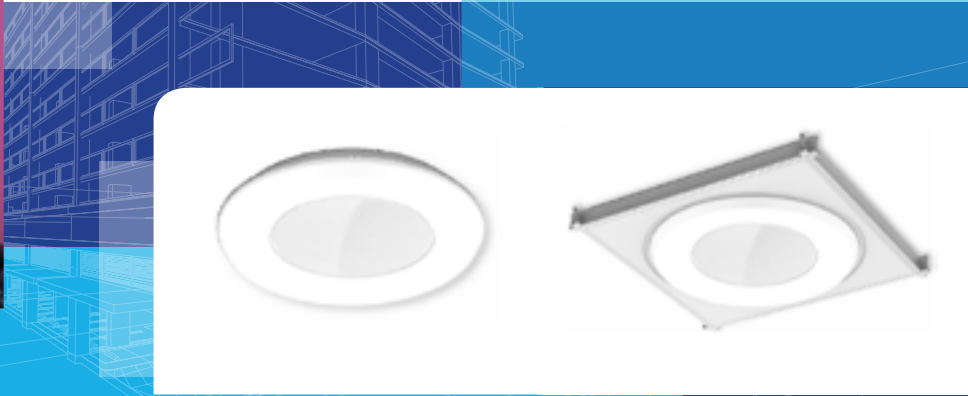


Established in

1974

 **Monodraught**[®]
engineering delivered. *naturally*



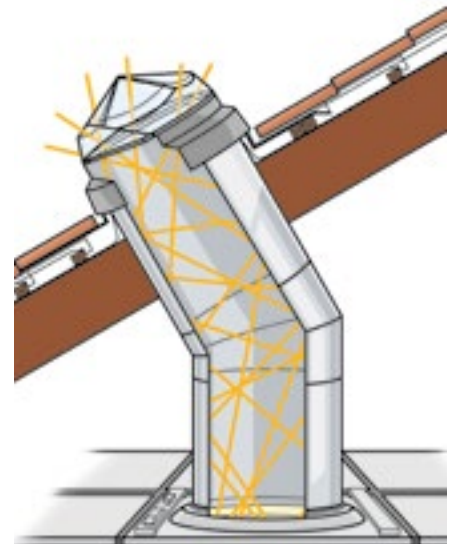
Natural Lighting

Sunpipe LED - Low Energy Hybrid Lighting System

Monodraught's SUNPIPE LED hybrid lighting system combines the SUNPIPE Natural Daylight system with an incredibly efficient and intelligent LED solution. During daylight hours, the SUNPIPE directs healthy natural light from its patented Diamond Dome through the MICRO-SILVER[®] finish aluminium tube to the ceiling diffuser. The system is complimented by its advanced LED system, by leading British manufacturer PhotonStar[™], and intelligently managed by the halcyonPRO[™] wireless control system. The result is a complete and ultra-low energy lighting system suitable for any location with guaranteed lighting performance.

Technical Details

- **Material:**
 - » Top Dome 4 mm Impact Resistant Acrylic
 - » SUNPIPE MICRO-SILVER[®] finish aluminium
 - » Upstand to suit roof type: Available in ABS, Galvanised Steel or GRP
 - » High Performance polycarbonate diffuser for uniform distribution
 - » Aluminium LED mounting fixture
- **Performance:**
 - » Natural Daylight output 4460 lumens in full summer sun (105k Lux)
 - » LED output up to 3724 delivered lumens
 - » Colour Temperature of LEDs tuneable from 1800 k to 7000 k
 - » Efficacy of up to 83 lumens per circuit watt
 - » 120° beam angle
 - » Dimmable



- **Options:**
 - » 610 mm (2ft) extension lengths 30°/45° adjustable elbows
 - » Motorised light shut off damper
 - » Security bars
 - » Fire Collar
 - » LED available in standard fixed white, Circadian (white colour tuneable) and CircadianPLUS & RGB (white colour tuneable with RGB) light engines
 - » Diffuser available in surface mount, wall mount and suspended ceiling grid configurations
- **Dimensions:**
 - » 305 mm Dia Sunpipe
 - » 320 mm Dia Roof opening required
 - » 505 mm Dia LED surface mount diffuser
 - » 596 mm x 584 mm LED suspended ceiling grid diffuser

LED Light Output Performance

Performance Data				
	Sunpipe LED Fixed White 4000	Sunpipe LED Fixed White 5000	Sunpipe LED Circadian	Sunpipe LED Circadian Plus & RGB
Description	High Efficiency	High Efficiency	Tuneable 2700 k - 6500 k	Tuneable 1800 k - 7000 k & RGB
Illuminance comparable to	4 x 14 W T5/4 x 18 W T8	2 x 40 W PL	-	-
Light Engine Power	30 W	44 W	34 W	30 W
LED (Source) Lumens (L100)	3724 lm @ 4000 K	4655 lm @ 4000 K	3920 lm @ 6500 K	33945 lm @ 6500 K
Luminaire / System Power	35.7 W @ 4000 K	47.8 W @ 4000 K	37.6 W @ 6500 K	41.4 W @ 6500 K
For Drivers: I/Vmax	N/A	N/A	N/A	N/A
Optic	Diffuser	Diffuser	Diffuser	Diffuser
Beam Angle	120° / VW	120° / VW	120° / VW	120° / VW
Luminaire Efficacy >80R34000k	83 lm/cW @ 4000 K	78 lm/cW @ 4000 K	83 lm/cW @ 6500 K	79 lm/cW @ 6500 K
Initial/Maintained SDCM	<3 / <3	<3 / <3	<3 / <3 @ 6500 K	<3 / <3 @ 6500 K
Rated Life (hours)	50,000	50,000	50,000	50,000
Lumen Maintenance Category	Cat 1 / Code 9	Cat 1 / Code 9	Cat 1 / Code 9	Cat 1 / Code 9

Product Variants

- **Suspended Ceiling Panel** – suitable for standard 595 mm x 595 mm suspended ceiling grids
- **Surface mount** – suitable for all surface mount applications including vertical and horizontal faces



Thermal Performance

	Light Output Performance (Lumens)		
	Fuller Summer Sun	Overcast Summer 45 klux	Overcast Winter
300 SUNPIPE	4460	1940	760

Typical Uses

The 300 SUNPIPE LED system is the most popular SUNPIPE size, suitable for lighting most average sized rooms.

NBS Specifications

SUNPIPE LED SYSTEMS

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FEATURES

- Glazing Details: Clear Impact-Resistant Acrylic Diamond Dome complete with Acrylic Ecoshield double glazed component
- Lining: MICRO-SILVER® finish aluminium tube in 610 mm lengths
- Goretex: Breathable, waterproof vent to alleviate condensation risk
- Ceiling diffuser: diffused polycarbonate, with aluminium backing plate and LED housing

ADVANTAGES

- Generally no structural alterations required, easily fits between joists and rafters
- Horizontal and basement application are possible.
- No Maintenance required on SUNPIPE component
- Top domes are self-cleaning due to their shape. Goretex vent eliminates condensation

STANDARDS

- BS EN ISO 14001 and BS EN ISO 9001.
- The Fire Choke collar has been fully tested to current British and European Standards (test report TE 39902).
- Size: 300 only
- Roof Terminal: Impact resistant Acrylic Diamond Dome
- Roof types: bold rolled tile, felt, membrane green roof, metal, pitched slate, plain tile
- Accessories: Adjustable elbows, Fire Choke Collar, motorised shut off dampers
- As Standard: ABS flashing/ABS with weathering kit/Code 4 lead/Galvanised upstand
- Options: Other bespoke arrangements are available. For sizing guidance or further details please contact Monodraught Head Office
- Approvals: CE mark, CHAS registered



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