



Iridium – lighting the road ahead

Iridium SGS253/453

Iridium is a family of road-lighting luminaires designed for three main applications – residential areas and minor roads, major roads and motorways. Its modularity allows the integration of optical or electronic components in order to adapt to the changing demands of road lighting, e.g. the growing demand for white light and controls.

Iridium ensures low cost of ownership thanks to its superior optics, dimming and Telemangement capability, and ease of installation and maintenance. The Iridium luminaire family includes MASTERColour CDM Elite MW, CosmoPolis and LED-enabled versions. It comes in four different sizes – for mounting heights from 3.5 to 12 meters – and is suitable for side-entry and post-top mounting. A full range of brackets ensures visual consistency between the column and the gently rounded luminaire, making Iridium a total solution. Each Iridium luminaire is fully recyclable; only the light source and driver have to be recycled separately.

Benefits

- GRP and aluminium body options
- Worldwide design acceptance and high degree of modularity, with a wide range of sizes, materials and options

Features

- Family includes MASTERColour CDM Elite MW, CosmoPolis and LED-enabled versions
- Superior optics
- Dimming and Telemangement capability
- Three different sizes, suitable for side-entry and post-top mounting; also full range of brackets
- Fully recyclable; only light source and driver have to be recycled separately

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Application

- Traffic routes
- Residential roads and streets

Specifications

Type	SGS253 (glass-fiber-reinforced polyester canopy version) SGS453 (aluminum canopy version)
Light source	HID: - 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W - 1 x MASTER CityWhite CDO-TT / E27 / 70 W - 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W - 1 x MASTERColour CDM-T / G12 / 70, 150 W - 1 x CDO-ET / E27 / 70 W - 1 x CDO-ET / E40 / 100, 150 W - 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W - 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250 W - 1 x SON / E27 / 50, 70 W - 1 x SON / E40 / 100, 150 W - 1 x SON-I / E27 / 50, 70 W Compact fluorescent: - 1 x MASTER PL-T 4 Pin / GX24q-3, 4 or 5* / 32, 42, 57 W - *depends on wattage Induction lamp system: - 1 x MASTER QL system / 55, 85 W
Lamp included	Yes (K) No
Gear and compensation	Electro magnetic (low loss), 230 or 240 V / 50 Hz: - Inductive (IN) - Capacitive (C) Electronic, 220 - 240 V / 50 - 60 Hz: - Electronic (EB)

Optic	Closed CT-POT (CR) optic for CosmoPolis (all ME-classes), CDO and SON lamps, "Opti-C" concept with double IP-66, simplify cleaning of the optic and improve lamp position precision Open CT-POT (OR) "Opti-O" easy lamp access for CDO and SON lamps Open XT-POT (OX) for SON lamps, gives extra wide spacing when the mast-height/road-width ratio is e.g. 10/7 or higher. "Opti-O" concept Closed XT-POT (CX) same application in "Opti-C" concept Closed V-POT (CV) recuperate the back light via V-louver Open T-POT (TP) optic "Opti-O" for SON lamps
Optical cover	Polycarbonate bowl (PC) vandal-resistant Glass bowl (GB) better spacing and better night preservation solution Glass flat (FG), reduce glare and improve night nuisance Glass flat with DynaClean coating (FGD)
Ignitor	Series (SI) Series, self-stopping (SS) Series, digital ignitor (SUD) Semi-parallel (SP) Semi-parallel, self-stopping (ST) Semi-parallel, digital ignitor (SND)

Specifications

Options	Lighting controls: Chronosense (CH) Light regulation: - Lumistep for CosmoPolis (LS-6 / 8 / 10) - Dimming switch (SW) - Dimming switch with reverse function (SWR) - Doble nivel 4 hilos (DN) - Dimming via SDU01S (D4) - Dimming via SDU11S (D5) - Dimming via Telemangement Starsense 1-10Vdc (D6) - Dimming via external communication 1-10Vdc (D7) Photocell: - NEMA socket (P1), Minicell (P3) Filter coil (F) included Fuse (FU) included Knife-connector (KC) included Safety cable (SC) for plastic version, reduce maintenance risks
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Materials and finishing	Canopy: glass-fiber-reinforced polyester with In-Mould Coating* (SGS253) or aluminum (SGS453) Frame: sand-blasted die-cast aluminum Optical covers: polycarbonate bowl, UV-stabilized or toughened glass IK08 Reflector: high-purity aluminum Gear-tray housing: polyamide Front clip: stainless steel
Color	Grey (GR) Other RAL or AKZO colors available on request (e.g. 7035) Metallized frame (FM) for better appearance during life of the product

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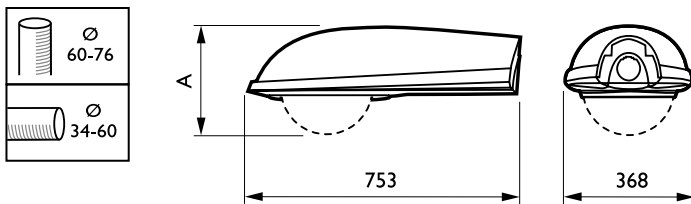
Installation	Side-entry mounting: lateral entry Ø 34 / 60 mm
	Post-top mounting: axial entry Ø 60 / 76 mm (60/76)
	Recommended mounting height: 10 m
	Standard tilt angle post top: 5°
	Adjustable tilt angle: n/a
	Adjustable light distribution: 7 positions
	Max windage area: 0.15 m
Maintenance	Max SCx values by side: 0.063 m
	Max SCx values by side: 0.081 m
	Tool-less opening from above, and disconnection of plug and socket
Accessories	Front and back louvers, ZGS253 L-FRONT, resp L-Back
	Dedicated mast and wall brackets available for different mounting possibilities

Remarks	* In-Mould Coating (IMC) prevents the glass fibers becoming exposed
	The integration of the CosmoPolis system (CPO-TW lamp, the high-efficient reflector, electronic ballast), a better spacing (in new installations) and less energy consumption (in new and existing installations) can be obtained
	CR optic has double IP66 classification for lamp compartment
Main applications	Compliant with EN 60598-2-3
	Residential and industrial areas, roads, crossings, roundabouts

Versions



Dimensional drawing



Product	A
SGS453 CPO-T140W K EB 240V I GB FM GR P1	224 mm

