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THETA750 SNAP RGBW

Recessed - Integrated Heat Sink - Snap In RGBW

ORDERING CODE

SERIES	750S	snap puck
CCT	RGBW	4000K
BEAM	ST VA	70° standard 75° asymmetric
LENS	PC BG	polycarbonate - IP65 borosilicate glass - IP67
FACE TYPE	CF FF	curved face flat face

___ ORDERING CODE ___

Follow the steps to specify your fixture, example:
750S - RGBW - ST - PC - FF

LUMENS FOR ST/VA/WD BEAM OPTION	
LUMENS (LM)	CCT (K)
180	4000

DESCRIPTION

Theta750 RGBW Snap features a patented design with a collapsible thread. With one easy push, the module snaps securely into the rail. Removal is only possible with a unique extraction tool. Most cost effective rail solution on the market. Field or OEM handrail installation.

HOUSING

Extremely durable 316 stainless steel marine grade electro-polished housing, with 3.5" (90mm) 20AWG wire leads.

MOUNTING

- Install in metallic surface only for proper thermal dissipation. Luminaire is for use in non-insulated recessed surfaces
- Rail Size - min. D 1.77", 45mm
- Rail Wall Thickness - min. .0625", 1.5mm
- Curved or flat mounting surfaces
- Aperture for Flat face - 15mm or 15mm + (16mm x 0.5mm) counterbore (required for flush finish)
- Aperture for Curved face - 15mm or 15mm + (16mm x 1.5mm) counterbore (required for flush finish)

ELECTRICAL/LED Driver

- 3Vdc, 500mA, 1.5W (Remote Driver Required)
- RGBW 500mA single emitter or total system 4 x 125mA
- Cool splice connector included
- Ambient operating temperature: -40°C to + 55°C
- Series shunt bypass can not be used for RGBW
- 15 Puck maximum per driver
- Maximum 200ft total system run length

LISTINGS

- ETLus Listed to UL2108 (suitable for wet locations)
- cETL Listed to CSA C22.2 #250.0
- Impact tested to IK10 (EN62262) PC lens only
- IP65 rated with PC lens
- IP67 rated with Borosilicate glass lens
- ADA Compliant when using handrail diameter 1-7/16" (36mm) to 2" (50.8mm) O.D

LED INFO

- LED: Cree Xlamp® XM-L Color (applicable for RGBW)
- Duv: 0.001
- CCT: RGBW (White, 4000K)
- CRI: >80
- Lumen Maintenance: L$_{90}$> 90,700 hrs
- Warranty: 5 year limited warranty

16mm, 0.63in

26mm, 1.023in

15mm, 0.59in

RGBW

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RGBW - STANDARD BEAM

RGBW has an elliptical symmetric distribution. For installation in handrail, mounting is typically at 30° from the vertical axis of the handrail underside. RGBW is available in a range of distributions and special angles on request.
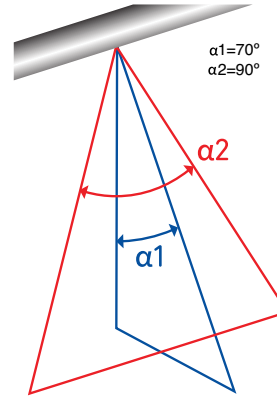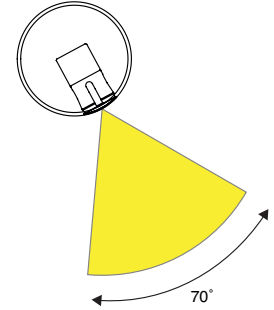
THETA750 SNAP ST - RGBW
CURVED FACE DETAIL

16mm, 0.63in

26mm, 1.023in
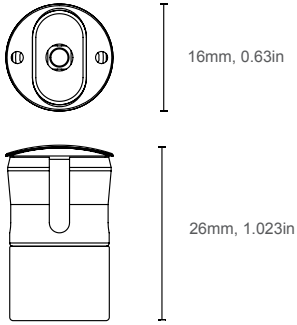
THETA750 SNAP ST - RGBW
FLAT FACE DETAIL

16mm, 0.63in

26mm, 1.023in
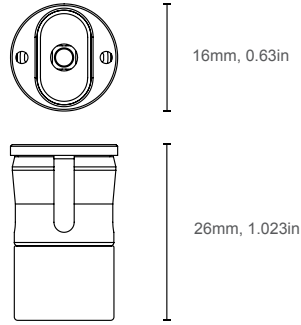
THETA750 SNAP ST - RGBW
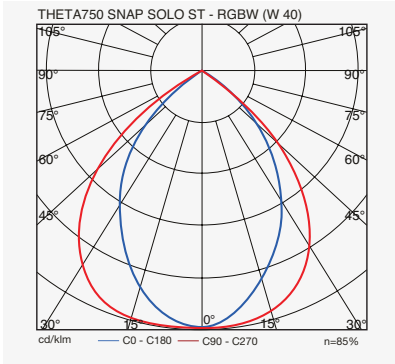BEAM ALPHA 3000K

α1=70°
α2=90°

α2

α1

THETA750 SNAP ST - RGBW
STANDARD BEAM

70°

Elliptical symmetric distribution for typical mounting at 30° from vertical.

THETA750 SNAP SOLO ST - RGBW (W 40)
STANDARD SYMMETRICAL BEAM 4000K
(Results displayed were obtained using white chip at 500mA)

THETA750 SNAP SOLO ST - RGBW (W 40)

cd/klm   —— C0 - C180   —— C90 - C270   n=85%

SPACING GUIDE

The following guide is intended to help designers and engineers with desired foot-candles levels. The drawing to the right shows a typical installation into a handrail. The tables list the average foot-candles at a variety of path widths and LED spacings

TYPICAL INSTALLATION

W

H

Height (H) is at 3'-1/4"

S   S   S   S
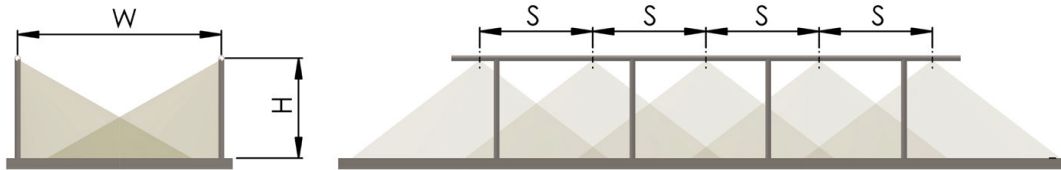
RGBW (W CCT at 4000K) - STANDARD BEAM: LIGHT FROM BOTH SIDES

PATH WIDTH (W)	4ft	6.5ft	10ft	13ft
LED SPACING (S)	fc	fc	fc	fc
1.5ft	35	21	14	11
3ft	18	11	7	5
6.5ft	9	5	4	3

fc = average foot-candles
CCT = 4000K
NOTE: Calculations indicated are with LED module installed at
30° offset from vertical down axis and obtained using white chip at 500mA.

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THETA750 SNAP TOOL KIT - FOR ROUND OR SQUARE HANDRAIL

Product Number: 750-TOOL KIT THETA SNAP

1 1 x Drill Jig unit pre-installed with 1 x 15 and 16mm cutters
2 1 x Flat Face Spacer (for use ONLY with Flat face / Square Pipe). Not Shown.
3 1 x Drilling manual (this guide)
4 2 x 15mm cutters (spares)
5 1 x 16mm cutter (spare)
6 1 x Cutter removal tool (double-sided)
7 1 x 2mm Allen (hex) key
8 2 x cutting lubricant
9 1 x AF 10mm nut driver
10 1 x 10mm wrench
11 1 x Insertion pliers
12 1 x File

* Not shown, wire crimping pliers.

Purchases

- It is strongly recommended to purchase a kit or multiple kits for larger projects or projects with several phases.
- Additional drill bits jig assemblies can be purchased at nominal cost to replace worn or ineffective parts. CONSULT FACTORY.

NO TOOL KIT REQUIRED - FOR FLAT SURFACES

- Drill 15mm hole in mounting surface

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REMOTE DRIVER - DMX ORDERING CODE

PART NUMBER	P70471	LED driver with box
CURRENT	**500**	500mA
POSITIVE CABLE	**1** **2** **3** **4** **5** **6**	Quick connect harness, 2ft Quick connect harness, 4ft Quick connect harness, 5.5ft Quick connect harness, 8ft Quick connect harness, 18ft Quick connect harness, 36ft Positive harness from driver
NEGATIVE CABLE	**1** **2** **3** **4** **5** **6**	Quick connect harness, 2ft Quick connect harness, 4ft Quick connect harness, 5.5ft Quick connect harness, 8ft Quick connect harness, 18ft Quick connect harness, 36ft Negative harness from driver

ORDERING CODE

Follow the steps to specify your fixture, example:
P70471 - 500 - 3 - 5
See Wiring Diagram on page 2

ACCESSORIES

THETA-RGBW-EXT-1	Quick connect harness, 2ft
THETA-RGBW-EXT-2	Quick connect harness, 4ft
THETA-RGBW-EXT-3	Quick connect harness, 5.5ft
THETA-RGBW-EXT-4	Quick connect harness, 8ft
THETA-RGBW-EXT-5	Quick connect harness, 18ft
THETA-RGBW-EXT-6	Quick connect harness, 36ft

Connection harness between pucks.
Order one less extension harness than quantity of pucks.
Ex: 10 Pucks Ordered = 9 Extension Harnesses

DESCRIPTION

- 4 seperately controllable LED outputs
- Hybrid HydraDrive: provides the smoothest flicker-free high-performance dimming to zero for every fixture
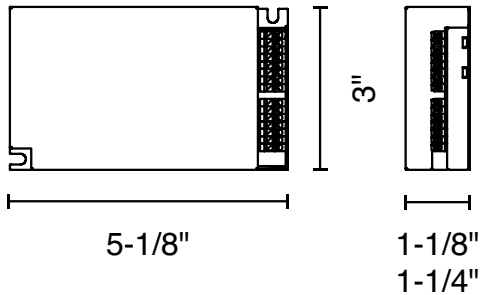
ELECTRICAL/CONTROLS

- 120-277Vac, 50/60Hz input
- 50W max output
- 200-500mA DC constant current output per channel
- 2-55Vdc output per channel
- 0% dimming - 4 channel output
- DMX compatible
- Operating temperature: -4°F to 122°F
- Class II rated
- Suitable for use in damp and dry locations
- Short circuit protection
- Overload protection
- Over-voltage protection
- Thermal protection
- 3 year warranty
- Box: Length = 9", Width = 4", Height = 1-3/8"
- Driver: Length = 5-1/8", Width = 3", Height = 1-1/4"

LISTING

- ETLus Listed to UL2108 (suitable for dry and damp locations)
- cETL Listed to CSA C22.2 #250.0

REMOTE DRIVER

3"

5-1/8"

1-1/8"
1-1/4"

Powerdrive 561/S

4"

9"

1-3/8"

Box

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WIRING DIAGRAM

Negative Feed Cable = ▬▬
Positive Feed Cable = ▬▬
Extension Cable = ▬▬

RGBW Driver

LED output 1
LED output 2
LED output 3
LED output 4
LEDcode/NTC
DMX In
DMX Shield
120-277 VAC 50-60Hz

Red +VE
Red -VE
Green +VE
Green -VE
Blue +VE
Blue -VE
White +VE
White -VE

+
-
shield
DMX in

L
N
120-277 V

PLUG CONNECTION

RGBW LED Pucks are prefitted with male and female plug connectors. Plug connections are waterproof.

Additional harness can be connected between driver harnesses

PLUG CONNECTION

Additional harness can be connected between driver harnesses

LED PUCK

Maximum 200ft system run length.
(From Driver + Handrail length to first puck + Puck Series run length + Return harness)

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