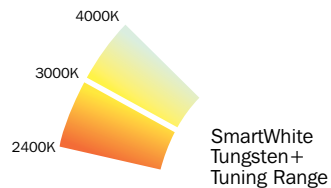
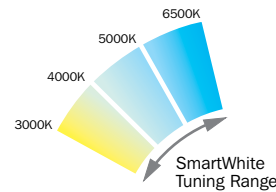
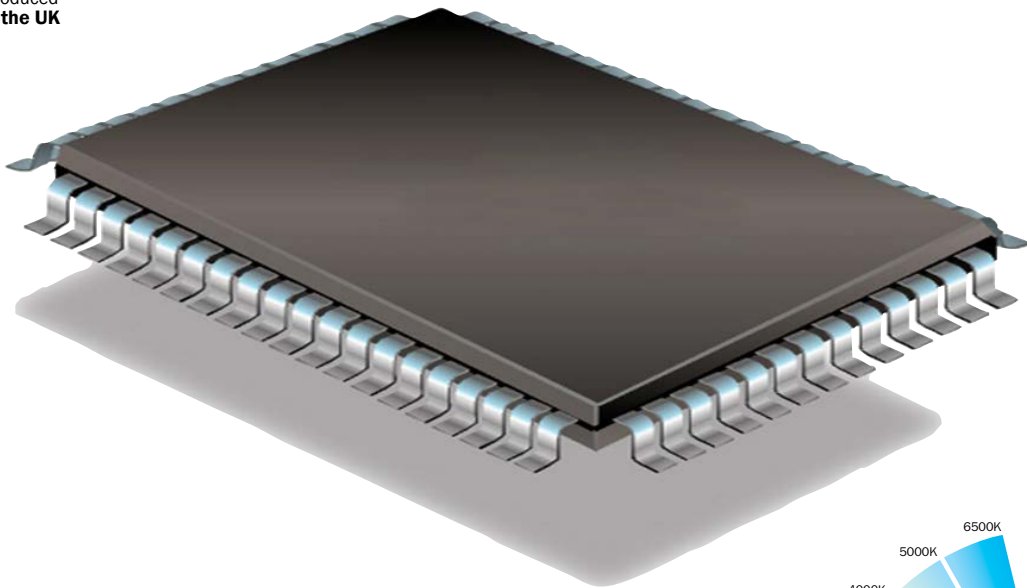




Designed & Produced in the UK



Colourloc™



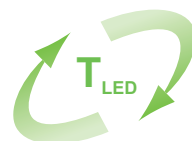
CRIloc™



Lumenloc™



Luxloc™



Thermaloc™

2012 Archive

Specification Range - Smart Engines

- Enclosed data sheets are maintained for reference only
- New range utilises new order codes & nomenclature
- Latest edition offers an extended range of luminaires with a wide choice of more efficient and higher output light engines. This gives the flexibility to match the right aesthetic and mechanical solution to a number of illumination and efficiency possibilities, as well as colour tuneable, high CRI and RGB options

- Find the latest range of downlights here:

<http://www.photonstarlighting.co.uk/products/>



Smart Light Engines

Efficient intelligent light engine with dynamic daylight sensing

Award winning range of intelligent light engines featuring advanced onboard sensors for maximum energy saving.



Luxloc™

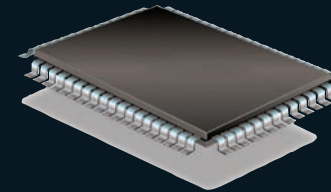
- Luxloc™ integral daylight linking
- Thermaloc™ dynamic thermal protection



Thermaloc™

- Operates standalone or as part of LEDsmart or other control solutions
- Microprocessor based intelligence

- Up to 2499 delivered lumens
- Up to 64.4lm/cW



SmartJupiter 1700

23.3W intelligent LED light engine module for general 32W CFL type applications

Delivered Lumens: 1461lm @ 4000K^B

Luminaire lm/circW: 58lm/circW^B

Typical CRI: Ra 86 @ 4000K

LED Power: 21.7W^C

Mains Power: 23.3 circW^B

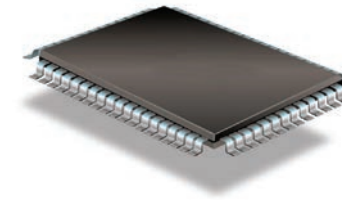
Light Aperture Compatibility: 80mm


LED Type: 12 Cree XPE-HEW/ 12 Lumileds Rebel ES



UK Part
L1 & L2

SJ1-1700



Ordering:	e.g.	Select Fitting + (see fitting page)	Light Engine	Min CRI	Colour Temp
		FITTING CODE	 /SJ1-1700	-80	-40 -27 -30 -65

Drivers: See Driver Controls

Colour Temperature	4000K	2700K*	3000K*	6500K*
Order Code	40	27	30	65
LED Module Luminous Flux	1672lm	1466lm	1571lm	1906lm
Delivered Lumens (L ₁₀₀) ^B	1461lm	1282lm	1374lm	1666lm
Typical CRI (Ra)	Ra 86	Ra 86	Ra 86	Ra 86
CRI shift @ 6000hrs	<3	<3	<3	<3
CCT shift @ 6000hrs	<3	<3	<3	<3
Lifetime (L ₇₀ F ₃₀) ^{AB}	50,000hrs	50,000hrs	50,000hrs	50,000hrs
Lumen Maintenance Category	Cat 1 / Code 9	Cat 1 / Code 9	Cat 1 / Code 9	Cat 1 / Code 9
Module Drive Current	1000mA	1000mA	1000mA	1000mA
LEDs Drive Current	500mA	500mA	500mA	500mA
Emergency Pack BLF	5.5%	5.5%	5.5%	5.5%

^A All data @ 25° ambient

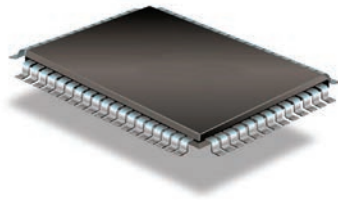
^B In SN-LG fitting with 1000mA 86% efficient driver

^C 1000mA

* To special order minimum quantity

(All values are typical unless stated)

SJ1-2500



SmartJupiter 2500

33.3W intelligent LED light engine module for general 2 x 26W CFL type applications

Delivered Lumens: 2192lm @ 4000K^B

Luminaire lm/circW: 61lm/circW^B

Typical CRI: Ra 86 @ 4000K

LED Power: 31W^C

Mains Power: 33.3 circW^B

Light Aperture Compatibility: 80mm

LED Type: 18 Cree XPE-HEW/ 18 Lumileds Rebel ES



Ordering:	e.g.	Select Fitting + (see fitting page)	Light Engine	Min CRI	Colour Temp
		FITTING CODE	/SJ1-2500	-80	-40 -27 -30 -65

Drivers: See Driver Controls

Colour Temperature	4000K	2700K*	3000K*	6500K*
Order Code	40	27	30	65
LED Module Luminous Flux	2508lm	2200lm	2357lm	2859lm
Delivered Lumens (L ₁₀₀) ^B	2192lm	1923lm	2061lm	2499lm
Typical CRI (Ra)	Ra 86	Ra 86	Ra 86	Ra 86
CRI shift @ 6000hrs	<3	<3	<3	<3
CCT shift @ 6000hrs	3	3	3	3
Lifetime (L ₇₀ F ₁₀) ^{AB}	50,000hrs	50,000hrs	50,000hrs	50,000hrs
Lumen Maintenance Category	Cat 1 / Code 9	Cat 1 / Code 9	Cat 1 / Code 9	Cat 1 / Code 9
Module Drive Current	1000mA	1000mA	1000mA	1000mA
LEDs Drive Current	500mA	500mA	500mA	500mA
Emergency Pack BLF	3.8%	3.8%	3.8%	3.8%

^A All data @ 25° ambient

^B In SN-LG fitting with 1000mA 86% efficient driver

^C 1000mA

* To special order minimum quantity

(All values are typical unless stated)

SmartJupiter 3350

41.3W intelligent LED light engine module for general 2 x 32W CFL type applications

Delivered Lumens: 2923lm @ 4000K^B

Luminaire lm/circW: 68lm/circW^B

Typical CRI: Ra 86 @ 4000K

LED Power: 38.4W^C

Mains Power: 41.3 circW^B

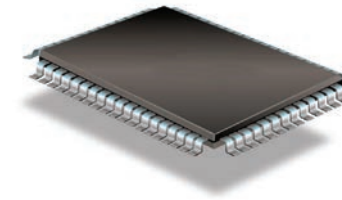
Light Aperture Compatibility: 80mm

LED Type: 24 Cree XPE-HEW/ 24 Lumileds Rebel ES



UK Part
L1 & L2

SJ1-3350



Ordering:	e.g.	Select Fitting + (see fitting page)	Light Engine	Min CRI	Colour Temp
		FITTING CODE	 /SJ1-3350	-80	-40 -27 -30 -65

Drivers: See Driver Controls

Colour Temperature	4000K	2700K*	3000K*	6500K*
Order Code	40	27	30	65
LED Module Luminous Flux	3343lm	2933lm	3143lm	3811lm
Delivered Lumens (L ₁₀₀) ^B	2923lm	2564lm	2747lm	3332lm
Typical CRI (Ra)	Ra 86	Ra 86	Ra 86	Ra 86
CRI shift @ 6000hrs	<3	<3	<3	<3
CCT shift @ 6000hrs	3	3	3	3
Lifetime (L ₇₀ F ₃₀) ^{AB}	50,000hrs	50,000hrs	50,000hrs	50,000hrs
Lumen Maintenance Category	Cat 1 / Code 9	Cat 1 / Code 9	Cat 1 / Code 9	Cat 1 / Code 9
Module Drive Current	1000mA	1000mA	1000mA	1000mA
LEDs Drive Current	500mA	500mA	500mA	500mA
Emergency Pack BLF	3.2%	3.2%	3.2%	3.2%

^A All data @ 25° ambient

^B In SN-LG fitting with 1000mA 86% efficient driver

^C 1000mA

* To special order minimum quantity

(All values are typical unless stated)

SmartWhite Light Engines

Efficient white colour tuneable high CRI light engine

Award winning range of tuneable light engines that can be used in many of our downlight fittings.



Colourloc™

- Greater than 90 CRI across tuning range
- Colour and colour quality locked for life

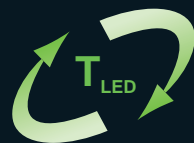


CRIlloc™

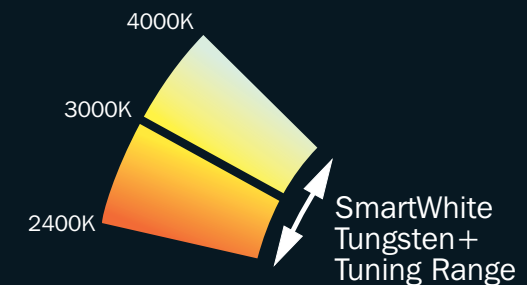
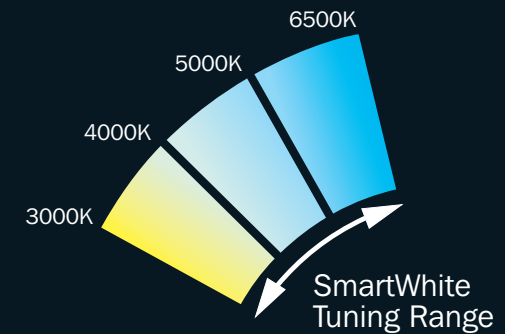
- Can be operated with or without controls system



Lumenloc™



T_{LED}



SmartWhite 730

9W white colour tuneable LED light engine module for compact spot & recessed downlight applications

Delivered Lumens: 550lm @ all CCT^B

Luminaire lm/circW: 55lm/circW^B

Typical CRI: Ra 90 across tuning range

Luminaire Power: 9W^C

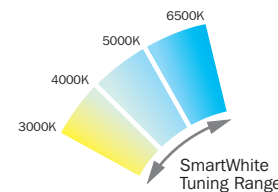
including proprietary LEDSmart driver

Light Aperture Compatibility: 50mm

LED Type: Cree / Lumileds / multiple source proprietary



SW1-730



Ordering:	e.g.	Select Fitting + (see fitting page)	Light Engine	Min CRI	Colour Temp
		FITTING CODE	/SW1-730	-90	-VT

Drivers: See Driver Controls

Colour Temperature	VCCT 3000-6500K
Order Code	VT
LED Module Luminous Flux	730lm
Delivered Lumens (L ₁₀₀) ^B	550lm
Typical CRI (Ra)	Ra 90
CRI shift @ 6000hrs	<3
CCT shift @ 6000hrs	<3
Lifetime (L ₇₀ F ₁₀) ^{AB}	50,000hrs
Lumen Maintenance Category	Cat 1 / Code 9
Module Drive Current Employs proprietary LED driver & controller	24VDC
LEDs Drive Current LED driver current varies subject to CCT however, never exceed quoted value	<500mA
Emergency Pack BLF	N/A

^A All data @ 25° ambient

^B In CS-TT fitting, proprietary SmartWhite controller and 90% efficient constant voltage transformer

^C 500mA

(All values are typical unless stated)



CeilingStar

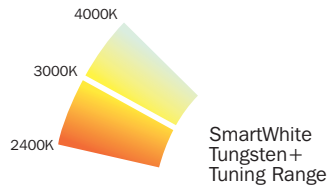


Venturi



Cordus

SW2-720



SmartWhite Tungsten+ 720

9W LED light engine module to emulate tungsten halogen when dimmed

Delivered Lumens: 550lm @ all CCT^B

Luminaire lm/circW: 55lm/circW^B

Typical CRI: Ra 90 across tuning range

Luminaire Power: 9W^C
including proprietary LEDsmart driver

Light Aperture Compatibility: 50mm

LED Type: Cree / Lumileds /
multiple source proprietary



Ordering:	e.g. Select Fitting + (see fitting page)	Light Engine	Min CRI	Colour Temp
	FITTING CODE	/SW2-720	-90	-VT

Drivers: See Driver Controls

Colour Temperature	VCCT 3000-6500K
Order Code	VT
LED Module Luminous Flux	720lm
Delivered Lumens (L ₁₀₀) ^B	550lm
Typical CRI (Ra)	Ra 90
CRI shift @ 6000hrs	<3
CCT shift @ 6000hrs	<3
Lifetime (L ₇₀ F ₁₀) ^{AB}	50,000hrs
Lumen Maintenance Category	Cat 1 / Code 9
Module Drive Current	Employs proprietary LED driver & controller 24VDC
LEDs Drive Current	LED driver current varies subject to CCT however, never exceed quoted value <500mA
Emergency Pack BLF	N/A

^A All data @ 25° ambient

^B In CS-TT fitting, proprietary SmartWhite controller and 90% efficient constant voltage transformer

^C 500mA

(All values are typical unless stated)

SmartWhite 2600

32.7W white colour tuneable LED light engine module for comparable 2 x 26W CFL downlight applications

Delivered Lumens: 2000lm @ all CCT^B

Luminaire lm/circW: 55lm/circW^B

Typical CRI: Ra 90 across tuning range

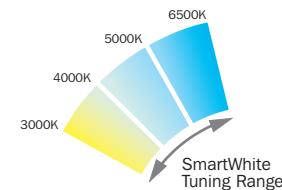
Luminaire Power: 32.7W^C
including proprietary Smart LED driver

Light Aperture Compatibility: 80mm

LED Type: Cree /
Lumileds multiple source proprietary



SW1-2600



Ordering:	e.g.	Select Fitting + (see fitting page)	Light Engine	Min CRI	Colour Temp
		FITTING CODE	/SW1-2600	-90	-VT

Drivers: See Driver Controls

Colour Temperature	VCCT 3000-6500K
Order Code	VT
LED Module Luminous Flux	2635lm
Delivered Lumens (L ₁₀₀) ^B	2000lm
Typical CRI (Ra)	Ra 90
CRI shift @ 6000hrs	<3
CCT shift @ 6000hrs	<3
Lifetime (L ₇₀ F ₁₀) ^{AB}	50,000hrs
Lumen Maintenance Category	Cat 1 / Code 9
Module Drive Current Employs proprietary LED driver & controller	24VDC
LEDs Drive Current LED driver current varies subject to CCT however, never exceed quoted value	<500mA
Emergency Pack BLF	N/A

^A All data @ 25° ambient

^B In NS-LG fitting, proprietary SmartWhite controller and 90% efficient constant voltage transformer

^C 500mA

(All values are typical unless stated)



Nemesis