EcoLux e³ Series

Street and Highway Luminaires

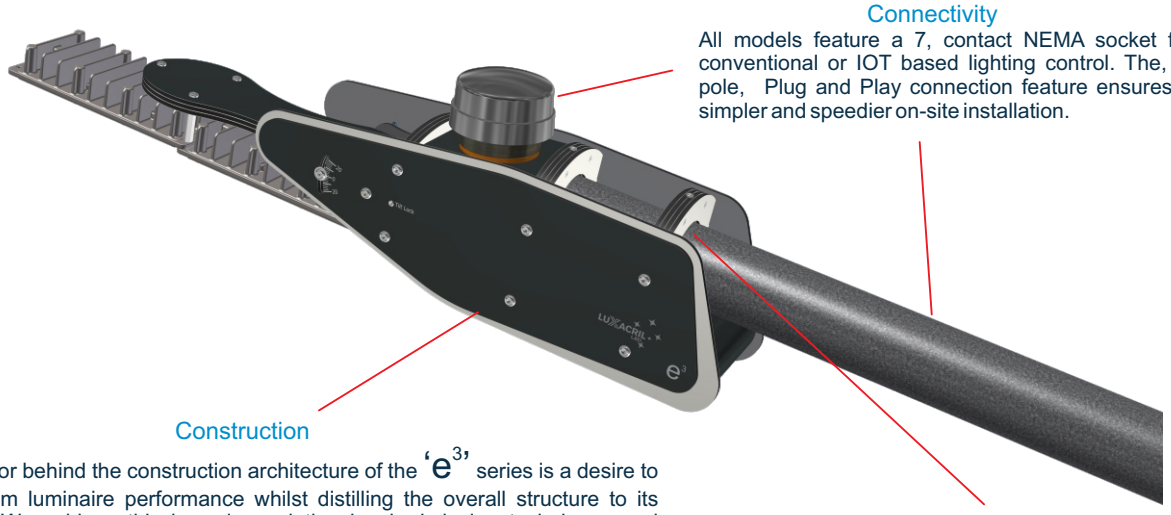
INDUSTRIA PARAGUAYA

LUXACRIL LED

EcoLux e³

Economic, Environmental, Ecological Sustainability

'Achieving the balance between commercial pressures and the needs of our planetary environment is what drives our design philosophy at Luxacril Led. With strong roots in the aerospace industry our engineering team has leveraged advanced materials and design techniques to craft a product that delivers maximum performance with minimal environmental impact.
Using aircraft inspired built up composite techniques in lieu of processes with higher carbon penalties we have delivered a cost effective, reliable product with the lowest environmental impact in its class as well as ensuring future proofing with features that will deliver continued service decade after decade.'



Connectivity

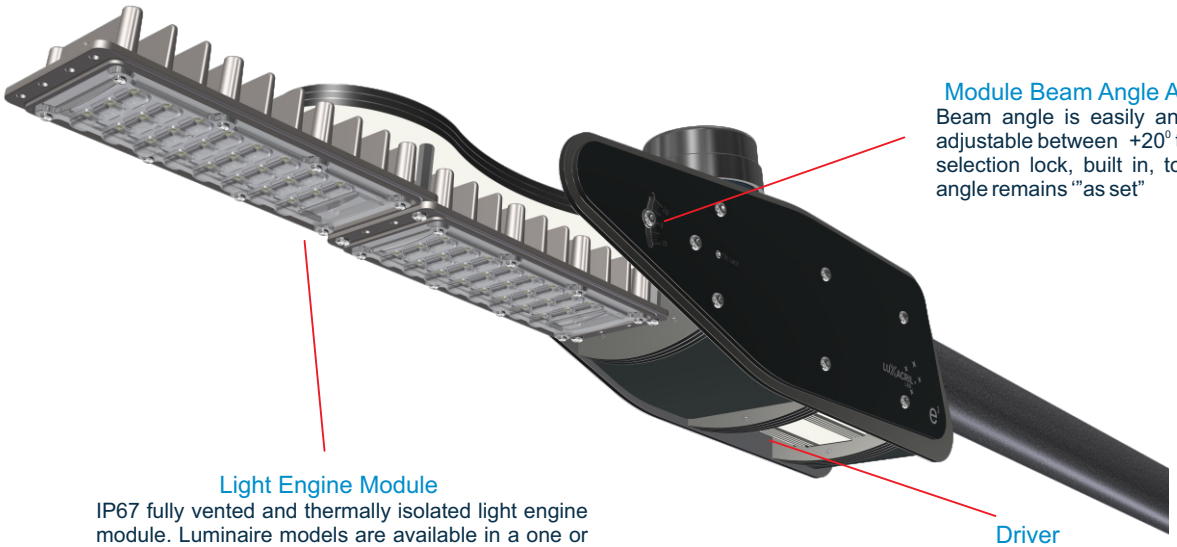
All models feature a 7, contact NEMA socket for conventional or IOT based lighting control. The, in pole, Plug and Play connection feature ensures a simpler and speedier on-site installation.

Construction

The driving factor behind the construction architecture of the 'e³' series is a desire to deliver maximum luminaire performance whilst distilling the overall structure to its simplest form. We achieve this by using aviation inspired design techniques and material principles to strike a harmonious balance between aesthetics, structure and Carbon neutrality. The end result is a product that typically uses 80% less aluminium than mainstream pressure cast products.

Spigot Mounting Clamp

Double redundant, vibration resistant, mounting clamps will accept spigot sizes with OD ranging anywhere from 33 to 63 mm.



Module Beam Angle Adjustment

Beam angle is easily and conveniently adjustable between +20° to -20° with final selection lock, built in, to ensure beam angle remains '"as set"

Light Engine Module

IP67 fully vented and thermally isolated light engine module. Luminaire models are available in a one or three up configurations depending on output required.

Driver

Built-in IP67 thermally isolated and managed driver module. Convective chimney design incorporated into luminaire housing guarantees superior thermal performance and ensures OEM published driver lifetimes are met.

Typical Architecture

EcoLux e3

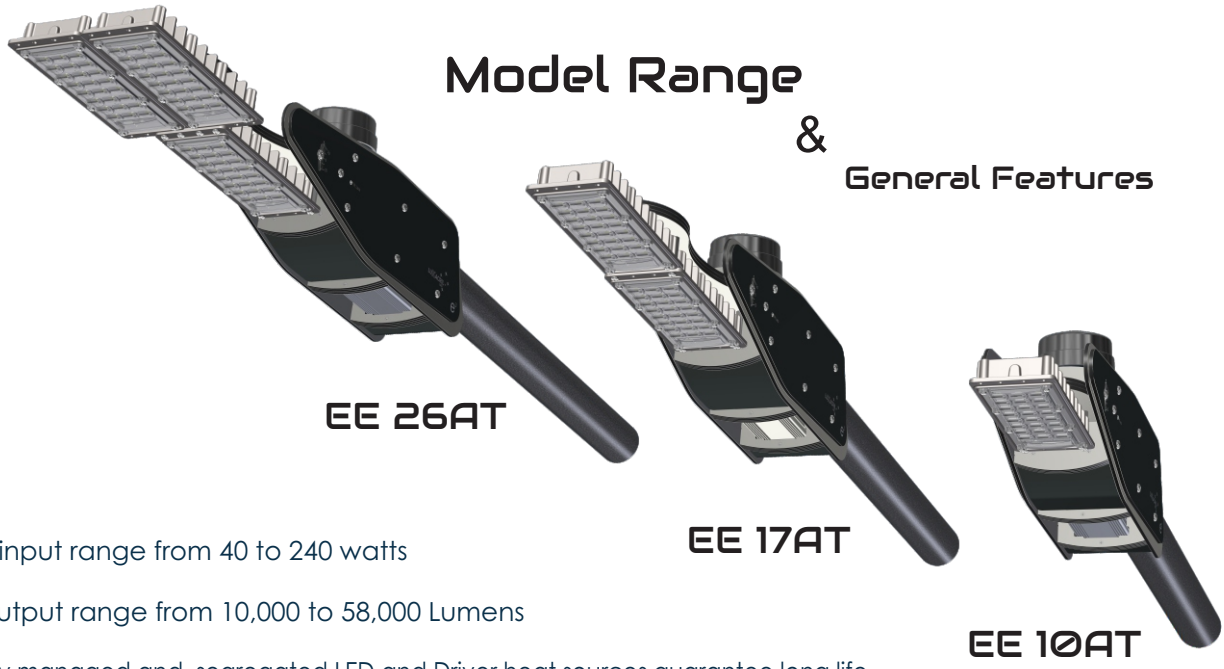
IP67

IK09

t_a 53°c

mercury-free

Model Range & General Features



- Power input range from 40 to 240 watts
- Light output range from 10,000 to 58,000 Lumens
- Thermally managed and segregated LED and Driver heat sources guarantee long life
- Precision 'Ledil' optics eliminating wasteful and polluting stray light
- Built-In 10 Kv/Ka Surge protection
- Plug and Play Installation with Voltage Input Range 90 - 305VAC
- Built-in driver with 10% to 100% Programmable dimming with options for DALI and centralised IOT control
- Suitable for standard grid, wind and solar power sources
- Robust, lightweight, vibration resistant Composite construction significantly reducing Luminaire Aluminium Content
- All models feature "On Pole" beam angle adjustment from +20° to -20° with final setting lock
- Double redundant, multiple size, spigot mounting clamps accommodate 33 to 63 mm spigots
- Designed for use in all wind areas including Cat. D Cyclone
- CE, TM21 and LM79 Certification
- Standard 5 year warranty

Applications:

- Motorway/Freeway Major Interchange
- Standard City and Urban Roadways
- Pathway and cycleway
- Parks and open Areas
- Zero Cut-Off Wide Area Floodlighting

EE 10 AT

Performance Summary

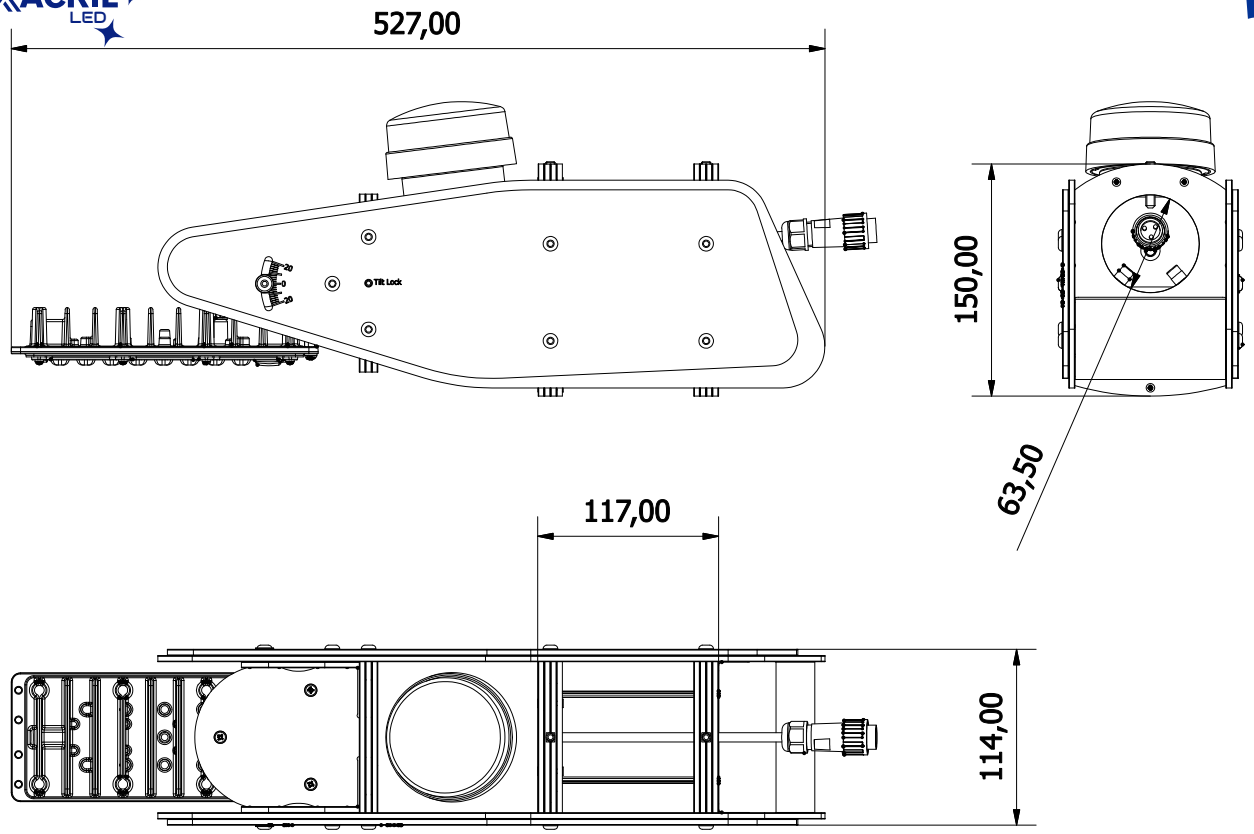
IP67

IK09

t_a 53°c

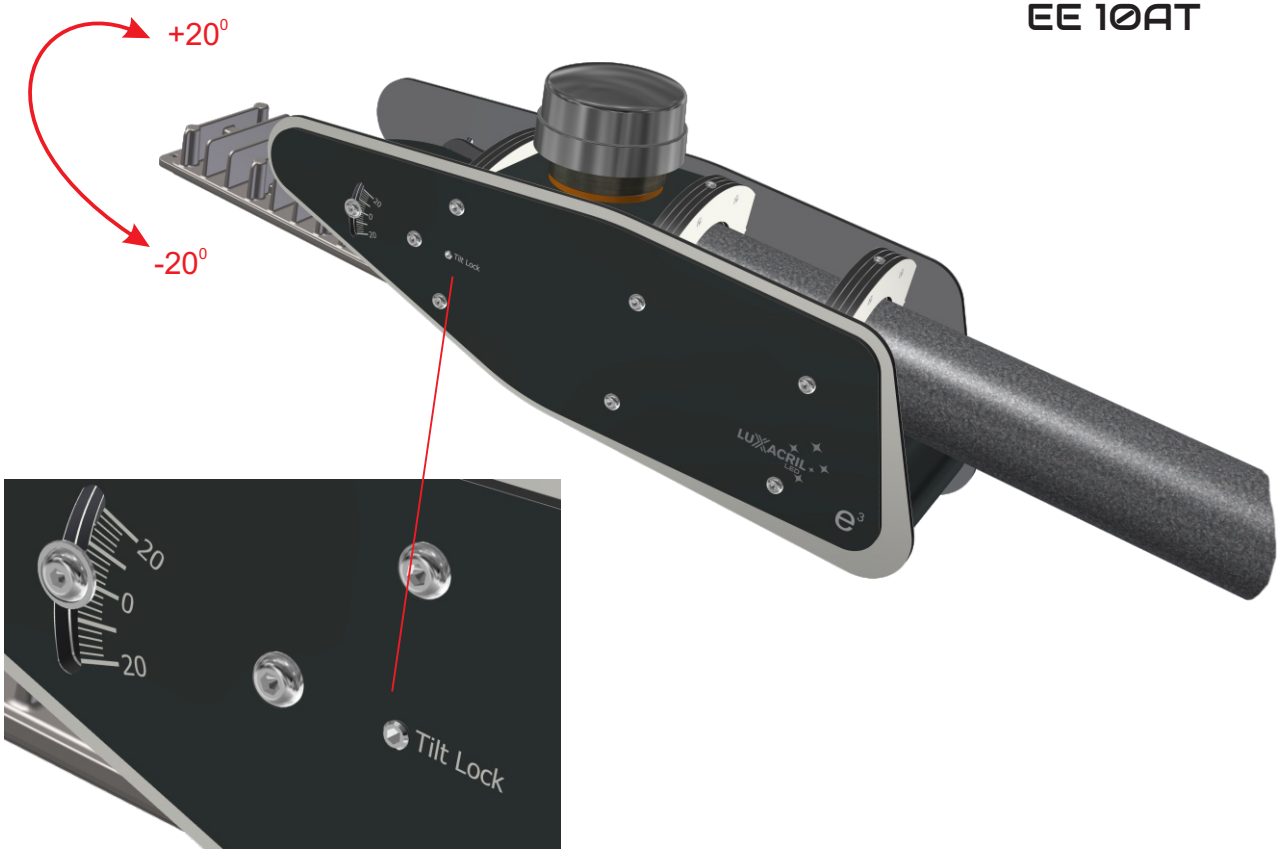
mercury-free

Performance Summary EE 10KL/AT	Driver Module
	Inventronics EUM 050/EUM 100
Delivered Light Output (Lumens)*	10,000 - 19,200
Luminaire Input Power(watts)	40 - 80 Watts
Input Voltage(Vac)	90 - 305
Frequency (Hz)	47 - 63
Power Factor	> 0.96 @ 230V
Light Source	Osram S8 Gen5 5050 High Brightness
Colour Rendering Index(CRI)	Ra 70 *Lumen values at 5000k Ra 70
Correlated Colour Temp. (CCT °K)	3000, 4000, 5000 @R_A 70
Efficacy (Lumens/Watt) @ 25°C	256 - 240
Working Life (L_{70} @ 40°c)	> 100,000 Hours with Lumen Degradation < 2%/Annum
Operating Temperature (°c)	-45 - +53



- Weight 2.7kg
- Max Effective Sail Area 0.035m^2

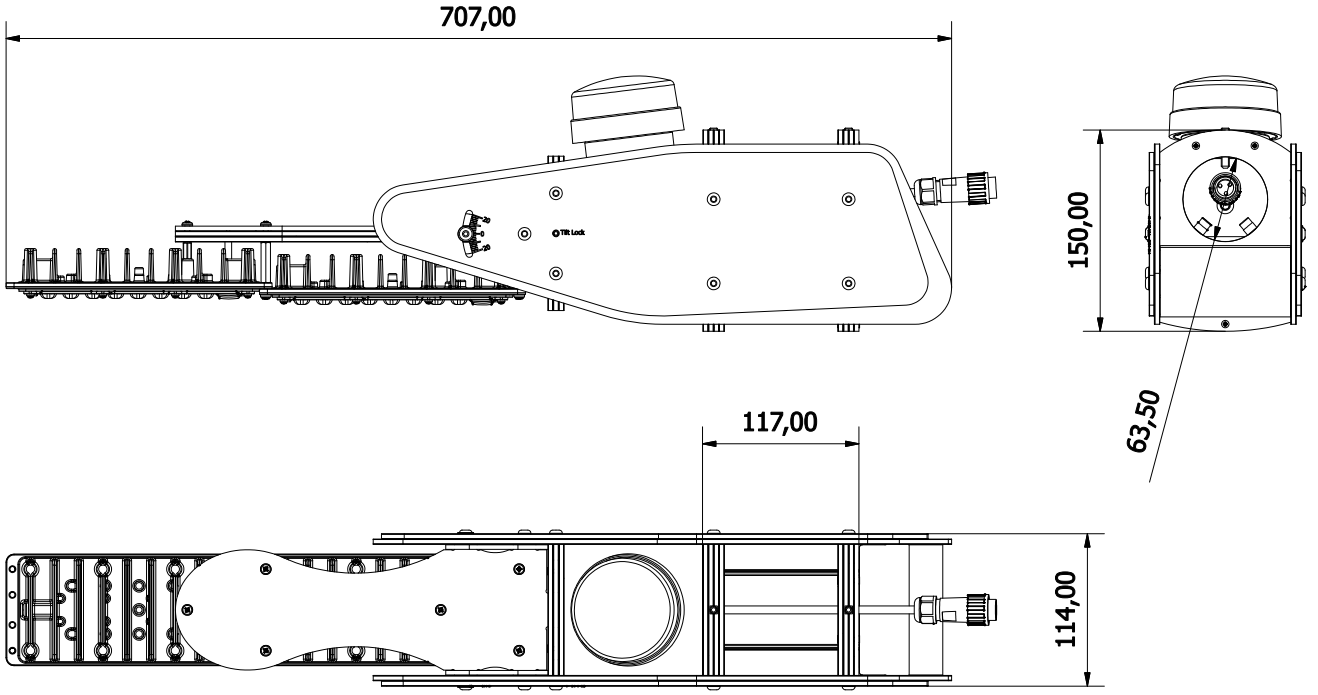
EE 10AT



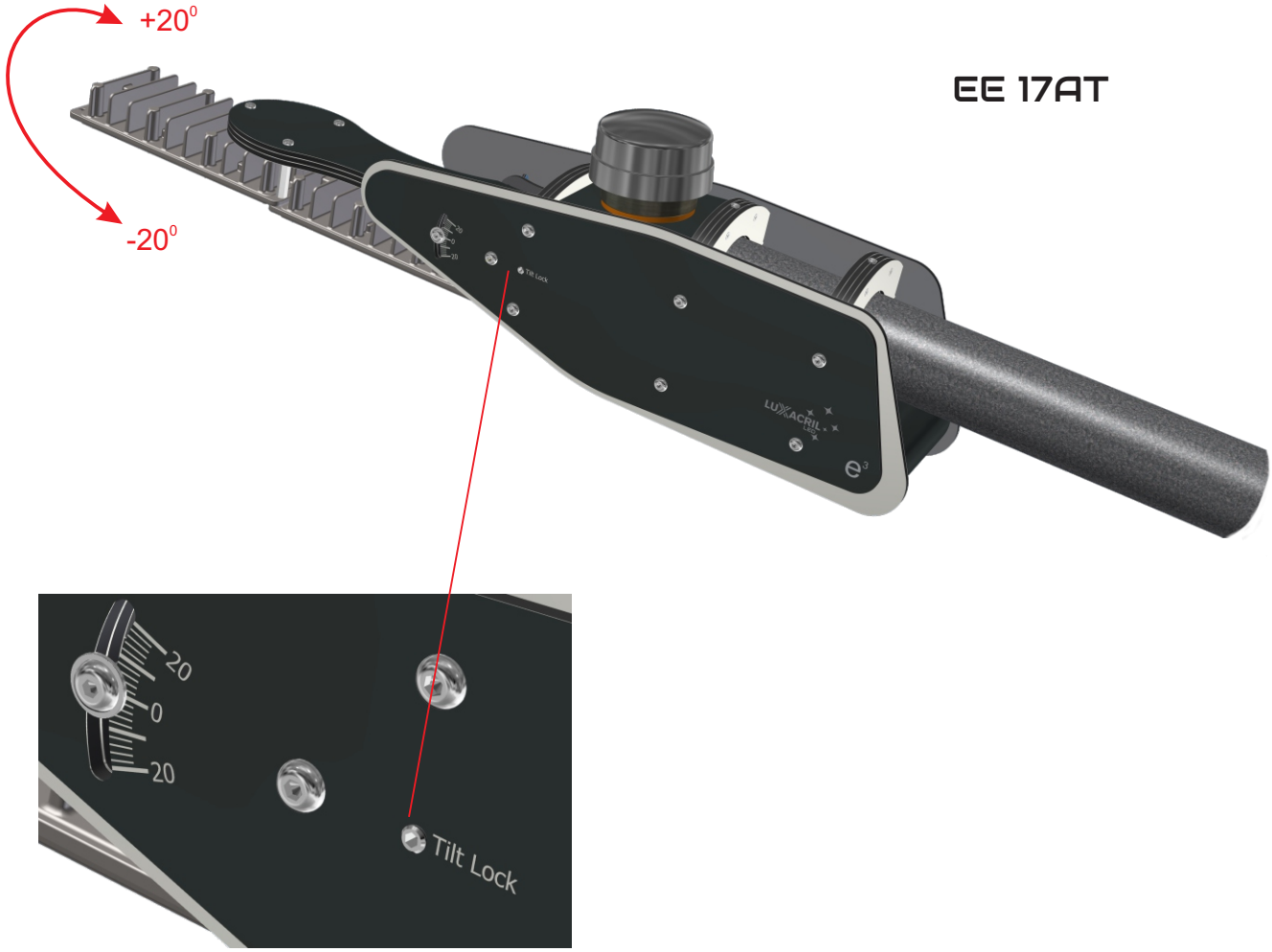
EE 17AT

Performance Summary

Performance Summary EE 17KL/AT	Driver Module
	Inventronics EUM-100/150 xxxDG
Delivered Light Output (Lumens)*	25,600 to 36,000
Luminaire Input Power(watts)	100 -150 Watts
Input Voltage(Vac)	90 - 305
Frequency (Hz)	47 - 63
Power Factor	> 0.96 @ 230V
Light Source	Osram S8 Gen5 5050 High Brightness
Colour Rendering Index(CRI)	Ra 70 *Lumen values at 5000k Ra 70
Correlated Colour Temp. (CCT ^{0}K)	3000, 4000, 5000 @R_A 70
Efficacy (Lumens/Watt) @ 25^{0}C	256 - 240
Working Life (L_{70} @ 40^{0}c)	> 100,000 Hours with Lumen Degradation < 2%/Annum
Operating Temperature (^{0}c)	-45 - +53



- Weight 3.5 kg
- Max Effective Sail Area 0.038m^2



EE 26AT

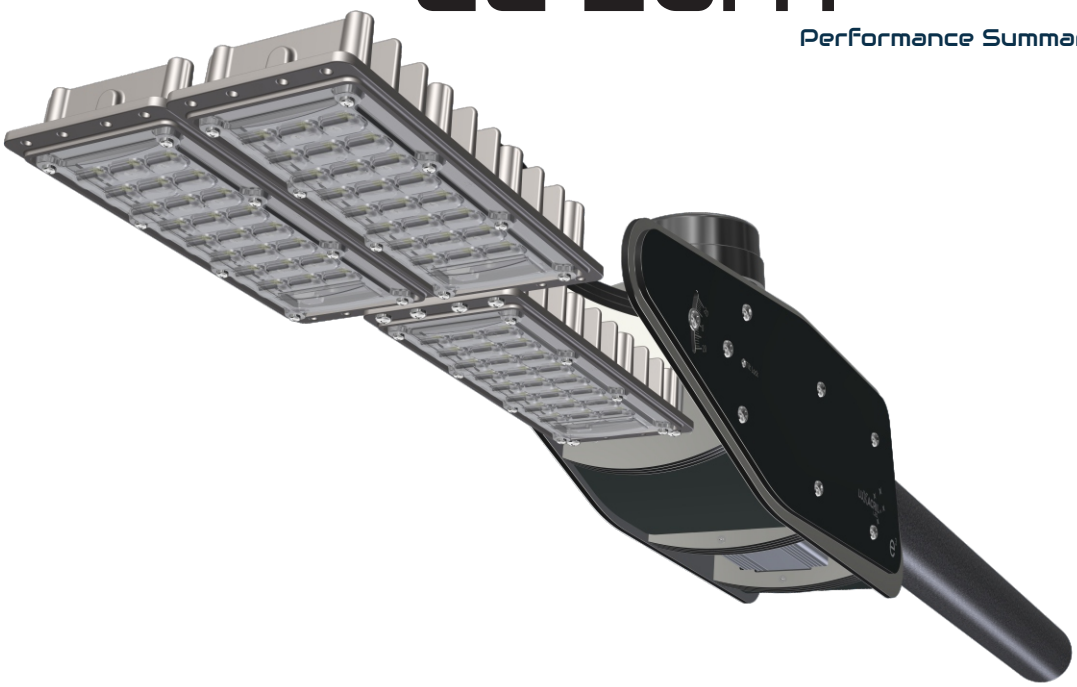
Performance Summary

IP67

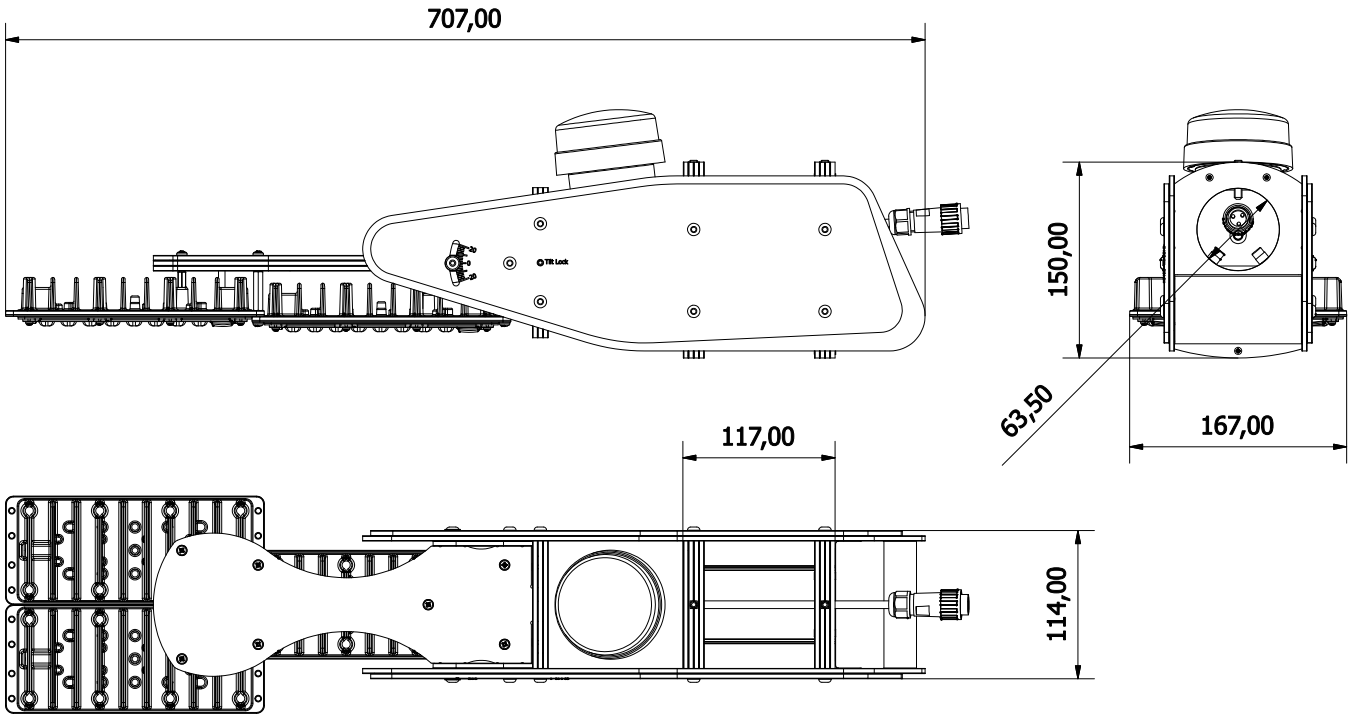
IK09

t_a 53°c

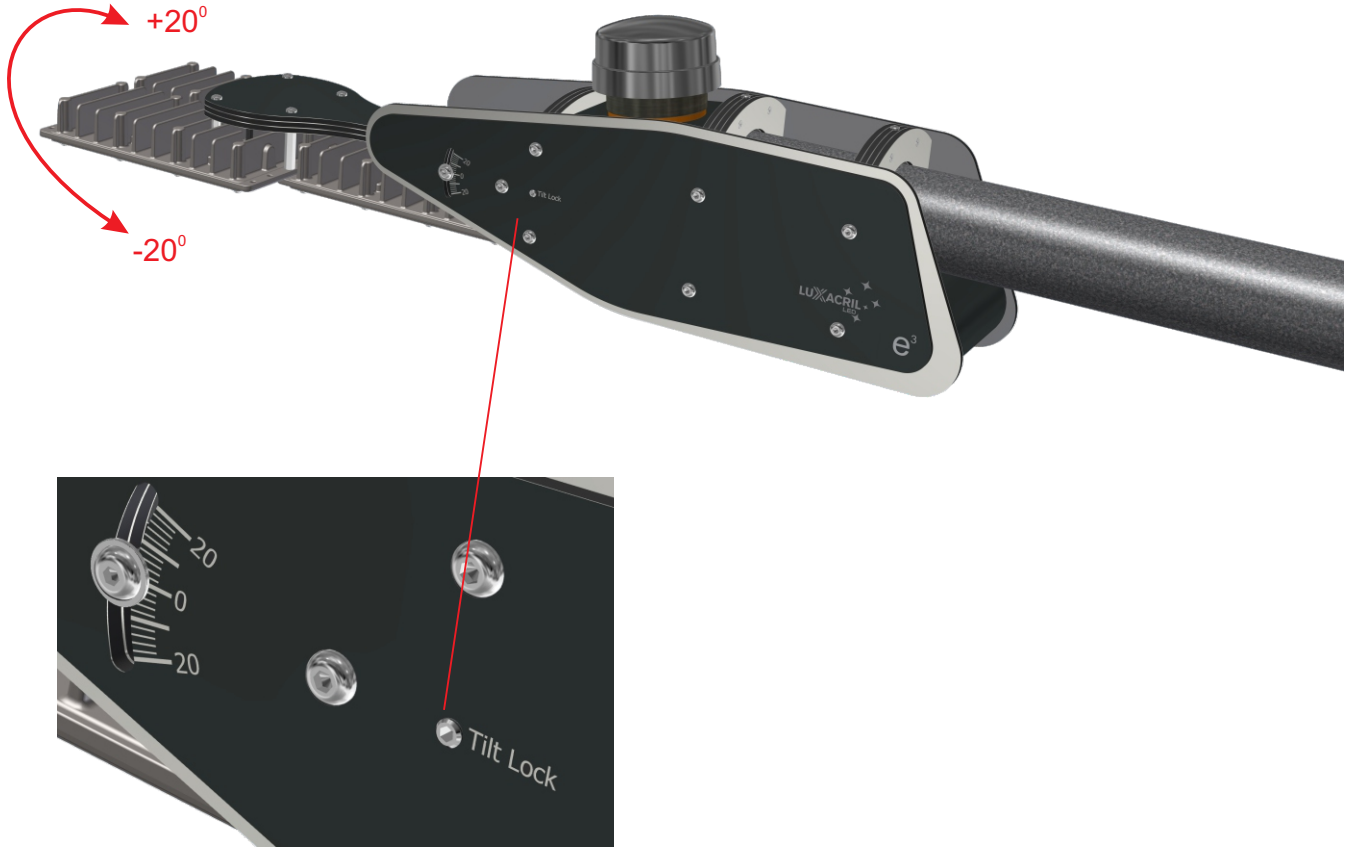
mercury-free



Performance Summary EE 26AT	Driver Module
	Inventronics EUM-200/240SxxxDG
Delivered Light Output (Lumens)*	50,000 to 58,000
Luminaire Input Power(watts)	200 to 240 Watts
Input Voltage(Vac)	90 - 305
Frequency (Hz)	47 - 63
Power Factor	> 0.96 @ 230V
Light Source	Osram S8 Gen5 5050 High Brightness
Colour Rendering Index(CRI)	Ra 70 *Lumen values at 5000k Ra 70
Correlated Colour Temp. (CCT °K)	3000, 4000, 5000 @R_A 70
Efficacy (Lumens/Watt) @ 25°C	250 - 242
Working Life (L_{70} @ 40°c)	> 100,000 Hours with Lumen Degradation < 2%/Annum
Operating Temperature (°c)	-45 - +53



- Weight 4.0 kg
- Max Effective Sail Area 0.038m^2



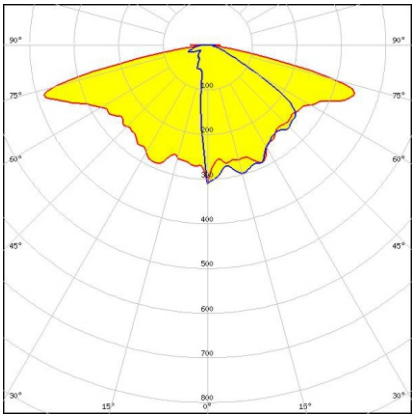
EcoLux e3

Optics

EcoLux luminaires are fitted with an IESNA Type II Medium lens manufactured from high grade polycarbonate however, the system is fully compatible with the following STELLA range of street light beam options from Ledil. These highly efficient designs will enable solutions for a wide variety of applications.

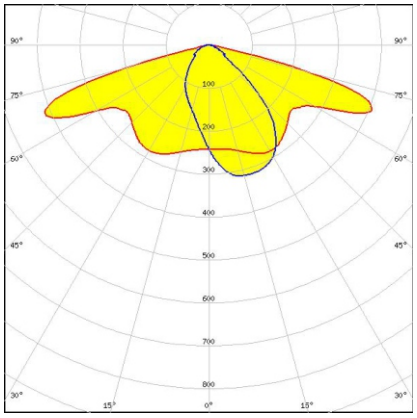
Lens mixing is also available on EE-17/26/35KL/AT models for enhanced flexibility in more demanding optical scenarios

CS15887_STRADA-IP-2X6-T3-B-90



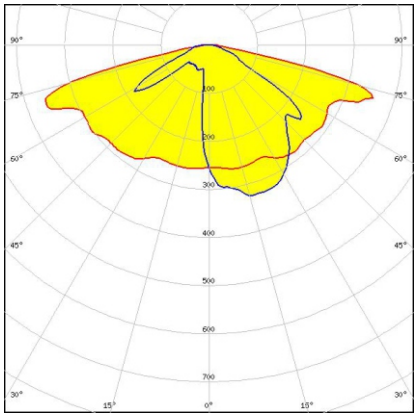
IESNA Type III (medium) beam with minimized backlight. Variant with beam direction rotated 90°.

CS16397_STRADA-IP-2X6-T2-C-90-PC



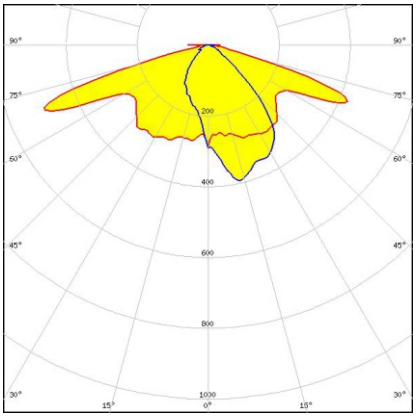
IESNA Type II (medium) beam with added house side backlight. Designed for tilted and long armatures. Variant with beam direction rotated 90°. Variant made from PC.

CS14143_STRADA-IP-2X6-T3



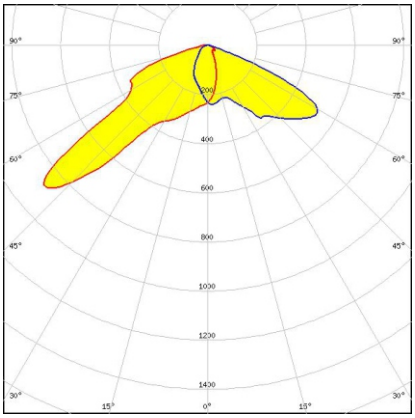
IESNA Type III (medium) beam for roads that are equal to or wider than mounting height

CS15223_STRADA-IP-2X6-T2-C-90



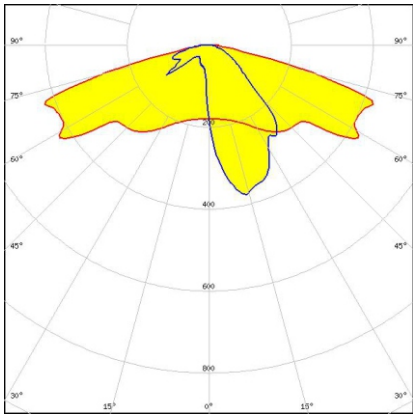
IESNA Type II (medium) beam with added house side backlight. Designed for tilted and long armatures. Variant with beam direction rotated 90°.

CS18529_STRADA-IP-2X6-PXL



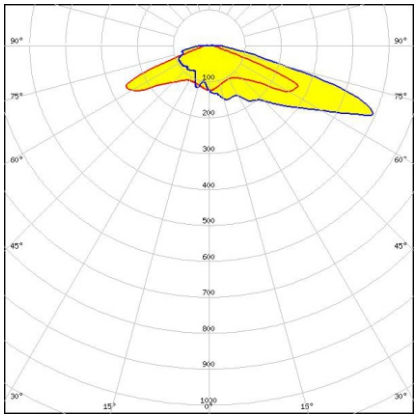
Fully asymmetric beam designed to highlight pedestrian crossings for left side traffic

CS14055_STRADA-IP-2X6-T2



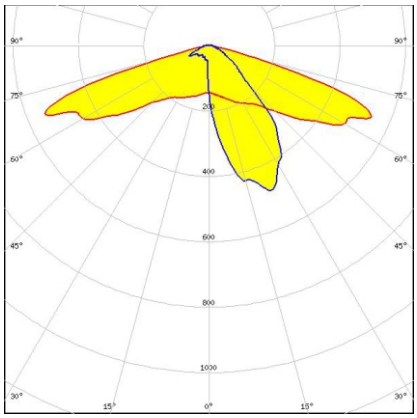
IESNA Type II (medium) beam applicable for European P-class standard pedestrian lighting and M-class roads

CS15158_STRADA-IP-2X6-T4-B



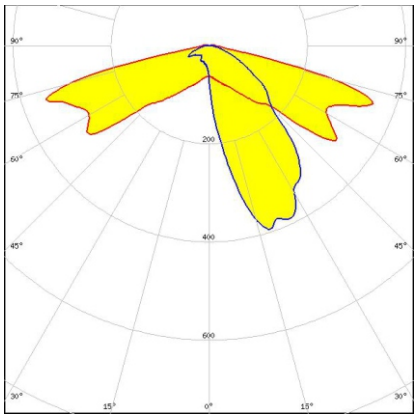
Wide IESNA Type IV beam with forward-throw beam for wide area lighting like car parks

CS15886_STRADA-IP-2X6-T2-B-90



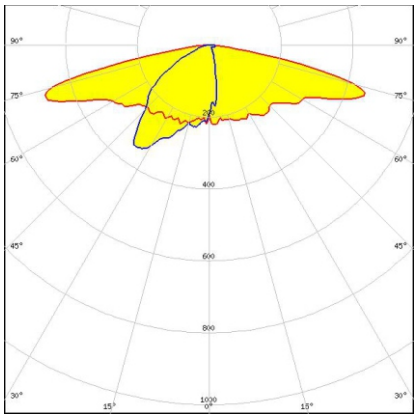
IESNA Type II (medium) beam with minimized house side backlight. Variant with beam direction rotated 90°.

CS17307_STRADA-IP-2X6-T2-B-PC



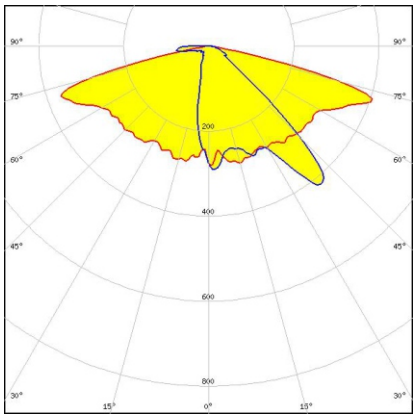
IESNA Type II (medium) beam with minimized house side backlight. Variant made from PC.

CS13756_STRADA-IP-2X6-DWC-PC



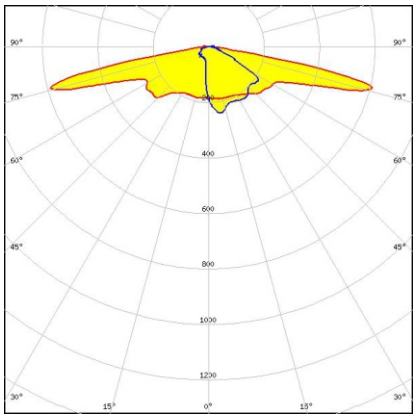
Universal road lighting (IESNA Type II medium) beam with excellent mixed illuminance and luminance uniformity. Variant made from PC.

CS15071_STRADA-IP-2X6-ME-PC



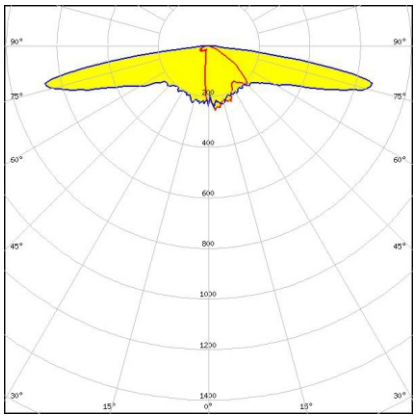
Beam with excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements where road width is equal to or less than the pole height. Variant made from PC.

CS15871_STRADA-IP-2X6-T3-L



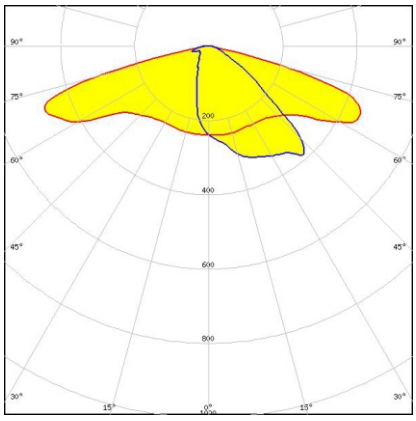
IESNA Type III (medium) beam for long pole distances and up to 8x mounting height. Suitable for European P-class and pathway lighting

CS17261_STRADA-IP-2X6-SCL-PC



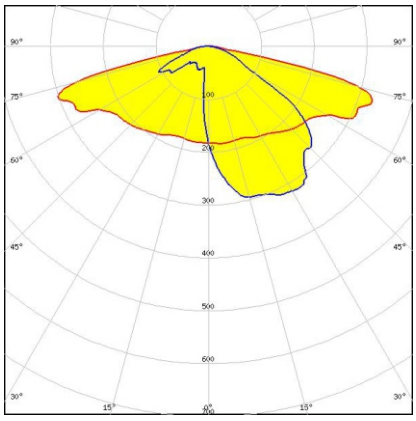
Type II/III (long) beam for very wide pole to pole distances. Ideal for pedestrian paths and residential roads. EN13201 P-classes. Variant made from PC.

CS12862_STRADA-IP-2X6-DWC



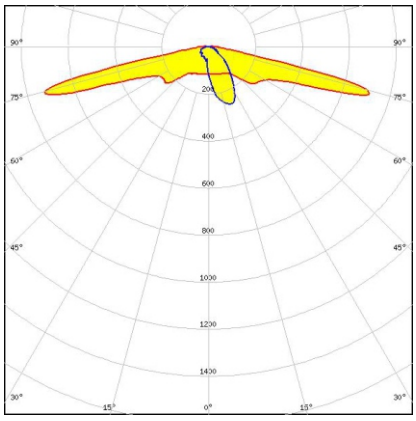
Universal road lighting (IESNA Type II medium) beam with excellent mixed illuminance and luminance uniformity.

CS15068_STRADA-IP-2X6-T3-PC



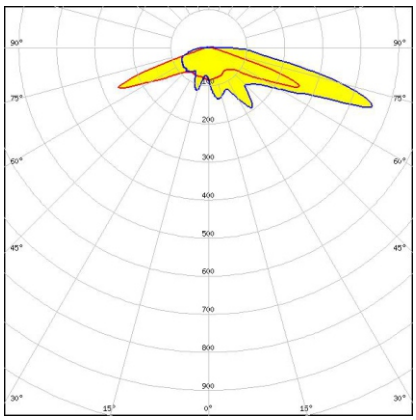
IESNA Type III (medium) beam for roads that are equal to or wider than mounting height. Variant made from PC.

CS15870_STRADA-IP-2X6-T2-L



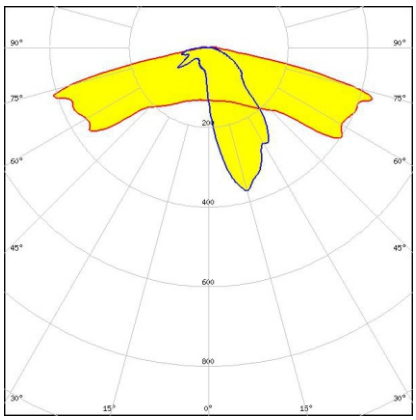
IESNA Type II (medium) beam for long pole distances and up to 8x mounting height. Suitable for European P-class and pathway lighting.

CS17259_STRADA-IP-2X6-T4-B-PC



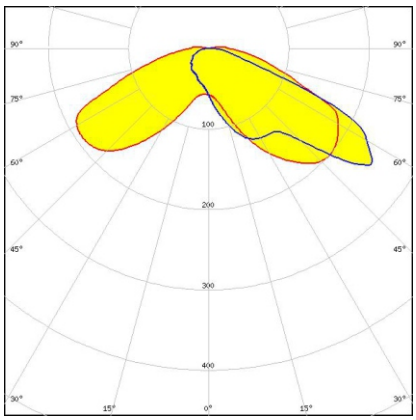
Wide IESNA Type IV beam with forward-throw beam for wide area lighting like car parks. Variant made from PC.

CS15066_STRADA-IP-2X6-T2-PC



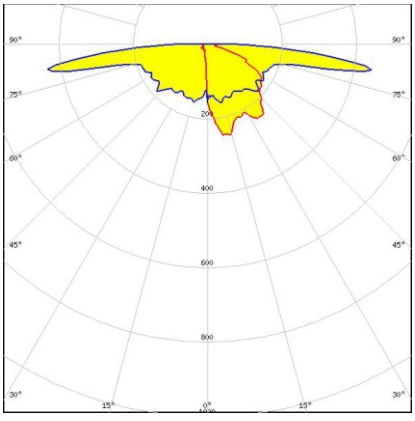
IESNA Type II (medium) beam applicable for European P-class standard pedestrian lighting and M-class roads. Variant made from PC.

CS15689_STRADA-IP-2X6-FW



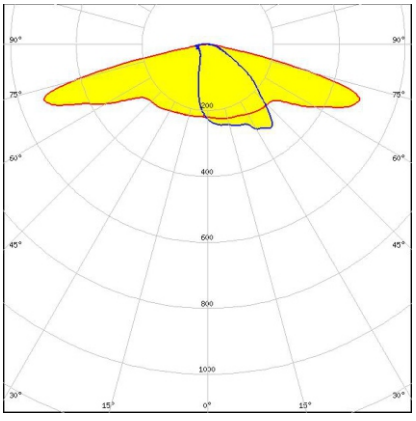
Beam with wide light distribution and good illuminance uniformity for residential street lighting and staggered pole setups

CS17255_STRADA-IP-2X6-T3-L-PC



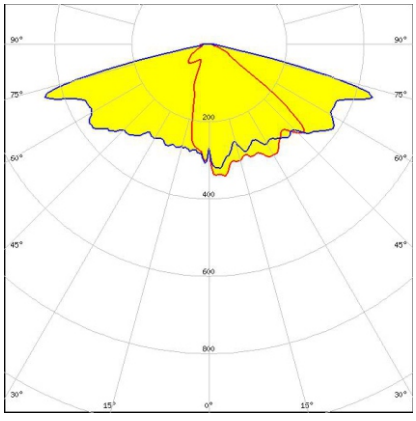
IESNA Type III Medium beam for long pole distances and up to 8x mounting height. Suitable for European P-class and pathway lighting. Variant made from PC.

CS15055_STRADA-IP-2X6-DWC-90-PC



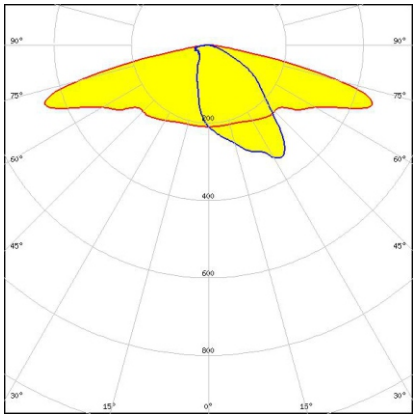
Universal road lighting (typically IESNA Type III medium) beam with excellent mixed illuminance and luminance uniformity. Variant with beam direction rotated 90°. Variant made from PC.

CS15671_STRADA-IP-2X6-DWC-B



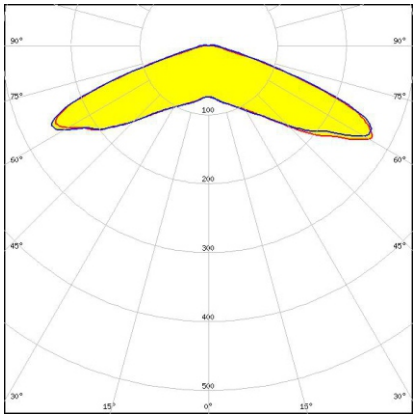
Universal road lighting (IESNA Type II Medium) beam with excellent mixed illuminance, luminance uniformity and minimized backlight.

CS17252_STRADA-IP-2X6-DWC-B-PC



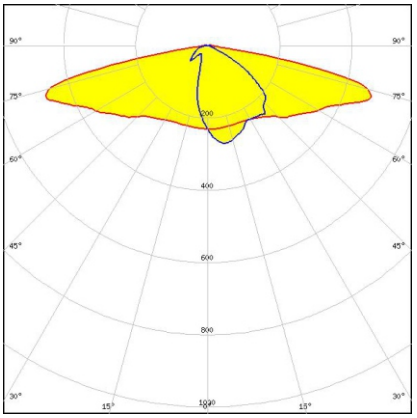
Universal road lighting (IESNA Type II Medium) beam with excellent mixed illuminance, luminance uniformity and minimized backlight. Variant made from PC.

CS15020_STRADA-IP-2X6-VSM



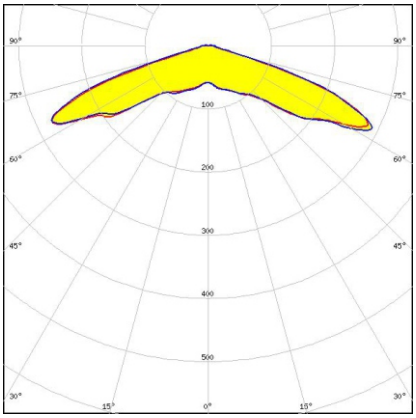
IESNA Type V (square) beam for wide area lighting such as car parks

CS15418_STRADA-IP-2X6-SCL



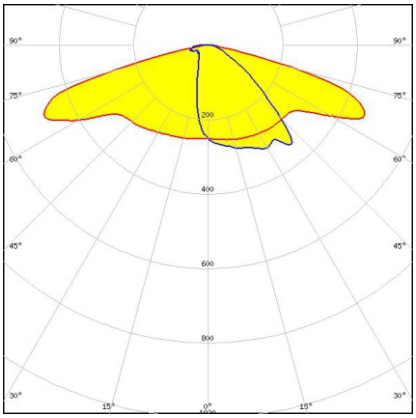
Type II/III (long) beam for very wide pole to pole distances. Ideal for pedestrian walkways and residential road lighting. (EN13201 P-classes)

CS17082_STRADA-IP-2X6-VSM-PC



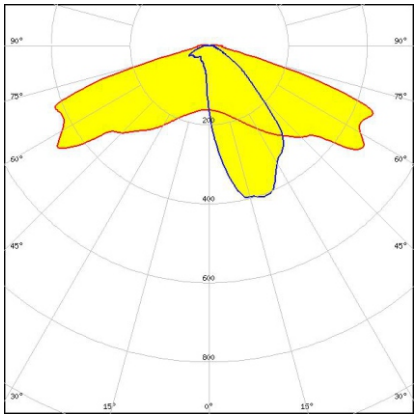
IESNA Type V (square) beam for wide area lighting such as car parks. Variant made from PC.

CS14145_STRADA-IP-2X6-DWC-90



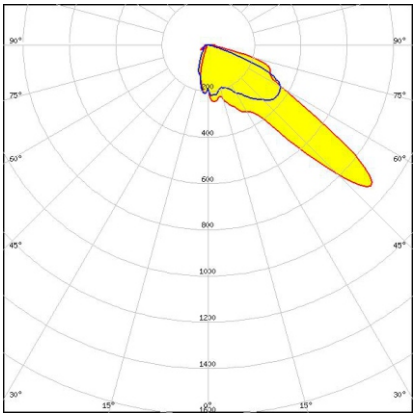
Universal road lighting (typically IESNA Type III medium) beam with excellent mixed illuminance and luminance uniformity. Variant with beam direction rotated 90°.

CS15363_STRADA-IP-2X6-T2-B



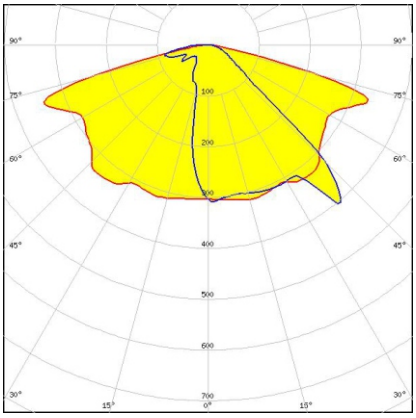
IESNA Type II (medium) beam with minimized house side backlight.

CS16401_STRADA-IP-2X6-PX



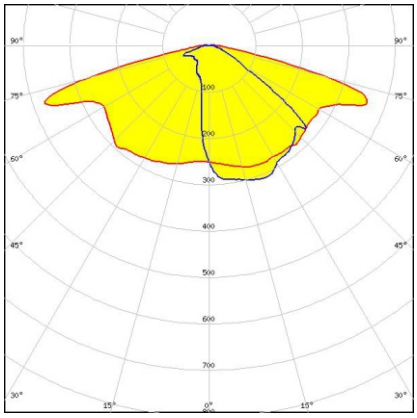
Double asymmetric beam designed to highlight pedestrian crossings for right side traffic

CS14144_STRADA-IP-2X6-ME



Beam with excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements where road width is equal to or less than the pole height

CS15362_STRADA-IP-2X6-T3-B



IESNA Type III (medium) beam with minimized backlight