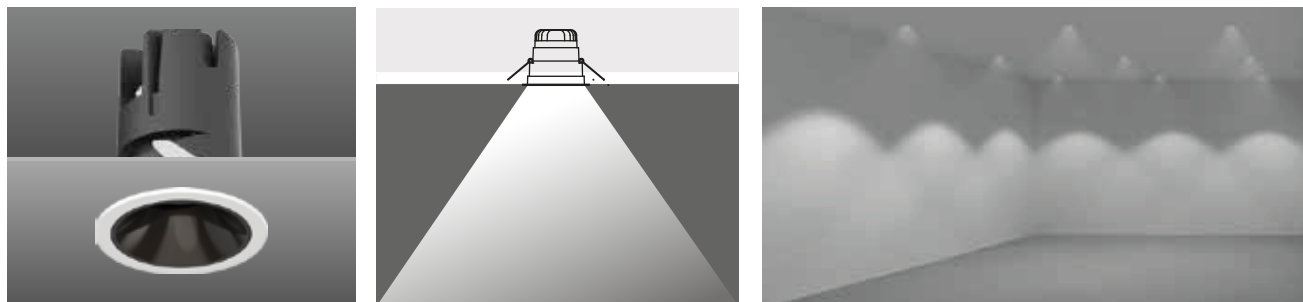
HARPUT 4

LED DOWNLIGHT

Class II IP65



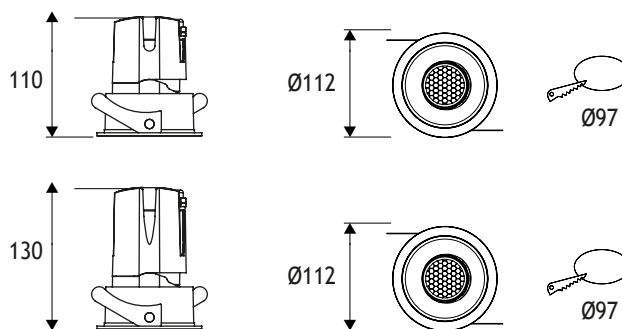
Fixed



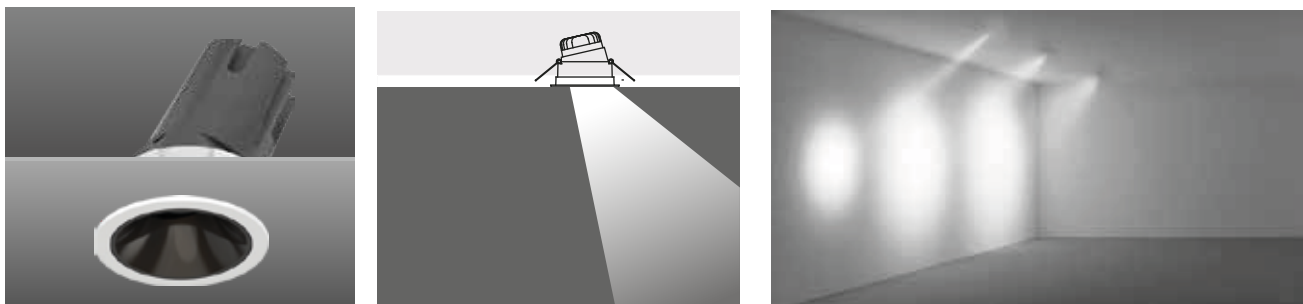
Led : 6W or 12W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

20W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	1900 lm	233001
☼ Natural White	4000 K	2090 lm	233002

30W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	2850 lm	233011
☼ Natural White	4000 K	3130 lm	233012



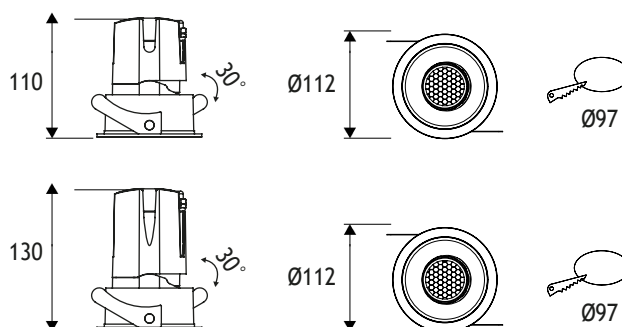
Adjustable



Led : 6W or 12W COB LED
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Gear : 240V
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Cable : 0,5 m 2x0,75 mm H03 VV-F

20W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	1900 lm	233101
☼ Natural White	4000 K	2090 lm	233102

30W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	2850 lm	233111
☼ Natural White	4000 K	3130 lm	233112



HARPUT

TRIMLESS LED DOWNLIGHT

Class II IP65/20



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Heatsink

Aluminium

Diffuser

With clear or frosted tempered glass

Springs

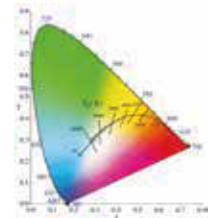
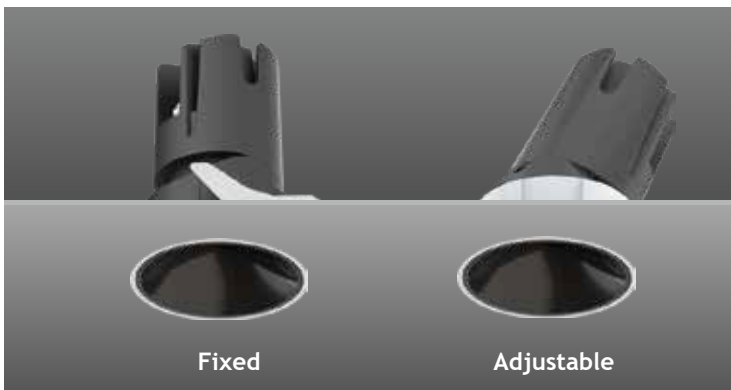
Steel

Cable

0.5 m exiting top of fixture

Gear

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BEAM ANGLE



Thermal Management

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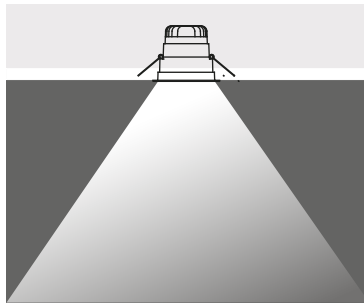
HARPOT MINI

TRIMLESS LED DOWNLIGHT

Class II IP20

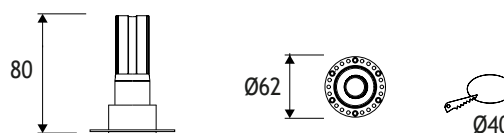


Fixed

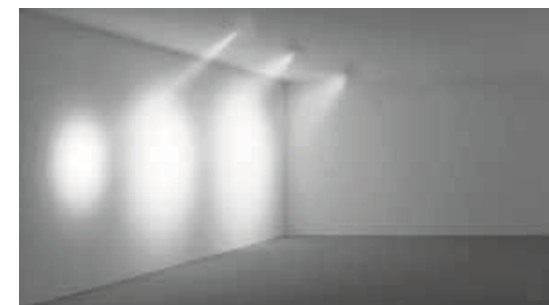
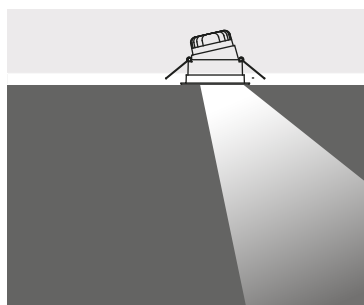


Led : 1W or 3W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

1W POWER LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	95 lm	234001
☼ Natural White	4000 K	104 lm	234002
3W POWER LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	285 lm	234011
☼ Natural White	4000 K	310 lm	234012

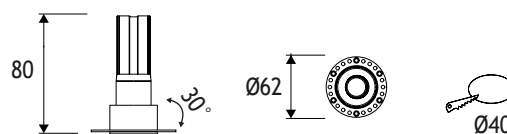


Adjustable



Led : 1W or 3W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

1W POWER LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	95 lm	234101
☼ Natural White	4000 K	104 lm	234102
3W POWER LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	285 lm	234111
☼ Natural White	4000 K	310 lm	234112



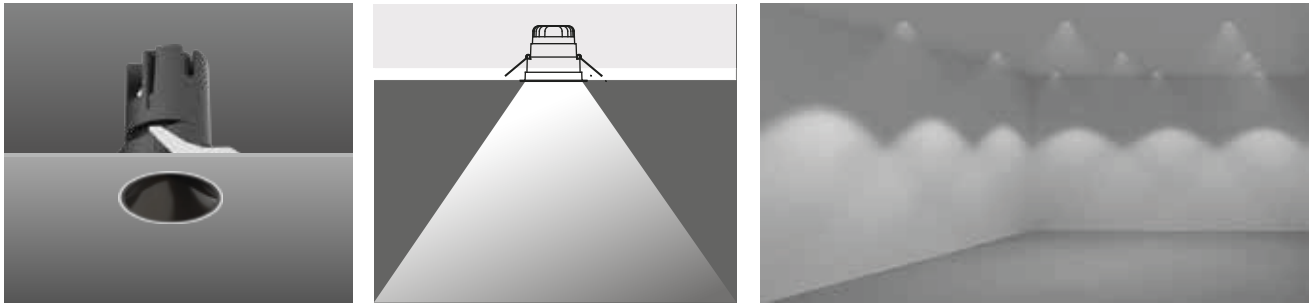
HARPUT 2

TRIMLESS LED DOWNLIGHT

Class II IP65



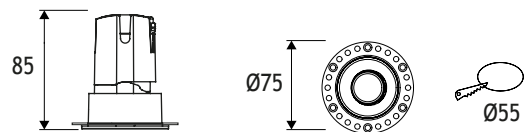
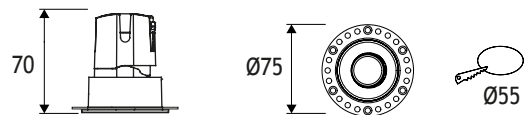
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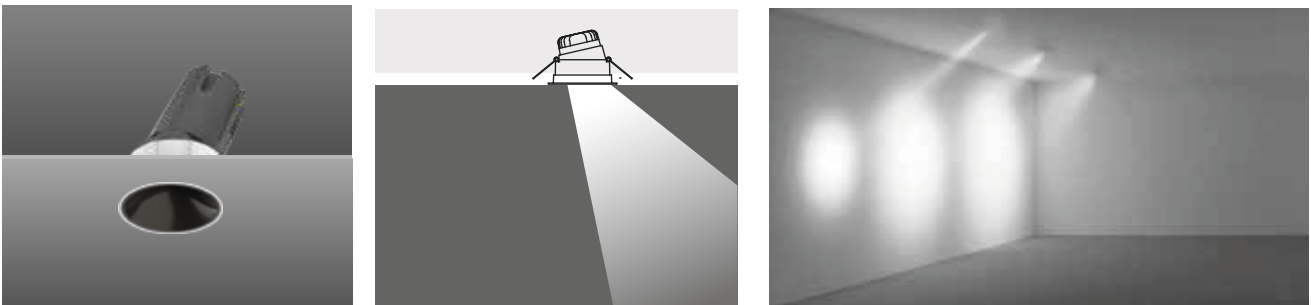
Led : 6W or 12W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

6W COB LED		Total Lighting Output	Code No
☀ Warm White	2700K/3000 K	570 lm	235001
☀ Natural White	4000 K	627 lm	235002

12W COB LED		Total Lighting Output	Code No
☀ Warm White	2700K/3000 K	1140 lm	235011
☀ Natural White	4000 K	1254 lm	235012



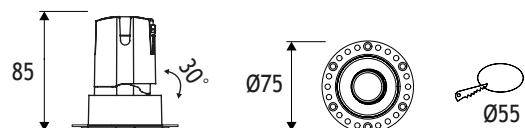
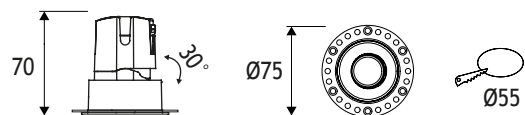
Adjustable



Led : 6W or 12W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

6W COB LED		Total Lighting Output	Code No
☀ Warm White	2700K/3000 K	570 lm	235101
☀ Natural White	4000 K	627 lm	235102

12W COB LED		Total Lighting Output	Code No
☀ Warm White	2700K/3000 K	1140 lm	235111
☀ Natural White	4000 K	1254 lm	235112



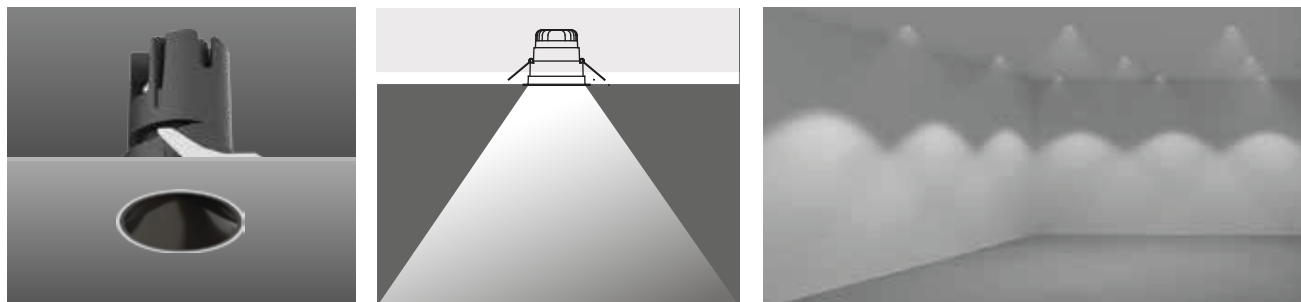
HARPUT 3

TRIMLESS LED DOWNLIGHT

Class II IP65



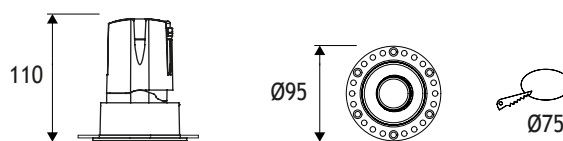
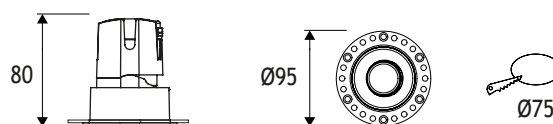
Fixed



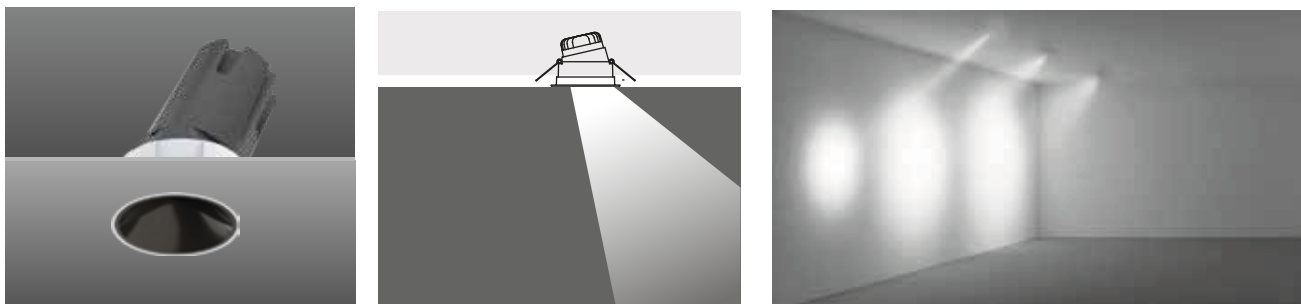
Led : 6W or 12W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

12W COB LED		Total Lighting Output	Code No
☀ Warm White	2700K/3000 K	1140 lm	236001
☀ Natural White	4000 K	1254 lm	236002

20W COB LED		Total Lighting Output	Code No
☀ Warm White	2700K/3000 K	1900 lm	236011
☀ Natural White	4000 K	2090 lm	236012



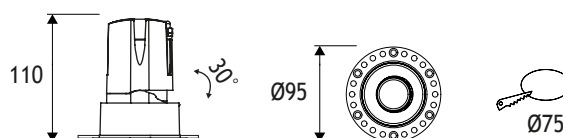
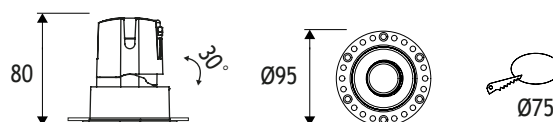
Adjustable



Led : 6W or 12W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

12W COB LED		Total Lighting Output	Code No
☀ Warm White	2700K/3000 K	1140 lm	236101
☀ Natural White	4000 K	1254 lm	236102

20W COB LED		Total Lighting Output	Code No
☀ Warm White	2700K/3000 K	1900 lm	236111
☀ Natural White	4000 K	2090 lm	236112



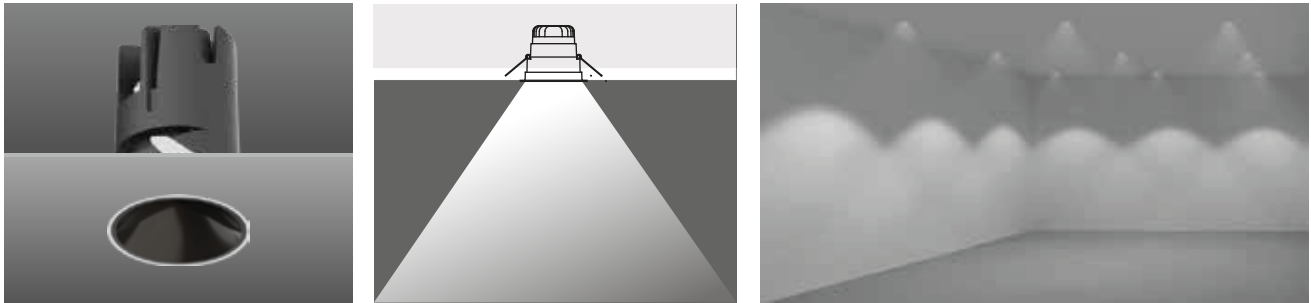
HARPUT 4

TRIMLESS LED DOWNLIGHT

Class II IP65



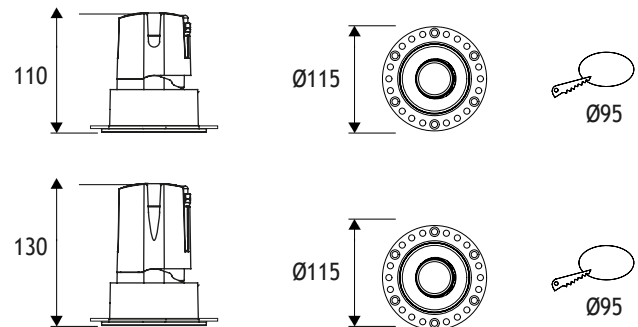
Fixed



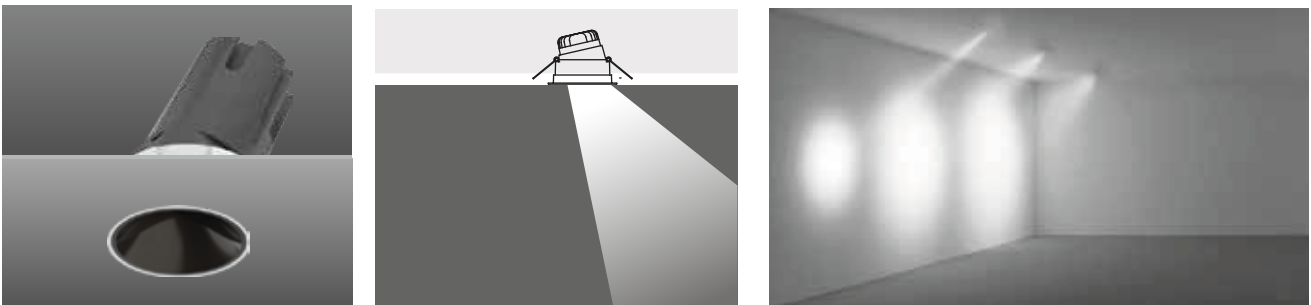
Led : 6W or 12W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

20W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	1900 lm	237001
☼ Natural White	4000 K	2090 lm	237002

30W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	2850 lm	237011
☼ Natural White	4000 K	3130 lm	237012



Adjustable



Led : 6W or 12W COB LED
Reflector : 15°, 24°, 38° or 60°
Gear : 240V
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

20W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	1900 lm	237101
☼ Natural White	4000 K	2090 lm	237102

30W COB LED		Total Lighting Output	Code No
☾ Warm White	2700K/3000 K	2850 lm	237111
☼ Natural White	4000 K	3130 lm	237112

