

40 YEARS OF QUALITY BRITISH MANUFACTURING



MELED

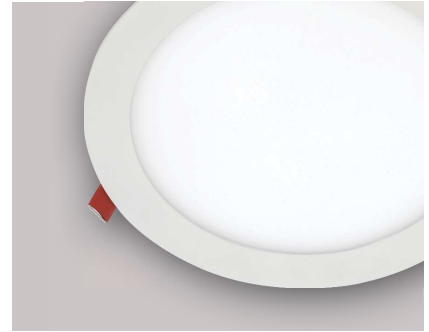
ATTRACTIVE SHALLOW LED DOWNLIGHT
PRODUCT DATA SHEET



PRODUCT DATA SHEET

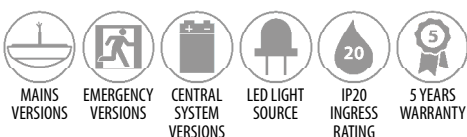
MELED

ATTRACTIVE SHALLOW LED DOWNLIGHT



FEATURES

- Shallow diecast aluminium body for enhanced thermal dissipation.
- Wide beam angle.
- High quality LED driver providing uniform LED light distribution.
- Spring fixing clips enabling quick installation.
- Compact white body with attractive opal diffuser.
- Mains, emergency and slave versions.
- Extended LED life greater than 54,000 hours.
- CRI 80 (minimum).
- 4000K colour temperature.
- All luminaires in this range have a lumens/Watt rating greater than 70 lm/W.
- All stated lumens are actual luminaire output.



CATALOGUE NUMBERS & INFORMATION

MAINS LUMINAIRES			MAINS LUMENS			EMERGENCY LUMENS		
CAT NO	WATTS	WEIGHT	ECONOMY OUTPUT	STANDARD OUTPUT	HIGH OUTPUT			
MEL/LED/9	9W	0.30Kg		640				
MEL/LED/12	12W	0.40Kg		890				
MEL/LED/18	18W	0.60Kg		1510				
MEL/LED/24	24W	1.20Kg		2360				

EMERGENCY LUMINAIRES			MAINS LUMENS			EMERGENCY LUMENS		
CAT NO	WATTS	WEIGHT	ECONOMY OUTPUT	STANDARD OUTPUT	HIGH OUTPUT	ECONOMY OUTPUT	STANDARD OUTPUT	HIGH OUTPUT
MEL/LED/9/M3E	14.5W	1.80Kg		640		180		
MEL/LED/12/M3E	17.5W	1.90Kg		890		200		
MEL/LED/18/M3E	23.5W	2.10Kg		1510		250		
MEL/LED/24/M3E	29.5W	2.10Kg		2360		150		

CENTRAL SYSTEM SLAVE LUMINAIRES				MAINS LUMENS			EMERGENCY LUMENS		
CAT NO	W	VA	WEIGHT	ECONOMY OUTPUT	STANDARD OUTPUT	HIGH OUTPUT	ECONOMY OUTPUT	STANDARD OUTPUT	HIGH OUTPUT
MEL/LED/9/LVR24	10	9	0.30Kg		640			480	
MEL/LED/9/LVR50	10	8	0.30Kg		640			500	
MEL/LED/9/LVR110	10	9	0.30Kg		640			525	
MEL/LED/9/LVR220	11	9	0.30Kg		640			500	
MEL/LED/12/LVR24	11	10	0.40Kg		890			590	
MEL/LED/12/LVR50	12	9	0.40Kg		890			620	
MEL/LED/12/LVR110	11	10	0.40Kg		890			650	
MEL/LED/12/LVR220	11	9	0.40Kg		890			620	
MEL/LED/18/LVR24	14	13	0.60Kg		1510			800	
MEL/LED/18/LVR50	15	13	0.60Kg		1510			900	
MEL/LED/18/LVR110	15	13	0.60Kg		1510			900	
MEL/LED/18/LVR220	14	12	0.60Kg		1510			850	
MEL/LED/24/LVR24	15	14	1.20Kg		2360			550	
MEL/LED/24/LVR50	17	14	1.20Kg		2360			590	
MEL/LED/24/LVR110	16	14	1.20Kg		2360			590	
MEL/LED/24/LVR220	15	13	1.20Kg		2360			550	

* Power shown in low Voltage operation to aid sizing of central systems.

OPTIONS

Products incorporating any of the following options are manufactured to order.
Some options may not be available in all models.

/DAE DALI emergency mode only

/DAEM DALI mains and emergency mode

/DAM DALI mains mode only

/ST Digital self-test

/SWITCHDIM Switchable dimmable control gear

DIMENSIONS

LUMINAIRE DIMENSIONS

9W Versions: Ø: 150mm x Depth: 21mm

12W Versions: Ø: 174mm x Depth: 21mm

18W Versions: Ø: 225mm x Depth: 21mm

24W Versions: Ø: 300mm x Depth: 21mm

CUT-OUT DIMENSIONS

9W Versions: Ø: 135mm

12W Versions: Ø: 150mm

18W Versions: Ø: 210mm

24W Versions: Ø: 285mm

SPECIFICATION

GENERAL

Country of Origin: United Kingdom.
CE Mark Compliance: CE marked, REACH and RoHS compliant.
Manufactured to Standards: BS EN60598-2-1 (mains), BS EN60598-2-22 (emergency).
Manufacturing Quality Approval: ISO 9001:2015.

CONSTRUCTION

Body Construction: Diecast aluminium.
Body Finish: White.
Protection Degree: IP44 (front face).
Insulation Class: Class 1.
Light Distribution Category: General.
Reflector Material: N/A.
Reflector Type: N/A.
Reflector Finish: N/A.
Diffuser Material: PMMA.
Diffuser Type: Opal.
Diffuser Finish: Smooth.
Cabling: 90°C single core 0.8mm to BS6500 Grade 5.
Supply Voltage: 230/240V AC 50/60Hz (replace 230V with 24V, 50V, 110V or 220V for slave versions).

CONTROL GEAR

Mains Luminaires:

CAT NO	V-OUT	I-OUT
MEL/LED/9	28V	280mA
MEL/LED/12	34V	300mA
MEL/LED/18	56V	300mA
MEL/LED/24	70V	600mA

- Constant current mains LED drivers.
- Input Voltage 230/240V AC 50/60Hz.
- Supplied in class 2 housing with strain relief suitable for independent mounting.
- Designed and manufactured in accordance with BS EN61347-2-13, BS EN62384, BS EN55015, BS EN61000-3-2 and BS EN61000-3-3.

Emergency Luminaires:

- Constant power emergency control gear designed to operate LED loads of 3-80V DC in non-maintained or maintained modes of operation.
- Suitable for use with Ni-Cad or Ni-MH battery technology.
- M3E versions for use with 3 x 4Ah.
- Suitable for use with external LED drivers up to 150W.
- Supplied in polycarbonate class 2 housing suitable for independent mounting. Emergency control gear is housed within flame-retardant glass woven silicone sleeving or a galvanised sheet steel metal enclosure.
- Control gear certified to BS EN61347-2-7 and BS EN62384.

Slave Luminaires:

- LED control gear designed for use with low Voltage central systems, constant power output suitable for LED loads of 3-80V DC.
- Supplied in polycarbonate class 2 housing with strain relief suitable for independent mounting.
- Supplied as standard with 240V hold-off relay.
- Designed and manufactured in accordance with BS EN61347-2-13, BS EN62384, BS EN55015, BS EN61000-3-2 and BS EN61000-3-3.

LEDs

LED Type: SMT mid-power.
LED Colour Temperature: 4000K.
CRI Minimum: 80.
SDCM: 3 (MacAdam rating).
LED Lifetime: TM21 L70 >54,000 hours.
LED Manufacturer(s): Seoul semiconductor / Plessey / CREE or equivalent.

Orbik has a policy of constant product improvement and therefore reserve the right to modify specifications without prior notice. All details and specifications shown within this data sheet are deemed correct at the time of print.



HEAD OFFICE & EXPORT SALES

Orbik Electronics Limited, Orbik House, Northgate Way, Aldridge, Walsall, West Midlands, WS9 8TX, United Kingdom
TEL: +44 (0) 1922 743515 FAX: +44 (0) 1922 743173 EMAIL: sales@orbik.co.uk Export Email: export@orbik.co.uk

UK WHOLESALE SALES

TEL: 01922 745024 FAX: 01922 745124 EMAIL: uksales@orbik.co.uk

www.orbik.co.uk