



els

EFFICIENT LIGHTING SYSTEMS



Energy Efficient
Mini Downlights

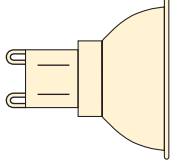
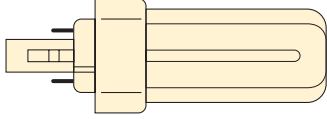
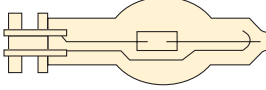


Energy Efficient Mini Downlights

The new ELS Mini Downlights are designed specifically for use with energy efficient lamps. For many years 50w low voltage Halogen down lights have been used for general lighting and display lighting. However the halogen lamp is not the most energy efficient option, with compact fluorescent and metal halide lamps now offering energy savings that will result in less green house gas emissions.

The new Australian Building Code section J6 has also now specified maximum lamp power density in Watts/ square metre, and minimum light source efficiency in Lumens/watt.

The following chart demonstrates the efficiency of lamps in lumens per watt. This clearly shows that fluorescent and metal halide lamps produce 3 to 4 times the amount of light for each watt of power.

50w MR16 1000 lumens		20 lumens/watt
18w TC-T 1200 lumens		66 lumens/watt
20w MH 1700 lumens		82 lumens/watt

Maintenance is also greatly reduced with the use of both Fluorescent and Metal halide lamps with an average life of 10000 hours

The fluorescent and metal halide lamps do require purpose made light fittings to optimize the lamps superior performance. ELS are please to offer the following solutions.

Fluorescent lamps

Best for general lighting of spaces in both residential and commercial installations

Features

- Instant on. Hot restrike
- Dimming options available
- Lamp colour choice – 2700k, 3000k, 4000k
- Lamp replace does not require control gear replacement. The electronic control gear has a life of 50,000 hours

Metal halide

Best for display, accent lighting, retail use, - areas that require some sparkle. Generally not recommended for interior residential use.

Features

- Require a warm up period
- Will not restrike hot – may need a 10 minute cool of period before restrike
- Available in 3000 k colour – similar to halogen lamps
- Lamp replacement does not require control gear replacement. The electronic control gear has a life of 50,000 hours
- Dimming not available

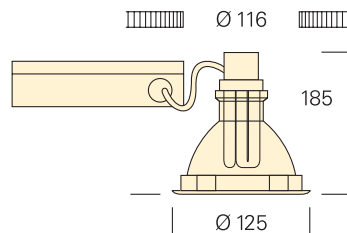


Fluorescent Downlights

SDL 125

Specifications

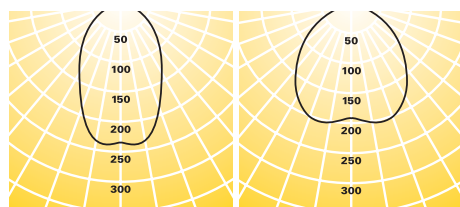
- Compact fluorescent lamps 10, 13 or 18watt
- Frosted silver anodised pure aluminium reflector
- Electronic gear standard
- Standard remote gear
- White / silver trim available
- German made reflector
- Suitable for domestic applications
- Artistry glass lenses available - refer to SDL catalogue for full range



Illumination power	TC-T 10W	TC-T 13W	TC-T 18W
High frequency ballast (Non DIM)	SDL125.51.10.53	SDL125.51.13.53	SDL125.51.18.53
Analogue dimmable HF ballast (1-10v)		SDL125.51.13.54	SDL125.51.18.54
Digital dimmable HF ballast (DSI)		SDL125.51.13.55	SDL125.51.18.55
Digital dimmable HF ballast (DALI)		SDL125.51.13.56	SDL125.51.18.56

13 Watt TC

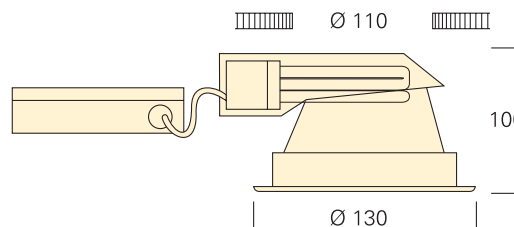
18 Watt TC



ADLS 130

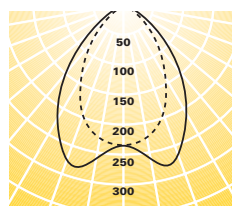
Specifications

- Compact fluorescent lamp 18 watt
- Aluminium anodised reflector
- Standard remote gear
- Electronic gear standard
- White / silver trim available
- Australian made
- Suitable for domestic applications



Catalogue no.	Description
ADLS130/18E	1x18w GX24q3 TC-T electronic non dim
ADLS130/18ED	1x18w GX24q3 TC-T 1-10v dimmable
ADLS130/18EDD	1x18w GX24q3 TC-T digital dimmable
ADLS130/18DALI	1x18w GX24q3 TC-T DALI dimmable

18 Watt TC



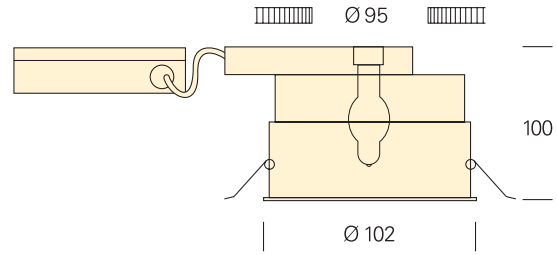


Metal Halide Downlights

ADL 100

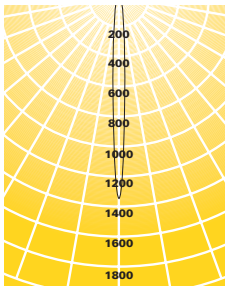
Specifications

- 20w MH miniature lamps
- 3 reflector beams – narrow, medium, wide
- Aluminium anodised reflector
- Electronic control gear
- Standard remote gear
- White / silver trim available
- Australian made
- Suitable for retail / commercial applications

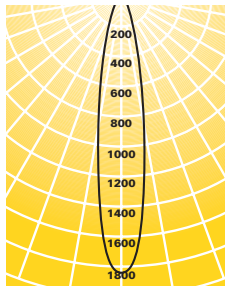


Catalogue no.	Description
ADL100/20N	1x20w MH CDM-Tm PGj5 narrow beam
ADL100/20M	1x20w MH CDM-Tm PGj5 medium beam
ADL100/20W	1x20w MH CDM-Tm PGj5 wide beam

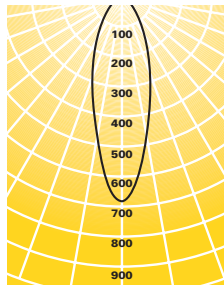
20 Watt Narrow 7°



20 Watt Medium 22°



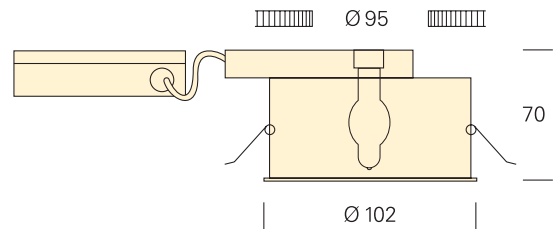
20 Watt Wide 40°



ADL 100 SHALLOW

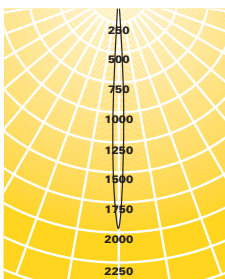
Specifications

- 20w MH miniature lamps
- 2 reflector beams – narrow and medium
- Frosted anodised aluminium reflector
- Electronic control gear
- Standard remote gear
- White / silver trim available
- Australian made
- Suitable for retail / commercial applications

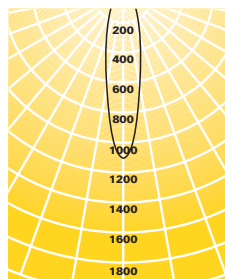


Catalogue no.	Description
ADL100SH/20N	1x20w MH CDM-Tm PGj5 narrow beam
ADL100SH/20M	1x20w MH CDM-Tm PGj5 medium beam

20 Watt SH Narrow 6°



20 Watt SH Medium 27°



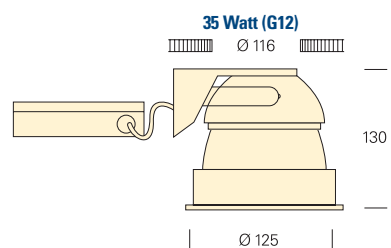
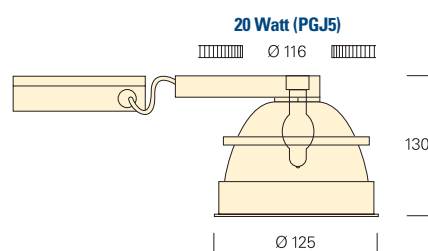


ADL 125

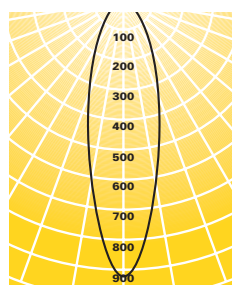
Specifications

- 20w miniature MH or 35w MH lamps
- Aluminium anodised reflector
- Electronic control gear
- Standard remote gear
- White / silver trim available
- Australian made
- Suitable for retail / commercial applications
- Artistry glass lenses available - refer to SDL catalogue for full range

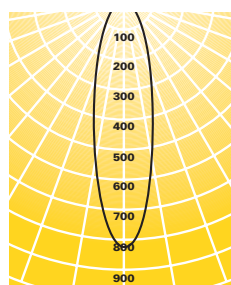
Catalogue no.	Description
ADL125/20	1x20w MH CDM-Tm PGJ5
ADL125/35	1x35w MH HIT/CDM-T G12



20 Watt (PGJ5) 32°



35 Watt (G12) 38°

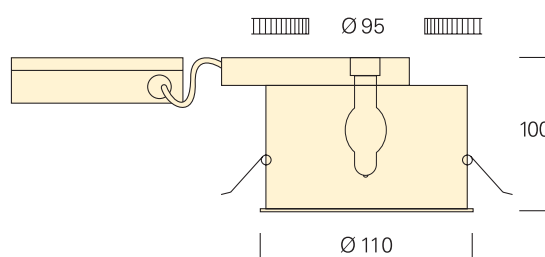


ADLS 100

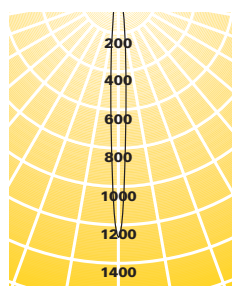
Specifications

- 20w MH miniature lamps
- 3 reflector beams – narrow, medium, wide
- Aluminium anodised reflector
- Electronic control gear
- Standard remote gear
- White / silver trim available
- Australian made
- Suitable for retail / commercial applications

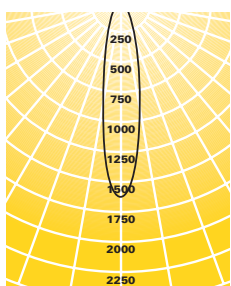
Catalogue no.	Description
ADLS100/20N	1x20w MH CDM-Tm PGJ5 narrow beam
ADLS100/20M	1x20w MH CDM-Tm PGJ5 medium beam
ADLS100/20W	1x20w MH CDM-Tm PGJ5 wide beam



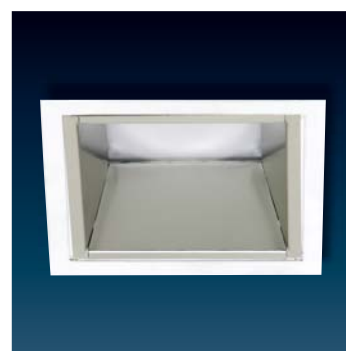
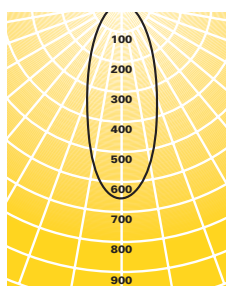
20 Watt Narrow 8°



20 Watt Medium 26°



20 Watt Wide 47°

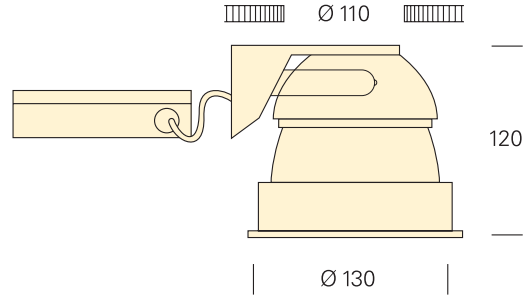




ADLS 130

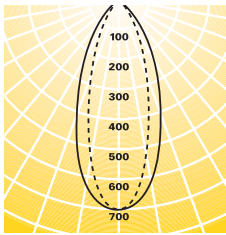
Specifications

- 35w MH lamp - G12
- Aluminium anodised reflector
- Electronic gear
- Standard remote gear
- White / silver trim available
- Australian made
- Suitable for retail/commercial applications



Catalogue no.	Description
ADLS130/35	1x35w MH HIT/CDM-T G12

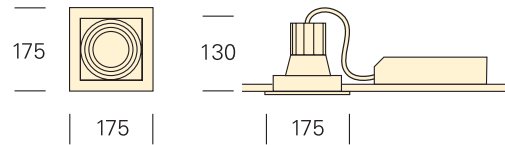
35 Watt (G12)



KA 12 EB – Gimballed Recessed

Specifications

- 20w MH lamps - G8.5 base
- Electronic gear standard
- 2 sizes – 1 field and 2 field
- Powder coated aluminium frame
- Luminaire heads individually adjustable
- 2 reflector beams – spot and flood
- White / Silver versions available
- Suitable for retail / commercial applications
- German made
- Refer to Spittler catalogue for more information



1 Field

Lamp Type	Catalogue no. white	Catalogue no. RAL9006
HIT-TC-CE 20w SPOT 12°	12.5151.20.2-10	12.5151.20.2-18
HIT-TC-CE 20w FLOOD 39°	12.5171.20.2-10	12.5171.20.2-18

2 Field

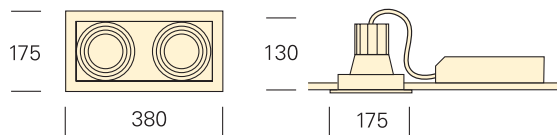
Lamp Type	Catalogue no. white	Catalogue no. RAL9006
2 x HIT-TC-CE 20w SPOT 12°	12.5152.20.2-10	12.5152.20.2-18
2 x HIT-TC-CE 20w FLOOD 39°	12.5172.20.2-10	12.5172.20.2-18



Attachments - please order separately

	1 Field	2 Field
Light tight housing	12.501.1.1K	12.501.1.2K

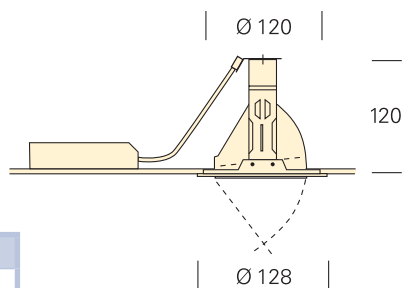
*prevents back light into ceiling space



EB 12 – Recessed Rotatable and Adjustable Spotlight

Specifications

- 20w MH lamp - G8.5 base
- Rotatable 355° adjustable up to 50°
- 2 reflector beams – spot and flood
- White / Silver versions available
- Suitable for retail / commercial applications
- German made
- Refer to Spittler catalogue for more information



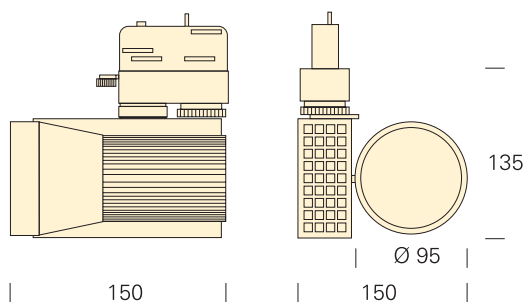
Lamp Type	Catalogue no. white	Catalogue no. RAL9006
HIT-TC-CE 20w SPOT 12°	12.154.20.23-10	12.154.20.23-18
HIT-TC-CE 20w FLOOD 34°	12.174.20.23-10	12.174.20.23-18



AS 12 – Track Light

Specifications

- 20w MH lamps - G8.5 base
- Electronic gear standard
- Powder coated aluminium frame
- Rotatable and adjustable
- 2 reflector beams – spot and flood
- White / Silver versions available
- Suitable for retail / commercial applications
- Ceiling rose for ceiling mounting available
- German made
- Refer to Spittler catalogue for more information



Lamp Type	Catalogue no. white	Catalogue no. RAL9006
HIT-TC-CE 20w SPOT	12.453.20.23-10	12.453.20.23-18
HIT-TC-CE 20w FLOOD	12.473.20.23-10	12.473.20.23-18





Efficient Lighting Systems Pty. Ltd.
ABN 14 050 028 209

**39 Tinning Street, Brunswick,
Victoria 3056 Australia**

**PO Box 5084 Moreland West,
Victoria 3055 Australia**

**Telephone: 61 3 9222 5522
Facsimile: 61 3 9222 5521**

**Email: info@elslighting.com.au
Web: www.elslighting.com.au**

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