genesisone

Estrella **100**

LED Downlight

www.genesisone.co.za | sales@genesisone.co.za

Estrella 100

Engineered for flawless illumination, precision, and long-lasting durability, this versatile fitting is designed to meet the demands of both professional and residential spaces. Featuring a range of beam angles — 15°, 24°, 38°, 45°, and 60° — it offers targeted lighting for a variety of applications, whether for accent, general, or task lighting. With IP65 or IP20 ratings, this fixture ensures reliable performance even in challenging environments, whether exposed to dust, moisture, or varying temperatures.

Crafted from high-quality die-cast aluminum, the fitting's robust construction guarantees lasting performance while its sleek reflector design enhances both function and style. Available in a range of elegant finishes, including Matt White or Black trim, as well as luxurious options like Matt Black, Gun Black, Gold, and Mirror, it seamlessly blends with any interior design, adding a touch of sophistication to your space.

Designed with longevity in mind, the smart cooling system is equipped with a specially engineered aluminum heatsink featuring vertical fins. This allows for efficient airflow both upwards and downwards, keeping the fixture cool even during extended use. An external power supply ensures optimal performance and ease of maintenance, making this fitting as reliable as it is adaptable.

High efficiency and energy saving

The Estrella 100 is a versatile recessed LED downlight designed to perform reliably in diverse environments with an operating temperature range of -20°C to 45°C. and IP Rating of 65 where required.

Featuring a range of beam angles — 15°, 24°, 38°, 45°, and 60°, the Estrella 100 offers targeted lighting for a variety of applications, whether for accent, general, or task lighting. It reduces harsh shadows providing a more uniform and comfortable lighting effect.

Intelligent lighting control options

All versions of the Estrella 100 can be installed with either DALI or 1-10v Dimming Smart integration with building management systems ensures energy optimization, while app-based controls offer convenience and remote access.

Glare controlled downlights

High-quality illumination with glare-controlled downlights, designed to reduce visual discomfort and enhance focus.

These fittings utilize advanced optics and low Unified Glare Rating (UGR) designs to ensure even light distribution and minimize harsh reflections. Ideal for offices, retail spaces, and hospitality environments, glare-controlled downlights provide a balance of brightness and comfort, promoting productivity and creating an inviting ambiance

Fixed

COB LED

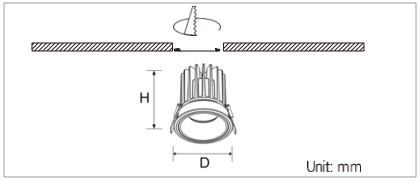
Beam Angle: 15°|24°|38°|45°|60°

IP65 with safety glass

Honeycomb lens optional

Mirror | Matt Black | Gun Black | Gold

MODEL	**Estrella 100**
WATTAGE	**8W I 10W I 15W I 25W**
CRI	**80/90**
CCT	**2700K I 3000K I 3500K I 4000K |5000K I 5700K I 6500K**
BEAM ANGLE	**15°|24°|38|°45|°60°**
MATERIAL	**Matt white or black trim**
	Die-casting alu. trim and heatsink, Glass.
DRIVER	**Constant current remote LED driver included**
APPLICATION	**Residential lighting, hotel and villas, bars, restaurants, etc.**



Model	Watts	DxH(mm)	Cutout(mm)	Lumen(lm/w)
D100CT055	8W	⌀65xH76	55	100-120
D100CT075	10W	⌀83xH69	75	100-120
D100CT075	15W	⌀83xH90	75	100-120
D100CT075	25W	⌀83xH117	75	100-120

ORDERING INFORMATION

Example: D100-N-15-30-45-L-075

Model	Dimming	Wattage	CCT	Beam	Reflector	Cutout
D100	N	15W	30	60	L	75
D100	N NonDim	8W	27 2700K	15°	L Lens	55
	T Triac Dim	10W	30 3000K	24°		75
	V 0/1-10V Dim	15W	35 3500K	38°		
	D DALI Dim	25W	40 4000K	45°		
			50 5000K	60°		
			57 5700K			
			65 6500K			

OPTICAL DATA

Light Source	COB
Correlated Colour Temperature (CCT)	2700K ~ 6500K
Colour Rendering Index (CRI)	>80 standard; >90 optional
SDCM	<3
Beam Angle	15°|24°|38|45°|60°
UGR	<17

PERFORMANCE

System Wattage	8W | 10W | 15W | 24W
Luminous Flux(±10%)	>720 | 900 | 1350 | 2250lm
Luminaire Efficacy	90-100lm/W

OPERATING CONDITIONS

Operating Temperature (Ta)	-30° to +45°C
Mounting Options	Recessed

HOUSING & FINISH

Housing Material	Die-cast aluminum
Lens	PMMA
Optic Material	Glass
Housing Finish	Powder Coating
Finish Colour	Matt white or black trim
Weight (Kg)	
IP Rating	IP20 | IP65
IK Rating	IK

ELECTRICAL DATA

Protection Class	Class 1
Nominal Voltage	AC100-240V | 50-60 Hz
Power Factor	>0.95
Surge Protection (Kv)	-
Control Protocol	Triac, DALI, 1-10V
Sensor	-
Emergency	-
Power Supply	Lifud | Eaglerise | OEM
Driver Type	Constant Current (CC)
Total Harmonic Distortion (THD)	IEC 61000-3-2 Class C <20%
Inrush Current	
Driver Lifetime	>50,000hrs
Electromagnetic Compatibility (EMC)	EN 55015:2019/A11:2020, EN 61000 3-2:2019, EN 61000-3-3:2013,EN 61547:2009, EN 62493:2015

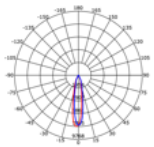
TECHNICAL DATA

Certifications	ENEC/CB/SAA/TUV-CE/ROHS
Warranty	3 Year
Documentation	LM-79 / LM-80 / ISTMT / TM-21
Testing Standard	LM-79-19 (all measurements in ISO17025 accredited laboratory)

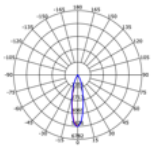
LIFETIME OF THE LEDS @ TA 25°C

Lifetime @L70 (Tm-21)	>102,000hrs
Lifetime @L80 (Tm-21)	>50,000hrs
Lifetime @L90 (Tm-21)	>50,000hrs
Switching Cycles	<100,000hrs

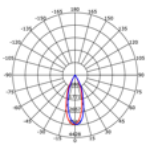
PHOTOMETRIC DATA



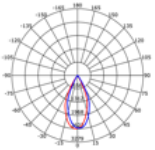
15° 15W 4000K



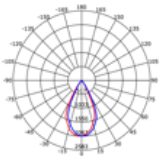
24° 15W 4000K



38° 15W 4000K



15° 45W 4000K



60° 15W 4000K

Genesis One Lighting (Pty) Ltd

www.genesisone.co.za

sales@genesisone.co.za

Unit 27 Northlands Retail Park

210 Epsom Ave

Northriding

2169