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ROAD & STREET LUMINAIRES

R10

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RIO XS G3

RIO XXS G3



RIO Senseway makes lighting easy to manage with smart control systems. Remote monitoring, flexible scenario settings, and an energy-efficient control system provide both high performance and sustainability in city lighting.



Up to **80%**
Energy Savings



Payback Period
1-2 Years

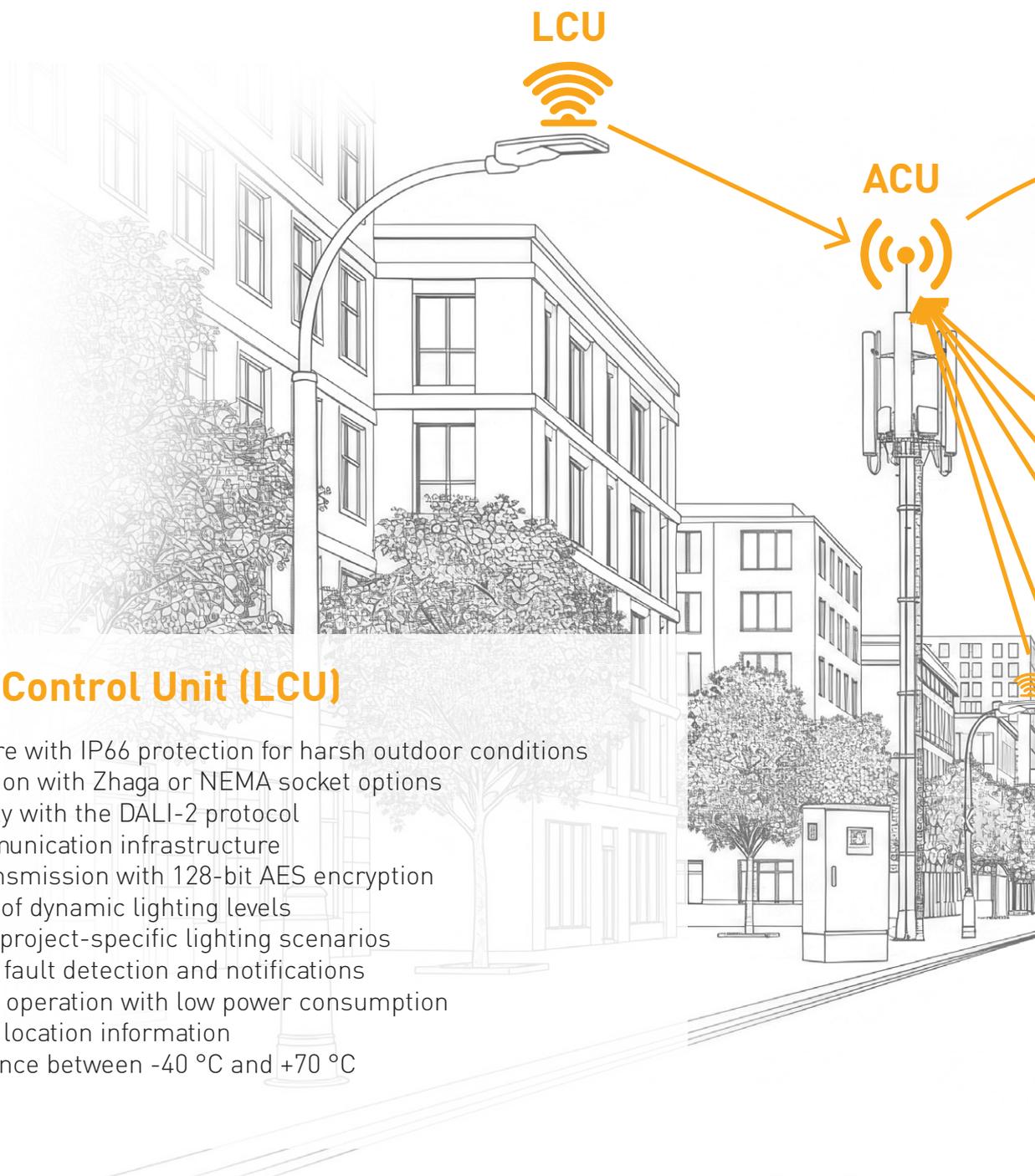


Real-Time **Fault**
Detection and Reporting



Easy **Installation and**
Maintenance

RIO Senseway

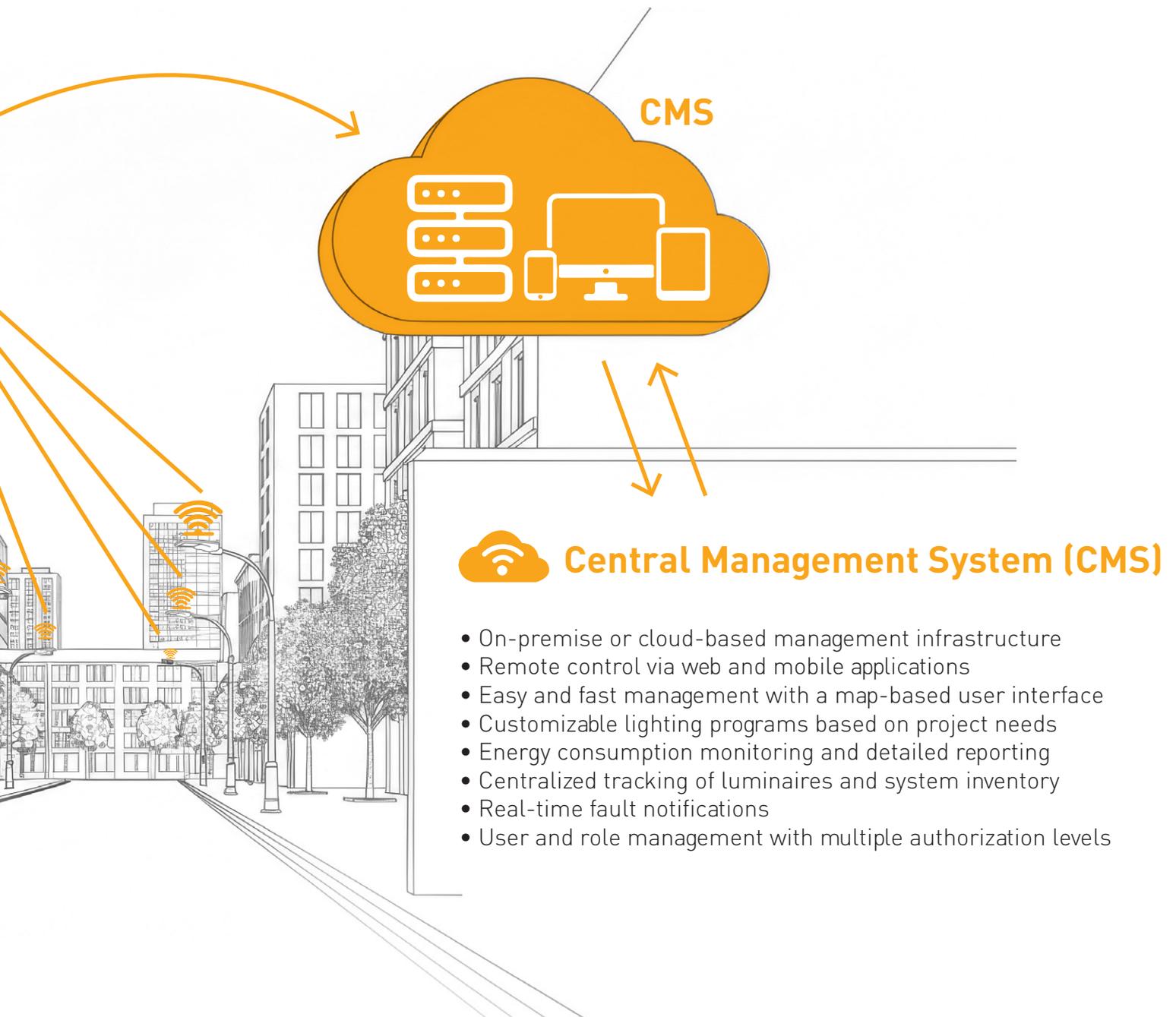


Local Control Unit (LCU)

- Durable structure with IP66 protection for harsh outdoor conditions
- Flexible integration with Zhaga or NEMA socket options
- Full compatibility with the DALI-2 protocol
- LoRaWAN communication infrastructure
- Secure data transmission with 128-bit AES encryption
- Remote control of dynamic lighting levels
- Ability to define project-specific lighting scenarios
- Luminaire-level fault detection and notifications
- Energy-efficient operation with low power consumption
- Built-in GPS for location information
- Stable performance between -40 °C and +70 °C

Area Control Unit (ACU)

- IP67 protection class
- LoRaWAN communication technology
- Wired or GSM connection support
- Continuous communication with the Central Management System (CMS)
- Durable structure suitable for outdoor conditions



Why RIO Senseway?



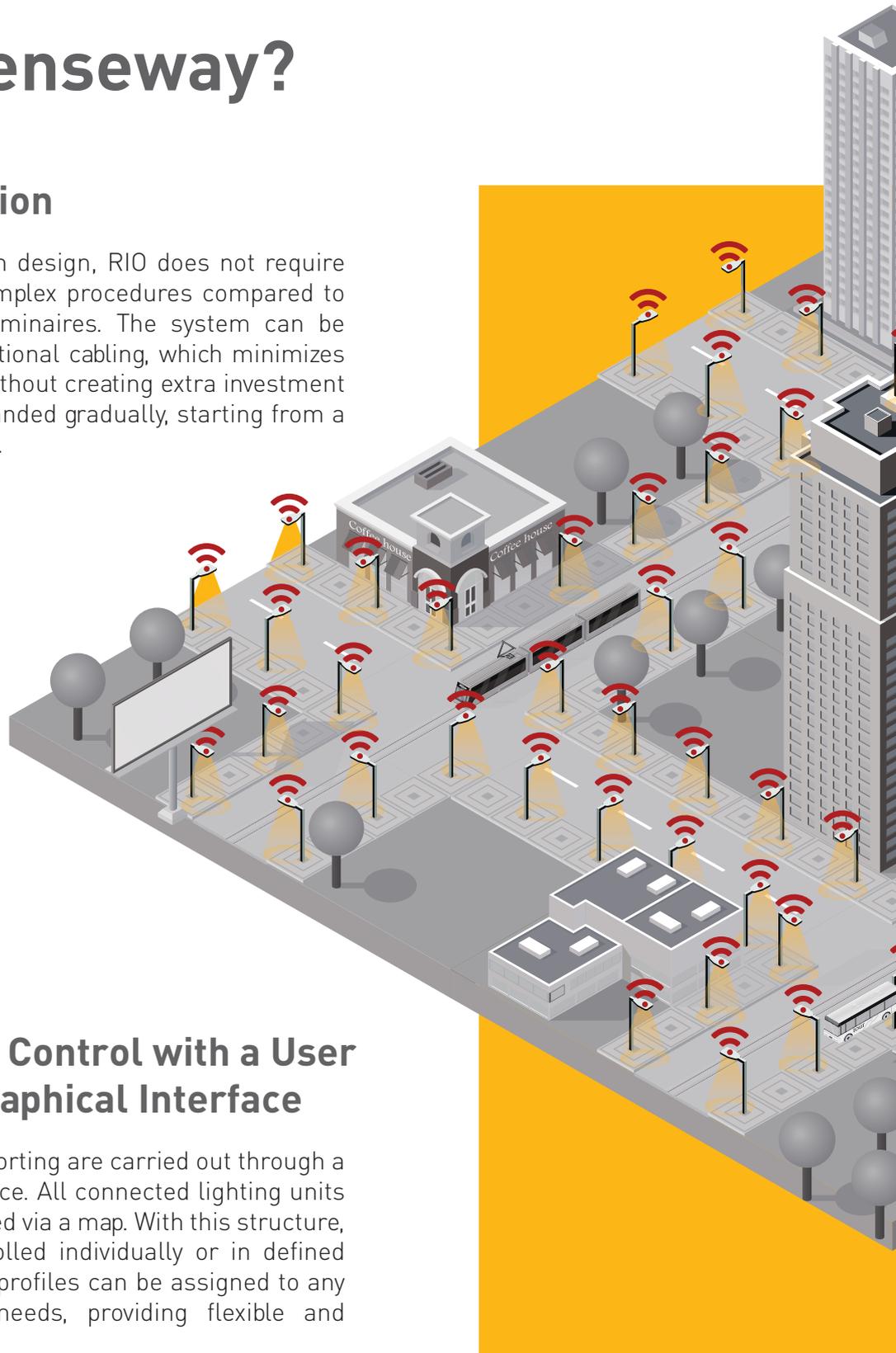
Easy Integration

Thanks to its easy installation design, RIO does not require extra time, equipment, or complex procedures compared to standard road and street luminaires. The system can be activated quickly without additional cabling, which minimizes installation time and costs. Without creating extra investment costs, the system can be expanded gradually, starting from a single street or a limited area.



Map-Based Control with a User Friendly Graphical Interface

All system operations and reporting are carried out through a user-friendly graphical interface. All connected lighting units can be accessed and monitored via a map. With this structure, lighting points can be controlled individually or in defined groups, and different lighting profiles can be assigned to any node or group based on needs, providing flexible and centralized management.





Maintenance and Operational Savings

Thanks to the web-based interface, luminaires can be monitored remotely at their locations. Faults are detected quickly, and their causes can be checked through the system. This removes the need for on-site inspection and power interruption for faulty luminaires, ensures correct intervention, and provides up to 80% savings in maintenance and repair processes.

Up to 80% Energy Savings

Environmentally friendly, low-energy LED technology is combined with smart control systems to achieve up to 80% energy savings in road and street lighting.

Creating Safer Cities

The lighting levels of luminaires monitored with location data can be controlled in real time. In areas where it is needed, lighting levels can be increased instantly. In security-critical areas, predefined scenarios ensure ideal lighting levels at specific times. With smart control systems, safer streets and cities are created.

NEW

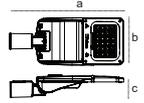


Efficiency up to 170lm/W



Rio XXS

10kV Internal Surge Protection



Power (W)	Color Temp. (K)	Luminous Flux (lm)	Efficacy (lm/W)	Dimensions (mm)axbxc	Consol Entry	Package Weight (kg)	Pcs / Pack
30	4000	5100	170	178x525x120	42-60	3,3	1
35	4000	5600	160	178x525x120	42-60	3,3	1
50	4000	7700	154	178x525x120	42-60	3,3	1
60	4000	8880	148	178x525x120	42-60	3,3	1
75	4000	11250	150	178x525x120	42-60	3,3	1
100	4000	14000	140	178x525x120	42-60	3,3	1

Specifications Aluminium Tempered Glass 3000/4000/6500K IP66 62.000h

Options DALI 1-10V Step DIM Nema Socket Zhaga Socket Electrical Class Marine Painting

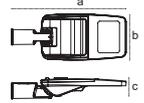


Efficiency up to 165lm/W



Rio Xs G3

10kV Internal Surge Protection



Power (W)	Color Temp. (K)	Luminous Flux (lm)	Efficacy (lm/W)	Dimensions (mm)axbxc	Consol Entry	Package Weight (kg)	Pcs / Pack
50	4000	8250	165	567x232x106	42-60	3,5	1
60	4000	9900	165	567x232x106	42-60	3,5	1
80	4000	11440	143	567x232x106	42-60	3,5	1
100	4000	15000	150	567x232x106	42-60	3,5	1
125	4000	18625	149	567x232x106	42-60	3,5	1
150	4000	20550	137	567x232x106	42-60	3,5	1

Specifications Aluminium Tempered Glass 3000/4000/6500K IP66 62.000h 5 Years

Options DALI 1-10V Step DIM Nema Socket Zhaga Socket Electrical Class Marine Painting

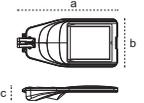


Efficiency up to 165lm/W



Rio S G2 IP66

10kV Internal Surge Protection



Power (W)	Color Temp. (K)	Luminous Flux (lm)	Efficacy (lm/W)	Dimensions (mm)axbxc	Consol Entry	Package Weight (kg)	Pcs / Pack
80	4000	13200	165	476x280x111	42-60	6,1	1
100	4000	16300	163	476x280x111	42-60	6,1	1
125	4000	19125	153	476x280x111	42-60	6,1	1
140	4000	20300	145	476x280x111	42-60	6,1	1
150	4000	22200	148	476x280x111	42-60	6,1	1
200	4000	26800	134	476x280x111	42-60	6,1	1

Specifications Aluminium Tempered Glass 3000/4000/6500K IP66 62.000h 5 Years

Options DALI 1-10V Step DIM Nema Socket Zhaga Socket Electrical Class Marine Painting

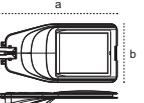


Efficiency up to 160lm/W



Rio M G2 IP66

10kV Internal Surge Protection



Power (W)	Color Temp. (K)	Luminous Flux (lm)	Efficacy (lm/W)	Dimensions (mm)axbxc	Consol Entry	Package Weight (kg)	Pcs / Pack
180	4000	28800	160	616x330x124	42-60	7,5	1
200	4000	31600	158	616x330x124	42-60	7,5	1

Specifications Aluminium Tempered Glass 3000/4000/6500K IP66 62.000h 5 Years

Options DALI 1-10V Step DIM Nema Socket Zhaga Socket Electrical Class Marine Painting

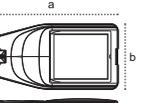


Efficiency up to 145lm/W



Rio L IP66

10kV Internal Surge Protection



Power (W)	Color Temp. (K)	Luminous Flux (lm)	Efficacy (lm/W)	Dimensions (mm)axbxc	Consol Entry	Package Weight (kg)	Pcs / Pack
240	4000	34800	145	727x370x131	42-60	10,1	1
270	4000	38610	143	727x370x131	42-60	10,1	1
300	4000	42000	140	727x370x131	42-60	10,1	1

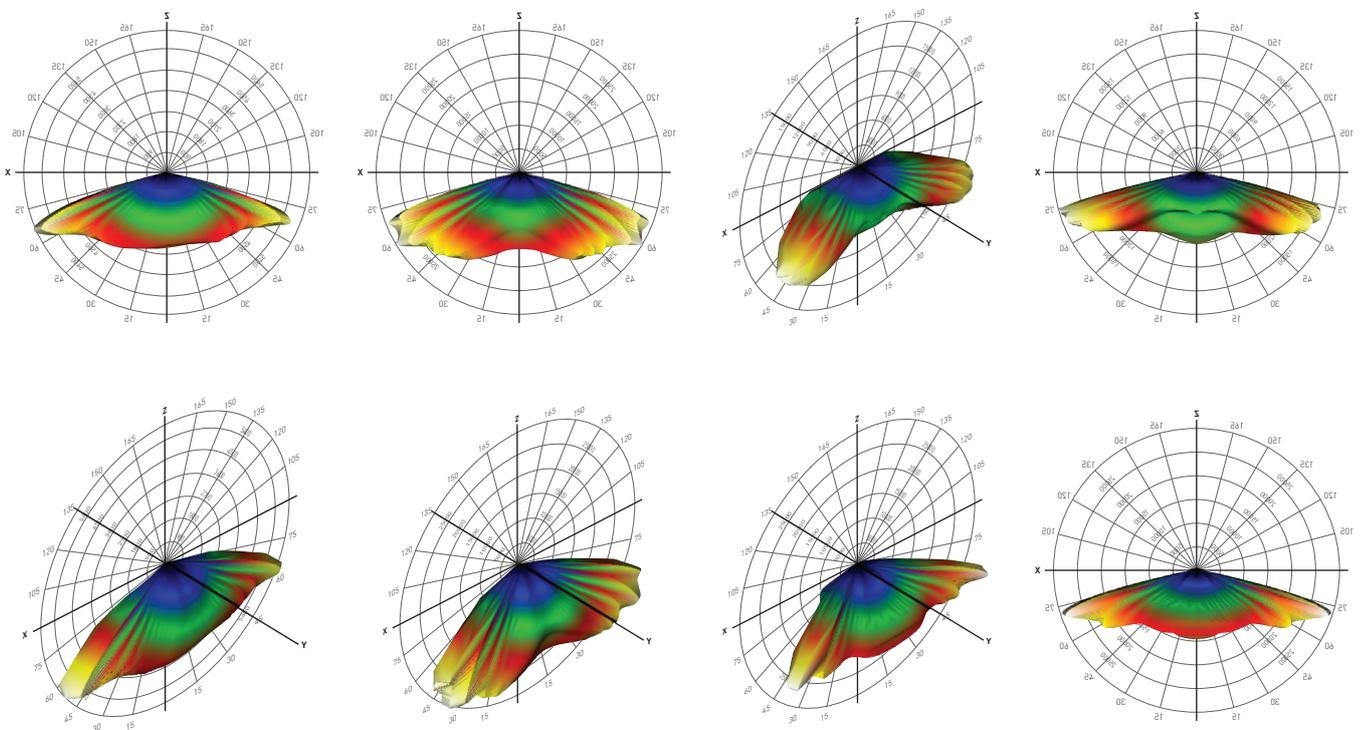
Specifications Aluminium Tempered Glass 3000/4000/6500K IP66 62.000h 5 Years

Options DALI 1-10V Step DIM Nema Socket Zhaga Socket Electrical Class Marine Painting

Application-optimized optics, in a wide range

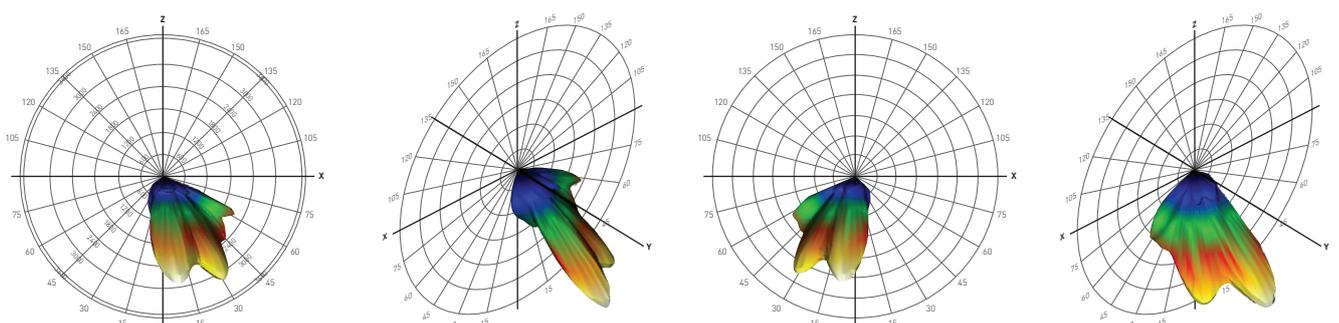
A range of 30+ optics optimized for road width, pole height, road surface type, pole spacing, application type, and visual performance limits. The right optical choice achieves target performance with fewer luminaires and lower installation cost (CAPEX), while efficient light control reduces energy use and operating cost (OPEX).

Most Common Optics



Critical Point Optics

Pedestrian Crossing / Bus Stop / School Front





Mechanical Specifications

Body	Aluminium
IP Rating	IP66
IK Rating Body	IK09
Scx≤	0,093
Weight (kg)	3,3
RAL Code	7043
Dimensions (mm)	525x178x120 - 727x370x131mm
Side Console Entry	42-60mm
Top Console Entry	42-60mm
Console Angle	0° -5° -10° -15 °



Electrical Specifications

Power	30W-300W
LED Chip Lifetime	L90 Tc@105°C >137.000h
LED Driver Lifetime	Tc@65°C >120.000h.
Input Voltage	90-305Vac
Frenquency	50-60Hz
Power Factor	>0.95
SPD	10kV
Total Harmonic	<%10
Operating Temperature	-20°C / +45°C
Class	I



Optical Specifications

Luminous Flux	5100 - 42000lm
Efficacy	Up to 170lm/W
Lens	PMMA
Diffuser	Tempered Glass
ULOR	0%
Lighting Class (ME1-ME6)	M1-M6
CRI	>70
Color Standard	Quarter Bin
Colour Temperature	3000K / 4000K / 6500K



Optionals

DALI	Suitable
Nema7 Socket	Suitable
Zhaga Socket	Suitable
Class I & Class II	Suitable
Marine Painting	Suitable
2 Step Dim	Suitable
1-10V	Suitable
External SPD (10kV)	Suitable



Pelsan



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