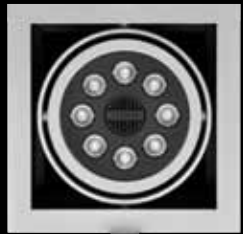
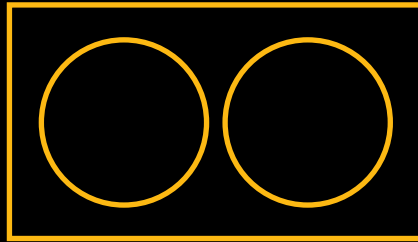
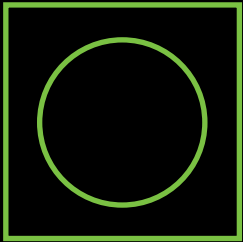


THORN

Tidon

The flexibility to provide accent
and general lighting from one luminaire





Tidon range

Innovative light source technology

With eight 2.4W Cree LEDs the gimbal is a real contender as a 100W tungsten halogen lamp replacement. It delivers a similar lumen package for 20% of the energy consumption. Available in superior white 3000K and 4000K options, it has a maintenance free rated life of 50,000 hours and is dimmable, with outstanding colour stability and uniformity.

Conventional sources

HIT-CE-TC and HIR-CE 111 metal halide (20W up to 70W) and QR111 low voltage tungsten halogen (up to 100W) are also available for electronic gear.

Better optical performance

The reflector optics have been designed to ensure that a higher proportion of the light output is directed to the objects surface. The resulting reduced spill light complies excellently with more sustainable lighting concepts where the average lighting level can be reduced (compared to existing installations) due to more concise object highlights for points of sale, displays or advertisement at lower lamp wattage level. This minimises the necessary connected and thermal load for the lighting and thus reduces the cooling load for the room space.

Flexibility in use

Adjustable to 30-degrees in any direction from the vertical. There is a choice of narrow-beam or wide-angle reflectors and also for the LED units: spot or flood beams. A selection of beam angles is available for HIR and QR lamps. Consult lamp supplier for details.

Simple installation and easy maintenance

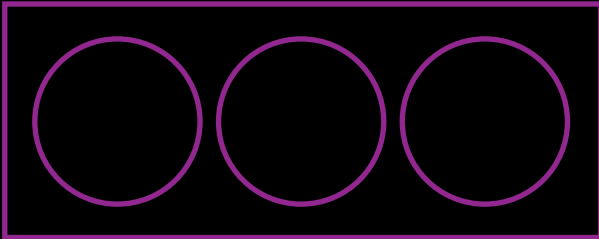
Tidon can be fixed without any tools into most suspended ceilings using the rubber sleeved spring clips and plug connectors to the electronic gear. All Thorn gear features plug-and-play connectivity due to the pre-wired plug connectors. The reflectors and lamps can also be changed without tools. Recess depth is just 150mm.

Stylish appearance

The compact aperture(s) and sleek frame effortlessly complement the display space

Special variations

VIVA – the integrated configuration system within Thorn's order handling software allows customers to select their personal choice from the large number of product variations for the Tidon range. Typical requirements might be to mix light sources, wattages and beam angles within twin or triple frames or the completion with Thorn electronic gear.



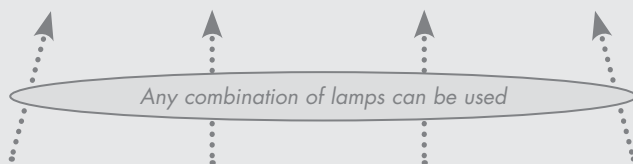
Variations

Tidon offers the opportunity to combine a choice of four different lamp types (and two different beam angles for HIT-TC) in one multiple frame set (twin or triple). A few possible variations are depicted above.

The ordering guide contains just a small section of the possible combinations; contact our local sales staff to fulfil your project requirements.

After having selected the body layout please complete the luminaire with either electronic gear, driver or transformer depending on type and wattage of the light source used.

All Tidon versions are equipped with a male connector (plug). The Thorn metal halide control gear is supplied with a cable and female connector (socket). The low voltage and LED versions of Tidon are supplied with an additional ready to wire female connector (socket) enabling connection to a suitable electronic transformer or driver.



QR111



HIR111

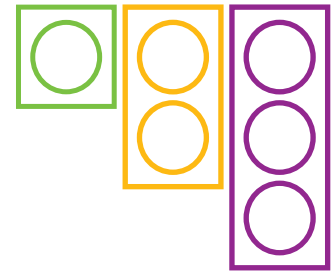


HIT-TC



LEDs

Product features



Lamps

⇔ 20W, 35W or 70W
HIT (MT/UB)
metal halide. Cap: G8.5
⊕ up to 100W QR111
(HMGS/UB) halogen. Cap: G53
⊕ 20W, 35W or 70W
HIR111 (MRS/UB) metal halide.
Cap: GX8.5
⊕ 20W LED (3000K/4000K)

Materials/Finish

Profiles: welded and coated silver/grey (RAL 9007)
Reflectors: spun and specular anodised of high purity aluminium

Installation/Mounting

Suitable for wall or ceiling recessed mounting. Easy to install featuring rubber sleeved spring clips and encoded plug connectors for electrical connection to gears.

Standards

Designed and manufactured to comply with EN60598
☐ Class II electrical or
⊕ Class III electrical
IP20 CE

Specification

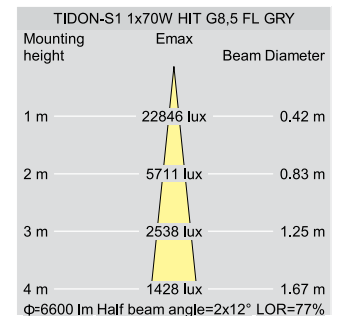
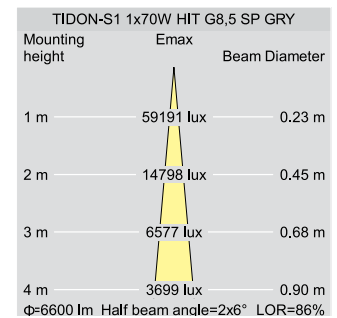
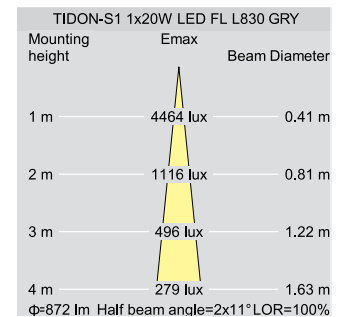
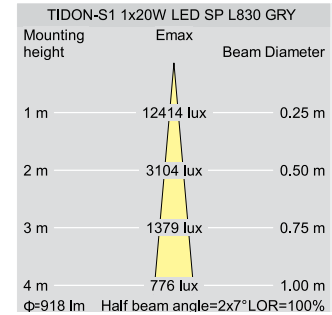
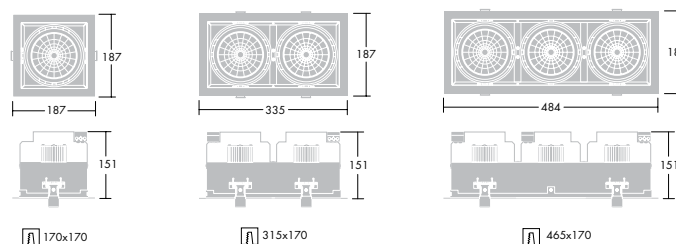
To specify state:
Recessed gimbal head luminaire; single, double or triple gimbal heads per luminaire; seamless welded aluminium frame housing with shallow appearance, gimbal heads with bayonet lock for tool-free equipment exchange; recessed housing black finish; features tool-free mounting via rubber-sleeved spring clips; for selected equipment with HIT-TC-CE 20W-70W, HIR-CE111 20W-70W, LED 20W or QR111 up to 100W; HIT-TC-CE reflectors can be tool-free interchanged; HIT and HIR versions include installed male plug connector, LED and QR versions come with installed male plug connector and ready-to-wire female plug. Lamps, gears, drivers and transformers to be ordered separately or via VIVA options. As Thorn Tidon.

Ordering guide

Lamps to be ordered separately. For complete luminaire order body, gear and accessory (if required).

SAP Description	Ilcos Code	Socket	Weight (Kg)	SAP Code
HIT versions				
TIDON-S1 1X70W HIT G8.5 SP GRY	MT/UB	G8.5	1.2	96107395
TIDON-S1 1X70W HIT G8.5 FL GRY	MT/UB	G8.5	1.2	96107396
TIDON-S2 2X70W HIT G8.5 SP GRY	MT/UB	G8.5	2.2	96107397
TIDON-S2 2X70W HIT G8.5 FL GRY	MT/UB	G8.5	2.2	96107398
TIDON-S3 3X70W HIT G8.5 SP GRY	MT/UB	G8.5	3.1	96107399
TIDON-S3 3X70W HIT G8.5 FL GRY	MT/UB	G8.5	3.1	96107400
Accessories for HIT versions				
TIDON FILTER IR/UVA			0.1	96107643
TIDON REFL SIL SP			0.1	96107859
TIDON REFL SIL FL			0.1	96107860
HIR111 versions				
TIDON-S1 1X70W HIR111 Gx8.5 GRY	MRS/UB	GX8.5	1.2	96107404
TIDON-S2 2X70W HIR111 Gx8.5 GRY	MRS/UB	GX8.5	2.0	96107405
TIDON-S3 3X70W HIR111 Gx8.5 GRY	MRS/UB	GX8.5	2.9	96107406
Gears for HIT and HIR111 versions				
PCI 0035 B521 220-240V 50/60HZ 0535 TRI			0.4	86458184
PCI 0070 B521 220-240V 50/60HZ 0535 TRI			0.4	86458185
PCI 2/35 B521 220-240V 50/60HZ 0535 TRI			0.5	86458338
PCI 2/70 B521 220-240V 50/60HZ 0535 TRI			0.5	86458339
REMOTE GEAR BOX 1X20W HIT G8,5 HF			0.4	96107640
QR111 versions				
TIDON-S1 1X100W QR111 GRY	HMGS/UB	G53	1.1	96107401
TIDON-S2 2X100W QR111 GRY	HMGS/UB	G53	2.0	96107402
TIDON-S3 3X100W QR111 GRY	HMGS/UB	G53	2.8	96107403
LV transformers for QR111 versions				
DALI / DSI dimmable				
TE 0105 one4all sc			0.2	86457873
TE-DC 2 0300 D101 one4all300VA grey			0.8	86458469
Phase-cut dimmable				
TE-0105 C201 230-240/11,5V 105VA 50/60			0.2	89899857
TE-DC 2 0300 F101 300VA D GRY			0.8	86458503
LED versions				
TIDON-S1 1X20W LED SP L830 GRY			1.5	96107407
TIDON-S1 1X20W LED FL L830 GRY			1.5	96107408
TIDON-S1 1X20W LED SP L840 GRY			1.5	96107409
TIDON-S1 1X20W LED FL L840 GRY			1.5	96107410
TIDON-S2 2X20W LED SP L830 GRY			2.8	96107411
TIDON-S2 2X20W LED FL L830 GRY			2.8	96107412
TIDON-S2 2X20W LED SP L840 GRY			2.8	96107413
TIDON-S2 2X20W LED FL L840 GRY			2.8	96107414
TIDON-S3 3X20W LED SP L830 GRY			4.0	96107415
TIDON-S3 3X20W LED FL L830 GRY			4.0	96107416
TIDON-S3 3X20W LED SP L840 GRY			4.0	96107417
TIDON-S3 3X20W LED FL L840 GRY			4.0	96107418
Universal LED driver, dimmable				
LED CONVERTER 25W UNI 110-240V DIM			0.2	96107649
Accessories for all versions				
TIDON-S1 WEIGHT DISTRIBUTION PANEL			0.4	96107652
TIDON-S2/S3 WEIGHT DISTRIBUTION PANEL			0.8	96107653

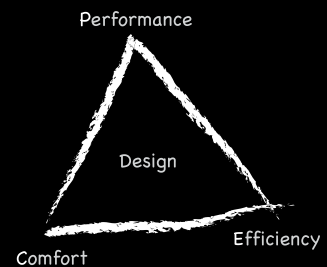
SP - Spot beam, FL - Flood beam





Performance, Efficiency and Comfort (PEC) – for a better lit environment

Tidon evokes the spirit of Thorn Lighting's dynamic, results-orientated PEC programme



The programme is based on the principle that Performance, Efficiency and Comfort determine the effectiveness of lighting, its impact on the people using it, and its impact on the natural environment.

For display and accent lighting a few general points should be noted. The human eye is able to perceive its environment on a wide range of illumination levels at nearly identical levels of comfort and performance. However to provide light accents requires at least 1 ½ – 2 times more brightness than the surrounding areas. So accent lighting becomes a matter of providing the same performance efficiently. At an average level of 1000lx you'd need at least 1500 – 2000lx in order to provide accents to displays, models or special offers. An average level of 500lx provides similar comfort and performance of visual perception and you can save 50% of energy for lighting compared to 1000lx average levels.

As soon as the accent lighting is directed to the point of sale only, without causing additional spill light to the surroundings, highlighting becomes more effective, raising the level of illumination more efficiently with respect to the background light levels. This provides even more flexibility in designing attractive scenes in a sustainable manner.

Tidon is a universally applicable lighting tool to fit existing lighting layouts in a flexible and sustainable manner. Tidon delivers the right light on the right place at the right time.

Performance: Providing the best visual effectiveness

- The wide selection of light sources and beam angles available provide greater flexibility in the lit effect. This ensures that features, textures and colours on lit artefacts are displayed correctly, allowing the modelling of the object to be optimised
- The facility to install multiple lighting points within one frame allows the lighting to be easily adjusted to meet changing requirements as displays and merchandise are moved or modified
- High power LED technology with superior colour rendering ensures the correct appearance of colours, providing a crisp, vibrant look.

Efficiency: Conserving energy and effort, reducing CO₂ emissions and waste, providing lighting that is practical and efficient to install, operate and maintain.

- The use of high efficacy lamps or LED reduces power demand and conserves energy

- The facility to install multiple lighting points within one frame eases installation and maintenance, allowing multiple heads to be serviced at the same time
- The application of precision optics ensures high luminaire efficiency with a well controlled beam reducing spill light. This allows fewer fittings to be used to achieve a desired effect, conserving energy with no loss of performance.

Comfort: giving people satisfaction and stimulation

- The use of recessed spotlights removes clutter from the ceiling, providing a clean space
- The wide selection of light sources helps provide a lively and interesting space
- The dimming of LEDs increases efficacy without colour shift and can easily be used to adjust spotlights to a convenient light level, increasing the flexibility to produce the desired lit effect and ambience.

THORN

Lighting people and places

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