

THETA SOLO

Integrated Heat Sink - Snap In Standard White



DESCRIPTION

- Theta Solo features an integrated heat sink for installation in a range of materials from metal to wood.
- Theta Solo features a patented design with a collapsible thread. With one easy push, the module snaps securely into the material. Removal is only possible with a unique extraction tool. Series shunt bypass ensures remaining operate if single puck failure.

HOUSING

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

MOUNTING

- Install in a range of materials from metal to wood. Luminaire is for use in non-insulated recessed surfaces
- Flat mounting surface
- Through hole required for wiring in alternate materials
- Aperture - 15mm or 15mm + (16mm x 0.5mm) counterbore (required for flush finish)

ELECTRICAL/LED

- 3Vdc, 500mA, 1.5W (Remote Driver Required) see pages 6-7
- Cool splice connector included
- Ambient operating temperature: -40°C to + 55°C
- Series shunt bypass ensures remaining operate if single puck failure
- 15 puck maximum per driver

LISTING

- 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
- 3000k or warmer must be selected for International Dark-Sky Association approval.

LED INFO

- LED: Cree Xlamp® XP-G3
- Cree Xlamp® XP-GA (Amber-590nm *Dominant Wavelength* complies with Wildlife and Marine Turtle safelighting requirements)
- Duv: 0.001
- CCT: 2200K, 2700K, 3000K, 3500K, 4000K, amber
- CRI: >80
- Lumen Maintenance: L₉₀> 90,700 hrs
- Warranty: 5 year limited warranty

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	750SS	snap solo
CCT	22K 27K 30K 35K 40K AMB BL GR RD	2200K 2700K 3000K 3500K 4000K amber blue green red
BEAM	ST ¹ VA ¹ WD DRA ^{2,3,4} UNI	70° standard 75° asymmetric 105° wide 70° deep regress asymmetric 65° high uniformity asymmetric
LENS	PC BG IP68 ⁵	polycarbonate borosilicate glass - IP67 optically clear polyurethane - IP68
BEZEL COLOR	AG SF	anti-glare coating - black (0.56) electropolished stainless steel (1.00)
FACE TYPE	FF	flat face

ORDERING CODE

Follow the steps to specify your fixture, example:

750SS - 27K - ST - PC - SF - FF

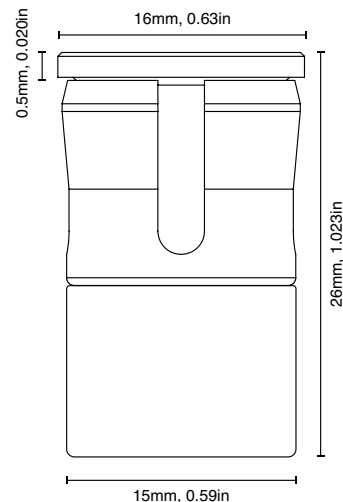
LUMENS FOR ST/VA BEAM OPTION		LUMENS FOR DRA BEAM OPTION	
LUMENS (LM)	CCT (K)	LUMENS (LM)	CCT (K)
120	2200	100	2200
165	2700	130	2700
170	3000	135	3000
175	3500	140	3500
180	4000	145	4000
145	amber	115	amber

LUMENS FOR IP68 LENS OPTION		LUMENS FOR UNI BEAM OPTION	
LUMENS (LM)	CCT (K)	LUMENS (LM)	CCT (K)
90	2200	95	2200
115	2700	130	2700
120	3000	135	3000
125	3500	140	3500
130	4000	145	4000
102	amber		

See page 4 for Design Guide.

NOTES

1. ST 60° and VA 85° when using IP68 Lens.
2. UNI not available with Lens, omit code.
3. Not vandal resistant or IK10 rated. IP 68 Rated.
4. AG coating not available with UNI.
5. IP68 lensing no available with AG color option.

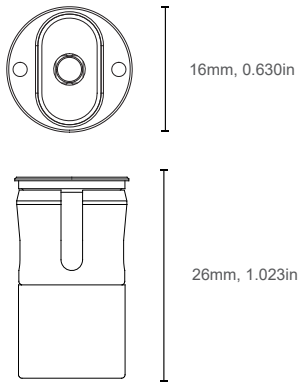


PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

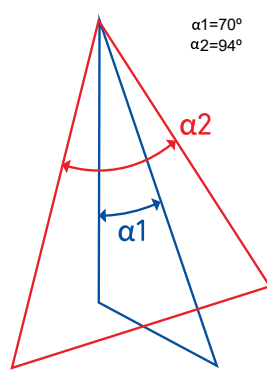
STANDARD WHITE - STANDARD BEAM

THETA Solo Standard has an elliptical symmetric distribution. Designed for insertion at 0-30 degrees from vertical axis.

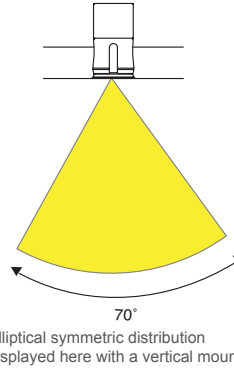
ST
CURVED FACE DETAIL



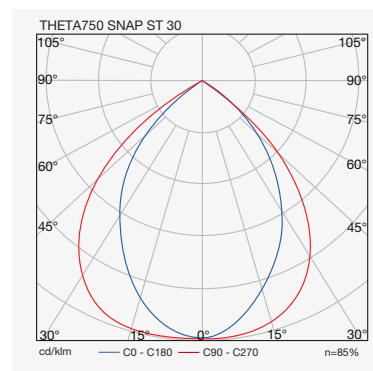
ST
BEAM ALPHA 3000K



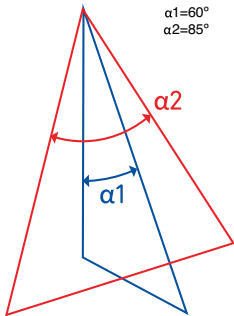
ST
STANDARD BEAM



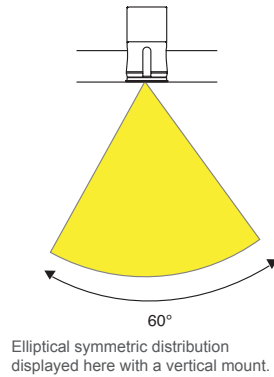
ST
STANDARD SYMMETRICAL BEAM 3000K



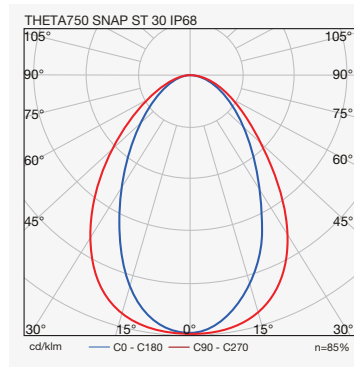
ST IP68
BEAM ALPHA 3000K



ST
STANDARD BEAM IP68



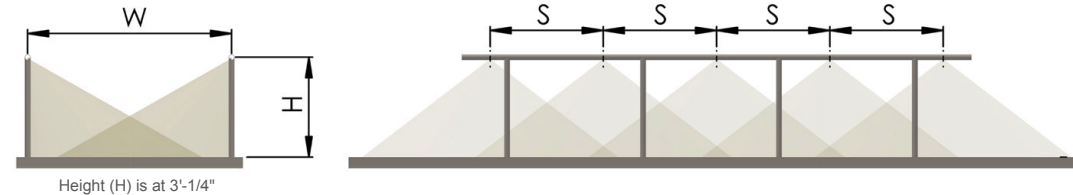
ST IP68
STANDARD SYMMETRICAL BEAM 3000K



SPACING GUIDE

The following guide is intended to help designers and engineers with desired foot-candle levels. The drawing below is for reference only, ideal for bollards (by others) or Non-ADA required applications. The table list the average foot-candles at a variety of LED spacings.

TYPICAL INSTALLATION



STANDARD WHITE - STANDARD BEAM IP65-67 / IP68-AG: LIGHT FROM BOTH SIDES

PATH WIDTH (W)	4ft	6.5ft	10ft	13ft
LED SPACING (S)	fc	fc	fc	fc
1.5ft	32/18	19/11	13/7	10/5
3ft	16/9	10/5	6/3.5	5/2.7
6.5ft	8/4.5	5/2.7	3/1.8	2/1.3

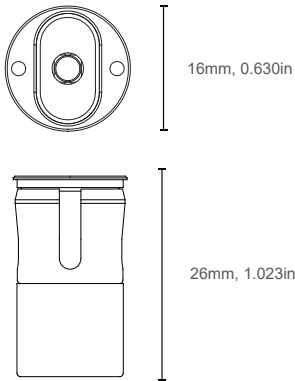
fc = average foot-candles
CCT = 3000K
NOTE: Calculations indicated are with LED module installed at 30° offset from vertical down axis.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

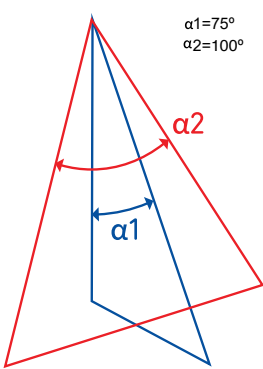
STANDARD WHITE - ASYMMETRICAL BEAM

THETA Solo VA has an elliptical asymmetric distribution. Designed for insertion at 0-10 degrees from vertical axis.

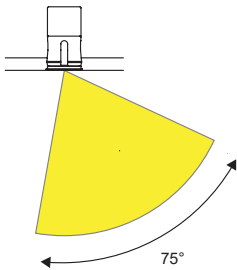
VA
CURVED FACE DETAIL



VA
BEAM ALPHA 3000K

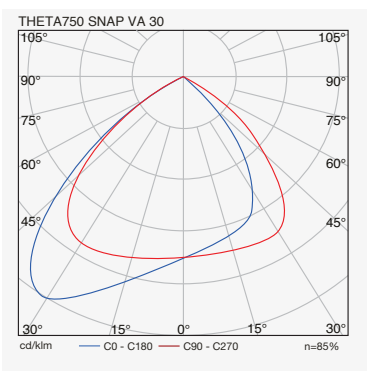


VA
ASYMMETRICAL BEAM

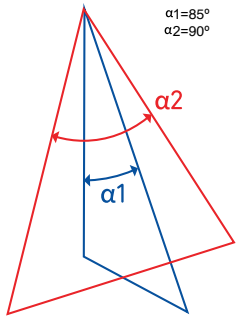


Elliptical symmetric distribution displayed here with a vertical mount.

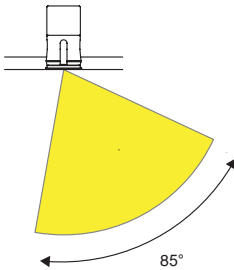
VA
ASYMMETRICAL BEAM 3000K



VA IP68
BEAM ALPHA 3000K

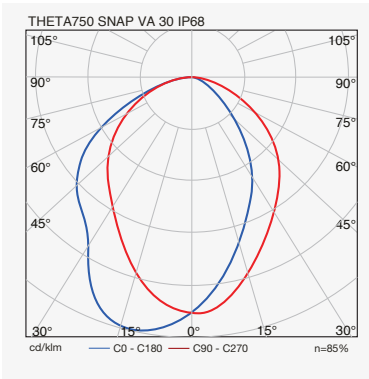


VA
ASYMMETRICAL BEAM



Elliptical symmetric distribution displayed here with a vertical mount.

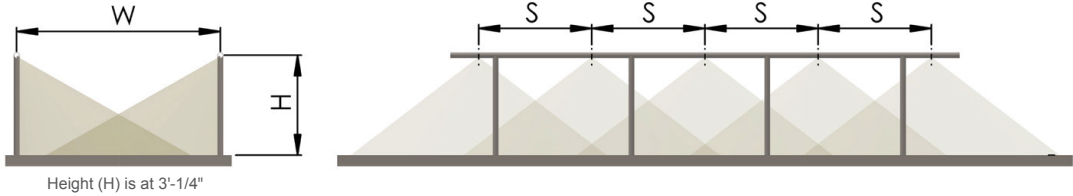
VA 30 IP68
ASYMMETRICAL BEAM 3000K



SPACING GUIDE

The following guide is intended to help designers and engineers with desired foot-candle levels. The drawing below is for reference only, ideal for bollards (by others) or Non-ADA required applications. The table list the average foot-candles at a variety of LED spacings.

TYPICAL INSTALLATION



STANDARD WHITE - ASYMMETRICAL BEAM IP65-67/IP68-AG: LIGHT FROM BOTH SIDES

PATH WIDTH (W)	4ft	6.5ft	10ft	13ft
LED SPACING (S)	fc	fc	fc	fc
1.5ft	27/16	16/9.5	11/6.3	8/4.7
3ft	14/8	8/4.7	5/3	4/2.4
6.5ft	7/4	4/2.4	3/1.5	2/1.2

fc = average foot-candles
CCT = 3000K
NOTE: Calculations indicated are with LED module in vertical down position.

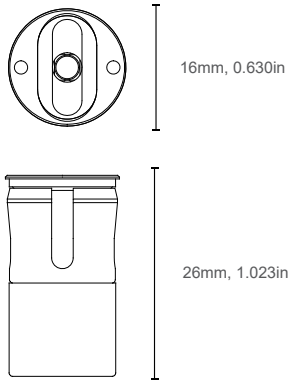
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

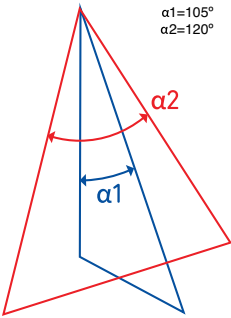
STANDARD WHITE - WIDE BEAM

THETA Solo Standard has an elliptical symmetric distribution. Designed for insertion at 0-30 degrees from vertical axis.

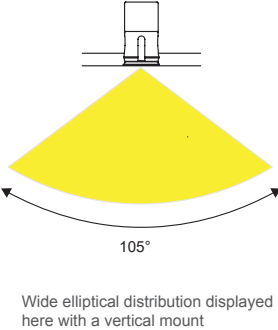
WD
CURVED FACE DETAIL



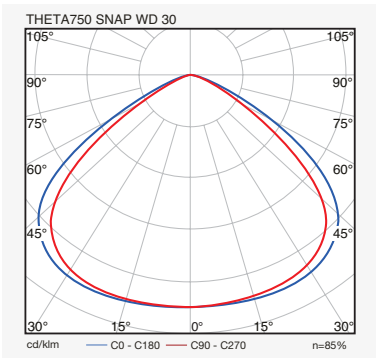
WD
BEAM ALPHA 3000K



WD
WIDE BEAM



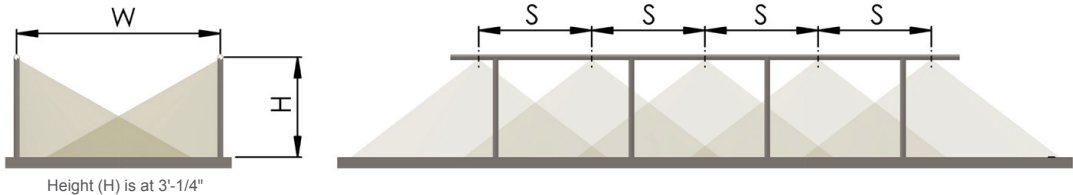
WD
WIDE BEAM 3000K



SPACING GUIDE

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The drawing below is for reference only, ideal for bollards (by others) or Non-ADA required applications.
The table list the average foot-candles at a variety of LED spacings.

TYPICAL INSTALLATION



STANDARD WHITE - WIDE BEAM - SF / AG : LIGHT FROM BOTH SIDES

PATH WIDTH (W)	4ft	6.5ft	10ft	13ft
LED SPACING (S)	fc	fc	fc	fc
1.5ft	21/12	12/7	8/4.5	6/3.5
3ft	10/5.5	6/3.5	4/2.5	3/2
6.5ft	5/3	3/2	2/1	1.5/1

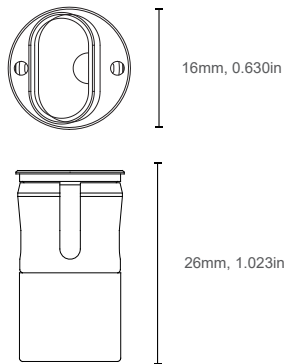
fc = average foot-candles
CCT = 3000K
NOTE: Calculations indicated are with LED module in vertical down position.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

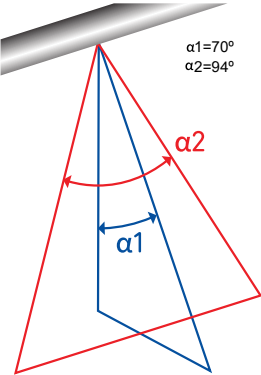
STANDARD WHITE - DEEP REGRESS ASYMMETRIC BEAM

THETA Solo Deep Regress has an elliptical asymmetric distribution. Designed for insertion at 0-10 degrees from vertical axis. The asymmetric beam illuminates the path but keeps the light source out of sight.

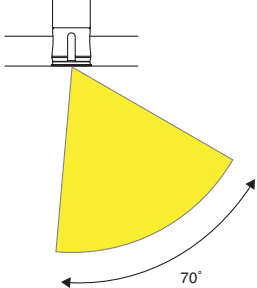
DRA
CURVED FACE DETAIL



DRA
BEAM ALPHA 3000K

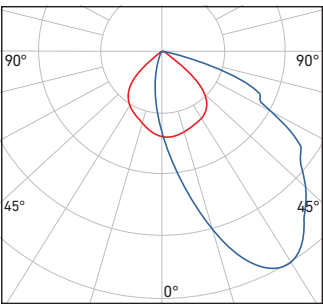


DRA
STANDARD BEAM



Elliptical symmetric distribution
displayed here with a vertical mount.

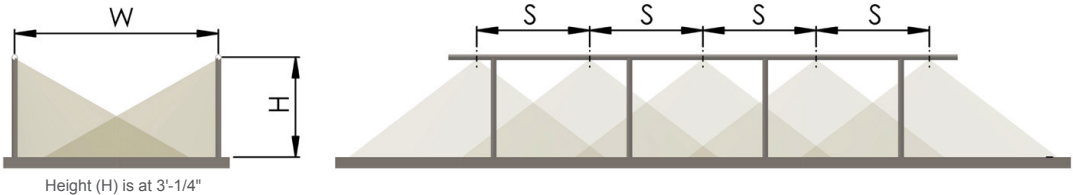
DRA
ASYMMETRIC BEAM 3000K



SPACING GUIDE

The following guide is intended to help designers and engineers with desired foot-candle levels. The drawing below is for reference only, ideal for bollards (by others) or Non-ADA required applications. The table list the average foot-candles at a variety of LED spacings.

TYPICAL INSTALLATION



STANDARD WHITE - DEEP REGRESS ASYMMETRIC BEAM - SF / AG :

FROM BOTH SIDES

PATH WIDTH (W)	4ft	6.5ft	10ft	13ft
LED SPACING (S)	fc	fc	fc	fc
1.5ft	25/15	15/9	10/6	8/4.5
3ft	13/7.5	8/4.5	5/3	4/2.5
6.5ft	6/4	5/2.5	2.5/1.5	2/1

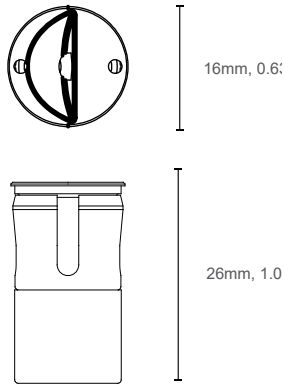
fc = average foot-candles
CCT = 3000K
NOTE: Calculations indicated are with LED module in vertical down position.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

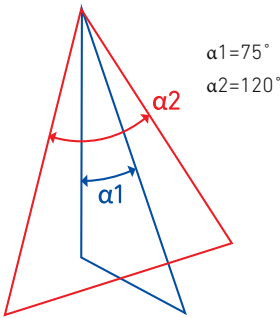
STANDARD WHITE - UNI ELLIPTICAL ASYMMETRIC BEAM

THETA UNI SOLO has a high uniformity asymmetric distribution. Designed for insertion at 0 degrees from the vertical axis of the handrail underside. UNI applications are best where uniformity is required with long distances between pucks and/or between rails.

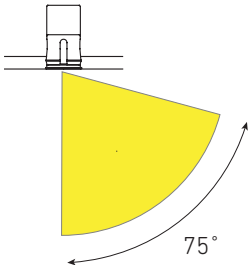
UNI
CURVED FACE DETAIL



UNI
BEAM ALPHA 3000K

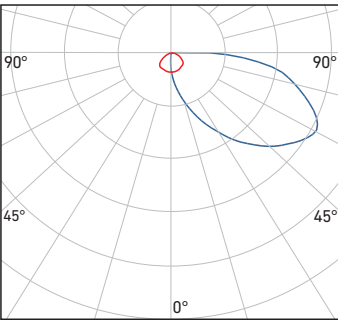


UNI
ASYMMETRICAL BEAM



Elliptical symmetric distribution
displayed here with a vertical mount.

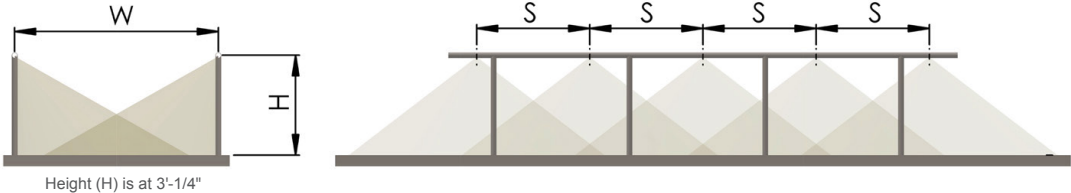
UNI
ELLIPTICAL ASYMMETRIC BEAM 3000K



SPACING GUIDE

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TYPICAL INSTALLATION



STANDARD WHITE - UNI ELLIPTICAL ASYMMETRIC BEAM : LIGHT FROM BOTH SIDES

PATH WIDTH (W)	4ft	6.5ft	10ft	13ft
LED SPACING (S)	fc	fc	fc	fc
1.5ft	27	16	11	8
3ft	13.5	8	5	4
6.5ft	6	4	3	2

fc = average foot-candles
CCT = 3000K
NOTE: Calculations indicated are with LED module in vertical down position.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

THETA750 SNAP TOOL KIT - FOR ROUND OR SQUARE HANDRAIL



Product Number: 750-TOOL KIT ZETA 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

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

REMOTE DRIVE - 0-10V ORDERING CODE

PART NUMBER	P70414	LED driver with box
CURRENT	500	500mA
DIMMING	ECO SOLO	1% 0.1%

ORDERING CODE

Follow the steps to specify your fixture, example:
P70414 - 500 - ECO

See Wiring Diagram on page 2.

MAXIMUM PUCK WIRING DISTANCE (15 PUCKS AT 500MA)

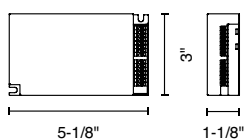
PUCKS	AWG VALUE	DISTANCE ¹ (FT)
15	20	300
15	18	600

MAXIMUM WIRING DISTANCE FROM DRIVER TO THE FIRST PUCK

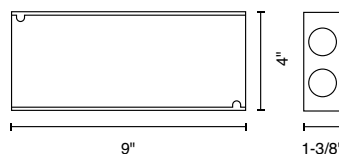
AWG VALUE	DISTANCE (FT)
18	150
16	250
14	400
12	600
10	1000

NOTES

1. Maximum wiring distance from the first to the last puck.



ECO or SOLO 561/S



Box

DESCRIPTION

- 0-10V dimmable protocol LED drive with smooth flicker free dimming

TECHNICAL SPECS

- 120-277Vac, 50/60Hz input
- 50W max output
- 500mA DC constant current output per channel
- 2-55Vdc output per channel
- ECO 1% dimming - 1 channel output
- Solo 0.1% dimming - 2 channel output
- 0-10V 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
- Box: Length = 9", Width = 4", Height = 1-3/8"
- Driver: Length = 5-1/8", Width = 3", Height = 1-1/8"

LISTINGS

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

REMOTE DRIVE - DALI ORDERING CODE

PART NUMBER	P70469	LED driver with box
CURRENT	500	500mA
DIMMING	ECO SOLO	1% 0.1%

ORDERING CODE

Follow the steps to specify your fixture, example:
P70469 - 500 - ECO

See Wiring Diagram on page 2.

MAXIMUM PUCK WIRING DISTANCE (15 PUCKS AT 500MA)

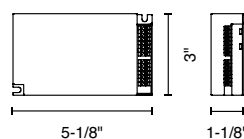
PUCKS	AWG VALUE	DISTANCE ¹ (FT)
15	20	300
15	18	600

MAXIMUM WIRING DISTANCE FROM DRIVER TO THE FIRST PUCK

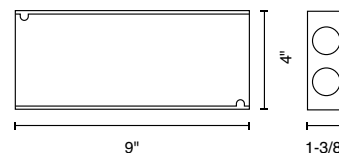
AWG VALUE	DISTANCE (FT)
18	150
16	250
14	400
12	600
10	1000

NOTES

1. Maximum wiring distance from the first to the last puck.



ECO or SOLO 561/S



Box

DESCRIPTION

- DALI dimmable protocol LED drive with smooth flicker free dimming

TECHNICAL SPECS

- 120-277Vac, 50/60Hz input
- 50W max output
- 500mA DC constant current output per channel
- 2-55Vdc output per channel
- ECO 1% dimming - 1 channel output
- Solo 0.1% dimming - 2 channel output
- DALI 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
- Box: Length = 9", Width = 4", Height = 1-3/8"
- Driver: Length = 5-1/8", Width = 3", Height = 1-1/8"

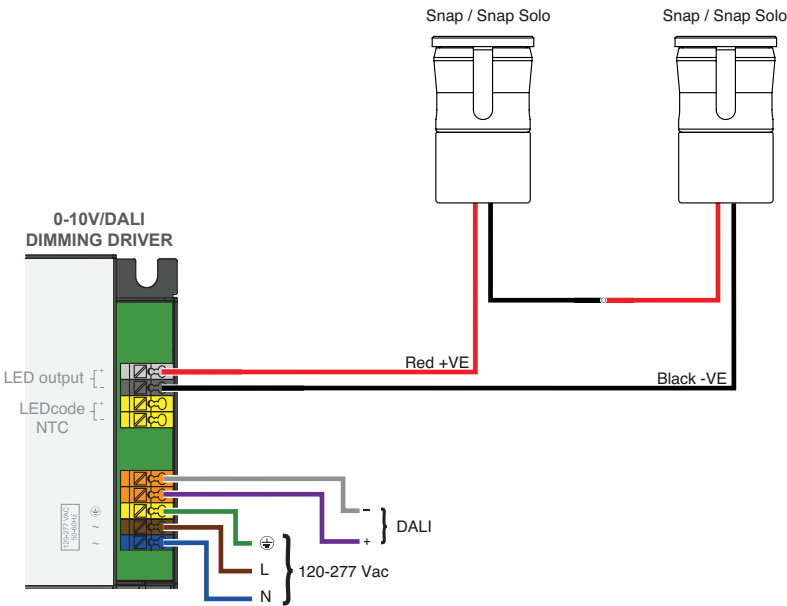
LISTINGS

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

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRING DIAGRAM

ECO



SOLO

