



A brand of  **legrand**

# LED LIGHTING



**BRIGHT  
STYLISH  
EFFICIENT**

**2018 - EDITION 5**



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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.

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

## AVERAGE LAMP LIFE

LED 30,000 HOURS	COMPACT FLUORESCENT 10,000 HOURS	INCANDESCENT 1,000 HOURS
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**DURABILITY:** LEDs are very long-lasting compared to other lighting technologies, with an average 30,000 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
220 lm	25W	18W	5-7W	3W
420 lm	40W	28W	7-8W	4-5W
720 lm	60W	42W	11-12W	6-8W
930 lm	75W	52W	13-18W	9-13W
1300 lm	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

Many of our lights are capable of being dimmed effectively. For optimum dimming performance and to reduce flickering, use HPM or Legrand dimmers. See pages 102-103 for more details.



### INSULATION RATING

All recessed luminaires included in this brochure have an insulation rating of IC, IC-F, IC-4, CA80 and CA90. This means insulation may abut or cover the LED luminaire.



### NATA ACCREDITED LABORATORY

To ensure the highest possible quality assurance standards all HPM lighting fixtures and lamps are tested in our NATA accredited laboratory in Sydney.



### IP RATING

All our products are assured against insects and moisture, with IP ratings ranging from IP42 to IP65. See IP chart on page 105 for more information.

# LED LIGHTING FIXTURES



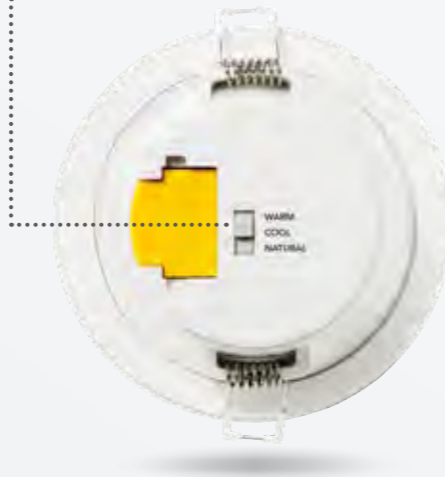
**NEW**

# DLI DOWNLIGHT WITH LIGHT COLOUR SELECTOR SWITCH (7W - 10W)

The functional design and classic finish of the DLI adds a touch of contemporary lighting. The DLI is ideal for all rooms in the house. At only 7W to 10W the DLI with colour changing switch delivers one product with three colours - Warm White, Cool White and Natural White.



**TIP**  
Light Colour Selector



**TIP**  
Recessed diffuser reduces glare



DLI90 SERIES



DLI110 SERIES

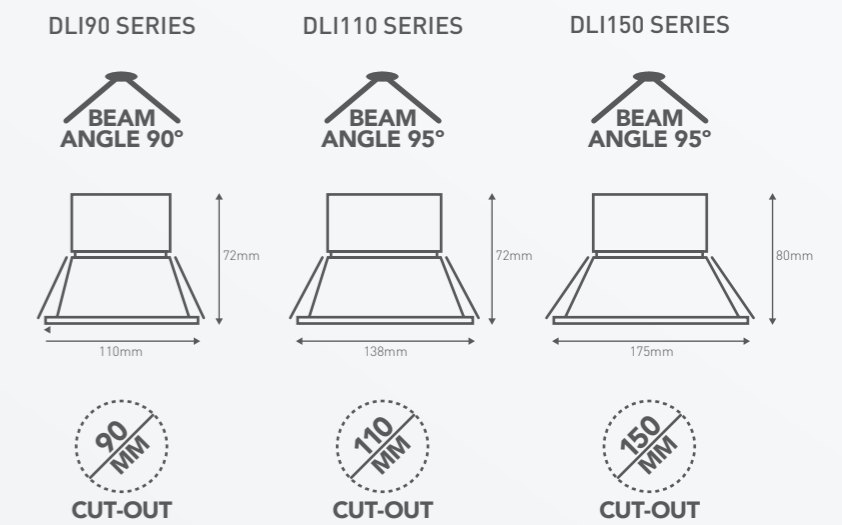


DLI150 SERIES

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Power	7W	7W	10W	
<b>Lumen output</b>	<b>90mm</b>	<b>110mm</b>	<b>150mm</b>	
	Warm White	680 lm	690 lm	1000 lm
	Cool White	730 lm	740 lm	1100 lm
	Natural White	680 lm	690 lm	1000 lm
<b>Efficacy</b>	<b>90mm</b>	<b>110mm</b>	<b>150mm</b>	
	Warm White	97 lm/W	98 lm/W	100 lm/W
	Cool White	104 lm/W	104 lm/W	110 lm/W
	Natural White	97 lm/W	98 lm/W	100 lm/W
<b>Colour temperature</b>	Warm White	3,000K		
	Cool White	4,000K		
<b>CRI</b>	80+			
<b>Insulation rating</b>	IC-4 and IC-F			
<b>Dimming</b>	Trailing edge dimmers			
<b>Lifespan</b>	35,000 h			
<b>Package contents</b>	7W to 10W dimmable downlight with integrated driver. Supplied with flex and plug			

Product codes	Ø90mm cut-out	Ø110mm cut-out	Ø150mm cut-out
	White Fascia	White Fascia	White Fascia
	Warm White, Cool White and Natural White Light	Warm White, Cool White and Natural White Light	Warm White, Cool White and Natural White Light
	<b>DLI90TRIWE</b>	<b>DLI110TRIWE</b>	<b>DLI150TRIWE</b>



# DLI TILT DOWNLIGHT 7W

**NEW**

The same classic and contemporary downlight, but with an adjustable head, the DLI TILT Downlight is dimmable, available in a warm white, and is perfect for enhancing walls or feature items in the home by simply tilting the downlight towards the desired object.



**Main applications**

Living areas, bedrooms, bathrooms, & undercover outdoor areas



**TIP**

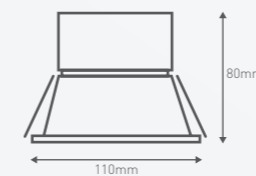
Adjustable head - 30° angle  
Ideal for sloped ceilings

DLI90 SERIES

<b>Power</b>	7W	
<b>Lumen output</b>	<b>90mm</b>	
	Warm White	720 lm
	Cool White	760 lm
<b>Efficacy</b>	<b>90mm</b>	
	Warm White	100 lm/W
	Cool White	108 lm/W
<b>Colour temperature</b>	Warm White	3,000K
	Cool White	4,000K
<b>CRI</b>	80+	
<b>Insulation rating</b>	IC	
<b>Dimming</b>	Trailing edge dimmers	
<b>Lifespan</b>	35,000 h	
<b>Package contents</b>	7W dimmable downlight with integrated driver. Supplied with flex and plug	
<b>Product codes</b>	<b>Ø90mm cut-out</b>	
	White Fascia	
	Warm White Light	<b>DLI903KTILTWE</b>
	Cool White Light	<b>DLI904KTILTWE</b>



**DLI90 SERIES**



**ADJUSTABLE HEAD ANGLE 30°**



# DLI DOWNLIGHT SERIES (5W TO 7W)

The functional design and classic finish of the DLI adds a touch of contemporary lighting. The DLI is ideal for all rooms in the house. At only 5W to 7W the DLI delivers maximum brightness with limited power consumption.



### Main applications

Living areas, bedrooms, bathrooms, & undercover outdoor areas

### TIP

Sleek, shiny black finish adds sophistication

**NEW**



DLI70 SERIES



DLI90 SERIES



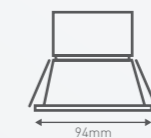
DLI125 SERIES



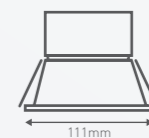
Power	5W	7W	7W
Lumen output	70mm	90mm	125mm
	Warm White Cool White	505 lm 515 lm	700 lm 820 lm
Efficacy	70mm	90mm	125mm
	Warm White Cool White	101 lm/W 103 lm/W	100 lm/W 117 lm/W
Colour temperature	Warm White Cool White		3,000K 4,000K
CRI	80+		
Insulation rating	IC-4 and IC-F		
Dimming	Trailing edge dimmers		
Lifespan	35,000 h		
Package contents	5W to 7W dimmable downlight with integrated driver. Supplied with flex and plug		

Product codes	Product codes
<b>Ø70mm cut-out</b>	
White Fascia	
Warm White Light	DLI7001
Cool White Light	DLI7002
Brushed Chrome Fascia	
Warm White Light	DLI7003
Cool White Light	DLI7004
Black Fascia	
Warm White Light	DLI7003BL
Cool White Light	DLI7004BL
<b>Ø90mm cut-out</b>	
White Fascia	
Warm White Light	DLI9001
Cool White Light	DLI9002
Brushed Chrome Fascia	
Warm White Light	DLI9003
Cool White Light	DLI9004
Black Fascia	
Warm White Light	DLI9003BL
Cool White Light	DLI9004BL
<b>Ø125mm cut-out</b>	
White Fascia	
Warm White Light	DLI12501
Cool White Light	DLI12502

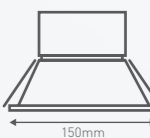
DLI70 SERIES



DLI90 SERIES



DLI125 SERIES



# DLI DOWNLIGHT NON-DIMMABLE SERIES (5W TO 7W)

**NEW**

The functional design and classic finish of the DLI adds a touch of contemporary lighting. The DLI is ideal for all rooms in the house where basic lighting function is needed. At only 5W to 7W the DLI delivers maximum brightness with limited power consumption.



**Main applications**

Living areas, bedrooms, bathrooms, & undercover outdoor areas

**TIP**

Recessed diffuser reduces glare



DLI70 SERIES



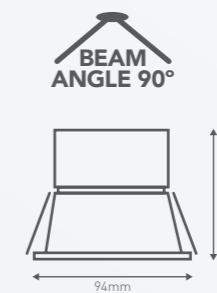
DLI90 SERIES



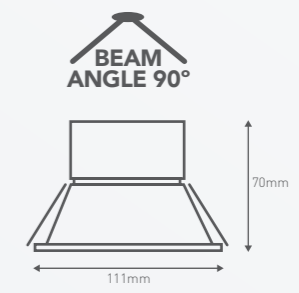
<b>Power</b>		5W	7W
<b>Lumen output</b>	Warm White	<b>70mm</b> 480 lm	<b>90mm</b> 740 lm
	Cool White	505 lm	815 lm
<b>Efficacy</b>	Warm White	<b>70mm</b> 96 lm/W	<b>90mm</b> 105 lm/W
	Cool White	101 lm/W	116 lm/W
<b>Colour temperature</b>	Warm White		3,000K
	Cool White		4,000K
<b>CRI</b>		80+	
<b>Insulation rating</b>		IC-4 and IC-F	
<b>Dimming</b>		No	
<b>Lifespan</b>		30,000 h	
<b>Package contents</b>		5W to 7W non-dimmable downlight. Flex and plug not supplied.	

<b>Product codes</b>	<b>Ø70mm cut-out</b>	
	White Fascia	
	Warm White Light	<b>DLI7005</b>
	Cool White Light	<b>DLI7006</b>
	Brushed Chrome Fascia	
	Warm White Light	<b>DLI7007</b>
	Cool White Light	<b>DLI7008</b>
	<b>Ø90mm cut-out</b>	
	White Fascia	
	Warm White Light	<b>DLI9005</b>
	Cool White Light	<b>DLI9006</b>
	Brushed Chrome Fascia	
	Warm White Light	<b>DLI9007</b>
	Cool White Light	<b>DLI9008</b>

DLI70 SERIES



DLI90 SERIES





# AZA+ DOWNLIGHT SERIES (8W)

The AZA+ sits flush with the ceiling blending seamlessly with any décor and provides bright and energy saving illumination.



**NEW**

**Main applications**

Living areas, bedrooms, bathrooms, & undercover outdoor areas



**TIP**

At only 65mm depth, AZA+ downlights will fit in most ceiling cavities

<b>Power</b>	8W	
<b>Lumen output</b>	Warm White	750 lm
	Cool White	820 lm
<b>Efficacy</b>	Warm White	93 lm/W
	Cool White	102 lm/W
<b>Colour temperature</b>	Warm White	3,000K
	Cool White	4,000K
<b>CRI</b>	80+	
<b>Insulation rating</b>	IC-4 and IC-F	
<b>Dimming</b>	Trailing edge dimmers	
<b>Lifespan</b>	35,000 h	
<b>Package contents</b>	8W dimmable downlight with integrated driver. Supplied with flex and plug	
<b>Product codes</b>	White Fascia Warm White Light	<b>LDL043KWE</b>
	White Fascia Cool White Light	<b>LDL044KWE</b>
	Polished Silver Fascia Warm White Light	<b>LDL043KPS</b>
	Polished Silver Fascia Cool White Light	<b>LDL044KPS</b>

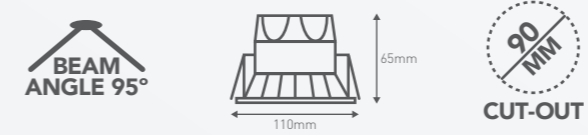
UP TO  
**820**  
LUMENS

IC-4  
INSULATION RATING

**IC-F**  
ABUTTED &  
COVERED

**IP44**  
WEATHERPROOF

**3 YEAR**  
WARRANTY



# 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

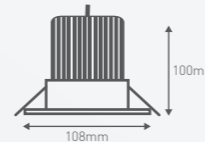
Living areas, bedrooms, bathrooms, & undercover outdoor areas

#### TIP

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



<b>Power</b>	15W	
<b>Lumen output</b>	Warm White	950 lm
	Cool White	980 lm
<b>Efficacy</b>	Warm White	63 lm/W
	Cool White	65 lm/W
<b>Colour temperature</b>	Warm White	3,000K
	Cool White	4,000K
<b>CRI</b>	80+	
<b>Insulation rating</b>	IC	
<b>Dimming</b>	Trailing & leading edge, 2 & 3 wire	
<b>Lifespan</b>	30,000 h	
<b>Construction</b>	Corrosion resistant anodised aluminium	
<b>Package contents</b>	Dimmable SELV external LED driver and 15W LED sealed fixture. Supplied with flex and plug	
<b>Product codes</b>	White Fascia	
	Warm White Light	<b>LDL023KWE</b>
	White Fascia	
	Cool White Light	<b>LDL024KWE</b>
	Aluminium Fascia	
	Warm White Light	<b>LDL023KPS</b>
	Aluminium Fascia	
	Cool White Light	<b>LDL024KPS</b>



# AZALEA DOWNLIGHT SERIES (9W)

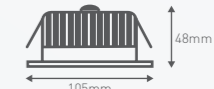
A marriage of style and function, our Azalea effortlessly achieves optimum lighting performance with impressive economy. With a 48mm depth, it is brilliant for tight ceiling cavities and multi-floor dwellings.

### Main applications

Living areas, bedrooms, bathrooms, & undercover outdoor areas



<b>Power</b>	11W	
<b>Lumen output</b>	Warm White	880 lm
	Cool White	890 lm
<b>Efficacy</b>	Warm White	98 lm/W
	Cool White	99 lm/W
<b>Colour temperature</b>	Warm White	3,000K
	Cool White	4,000K
<b>CRI</b>	80+	
<b>Insulation rating</b>	IC-4 and IC-F	
<b>Dimming</b>	Trailing & leading edge, 2 & 3 wire	
<b>Lifespan</b>	30,000 h	
<b>Construction</b>	Aluminium	
<b>Package contents</b>	Dimmable SELV external LED driver and 11W LED sealed fixture. Supplied with flex and plug	
<b>Product codes</b>	White Fascia Warm White Light	<b>LDL013KWE</b>
	White Fascia Cool White Light	<b>LDL014KWE</b>
	Aluminium Fascia Warm White Light	<b>LDL013KPS</b>
	Aluminium Fascia Cool White Light	<b>LDL014KPS</b>



# DLS DOWNLIGHT SERIES (10W)

Behind the stylish façade 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

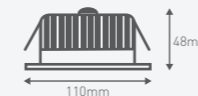
Living areas, bedrooms, bathrooms, & undercover outdoor areas



### TIP

Recessed diffuser reduces glare

<b>Power</b>	10W	
<b>Lumen output</b>	Warm White	830 lm
	Cool White	835 lm
<b>Efficacy</b>	Warm White	83 lm/W
	Cool White	83.5 lm/W
<b>Colour temperature</b>	Warm White	3,000K
	Cool White	4,000K
<b>CRI</b>	80+	
<b>Insulation rating</b>	IC-4 and IC-F	
<b>Dimming</b>	Trailing edge dimmers	
<b>Lifespan</b>	30,000 h	
<b>Package contents</b>	Dimmable SELV external LED driver with quick-connect plug and 10W LED sealed fixture. Supplied with flex and plug	
<b>Product codes</b>	White Fascia Warm White Light	<b>DLS9001</b>
	White Fascia Cool White Light	<b>DLS9002</b>
	Brushed Chrome Fascia Warm White Light	<b>DLS9003</b>
	Brushed Chrome Fascia Cool White Light	<b>DLS9004</b>



# 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, & undercover outdoor areas



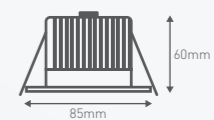
### TIP

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



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<b>Power</b>	9W	
<b>Lumen output</b>	Warm White	600 lm
	Cool White	620 lm
<b>Efficacy</b>	Warm White	67 lm/W
	Cool White	69 lm/W
<b>Colour temperature</b>	Warm White	3,000K
	Cool White	4,000K
<b>CRI</b>	80+	
<b>Insulation rating</b>	IC-4 and IC-F	
<b>Dimming</b>	Trailing & leading edge, 2 & 3 wire	
<b>Lifespan</b>	30,000 h	
<b>Construction</b>	Aluminium	
<b>Package contents</b>	Dimmable SELV external LED driver and 9W LED sealed fixture. Supplied with flex and plug	
<b>Product codes</b>	White Fascia	
	Warm White Light	<b>LDL033KWE</b>
	White Fascia	
	Cool White Light	<b>LDL034KWE</b>
	Aluminium Fascia	
	Warm White Light	<b>LDL033KPS</b>
	Aluminium Fascia	
	Cool White Light	<b>LDL034KPS</b>



# MR16

RETROFIT DOWNLIGHT SERIES (7W TO 9W)

This patented energy efficient MR16 retrofit LED downlight has been designed as a DIY upgrade to existing MR16 halogen downlights. Compatible with all leading brands of transformers on the market, choose this simple and safe solution for great light output and energy saving.

**Main applications**

DIY Replacement of existing halogen MR16 downlights.

**TIP**

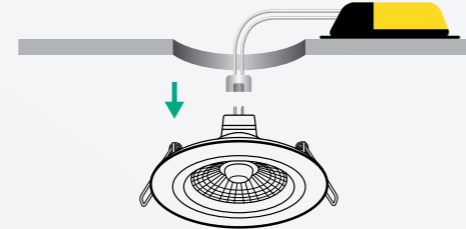
Compatible with all leading brands of transformers on the market



Install it yourself in **3** easy steps.

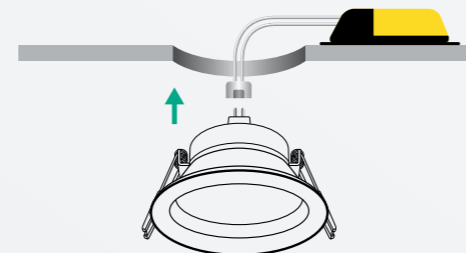
**1. Remove.**

Unplug and remove existing MR16 halogen downlight.



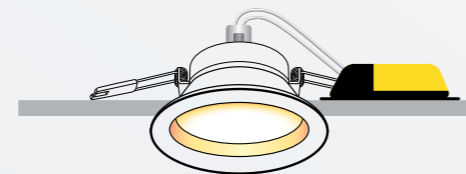
**2. Replace.**

Plug-in your new HPM MR16 LED downlight and install back into ceiling.



**3. Ready.**

Enjoy great light output, sleek design and up to 80% energy saving.



<b>Power</b>		7W	9W
<b>Lumen output</b>	Warm White	550 lm	710 lm
	Cool White	590 lm	770 lm
<b>Efficacy</b>	Warm White	78 lm/W	78 lm/W
	Cool White	84 lm/W	85 lm/W
<b>Colour temperature</b>	Warm White		3,000K
	Cool White		4,000K
<b>Insulation rating</b>	Ø90mm 9W IC abutted & covered Ø70mm 7W CA80 & CA90 abutted only		
<b>CRI</b>	80+		
<b>Lifespan</b>	35,000 h		
<b>Package contents</b>	MR16 LED downlight		
<b>Product codes</b>	<b>Ø70mm cut-out 7W</b>		
	White Fascia		
	Warm White Light	<b>LMR16703KWE</b>	
	Cool White Light	<b>LMR16704KWE</b>	
<b>Product codes</b>	<b>Ø90mm cut-out 9W</b>		
	White Fascia		
	Warm White Light	<b>LMR16903KWE</b>	
	Cool White Light	<b>LMR16904KWE</b>	

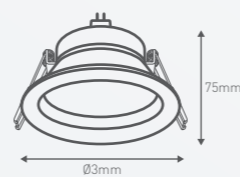
UP TO  
**770**  
LUMENS

**D.I.Y.**  
INSTALL IT  
YOURSELF

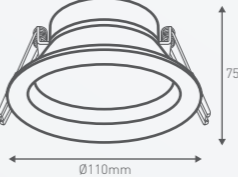
**IP44**  
WEATHERPROOF

**3 YEAR**  
WARRANTY

DLI70 SERIES



DLI90 SERIES



# DIMMER COMPATIBILITY

LED FIXTURE RANGE	DIMMER TYPE	DIMMERS COMPATIBILITY	MAXIMUM LIGHTS PER DIMMER	DIMMING RANGE
DLI70 Downlights	Trailing edge only	400A3P	16	100%-1%
		400A2P	16	89%-7%
		250T	11	100%-7%
		400T	16	94%-8%
		700T	28	100%-15%
		1000T	40	100%-18%
AZA+ Downlights DLI90, DLI110, DLI125 & DLI150 Downlights	Trailing edge only	400A3P	12	100%-1%
		400A2P	12	97%-9%
		250T	8	100%-7%
		400T	12	100%-7%
		700T	21	100%-13%
Dalia Downlights Azalea Downlights Freesia Downlights Luna Panel Lights Calla Step Lights Zinnia Starlights	Trailing edge & leading edge	400A3P	8	100%-5%
		400A2P	8	100%-10%
		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	400A3P	8	100%-10%
		400A2P	8	100%-10%
		250T	5	100%-10%
		400T	8	100%-10%
		700T	14	100%-25%
		1000T	20	100%-25%

**Note:** Not all LED lights are dimmable, refer to product details to confirm suitability for dimming.



**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



**LEGRAND ARTEOR™**



**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



**HPM LINEA™ AND EXCEL**



**400A2P (2 wire)**  
Excel or Linea and 400VA (2 wire) electronic push-button dimmer mechanism  
**White:** 400A2PWE



**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



**VIVO™**



**EVM400A3\* (3 wire)**  
**EVM400A2\* (2 wire)**  
VIVO 400VA all load 2 & 3 wire electronic push button dimmer mechanism  
**White:** EVM400A3WE,  
EVM400A2WE  
**Grey:** EVM400A3GR,  
EVM400A2GR

\*T = Trailing Edge, L = Leading Edge

# ACCESSORIES

## DOWNLIGHT EXTENSION PLATES

Cat No.	Image	Description
LEP120WE		Suitable for hole cut-outs up to Ø120mm
LEP150WE		Suitable for hole cut-outs up to Ø150mm

Suitable for: DLI90, AZA+, Dalia, Azalea, and DLS series

## LIGHTING SENSORS

### Passive infrared (PIR) sensor

Sensitive to a person's skin temperature through emitted body radiation, in contrast to background objects at room temperature. HPM range of sensors is suitable for both indoor and outdoor for various locations throughout the house including corridors, wardrobes, secluded walkways and garages.

Whether used for extra safety around the house or for convenience indoors, these deliver great energy savings all year round.

Cat No.	Image	Description	Finish	Manual override	IP Rating	Application	Mounting type	Detection range	Detection angle	Time delay
630S01BL		180° PIR Sensor	Black	No	IP44	Indoor/Outdoor	Wall Surface Mounted	12m	180°	8s to 7min
630S01WE		180° PIR Sensor	White	No	IP44	Indoor/Outdoor	Wall Surface Mounted	12m	180°	8s to 7min
630SM01BL		180° PIR Sensor	Black	Yes	IP44	Indoor/Outdoor	Wall Surface Mounted	12m	180°	8s to 7min
630SM01WE		180° PIR Sensor	White	Yes	IP44	Indoor/Outdoor	Wall Surface Mounted	12m	180°	8s to 7min
630S02WE		360° PIR Sensor	White	No	IP20	Indoor	Ceiling Surface mounted	8m	360°	10s to 10min
630R02WE		360° PIR Sensor	White	No	IP41	Indoor	Ceiling Surface mounted	8m	360°	10s to 10min
630R01WE		360° PIR Sensor	White	No	IP20	Indoor	Ceiling surface mounted	6m	360°	10s to 15min
488TRI3W		Triscan 3-Wire Pir Sensor	White	Yes	IP66	Outdoor	Wall Surface Mounted	8m	120°	8s to 15min

# 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

### First digit:

#### Protection against solid bodies (See AS 1939, Clause 5)

IP	Tests	IP
0	No protection	
1	Protected against solid bodies larger than 50 mm (e.g. accidental contact with the hand)	A
2	Protected against solid bodies larger than 12.5 mm (e.g. finger)	B
3	Protected against solid bodies larger than 2.5 mm (e.g. tools, wires)	C
4	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	

### Second digit:

#### 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	Protected against drops of water falling at up to 15° from the vertical	
3	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	Protected against the effects of immersion	
8	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		0.15
IK 02		0.2
IK 03		0.35
IK 04		0.5
IK 05		0.7

IK	Tests	Impact energy (in Joules)
IK 06		1
IK 07		2
IK 08		5
IK 09		10
IK 10		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)





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