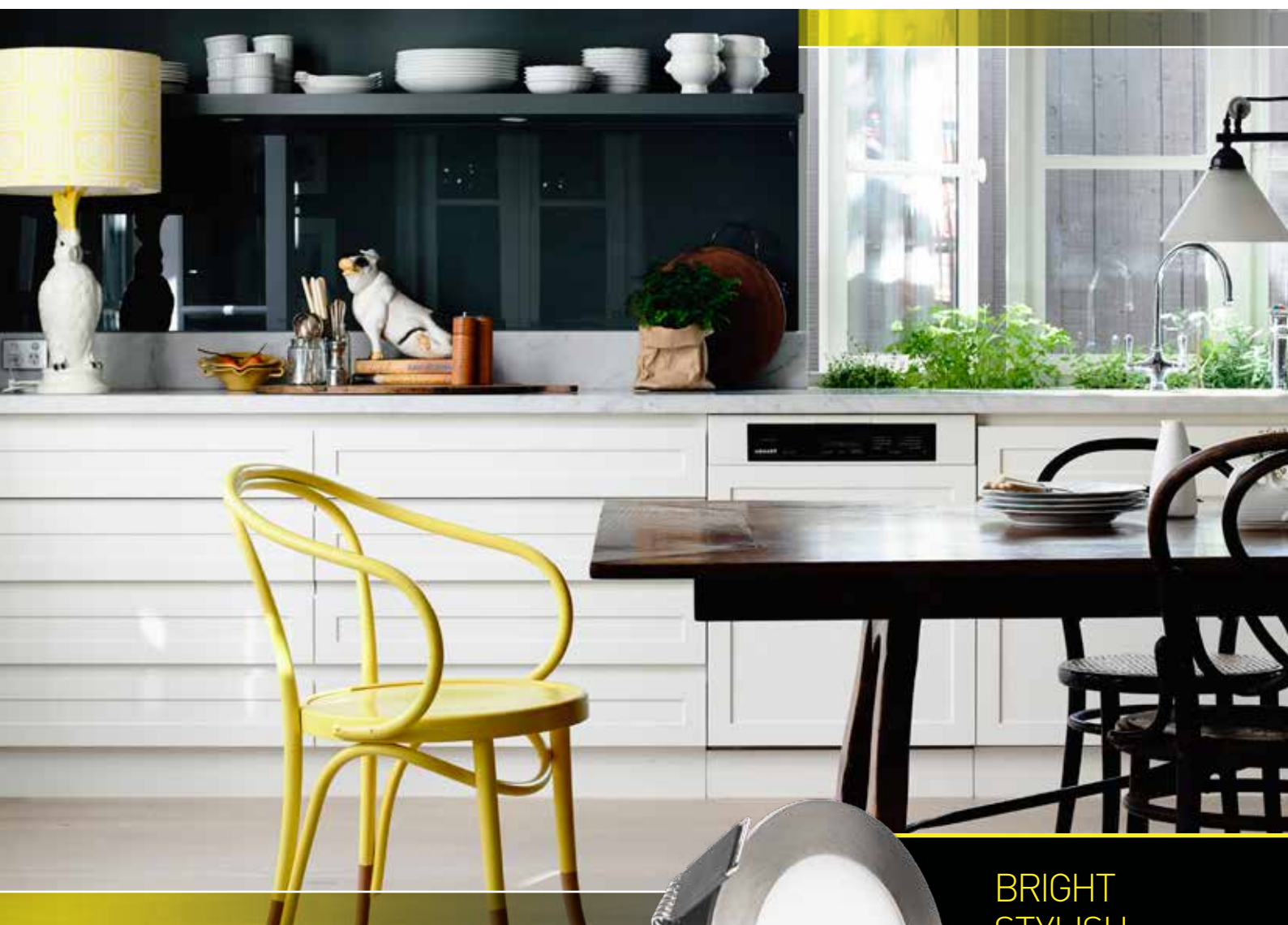


LED LIGHTING



BRIGHT
STYLISH
EFFICIENT





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LED LIGHTING EXPLAINED

LIGHT COLOUR

Expressed in Degrees Kelvin (K), light colours are the key to determining the mood of a room.

 WARM WHITE	DEGREES	2700-3000K
	DESCRIPTION	SOFTER, WARMER LIGHT Comparable to traditional incandescent lighting. Preferred in cooler climates
	ROOM	Bedroom, living room, bathroom, kitchen
 COOL WHITE	DEGREES	4000K
	DESCRIPTION	NEUTRAL LIGHT Used for task lighting and preferred in warmer, tropical climates
	ROOM	Laundry, garage, study, bathroom, kitchen

AVERAGE LAMP LIFE



LED 20,000 HOURS



COMPACT FLUORESCENT
10,000 HOURS



INCANDESCENT
1,000 HOURS

DURABILITY: LEDs are very long-lasting compared to other lighting technologies, with an average 20,000 hours life expectancy. We use quality components which make our lamps even more durable, being laboratory tested and assessed at 30,000 hours life expectancy. That represents approximately 20 years based on 3 to 4 hours usage per day.

DIMMING COMPATIBILITY

Critical to a successful installation is an understanding of LED compatibility with dimmers.

HPM is one of the only major brands on the market to deliver a full solution from dimmers to drivers and LED fixtures. Choose the winning combination of HPM LED fixtures and HPM or Legrand dimmers to ensure superior performance – including smooth dimming with no flickering, reliability and long life.



LIGHT PERFORMANCE

LIGHT OUTPUT	INCANDESCENT	HALOGEN	CFL	LED
220lm	25W	18W	5-7W	3W
420lm	40W	28W	7-8W	4-5W
720lm	60W	42W	11-12W	6-8W
930lm	75W	52W	13-18W	9-13W
1300lm	100W	70W	18-23W	16-20W

LUMINOUS EFFICACY (lm/W)

Picking a lamp fixture based only on wattage or physical size could result in the wrong choice: Wattage (measured in W) represents the power consumed by the luminaire. The actual output of a lamp is measured in lumens (lm): the more lumens, the more light emitted by the luminaire. A smart criteria for determining the efficiency of a light fixture is its lumens/Watt ratio, which represents how much light the fixture delivers versus what it consumes to perform. This value is called luminous efficacy, and proves LED lights are more efficient than other light technologies.

COLOUR RENDERING INDEX (CRI)

CRI measures how well a lamp makes colours appear. CRI scores light sources from 1 – 100: a high CRI means that the eye can pick up slight variations in colour, making details in an interior appear sharper and more vibrant. For outstanding colour rendering, opt for our Dalia series which boasts a very high 92 index.

Our downlights range from 80 to 92, to enhance skin tones, hues and textures in rooms.

BEAM ANGLE

The light effect from a luminaire is determined by its beam angle, That is the shape and direction of light generated by the lamp. Most conventional fixtures deliver a focused light distribution at 35-60° beam angle, but LED technology can go well above those values, while still maintaining a fair pool of light.

Our lights deliver beam angles ranging from 80 to 120° to ensure a beautiful light is spread throughout a room.

OUR QUALITY PROMISE



DIMMING COMPATIBILITY

Yes! Our lights can be dimmed effectively. For optimum dimming performance and to avoid flickering, use HPM or Legrand dimmers. See p.26 for more details



INSULATION RATING

All recessed luminaires included in this brochure have an IC insulation rating. This means insulation may abut or cover the LED luminaire



LED CHIP

We use Citizen LED chips. Citizen is one of the world's leading LED chip manufacturers and are well-known for the quality and longevity of their products



EASY INSTALLATION

We use flex and plug for easy fit-off and designed a handy downlight bracket to enable the driver to sit close to the luminaire for easy access



All our products are assured against insects and moisture, with IP ratings ranging from IP44 to IP65. See IP chart on p.28 for more information

DALIA

DOWNLIGHT SERIES (15W)

Equipped with a Citizen LED chip, these superior downlights are our brightest and deliver exceptional colour rendering, making details in an interior space appear sharper and more vibrant. Dalia is a fusion of craftsmanship, highest-calibre materials and advanced technology. Available in white or polished aluminium.



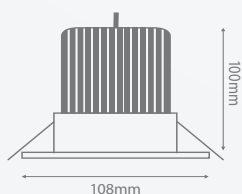
Main applications

Living areas, bedrooms, bathrooms,
outdoor areas (undercover)

With an outstanding 92+ CRI, Dalia
downlights illuminate objects and
surfaces in their true colours



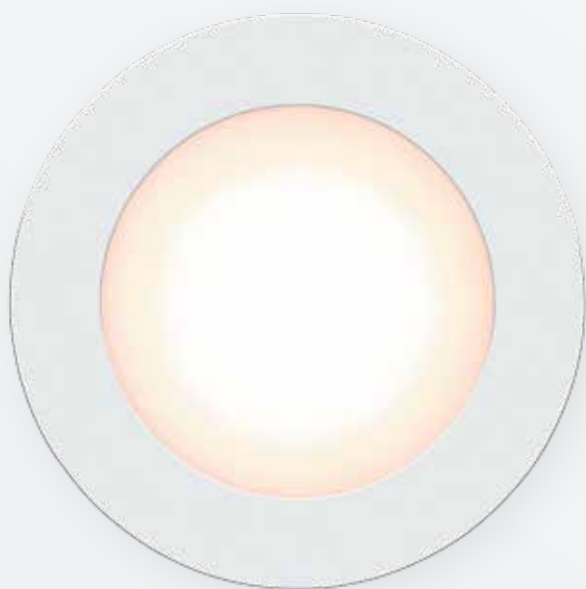
Power	15W	
Lumen output	Warm White	950lm
	Cool White	980lm
Efficacy	Warm White	63lm/W
	Cool White	65lm/W
Colour temperature	Warm White	3,000K
	Cool White	4,000K
CRI	92+	
Dimming	Trailing & leading edge, 2 & 3-wire	
Equivalent to	80W halogen globe and uses up to 81% less energy	
Construction	Corrosion resistant anodised aluminium	
Package contents	Dimmable SELV external LED driver with quick-connect plug and 15W LED sealed fixture	
Product codes	White Fascia	
	Warm White Light	LDL023KWE
	White Fascia	
	Cool White Light	LDL024KWE
	Aluminium Fascia	
	Warm White Light	LDL023KPS
	Aluminium Fascia	
	Cool White Light	LDL024KPS



AZALEA

DOWNLIGHT SERIES (11W)

A marriage of style and function, our Azalea effortlessly achieves optimum lighting performance with impressive economy. With a 48mm depth, it is brilliant for tight ceiling cavities and multi-floor dwellings.



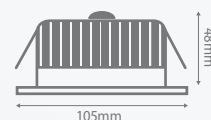
Main applications

Living areas, bedrooms, bathrooms,
outdoor areas (undercover)





Power	11W	
Lumen output	Warm White	800lm
	Cool White	850lm
Efficacy	Warm White	73lm/W
	Cool White	77lm/W
Colour temperature	Warm White	3,000K
	Cool White	4,000K
CRI	80+	
Dimming	Trailing & leading edge, 2 & 3-wire	
Equivalent to	60W halogen globe and uses up to 81% less energy	
Construction	Corrosion resistant anodised aluminium	
Package contents	Dimmable SELV external LED driver with quick-connect plug and 11W LED sealed fixture	
Product codes	White Fascia	
	Warm White Light	LDL013KWE
	White Fascia	
	Cool White Light	LDL014KWE
	Aluminium Fascia	
	Warm White Light	LDL013KPS
	Aluminium Fascia	
	Cool White Light	LDL014KPS



DLS

DOWNLIGHT SERIES (10W)

Behind the stylish facade of white or brushed chrome, the DLS features a frosted recessed diffuser to reduce glare and ensure a perfect light spread across any room. Our vision, improving your vision.



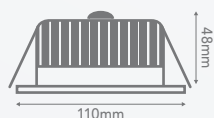
Main applications

Living areas, bedrooms, bathrooms,
outdoor areas (undercover)

Recessed diffuser reduces glare



Power	10W	
Lumen output	Warm White	800lm
	Cool White	830lm
Efficacy	Warm White	80lm/W
	Cool White	83lm/W
Colour temperature	Warm White	3,000K
	Cool White	4,000K
CRI	80+	
Dimming	Trailing edge dimmers only	
Equivalent to	60W halogen globe and uses up to 83% less energy	
Package contents	Dimmable SELV external LED driver with quick-connect plug and 10W LED sealed fixture	
Product codes	White Fascia	
	Warm White Light	DLS9001
	White Fascia	
	Cool White Light	DLS9002
	Brushed Chrome Fascia	
	Warm White Light	DLS9003
	Brushed Chrome Fascia	
	Cool White Light	DLS9004



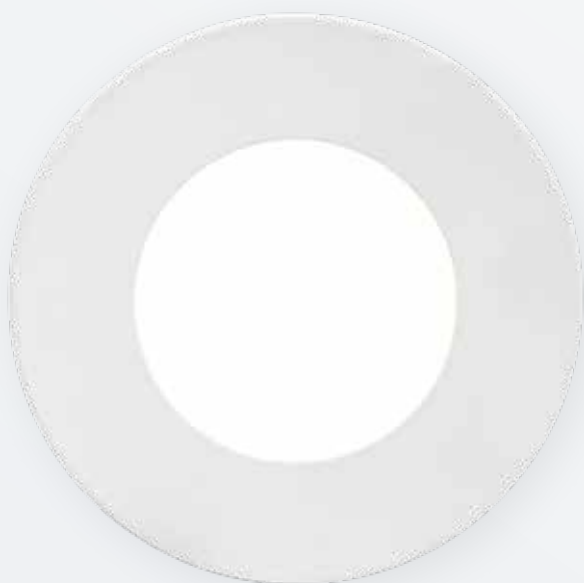
CUT-OUT



FREESIA

DOWNLIGHT SERIES (7W)

The diminutive Freesia series delivers a big performance with a minimal footprint. Available in both white or polished aluminium, it is ideal for retrofitting halogen lights with 70mm hole cut-outs.



Main applications

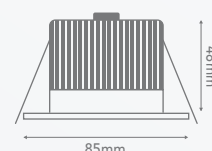
Living areas, bedrooms, bathrooms,
outdoor areas (undercover)

Freesia's 70mm cut-out makes it an ideal
upgrade of fixed halogen downlights





Power	7W	
Lumen output	Warm White	500lm
	Cool White	500lm
Efficacy	Warm White	71lm/W
	Cool White	71lm/W
Colour temperature	Warm White	3,000K
	Cool White	4,000K
CRI	80+	
Dimming	Trailing & leading edge, 2 & 3-wire	
Equivalent to	55W halogen globe and uses up to 85% less energy	
Construction	Corrosion resistant anodised aluminium	
Package contents	Dimmable SELV external LED driver with quick-connect plug and 7W LED sealed fixture	
Product codes	White Fascia	
	Warm White Light	LDL033KWE
	White Fascia	
	Cool White Light	LDL034KWE
	Aluminium Fascia	
	Warm White Light	LDL033KPS
	Aluminium Fascia	
	Cool White Light	LDL034KPS



LUNA

PANEL LIGHT (18W)

Offering the ultimate in discreet lighting, the Luna's slim depth allows it to fit effortlessly into tight ceiling cavities. All the illumination of an oyster light, none of the obtrusiveness.



Main applications

Living areas, bedrooms, bathrooms,
outdoor areas (undercover).
Ideal replacement for oyster lights

Power	18W	
Lumen output	Warm White	1,440lm
	Cool White	1,500lm
Efficacy	Warm White	80 lm/W
	Cool White	83 lm/W
Colour temperature	Warm White	3,000K
	Cool White	4,000K
CRI	80+	
Dimming	Trailing & leading edge, 2 & 3-wire	
Equivalent to	100W halogen globe and uses up to 82% less energy	
Construction	Corrosion resistant anodised aluminium	
Package contents	Dimmable SELV external LED driver with quick-connect plug and 18W LED sealed fixture	
Product code	White Fascia	
	Warm White Light	LPA013KWE
	White Fascia	
	Cool White Light	LPA014KWE



DIAMA

INTERIOR UP/DOWN LIGHT (7.5W)

Transform walls into a visual feast with a Diama fixture. With its unique two-directional light beam, Diama is the perfect light for enhancing architecture.



↑
Light flows both
up and down
↓



TIP

Combine this architectural light with Legrand Arteor switches and sockets to create a genuine feel of interior elegance and refinement

Main applications

Living areas, hallways, entrances

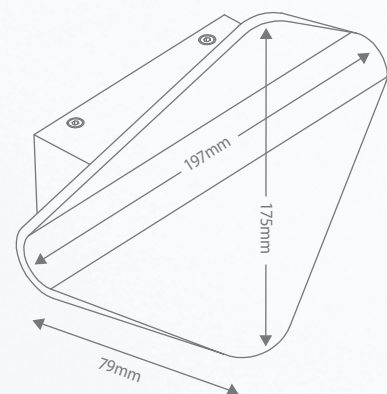
520
LUMENS

UP DOWN
LIGHT BEAM

6 YEAR
WARRANTY

Power	7.5W	
Lumen output	Warm White	520lm
Efficacy	Warm White	69lm/W
Colour temperature	Warm White	3,000K
CRI	80+	
Equivalent to	2x30W halogen globe and uses up to 88% less energy	
Construction	Anodised aluminium with high gloss white finish	
Package contents	7.5W LED up/down light fixture	
Product code	White Finish	
	Warm White Light	LWL033KWE


BEAM
ANGLE 120°



KYRA

EXTERIOR UP/DOWN LIGHT (7.5W)

The multi-talented Kyra represents the ultimate in lighting versatility. Fitted with adjustable panels, Kyra effortlessly oscillates from an uplight to a downlight, or even both. Ideal for highlighting entrances or pillars. Weatherproof rated IP54.



↑
Light can flow
up, down or both
up and down
↓

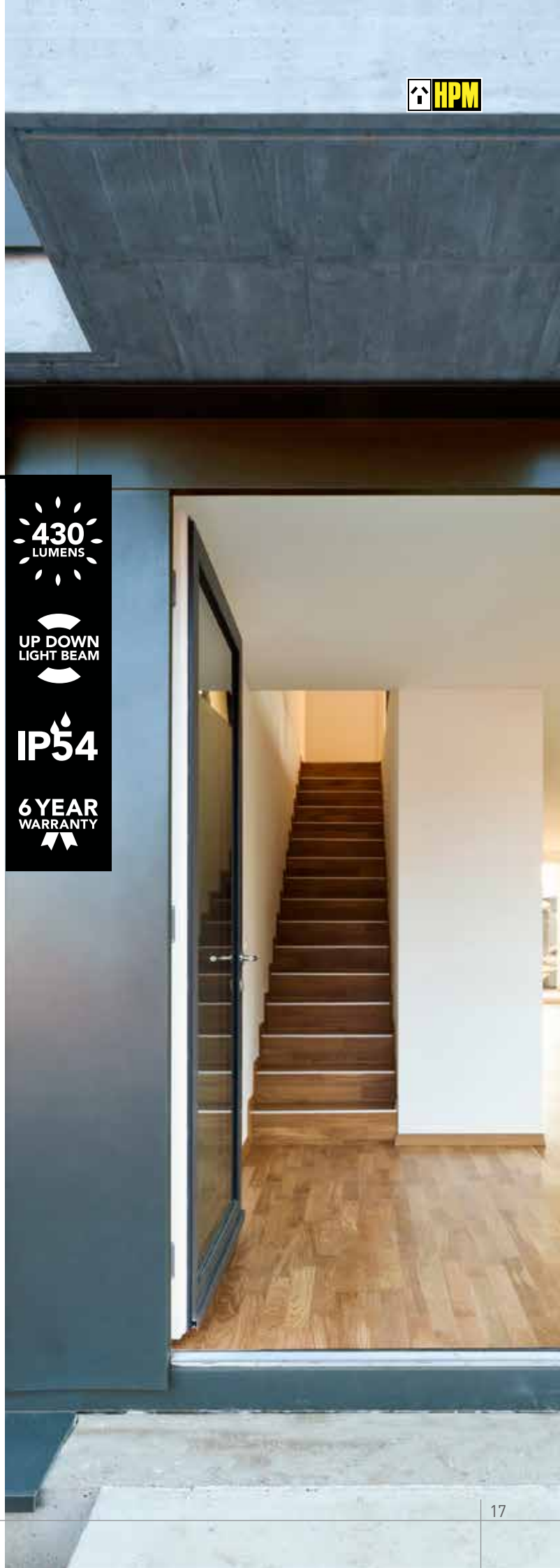
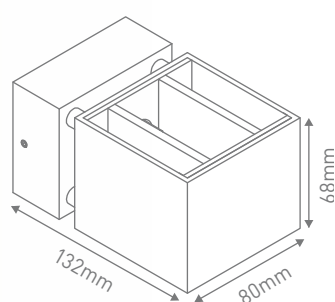
TIP

Use in conjunction with HPM 3-wire sensors to automatically switch on lights when movement is detected

Main applications

Exterior walls, pillars,
front entrances

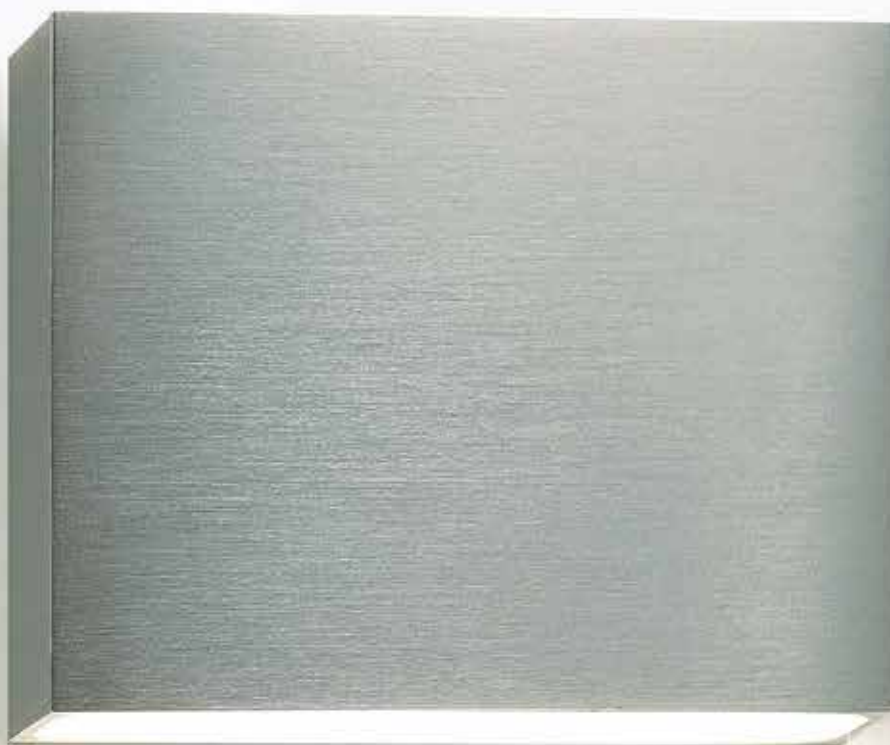
Power	7.5W	
Lumen output	Warm White	430lm
Efficacy	Warm White	57lm/W
Colour temperature	Warm White	3,000K
CRI	80+	
Equivalent to	2x30W halogen globe and uses up to 88% less energy	
Construction	Anodised aluminium	
Package contents	7.5W LED up/down light fixture with allen key for mounting	
Product code	Aluminium Finish Warm White Light	LWL023KPS



PINNA

EXTERIOR UP/DOWN LIGHT (10W)

Slimline, discreet, stylish - the Pinna thrives in outdoor spaces. Utilise its dual-direction beam to foster an atmosphere of blissful tranquillity. Weatherproof rated IP54 and corrosion resistant.



↑
Light flows both
up and down
↓

TIP

Match Pinna with Legrand Soliroc weatherproof switches and sockets for a harmonious outdoor theme

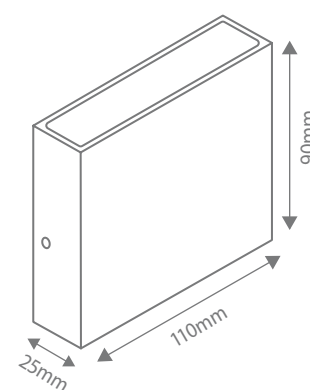
Main applications

Exterior walls, pillars, front entrances and backyard entertainment areas





Power	10W	
Lumen output	Warm White	380lm
Efficacy	Warm White	38lm/W
Colour temperature	Warm White	3,000K
CRI	80+	
Equivalent to	2x35W halogen globe and uses up to 86% less energy	
Construction	Corrosion resistant anodised aluminium	
Package contents	10W LED up/down light fixture with allen key for mounting	
Product code	Aluminium Finish Warm White Light	LWL013KPS



CALLA STEP LIGHTS (2.4W)

Scale the heights of style with Calla step lights, an illuminating choice for stairwells or hallways. Whether indoor or outdoor, the Calla excels with its impressive IP65 weatherproof rating.

Main applications

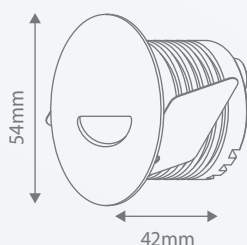
Stairs, hallways, corridors



Use every second or third step, approximately 300-350mm above floor level, for the ultimate light spread



Power	2.4W	
Lumen output	Warm White	24lm
Efficacy	Warm White	10lm/W
Colour temperature	Warm White	3,000K
CRI	80+	
Dimming	Trailing & leading edge, 2 & 3-wire	
Construction	Corrosion resistant anodised aluminium	
Package contents	1 x 2.4W LED step light fixture	
Installation	Must be installed with driver kit LDR02D700/18 (connect up to 6 step lights per driver)	
Product codes	White Finish Warm White Light LST013KWE Aluminium Finish Warm White Light LST013KPS Driver Kit LDR02D700/18	



ZINNIA

STARLIGHTS (2.4W)

A fusion of discretion and efficiency, the Zinnia starlights are an in vogue choice for those with an eye for detail. Whether illuminating under cabinets or wall features, indoors or outdoors, the Zinnia is the epitome of versatile style. Available in white and silver. Weatherproof rated IP65.

Main applications

Under cabinets, alfresco areas, home theatres. Ideal for illuminating features and creating ambience

.....



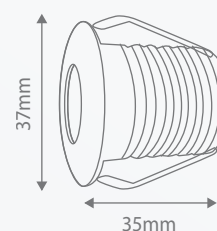
With a slim 35mm depth, Zinnia fits into almost any wall or ceiling cavity

.....





Power	2.4W	
Lumen output	Warm White	95lm
Efficacy	Warm White	39lm/W
Colour temperature	Warm White	3,000K
CRI	80+	
Dimming	Trailing & leading edge, 2 & 3-wire	
Construction	Corrosion resistant anodised aluminium	
Package contents	1 x 2.4W LED starlight fixture	
Installation	Must be installed with driver kit LDR02D700/18 (connect up to 6 starlights per driver)	
Product code	White Finish Warm White Light LST023KWE Aluminium Finish Warm White Light LST023KPS Driver Kit LDR02D700/18	



RIBA STRIPLIGHT

Where other lights fear to tread the Riba calls home.
Whatever your lighting challenge the Riba is equipped to
match it - and always with style to spare. Be it a confined
space or delicate mood lighting, satisfaction is assured.



Main applications

Under cabinets,
entertaining areas,
kitchens, home theatres

Power	7.2W	
Lumen output	Warm White	600lm
Efficacy	Warm White	50lm/W
Colour temperature	Warm White	3,000K
CRI	80+	
Package contents	LDR01N700/36: 1m LED strip 7.2W & plug-in 36W transformer LSL013K: 1m LED strip with quick-connector	
Installation	Starter kit (cat no LDR01N700/36) contains plug-in transformer with 1m LED strip. Additional inter-connectible 1m LED strips available (cat no LSL013K). Connect up to 5m of LED strips on one transformer	
Product codes	LED striplight (1m) and transformer LDR01N700/36 LED striplight (1m) and quick-connector LSL013K	

600
LUMENS

**QUICK
CONNECT
UP TO
5M**

**3 YEAR
WARRANTY**

DIMMER COMPATIBILITY

LED FIXTURE RANGE	DIMMER TYPE	DIMMERS COMPATIBILITY	MAXIMUM LIGHTS PER DIMMER	DIMMING RANGE
Dalia Downlights Azalea Downlights Freesia Downlights Luna Panel Lights Calla Step Lights Zinnia Starlights	Trailing edge & leading edge	EM400A3P	8	100%-5%
		EM250T	5	100%-10%
		EM400T	8	100%-10%
		AR400T / AR400L	8	100%-10%
		AR400A3P	8	100%-5%
		250T / 250L	5	100%-10%
		400T / 400L	8	100%-10%
		700T / 700L	14	100%-25%
		1000T / 1000L	20	100%-25%
DLS Downlights	Trailing edge only	EM400A3P	8	100%-10%
		EM250T	5	100%-10%
		EM400T	8	100%-10%
		AR400T	8	100%-10%
		AR400A3P	8	100%-10%
		250T	5	100%-10%
		400T	8	100%-10%
		700T	14	100%-25%
		1000T	20	100%-25%

ACCESSORIES

DOWNLIGHT COMPATIBILITY		
CAT No: LDLBRACKET › Speeds your fit-off and makes it neat, tidy and easily accessible › Enables the driver to sit close to the luminaire for easy access, rather than mounted on a joist or sitting loose › Enables the driver to sit above insulation material › Ideal for hard-wired installations	Dalia Azalea Freesia	



Legrand Excel Life



Legrand Arteor



HPM Linea and Excel

LEGRAND EXCEL LIFE



EM400A3P (3-wire)
EM400A2P (2-wire)
Excel Life 400VA all load
2 & 3-wire electronic
push-button dimmer
mechanism

White:
EM400A3PWE
EM400A2PWE
Urban Grey:
EM400A3PUG
EM400A2PUG



EM250T*
Excel Life 250VA 2-wire
trailing edge rotary
dimmer mechanism

White:
EM250TRWE
Urban Grey:
EM250TRUG



EM400T*
Excel Life 400VA 2-wire
trailing edge rotary
dimmer mechanism

White:
EM400TRWE
Urban Grey:
EM400TRUG



AR400A3P (3-wire)
AR400A2P (2-wire)
Arteor 400VA all load 2
& 3-wire push-button
dimmer mechanism

White:
AR400A3PMWE
AR400A2PMWE
Magnesium:
AR400A3PMMGN
AR400A2PMMGN



AR400T / AR400L*
Arteor 400VA 2-wire
rotary dimmer
mechanism

White:
AR400TMWE
AR400LMWE
Magnesium:
AR400TMMGN
AR400LMMGN



450PM (3-wire)
400A2P (2-wire)
Excel or Linea 450VA
(3-wire) and 400VA
(2-wire) electronic
push-button dimmer
mechanism

White: 450PMWE
400A2PWE
450PM also available
in black, black matt
silver, white matt
silver & cream



250T / 250L*
Excel or Linea 250VA
2-wire rotary dimmer
mechanism

White: 250LMWE
250TMWE
Also available in black
& cream



400T / 400L*
Excel or Linea 400VA
2-wire rotary dimmer
mechanism

White: 400TMWE
400LMWE
Also available in black
& cream



700T / 700L*
Excel or Linea 700VA
2-wire rotary dimmer
mechanism

White: 700TMWE
700LMWE



1000T / 1000L*
Excel or Linea 1000VA
2-wire rotary dimmer
mechanism

White: 1000TMWE
1000LMWE

*T = Trailing Edge, L = Leading Edge

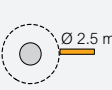
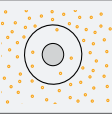
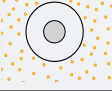
INDEX OF PROTECTION

1. Protection against solid bodies and liquids: IP index of protection

Degrees of protection for enclosures of electrical equipment according to standards:
IEC 60529, BS EN 60529 and NF EN 60529

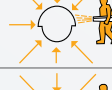
1st digit:

protection against solid bodies
(See AS 1939, Clause 5)

IP	Tests	IP
0	No protection	
1	 Ø 50 mm Protected against solid bodies larger than 50 mm (e.g. accidental contact with the hand)	A
2	 Ø 12.5 mm Protected against solid bodies larger than 12.5 mm (e.g. finger)	B
3	 Ø 2.5 mm Protected against solid bodies larger than 2.5 mm (e.g. tools, wires)	C
4	 Ø 1 mm Protected against solid bodies larger than 1 mm (e.g. fine tools and small wires)	
5	 Protected against dust (no harmful deposit)	D
6	 Completely protected against dust	

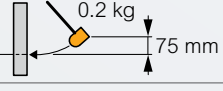
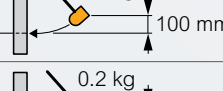
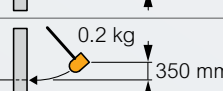
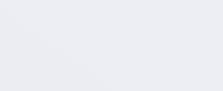
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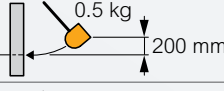
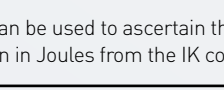
protection of equipment against ingress of harmful liquids
(See AS 1939, Clause 6)

IP	Tests	IP
0	No protection	
1	 Protected against vertically-falling drops of water (condensation)	
2	 15° Protected against drops of water falling at up to 15° from the vertical	
3	 60° Protected against drops of rain water at up to 60° from the vertical	
4	 Protected against projections of water from all directions	
5	 Protected against jets of water (from all directions)	
6	 Protected against jets of water of similar force to heavy seas	
7	 1 m Protected against the effects of immersion	
8	 15 cm mini Protected against prolonged effects of immersion	

2. Protection IK, against mechanical impact.

According to standards: IEC 62262, BS EN 62262 and NF EN 62262

IK	Tests	Impact energy (in Joules)
IK 00		0
IK 01	 0.2 kg 75 mm 0.15	0.15
IK 02	 0.2 kg 100 mm 0.2	0.2
IK 03	 0.2 kg 175 mm 0.35	0.35
IK 04	 0.2 kg 250 mm 0.5	0.5
IK 05	 0.2 kg 350 mm 0.7	0.7

IK	Tests	Impact energy (in Joules)
IK 06	 0.5 kg 200 mm 1	1
IK 07	 0.5 kg 400 mm 2	2
IK 08	 1.7 kg 295 mm 5	5
IK 09	 5 kg 200 mm 10	10
IK 10	 5 kg 400 mm 20	20

• This table can be used to ascertain the resistance of a product to an impact given in Joules from the IK code (graduated from 00 to 10)



HPM Legrand Australia

Building 4 Nexus Industry Park
43-47 Lyn Pde Prestons NSW 2170

☎ 1300 369 777
www.hpm.com.au

HPM Legrand New Zealand

106-124 Target Road Glenfield
Auckland 0627 New Zealand

☎ 0800 476 009
www.hpm.co.nz