



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 10000 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 90 000 hours (L80B50), Chalice Pro 50 000 hours (L90B50) and Chalice 50 000 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 <math><19</math> 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 mirrobrite 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.

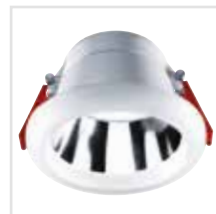
Chalice Pro quick range comparison

	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 $+45^{\circ}\text{C}$. 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.



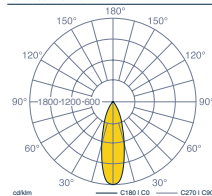
Choice of four different optics

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.

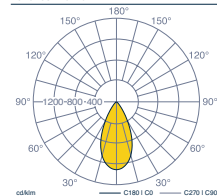
Emergency versions

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

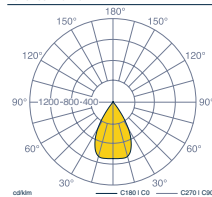
Chalice Pro HO NB



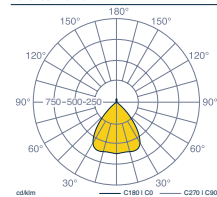
Chalice Pro HO MB



Chalice Pro HO WD



Chalice Pro HO VW

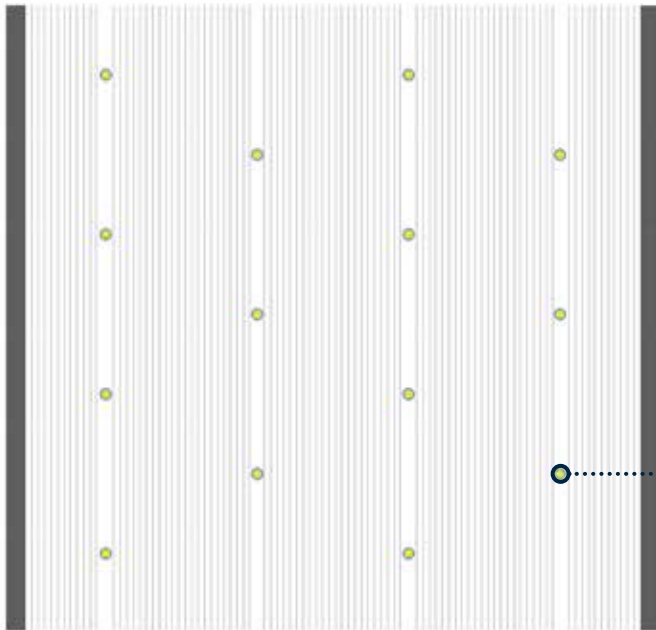


Refurbishment

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

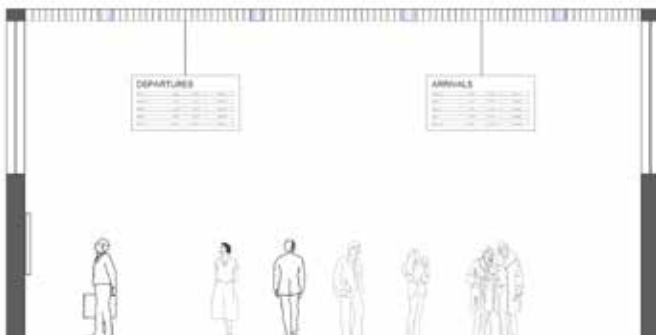
14 Pieces 1x70W HID
Surface Mounted
4825lm 61lm/W

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
	3000	3000	3000	10000
Wattages	12W	13W	9W	45W
	18W	18W	17W	86W
	27W	27W	25W	91W
Efficacy llm/W	115	109	122	110
	114	117	122	110
	105	114	118	110
Est. energy savings vs conventional	65%	70%	70%	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

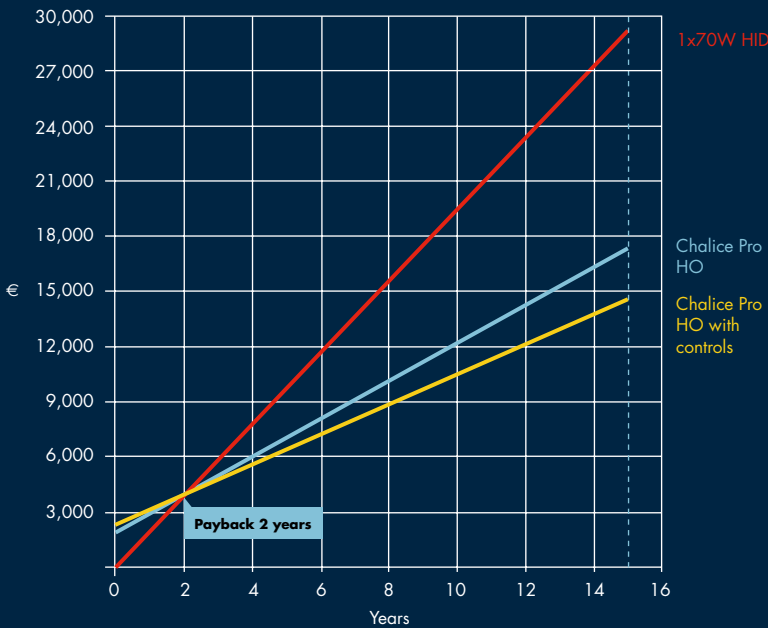
Energy saving opportunities

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.

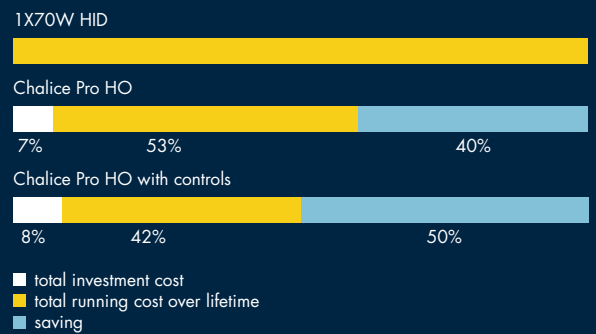
Energy Efficiency – Course of overall costs of solution over lifetime:



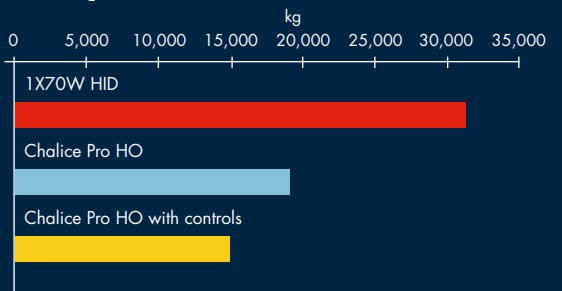
Scheme details:

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)



Total CO₂ emissions over a lifetime



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

Type of Area, task or activity	E _m lx	UGR _t -	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

E_m - Illuminance
 UGR_t - Glare limit
 U_o - Uniformity
 R_a - Colour Rendering

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 lm/W	>110 lm/W	>120 lm/W	>110 lm/W	>110 lm/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	50 000 hours (L80B50)	50 000 hours (L80B50)	50 000 hours (L90B50)	90 000 hours (L80B50)	90 000 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 - 45°C	-20°C - 45°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

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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.



Product specification

Product overview.

Chalice

Standards



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 50000 hours (L80) at Ta 25°C. As Thorn Chalice.



Chalice Pro

Standards



Materials/Finish

Housing/body material: Aluminium painted white

Bezel finish: RAL9016

Reflector finish: Specular or Satin

Specification

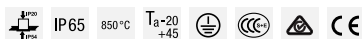
To specify state:

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.



Chalice Pro HO

Standards



Materials/Finish

Body: Aluminium

Reflector: High grade anodised aluminium

Clips: Quick-fix stainless steel

Bezel: Aluminium

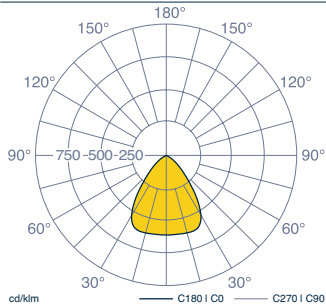
Specification

To specify state:

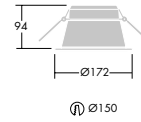
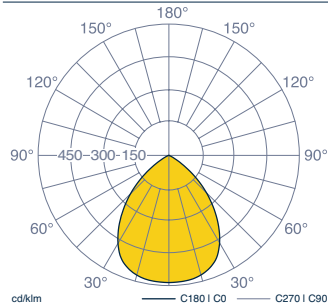
Recessed, surface mounted or rod suspended LED downlight optimised for efficient, energy saving high-output general lighting in retail and transportation applications. Passive cooling thanks to innovative thermal design with recessed or integrated driver. Dimming and controls option available. Colour 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 90000h for luminous flux at L80 of initial value. Mains voltage: 220-240V/ 50/60Hz. Highly efficient aluminium reflector. As Thorn Chalice Pro HO.



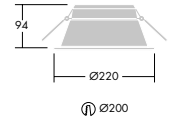
Chalice 150



Chalice 200

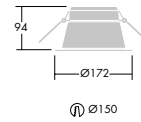
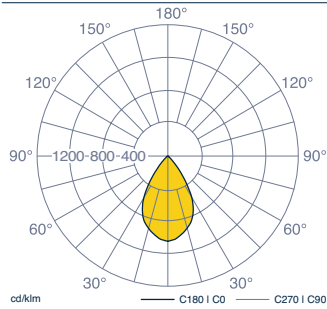


Chalice 150 version



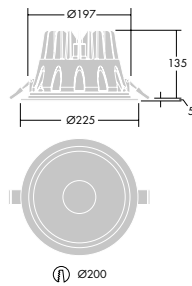
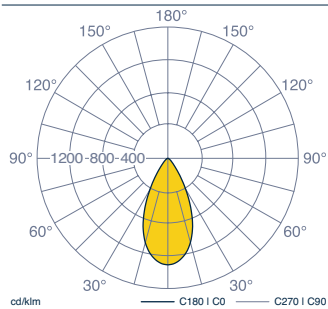
Chalice 200 version

Chalice Pro

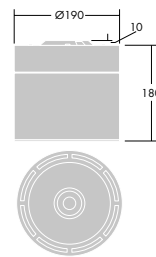


Chalice Pro

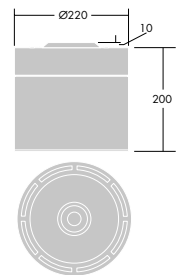
Chalice Pro HO MB



Chalice Pro HO Recessed 5000lm



Chalice Pro HO Surface 5000lm



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
Chalice 150		
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



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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 WO 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					



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
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

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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5 Year Warranty

As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries.

www.thornlighting.com/warranty

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