# Chalice

A comprehensive LED downlight family offering high performance across an extensive range of applications

THORN

# Multiple applications – one solution

Downlighting requirements vary enormously but the new Chalice family responds to all.

### Corridor and Staircases

Corridors and staircases are primarily circulation areas but they also make an architectural statement, underlining the prestige of the building and its occupants. As well as facilitating orientation and providing a safe, reassuring environment, well-designed lighting can make a positive impression on visitors, give structure and accentuate key areas. Where corridors represent service areas and communication zones, the provision of the correct balance of task and ambient lighting is essential.

Ideal for corridor and staircase refurbishments, Chalice offers a wide range of lumen packages for the direct replacement of inefficient, poor quality CFL downlights.

### Office Lighting

Office lighting must create a comfortable, inspiring environment – a place where people feel happy, motivated and equipped to work. Illuminance, uniformity, colour rendering and glare control are essential for enhancing user wellbeing by ensuring proper recognition of objects, tasks and people. Lighting standard EN 12464 requires a unified glare rating of less than 19.

Energy efficiency and a long service life are important for reducing operating costs and requirements, but this should never be at the expense of employee comfort. Chalice Pro offers an optimum blend of high quality lighting with excellent colour rendering, glare control and ultra efficient LEDs.

### Retail

Helping to enhance customer wellbeing and to increase their time in store, retail lighting is proven to be an effective marketing tool with an integral and transformational role.

Regardless of whether you're illuminating a supermarket, jeans store or bike shop, choosing Chalice Pro will provide an engaging customer experience with vivid, high quality general and accent lighting of both white and coloured items. Retail spaces in particular need excellent colour rendering to display vibrant colours and textures.

Chalice Pro also benefits from an optional mirrorbrite reflector for sparkling, high brilliance of products such as cars and jewellery. Chalice Pro's high energy efficiency reaps significant savings, which is especially beneficial for stores with long operating hours.
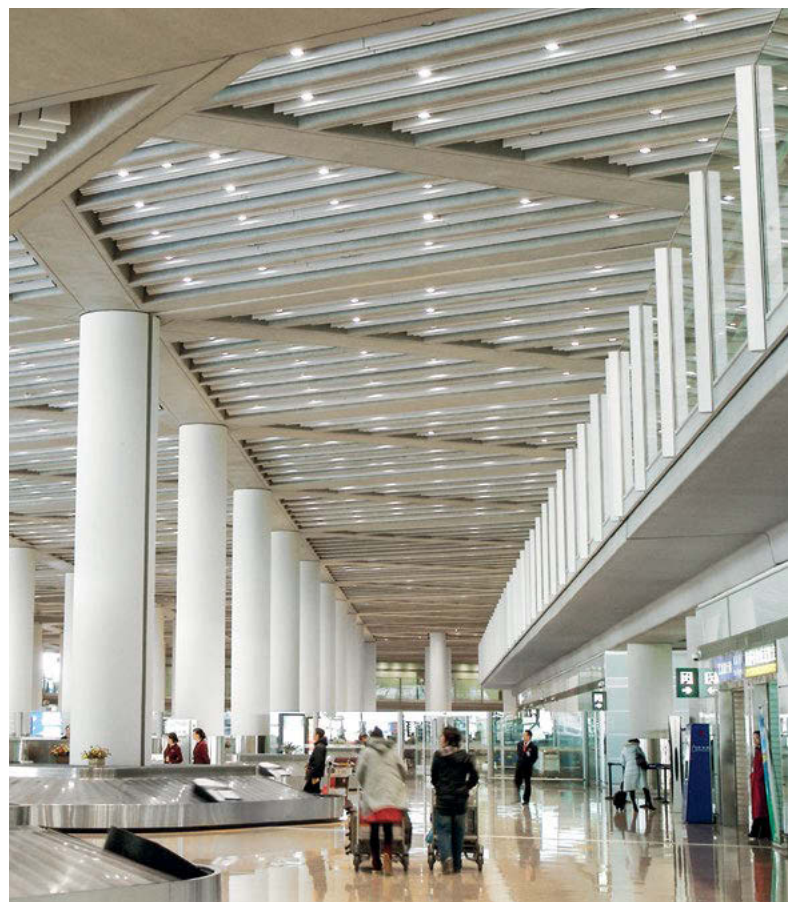
### Transportation

From local train stations to international airport terminals, downlighting for transportation applications must offer guidance, safety as well as a pleasant atmosphere. Lighting in transportation environments can be challenging with high ceilings, large volumes of people, long opening hours and dusty conditions. High lumen packages and good light control with high quality optics are therefore essential for placing light accurately and efficiently. Careful consideration should also be given to safety and ease of use during installation and maintenance.

With packages up to 10 000 lumens and IP65 rating for the surface mount options, Chalice Pro HO is specifically designed with demanding transportation environments in mind.

# Chalice family overview

**One consistent lighting design across all applications**
The Chalice downlight family offers a solution that meets all your lighting needs and objectives. From a simple direct CFL replacement to a high performance luminaire for demanding applications.

## Chalice

– Direct replacement for CFL downlights
– Good quality lighting with CRI>80 and a colour consistency of MacAdam3
– Wide range of lumen packages
– IP54-rated without additional attachments
– Soft and diffused light effect

**Applications**

– Corridors and staircases
– Circulation spaces
– Reception areas
– General lighting

## Chalice Pro

– Exceptional light quality CRI >80 or >90
– Excellent glare control (UGR <19)
– Best lifetime performance (50 000h L90)
– Diffused or sparkling lighting effect

**Applications**

– Offices
– Reception areas
– Retail
– Hotel and wellness

## Chalice Pro HO

– Ideal replacement of traditional HID downlights
– High lumen packages for high ceilings
– Surface mounted or recessed options
– Available with IP65 rating

**Applications**

– Airports
– Train stations
– Shopping centres
– Theatres

### Efficient LEDs

Thorn's advanced Chalice downlights are highly efficient (up to 120 Llm/W). High efficiency also helps maximise service lifetime and in turn, reduce maintenance costs.

### Flexible DALI lighting controls

DALI dimming lighting controls maximise energy and maintenance cost savings while ensuring a pleasant environment for occupants. Easy to install and manage, DALI dimming gives automatic control over individual luminaires, light groups and networks. Users can benefit from versatile, flexible lighting scenes while use in conjunction with daylight sensors can minimise artificial lighting.

### Long LED lifetime

Benefiting from excellent thermal management, Chalice Pro HO has a long LED lifetime of up to 90000 hours (L80B50), Chalice Pro 50000 hours (L90B50) and Chalice 50000 hours (L80B50). The luminaire body is directly connected to the heat sink so it effectively dissipates heat away from the LED without the need for fins. The result is minimal maintenance and associated costs.

### IP54-/IP65-rated

Chalice Pro HO Surface Mounted is IP65-rated for durability in the most demanding environments. Providing durability and protection for use in applications such as kitchens, bathrooms and undercover outdoor areas, the recessed Chalice benefits from an IP54 rating without the need for additional accessories.

# Chalice

An LED downlight with a wide range of lumen packages, offering a direct replacement for CFL solutions.

### Direct replacement for CFL downlights

With a wide range of lumen packages, Chalice provides a direct and convenient one for one replacement for all 18W, 26W or 32W single or twin lamp CFL downlights.

### Good lighting quality with MacAdam 3 Ellipse

With MacAdam 3 Ellipse and a colour rendering index of 80, Chalice offers a good combination of lighting and colour to provide a cost-effective lighting solution offering quality lighting and value for money.

### Diffused lighting effect

Chalice is fitted with a satinbrite reflector for a diffused, circular and homogenous lighting effect that's perfect for general lighting. Chalice's high performance optic and light mixing chamber ensure lighting uniformity, bringing out the colours in people and objects as well as creating a comfortable environment to work, socialise or relax.

## Three lumen packages

With packages of 1400, 2000 and 3000 lumens, Chalice covers a wide range of applications and lighting design requirements, including direct CFL replacements.

## Choice of two sizes

Chalice is available with a cut out diameter of 150mm or 200mm

## Emergency versions

Emergency versions are available, see ordering guide on page 18.

**Chalice quick range comparison**

|  | Lumen | Llm W | Colour Temp |
|---|---|---|---|
| Chalice 150 | 1400 | 115 | 3000K or 4000K |
|  | 2000 | 114 | 3000K or 4000K |
|  | 3000 | 106 | 3000K or 4000K |
| Chalice 200 | 1400 | 109 | 3000K or 4000K |
|  | 2000 | 117 | 3000K or 4000K |
|  | 3000 | 114 | 3000K or 4000K |

**Accessories**



Dropdown frosted ring

# Chalice Pro

A high performance LED downlight with low
glare and exceptional colour quality.

**Vivid, vibrant colours**

Chalice Pro is specifically designed for applications such as
retail, where quality of light is essential. With exceptional
colour quality (CRI 90), Chalice Pro engages customers
with vivid and vibrant colors for best product and display
illumination. Available in two colour temperatures
(3000 and 4000K), it provides high quality general lighting
of both white and coloured items.

**Comfortable low glare lighting**

Chalice Pro is available with a unified glare rating of <19
with no need for additional accessories. Chalice Pro's
comfortable, low glare lighting, fulfils the needs of a wide
range of applications, including office and education.
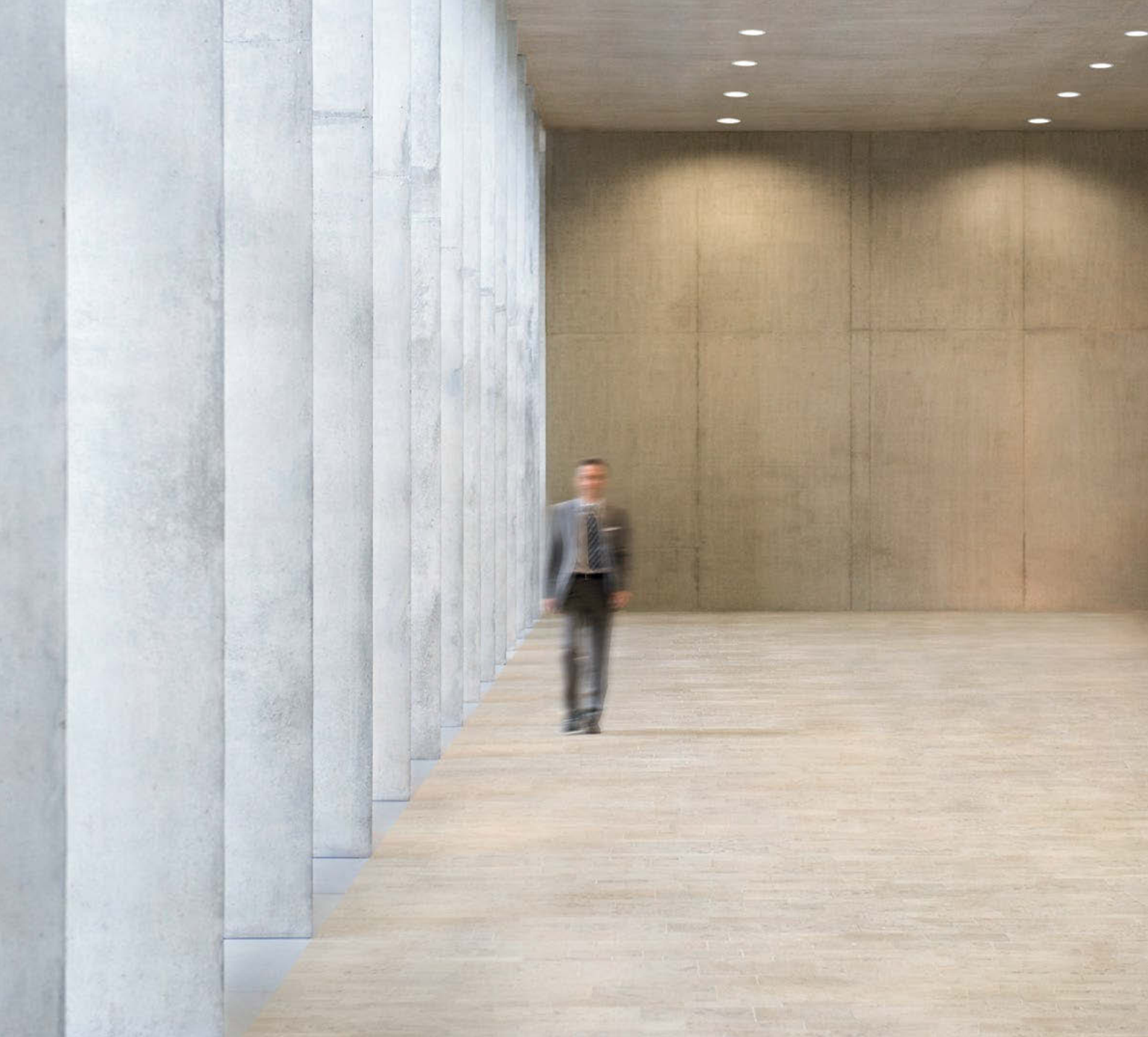
## Three lumen packages

With lumen packages between 900 to 3000 lumens, Chalice Pro fulfils all new and refurbishment applications, ranging from small offices to large meeting rooms and lobbies.

## Choice of two lighting effects

Offering a choice of lighting effects, Chalice Pro is available with a mirrorbrite reflector for sparkling, high brilliance and a satinbrite reflector for a diffused, circular and homogeneous lighting effect.

The bezel is additionally available in traffic white, pure white or grey.

## Emergency versions

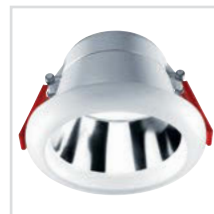Emergency versions are available, see ordering guide on page 19.

### Chalice Pro quick range comparison

|  | Lumen | Llm/W | Colour Temp |
|---|---|---|---|
| Chalice Pro CRI 80 | 1100 | 122 | 3000K or 4000K |
|  | 2000 | 122 | 3000K or 4000K |
|  | 3000 | 118 | 3000K or 4000K |
| Chalice Pro CRI 90 | 900 | 99 | 3000K or 4000K |
|  | 1600 | 99 | 3000K or 4000K |
|  | 2400 | 96 | 3000K or 4000K |

### Accessories



Frosted ring



Halo ring



Wallwasher

# Chalice Pro HO

A powerful LED downlight with very high lumen packages.

### Chalice Pro HO Recessed

A powerful IP54-rated recessed downlight with an output of 5000 lumens. Chalice Pro HO does not require any accessories to achieve its IP54 rating, and is perfect for replacing traditional 75W HID downlights.

### Suitable for extreme temperatures

Chalice Pro HO is designed for temperatures ranging from -20°C to +35°C. This ensures reliability and performance across all applications and challenging conditions.

### Chalice Pro HO Surface Mounted

A stylish and powerful IP65-rated surface mounted downlight. With three lumen packages from 5000 to 10000 lumens, Chalice Pro HO Surface Mounted is designed for applications requiring a high output. It offers durability in the most demanding environments and is a great replacement for HID downlights up to 150W.

## Choice of four different optics

Chalice Pro HO comes with four different beam characteristics. Depending on the height of the ceiling it is possible to meet the requirements of lighting, achieving a low power density for the building, while fulfilling the regulation of illumination.
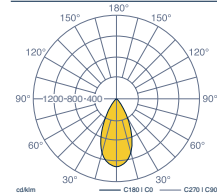
## Emergency versions

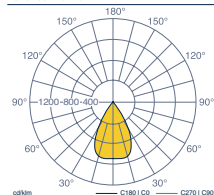Emergency versions are available, see ordering guide on page 19.
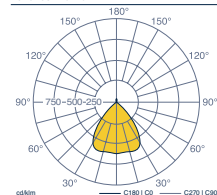


Chalice Pro HO NB
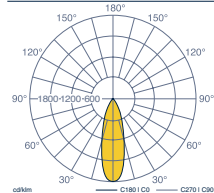


Chalice Pro HO MB



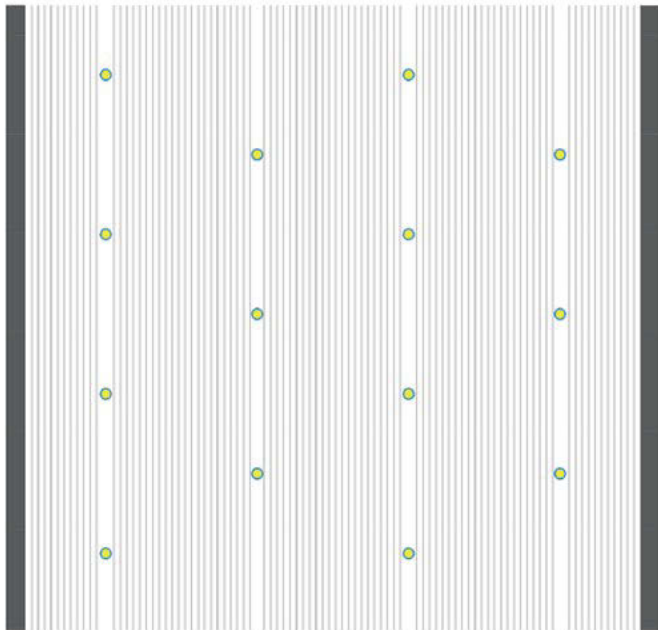Chalice Pro HO WD



Chalice Pro HO VW

# Refurbishment

## Example: Airport Circulation Area.

Circulation areas in airports have a large number of people flowing through them day and night. Wellbeing and uniform lighting play an important role for these areas which connect spaces and people. Having good lighting available to easily identify the information provided is essential for a better orientation and gives a positive impression to visitors and users of the space. Specifically designed for transit areas applications, Chalice Pro HO provides uniform lighting effects for high ceiling spaces.

Ideal for refurbishment projects, it is available in a surface mounted version which can be easily integrated into the architecture without the need to change the structure of the ceiling when replacing the old lighting fittings. For higher energy savings, dimming the light depending on the daylight penetration is also an essential feature for circulation areas which are constantly lit.



**Luminaires New**

14 Pieces
Chalice Pro HO LED
CRI>80 4906lm >106Llm/W

**Luminaires Before**

14 Pieces 1x70W HID
Surface Mounted
4825lm 61lm/W

**Lighting Management**
Daylight dependent lighting control

**Calculation Period**
15 Years
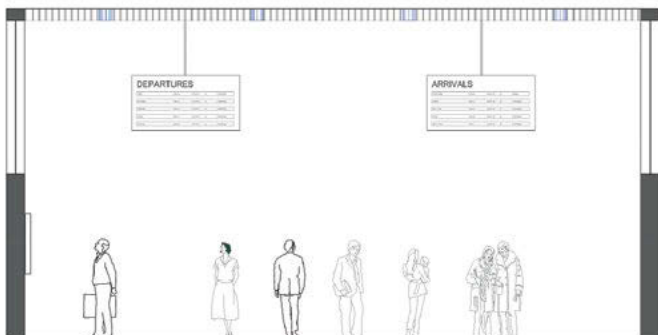
## Reduce energy consumption by more than 40%

|  | Chalice 150/200 | | Chalice Pro | Chalice Pro HO recessed | Chalice Pro HO surface |
|---|---|---|---|---|---|
| Lumen packages | 1400 | 1400 | 1100 | | 5000 |
|  | 2000 | 2000 | 2000 | 5000 | 7500 |
|  | 3000 | 3000 | 3000 | | 10000 |
| Wattages | 12W | 13W | 9W | | 45W |
|  | 18W | 18W | 17W | 45W | 86W |
|  | 27W | 27W | 25W | | 91W |
| Efficacy Llm/W | 115 | 109 | 122 | | |
|  | 114 | 117 | 122 | 110 | 110 |
|  | 105 | 114 | 118 | | |
| Est. energy savings vs conventional | 65% | 70% | 70% | 40% | 40% |
| Typical conventional replacement | 1 x 18W - 2 x 32W CFL | 1 x 18W - 2 x 32W CFL | 1 x 18W - 2 x 32W CFL | 70W HID | 70W-150W HID |

# Energy saving opportunities

Ideal for refurbishment projects, Chalice Pro HO
reduces energy consumption by more than 40%,
in comparison to non-LED alternatives.

Lighting for circulation areas is energy intensive with long operating hours increasing the need for energy efficient solutions.

With efficient LEDs and a payback time of two years, switching to Chalice Pro HO offers attractive financial savings.

Energy Efficiency – Course of overall costs of solution over lifetime:



1x70W HID

Chalice Pro HO

Chalice Pro HO with controls
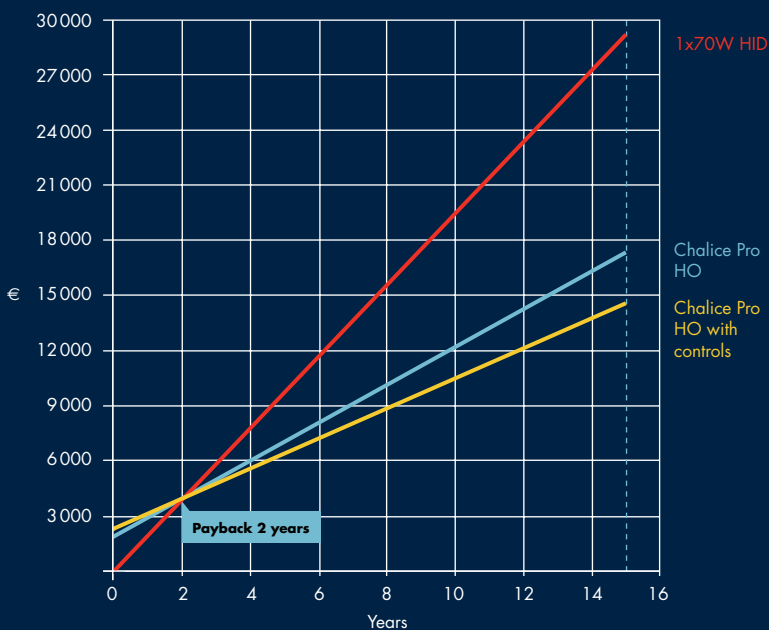
Payback 2 years

€

Years

**Scheme details:**
Airport Circulation Area: 132,25m²
Energy costs: 0.12 €/kWh
Changing lamps every 2 years for the traditional/non-LED solution
LED: Cleaning the luminaires every 2 years
Operating hours: 8760 h/a
All calculations are based on an annual increase of energy and operating costs of 5%.

**Investment costs vs. running costs of solution (absolute)**

1X70W HID

Chalice Pro HO

7%    53%    40%

Chalice Pro HO with controls

8%    42%    50%

☐ total investment cost
☐ total running cost over lifetime
☐ saving
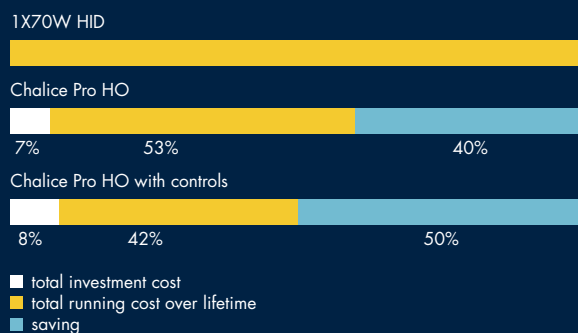
**Total $CO_2$ emissions over a lifetime**

kg

0    5000    10000    15000    20000    25000    30000    35000

1X70W HID

Chalice Pro HO

Chalice Pro HO with controls

**General lighting requirements for interior areas, tasks and activities (EN 12464-1)**

| Type of Area, task or activity | $E_m$ lx | $UGR_L$ — | $U_o$ — | $R_a$ — |
|---|---|---|---|---|
| Circulation areas and corridors | 100 | 28 | 0.40 | 40 |
| Stairs, escalators, travelators | 100 | 25 | 0.40 | 40 |
| Elevators and lifts | 100 | 25 | 0.40 | 40 |
| Loading ramps/bays | 150 | 25 | 0.40 | 40 |

Em - Illuminance              Uo - Uniformity
UGRL - Glare limit            Ra - Colour Rendering

ecoCALC    The comparative calculation made using ecoCALC **thornlighting.com/ecocalc**

# Range comparison table

Quick Chalice range overview.

| | Chalice 150 | Chalice 200 | Chalice Pro | Chalice Pro HO recessed | Chalice Pro HO surface mounted |
|---|---|---|---|---|---|
| Lumen packages | 1400 | 1400 | 1100 | | 5000 |
| | 2000 | 2000 | 2000 | 5000 | 7500 |
| | 3000 | 3000 | 3000 | | 10000 |
| Wattage | 12W | 13W | 9W | 45W | 45W |
| | 18W | 18W | 17W | | 68W |
| | 27W | 27W | 25W | | 91W |
| Cut out diameter | 150mm | 200mm | 150mm | 200mm | - |
| Overall height | 94mm | 94mm | 94mm | 135mm | - |
| Efficacy | >106 Llm/W | >110 Llm/W | >120 Llm/W | >110 Llm/W | >110 Llm/W |
| Light distribution | Wide | Wide | Wide | Wide | Wide |
| SDCM | MacAdam 3 | MacAdam 3 | MacAdam 3 | MacAdam 3 | MacAdam 3 |
| Colour temperature | 3000K, 4000K | 3000K, 4000K | 3000K, 4000K | 3000K, 4000K | 3000K, 4000K |
| Colour rendering index | 80 | 80 | 80, 90 | 80, 90 | 80, 90 |
| UGR | <22 | <22 | <19 | <22 | <22 |
| Lifetime at 25°C | 50000 hours (L80B50) | 50000 hours (L80B50) | 50000 hours (L90B50) | 90000 hours (L80B50) | 90000 hours (L80B50) |
| IP rating | IP54 | IP54 | IP54 | IP54 | IP65 |
| Reflector finish | Satin | Satin | Mirror, satin | Mirror | Mirror |
| Accessories | Frosted ring | Frosted ring | Frosted ring | - | Rod suspension |
| | | | Halo ring | | |
| | | | Wallwash | | |
| Loop in/out installation | Yes | Yes | Yes | Yes | No |
| Bezel | Traffic white RAL 9016 | Traffic white RAL 9016 | Traffic white RAL 9016 | Traffic white RAL 9016 | Traffic white RAL 9016 |
| | | | Pure white RAL 9010 | | |
| | | | Grey RAL 7036 | | |
| DALI dimming option | Yes | Yes | Yes | Yes | Yes |
| Emergency versions | Yes | Yes | Yes | Yes, on request | Yes, on request |
| Ambient temperature Ta | 0°C -25°C | 0°C -25°C | 0°C -25°C | -20°C- 35°C | -20°C- 35°C |
| Installation | Spring clip | Spring clip | Spring clip | Spring clip | Surface mounted bracket with bayonet locking or rod suspension |
| Glowwire | 850°C | 850°C | 850°C | 850°C | 850°C |

**NEW!**

**Configure a lighting solution with myProduct**
The new myProduct configurator allows you to quickly and easily configure a lighting solution.
Try it now at www.thornlighting.com/myproduct

# Installation

Chalice is quick, easy and comfortable
to install in all ceiling types.

**Suitable for low ceiling voids**

Chalice and Chalice Pro have an overall height
of just 94mm for mounting in low false ceiling
voids with a tile thickness of 1-40mm. Chalice's
compact dimensions leave plenty of space in
ceilings for other services.

**Spring clip mounting**

With Thorn's spring clip mounting Chalice
is easy and comfortable to install. It also
distributes pressure evenly to avoid breaking
soft acoustic tiles.

**Loop in/out wiring**

Chalice is available with loop in/out wiring to
increase the speed of installation while reducing
the amount of cable required.

**Chalice Pro HO**

Recessed with spring clips for ceiling tiles
with 1-25mm thickness. Surface mounted with
installation plate screwed to the open ceiling or
with rod suspension.

**Conduit protection**

Chalice Pro HO Recessed offers conduit
protection for regulatory compliance.



2 x Ø21mm holes suitable for
compatiblity with conduit adaptor.

Conduit protection between
housing and gear box.

# Product specification

Product overview.

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## Chalice

### Standards

IK03  850°C  T$_a$25  EHC  [CE symbols]

### Materials/Finish

Housing/body material: Aluminium painted white
Bezel finish: RAL9016
Reflector finish: Satin

### Specification

To specify state:
A recessed LED downlight incorporating a thermally optimised, deep drawn aluminium body with IP54 rating as standard. Fixed or dimmable output or with emergency function. Correlated colour temperature is 3000K/4000K with CRI >80 and UGR <22. Overall height <100mm and cut out of 150mm or 200mm. Lifetime is 50 000 hours (L80) at Ta 25°C.
As Thorn Chalice.

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## Chalice Pro

### Standards

IK03  850°C  T$_a$25  EHC  [CE symbols]

### Materials/Finish

Housing/body material: Aluminium painted white
Bezel finish: RAL9016
Reflector finish: Specular or Satin

### Specification

To specify state:
Chalice Pro downlight incorporating thermally optimised, aluminium body with IP54 rating as standard. A recessed LED downlight with specular or satin reflector held in place via bayonet lock, rapid tool-free mounting, Ø150mm cut out. Suitable for ceiling thicknesses 1-40mm. Integral 1100/2000/3000 lm with passive cooling, choice of two light colours: 3000K and 4000K, loop in/out wiring.
As Thorn Chalice Pro.

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## Chalice Pro HO

### Standards

IP65  850°C  T$_a$-20 +35  [CE symbols]

### Materials/Finish

Body: Aluminium
Reflector: High grade anodised aluminium
Clips: Quick-fix stainless steel
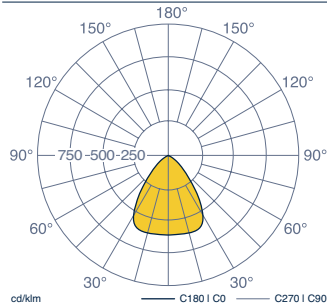Bezel: Aluminium

### Specification

To specify state:
Recessed, surface mounted or rod suspended LED downlight optimised for efficient, energy saving high-output general lighting in retail and transportation applications. Passive cooling thanks to innovative thermal design with recessed or integrated driver. Dimming and controls option available. Colour rendering Ra > 80. Colour temperature 3000K and 4000K. 4 different beam shapes, rotationally symmetrical. Chromaticity tolerance (initial MacAdam): 3. Exceptional long lifetime performance Ta25°C up to 90 000h for luminous flux at L80 of initial value. Mains voltage: 220-240V/ 50/60Hz. Highly efficient aluminium reflector. As Thorn Chalice Pro HO.

**Chalice 150**

cd/klm — C180 I C0 — C270 I C90

**Chalice 200**

cd/klm — C180 I C0 — C270 I C90

94 Ø172

Ⓜ Ø150
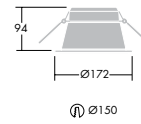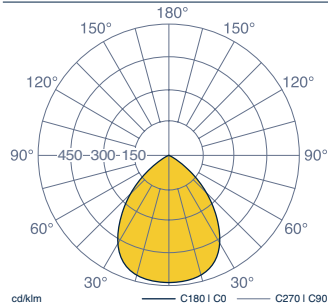
Chalice 150 version

94 Ø220

Ⓜ Ø200
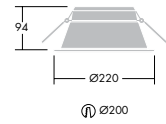
Chalice 200 version

**Chalice Pro**

cd/klm — C180 I C0 — C270 I C90

94 Ø172

Ⓜ Ø150

Chalice Pro

**Chalice Pro HO MB**

cd/klm — C180 I C0 — C270 I C90

Ø197
135
Ø225
5
Ⓜ Ø200
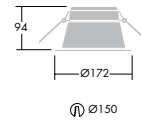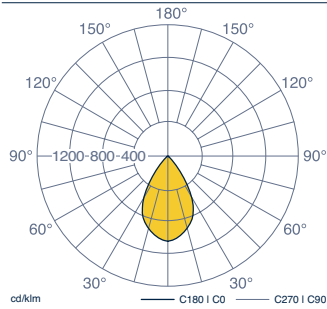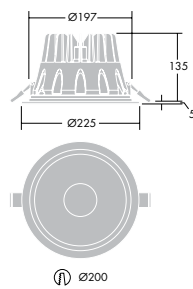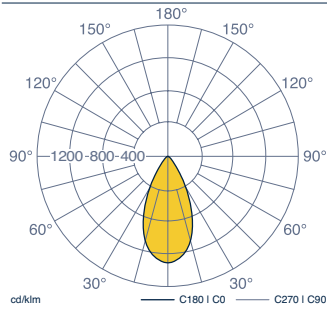
Chalice Pro HO Recessed 5000lm

Ø190
10
180
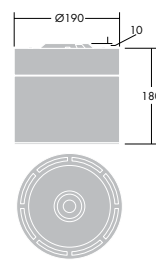
Chalice Pro HO Surface 5000lm

Ø220
10
200
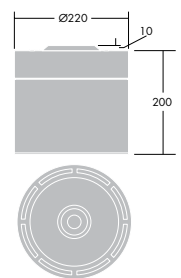
Chalice Pro HO Surface 7500lm, 10000lm

# Configuration

Ordering guides and tables.

## Chalice - Configuration guide

| CHAL 200 | LED1400-830 | HF | E3 | RSB | WL6 | | |
|----------|-------------|----|----|----|----|---|---|
| | | | | | | *Optional* | |
| | | | | | **WL3** | Cable with 3 pole Wieland plug |
| | | | | | **WL4** | Cable with 4 pole Wieland plug |
| | | | | | **WL5** | Cable with 5 pole Wieland plug |
| | | | | | **WL6** | Cable with 6 pole Wieland plug |
| | | | | | **WO5** | Cable with 5 pole Wago plug |
| | | | | | **SR2** | 2 core cable with Schuko plug |
| | | | | **RSB** | Satinbrite reflector | |
| | | | *Optional* | | | |
| | | | **E3** | 3 hour, manual test emergency lighting | | |
| | | | **E3TX** | 3 hour, Self/Addressable test emergency lighting | | |
| | | | **EC** | Central battery emergency lighting | | |
| | | **HF** | Fixed output driver | | | |
| | | **HFIX** | DALI dimmable driver | | | |
| | **LED1400-830** | Nominal 1400 lumen LED, CRI 80 3000K | | | | |
| | **LED1400-840** | Nominal 1400 lumen LED, CRI 80 4000K | | | | |
| | **LED2000-830** | Nominal 2000 lumen LED, CRI 80 3000K | | | | |
| | **LED2000-840** | Nominal 2000 lumen LED, CRI 80 4000K | | | | |
| | **LED3000-830** | Nominal 3000 lumen LED, CRI 80 3000K | | | | |
| | **LED3000-840** | Nominal 3000 lumen LED, CRI 80 4000K | | | | |
| **CHAL 200** | Cut out diameter 200mm | | | | | |
| **CHAL 150** | Cut out diameter 150mm | | | | | |

## Ordering guide

| Description | Wt (kg) | SAP Code |
|-------------|---------|----------|
| Chalice 200 | | |
| CHAL 200 LED1400-830 HF RSB | 0.76 | 96629019 |
| CHAL 200 LED1400-840 HF RSB | 0.76 | 96629020 |
| CHAL 200 LED2000-830 HF RSB | 0.76 | 96642304 |
| CHAL 200 LED2000-840 HF RSB | 0.76 | 96642305 |
| CHAL 200 LED3000-830 HF RSB | 0.89 | 96629021 |
| CHAL 200 LED3000-840 HF RSB | 0.89 | 96629022 |
| Chalice150 | | |
| CHAL 150 LED1400-830 HF RSB | 0.46 | 96629023 |
| CHAL 150 LED1400-840 HF RSB | 0.46 | 96629024 |
| CHAL 150 LED2000-830 HF RSB | 0.46 | 96629025 |
| CHAL 150 LED2000-840 HF RSB | 0.46 | 96629026 |
| CHAL 150 LED3000-830 HF RSB | 0.59 | 96629027 |
| CHAL 150 LED3000-840 HF RSB | 0.59 | 96629028 |
| Attachments | | |
| CHAL 200 FROSTED RING | 0.1 | 96627649 |
| CHAL 150 FROSTED RING | 0.05 | 96627651 |

HF - On/off
RSB - Satinbrite reflector

## Chalice Pro - Configuration guide

| CHAL PRO | LED1100-830 | HF | E3 | RMB | GY | WL6 |
|----------|-------------|-----|-----|-----|-----|-----|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | *Optional* | |
| | | | | | | **WL3** | Cable with 3 pole Wieland plug |
| | | | | | | **WL4** | Cable with 4 pole Wieland plug |
| | | | | | | **WL5** | Cable with 5 pole Wieland plug |
| | | | | | | **WL6** | Cable with 6 pole Wieland plug |
| | | | | | | **WO5** | Cable with 5 pole Wago plug |
| | | | | | | **SR2** | 3 core cable with Schuko plug |
| | | | | | **GY** | Grey bezel | |
| | | | | | **W0** | Pure white bezel (RAL 9010) | |
| | | | | | **W6** | White bezel (RAL 9016) | |
| | | | | **RMB** | Mirrorbrite reflector | | |
| | | | | **RSB** | Satinbrite reflector | | |
| | | | *Optional* | | | | |
| | | | **E3** | 3 hour, manual test emergency lighting | | | |
| | | | **E3TX** | 3 hour, Self/Addressable test emergency lighting | | | |
| | | | **EC** | Central battery emergency lighting | | | |
| | | **HF** | Fixed output driver | | | | |
| | | **HFIX** | DALI dimmable driver | | | | |
| | **LED900-930** | Nominal 900 lumen LED, CRI 90 3000K | | | | | |
| | **LED900-940** | Nominal 900 lumen LED, CRI 90 4000K | | | | | |
| | **LED1100-830** | Nominal 1100 lumen LED, CRI 80 3000K | | | | | |
| | **LED1100-840** | Nominal 1100 lumen LED, CRI 80 4000K | | | | | |
| | **LED1600-930** | Nominal 1600 lumen LED, CRI 90 3000K | | | | | |
| | **LED1600-940** | Nominal 1600 lumen LED, CRI 90 4000K | | | | | |
| | **LED2000-830** | Nominal 2000 lumen LED, CRI 80 3000K | | | | | |
| | **LED2000-840** | Nominal 2000 lumen LED, CRI 80 4000K | | | | | |
| | **LED2400-930** | Nominal 2400 lumen LED, CRI 90 3000K | | | | | |
| | **LED2400-940** | Nominal 2400 lumen LED, CRI 90 4000K | | | | | |
| | **LED3000-830** | Nominal 3000 lumen LED, CRI 80 3000K | | | | | |
| | **LED3000-840** | Nominal 3000 lumen LED, CRI 80 4000K | | | | | |
| **CHAL PRO** | Chalice Pro, Cut out diameter 150mm | | | | | | |

## Ordering guide

| Description | Wt (kg) | SAP Code |
|-------------|---------|----------|
| **Chalice Pro CRI 90, mirrorbrite reflector, dimmable** | | |
| CHAL PRO LED900-930 HFIX RMB W6 | 0.71 | 96642629 |
| CHAL PRO LED900-940 HFIX RMB W6 | 0.71 | 96642630 |
| CHAL PRO LED1600-930 HFIX RMB W6 | 0.71 | 96642631 |
| CHAL PRO LED1600-940 HFIX RMB W6 | 0.71 | 96642632 |
| CHAL PRO LED2400-930 HFIX RMB W6 | 0.77 | 96642625 |
| CHAL PRO LED2400-940 HFIX RMB W6 | 0.77 | 96642626 |
| **Chalice Pro CRI 90, satinbrite reflector, dimmable** | | |
| CHAL PRO LED900-930 HFIX RSB W6 | 0.71 | 96642633 |
| CHAL PRO LED900-940 HFIX RSB W6 | 0.71 | 96642634 |
| CHAL PRO LED1600-930 HFIX RSB W6 | 0.71 | 96642635 |
| CHAL PRO LED1600-940 HFIX RSB W6 | 0.71 | 96642636 |
| CHAL PRO LED2400-930 HFIX RSB W6 | 0.77 | 96642627 |
| CHAL PRO LED2400-940 HFIX RSB W6 | 0.77 | 96642628 |
| **Chalice Pro CRI 80, mirrorbrite reflector, dimmable** | | |
| CHAL PRO LED1100-830 HFIX RMB W6 | 0.71 | 96642356 |
| CHAL PRO LED1100-840 HFIX RMB W6 | 0.71 | 96642357 |
| CHAL PRO LED2000-830 HFIX RMB W6 | 0.71 | 96642358 |
| CHAL PRO LED2000-840 HFIX RMB W6 | 0.71 | 96642359 |
| CHAL PRO LED3000-830 HFIX RMB W6 | 0.77 | 96642360 |
| CHAL PRO LED3000-840 HFIX RMB W6 | 0.77 | 96642361 |
| **Chalice Pro CRI 80, satinbrite reflector, dimmable** | | |
| CHAL PRO LED1100-830 HFIX RSB W6 | 0.71 | 96642332 |
| CHAL PRO LED1100-840 HFIX RSB W6 | 0.71 | 96642333 |
| CHAL PRO LED2000-830 HFIX RSB W6 | 0.71 | 96642334 |
| CHAL PRO LED2000-840 HFIX RSB W6 | 0.71 | 96642335 |
| CHAL PRO LED3000-830 HFIX RSB W6 | 0.77 | 96642336 |
| CHAL PRO LED3000-840 HFIX RSB W6 | 0.77 | 96642337 |
| **Chalice Pro attachments** | | |
| CHAL PRO HALO RING | 0.17 | 96627650 |
| CHAL 150 FROSTED RING | 0.05 | 96627651 |
| CHAL PRO WALLWASHER RSB W6 | 0.17 | 96627652 |
| CHAL PRO WALLWASHER RMB W6 | 0.17 | 96628054 |

HFIX - Digital dimming
RMB - Mirrorbrite reflector
RSB - Satinbrite reflector
W6 - Color RAL9016

## Chalice Pro HO - Configuration guide

| CHAL PRO | LED5000-830 | HF | E3 | MB | W6 | WL6 |
|----------|-------------|-----|-----|-----|-----|-----|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | **MRE** | Recessed (5000 lumen only) |
| | | | | | | **MSF** | Surface |
| | | | | | **W6** | White bezel (RAL 9016) | |
| | | | | **NW** | narrow beam, on request | | |
| | | | | **MB** | medium beam | | |
| | | | | **WD** | wide beam, on request | | |
| | | | | **VW** | very wide beam, on request | | |
| | | | *Optional* | | | | |
| | | | **E3** | 3 hour, manual test emergency lighting, available for MRE version | | | |
| | | | **EC** | Central battery emergency lighting, available with HFI driver | | | |
| | | **HF** | Fixed output driver | | | | |
| | | **HFI** | DALI dimmable driver | | | | |
| | **LED5000-830** | Nominal 5000 lumen LED, CRI 80 3000K | | | | | |
| | **LED5000-840** | Nominal 5000 lumen LED, CRI 80 4000K | | | | | |
| | **LED7500-830** | Nominal 7500 lumen LED, CRI 80 3000K | | | | | |
| | **LED7500-840** | Nominal 7500 lumen LED, CRI 80 4000K | | | | | |
| | **LED10000-830** | Nominal 10000 lumen LED, CRI 80 3000K | | | | | |
| | **LED10000-840** | Nominal 10000 lumen LED, CRI 80 4000K | | | | | |
| **CHAL PRO** | Chalice Pro HO | | | | | | |

## Ordering guide

| Description | Wt (kg) | SAP Code |
|-------------|---------|----------|
| **Recessed, 5000lm** | | |
| CHAL PRO LED5000-830 HF MB W6 MRE | 2.0 | 96666155 |
| CHAL PRO LED5000-840 HF MB W6 MRE | 2.0 | 96666156 |
| CHAL PRO LED5000-830 HFI MB W6 MRE | 2.0 | 96666157 |
| CHAL PRO LED5000-840 HFI MB W6 MRE | 2.0 | 96666158 |
| **Surface mounted, 5000lm** | | |
| CHAL PRO LED5000-830 HF MB W6 MSF | 3.0 | 96666159 |
| CHAL PRO LED5000-840 HF MB W6 MSF | 3.0 | 96666160 |
| CHAL PRO LED5000-830 HFI MB W6 MSF | 3.0 | 96666161 |
| CHAL PRO LED5000-840 HFI MB W6 MSF | 3.0 | 96666162 |
| **Surface mounted, 7500lm** | | |
| CHAL PRO LED7500-830 HF MB W6 MSF | 4.0 | 96666163 |
| CHAL PRO LED7500-840 HF MB W6 MSF | 4.0 | 96666164 |
| CHAL PRO LED7500-830 HFI MB W6 MSF | 4.0 | 96666165 |
| CHAL PRO LED7500-840 HFI MB W6 MSF | 4.0 | 96666166 |
| **Surface mounted, 10000lm** | | |
| CHAL PRO LED10000-830 HF MB W6 MSF | 4.0 | 96666167 |
| CHAL PRO LED10000-840 HF MB W6 MSF | 4.0 | 96666168 |
| CHAL PRO LED10000-830 HFI MB W6 MSF | 4.0 | 96666169 |
| CHAL PRO LED10000-840 HFI MB W6 MSF | 4.0 | 96666170 |

HF - On/off
HFI - Dali dimmable
MB - Midbeam
W6 - Colour RAL9016
MRE - Mounted recessed
MSF - Mounted surface

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www.thornlighting.com/warranty

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