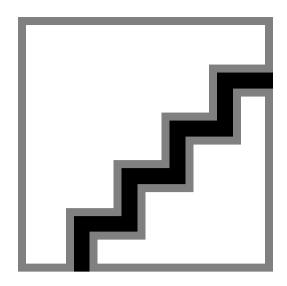# Iridium² – lighting the road ahead

Iridium² Large

Iridium² is a family of road lighting luminaires designed for performance and sustainability. Depending on the application and budget, customers can start with LED, electronic HID or a mix of both technologies with the same luminaire. Whatever the initial choice, Iridium²'s modularity allows customers to upgrade their installations (LED to LED or e-HID to LED) whenever they want, simply by changing the light engine.The integration of LEDGINE, brand new HID optics, electronic gear and controls is a response to the growing demand for energy savings. The new Iridium² HID optics are designed to deliver best-in-class lighting performance while offering tremendous flexibility in application. All these features, combined with Iridium²'s ease of installation and maintenance, ensure that customers enjoy low cost of ownership.

Benefits
• Future-proof luminaire: maintenance very easy; no tools required for LED upgrade
• Highly efficient lighting platform; no compromise on lighting quality thanks to flat glass
• Full flexibility to cover all applications, with choice of price and technology

Features
• LEDGINE inside
• Best-in-class optics
• Electronic gear (Philips Xtreme gear)
• Integrated controls

Application
• Roads: highways and motorized traffic within and between cities
• Streets: mixed traffic and residential streets
• Walking/cycling paths, car parks, roundabouts

Specifications

Iridium² Large

Type	SGP353
Light source	HID:
	- MASTER SON-T PIA Plus / E40 / 150, 250 W
	- MASTER CDM-T MW Elite / E40 / 210 W
	- MASTER CityWhite CDO-TT / E40 / 150, 250 W
Ballast	Electronic, High Frequency 220 - 240 V / 50 - 60 Hz:
	- Electronic (EB)
Optic	Medium Street optic (MSO) for Cosmopolis lamps
	Medium Street optic (MSO) for SON lamps
	Wide Street optic (WSO) for SON lamps
Optical cover	Flat glass (FG)
	Flat glass with DynaClean coating (FGD)
	Flat glass, extra clear
Options	Light regulation:
	- Stand alone dimming via Lumistep
	- Stand alone dimming via Dynadimmer
	- Dimming via SDU
	- External dimming 1-10 V
	- External dimming DALI
	- Dimming via Telemanagement 1-10 V
	- Dimming via Telemanagement DALI
	- Dimming via Telemanagement RF
	Photocell: NEMA socket, Minicell
	Fuses
	Pre-cabled luminaire

Materials and finishing	Housing: die-cast aluminium
	High reflective optics (assembled optics)
	Glass: extra white tempered, 5 mm thick
Colour	RAL7035 or silver grey (like 9006) as standard
	Other RAL or AKZO colours available on request
Installation	Post-top mounting: axial entry Ø 60 - 76 mm
	Side-entry mounting: lateral entry Ø 48 - 60 mm
	Operating temperature: - 25ºC < T
	Recommended mounting height: 8 to 15 m
	Standard tilt angle post top: 0 and 5º
	Adjustable tilt angle: 0 and 5º
Accessories	Back louver ZGP353
Remarks	Philips Xtreme gear inside with below specifications:
	- Lifetime: 80,000 hours
	- Ambient temperature: -30 to +50ºC
	- Lightning protection up to 10 kV

Versions

Iridium² e-HID SGP353 road-lighting
luminaire

Product details

Easy switch from HID to LED
(unscrew the optical plate)

Iridium² Large

General Information

Colored frame	-
Parts color	All parts colored
Coating	-
Gear	EB
Lamp family code	SON-TPP
Product Family Code	SGP353

General Information

Order Code	Full Product Name	Lamp power	Optic type
42547200	SGP353 SON-TPP150W K EB II FX1 AL GR	150 W	Flexible distribution version 1
42548900	SGP353 SON-TPP150W K EB II FX1 AL SI	150 W	Flexible distribution version 1
42549600	SGP353 SON-TPP150W K EB II FX2 AL GR	150 W	Flexible distribution version 2

Order Code	Full Product Name	Lamp power	Optic type
42552600	SGP353 SON-TPP250W K EB FX1 AL GR	250 W	Flexible distribution version 1
42556400	SGP353 SON-TPP250W K EB II FX1 AL GR	250 W	Flexible distribution version 1
42558800	SGP353 SON-TPP250W K EB II FX2 AL GR	250 W	Flexible distribution version 2

Mechanical and Housing

Order Code	Full Product Name	Color
42547200	SGP353 SON-TPP150W K EB II FX1 AL GR	Gray
42548900	SGP353 SON-TPP150W K EB II FX1 AL SI	Silver
42549600	SGP353 SON-TPP150W K EB II FX2 AL GR	Gray

Order Code	Full Product Name	Color
42552600	SGP353 SON-TPP250W K EB FX1 AL GR	Gray
42556400	SGP353 SON-TPP250W K EB II FX1 AL GR	Gray
42558800	SGP353 SON-TPP250W K EB II FX2 AL GR	Gray