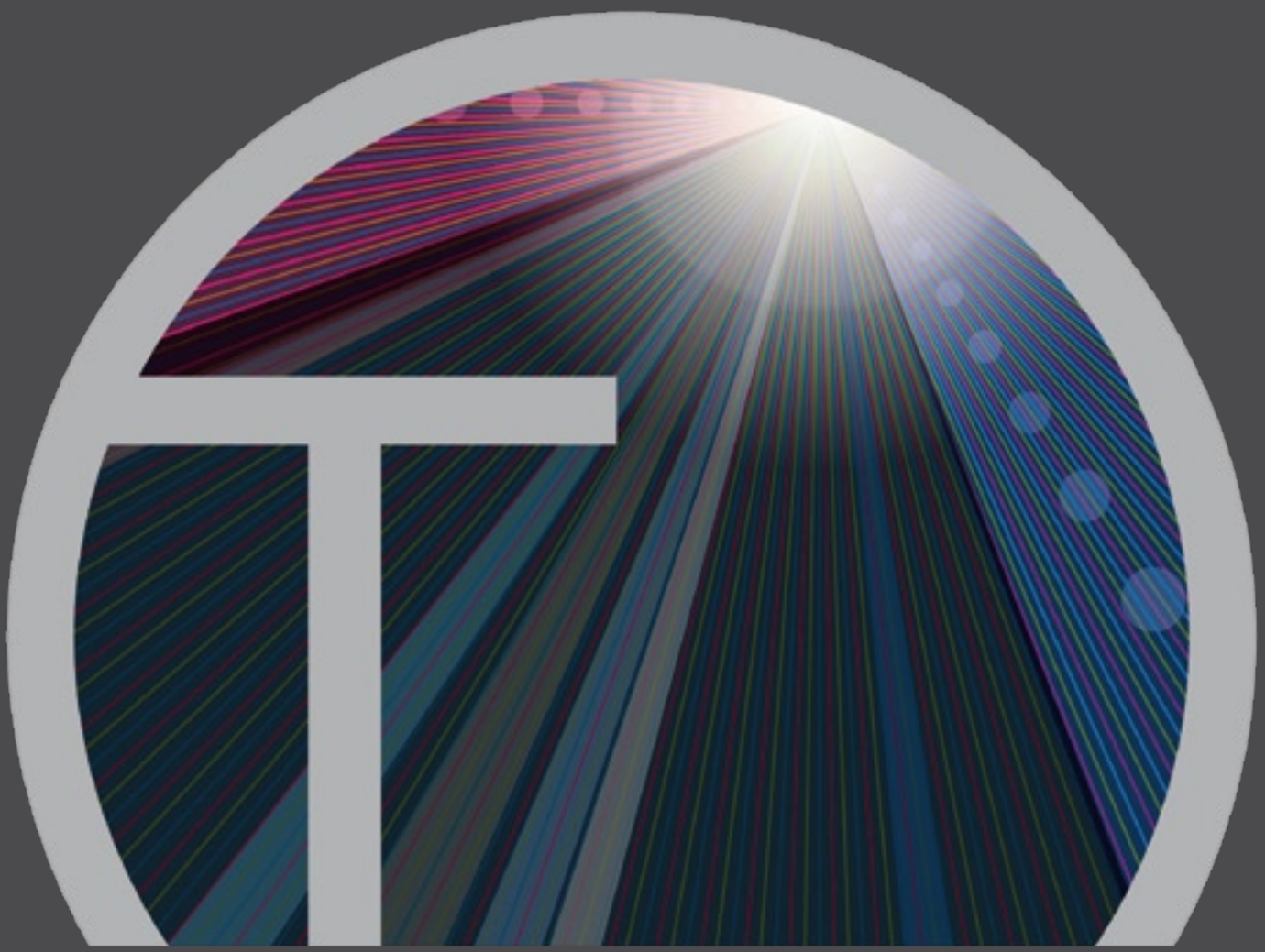
Tunnel lighting

Led and discharge lamps luminaires

AEC ILLUMINAZIONE

light life



AEC tunnel lighting system

AEC INTRODUCES A COMPLETE RANGE OF PRODUCTS FOR TUNNEL LIGHTING DEVELOPED FOR ACCESS, EXIT AND INTERNAL ZONES. THE LUMINAIRES ARE EQUIPPED WITH ASYMMETRIC AND SYMMETRIC OPTICS, HIGH PRESSURE SODIUM AND FLUORESCENT LAMPS. BOTH VERSIONS ARE AVAILABLE WITH INTERNAL AND EXTERNAL BALLAST.
TLED IS THE RESULT OF YEARS OF STUDYING IN AEC TECHNICAL DEPARTMENT AND LABORATORIES: A LED LUMINAIRE DESIGNED FOR THE INTERIOR ZONE OF TUNNELS.
THE COMPANY PRESENTS A SERIES OF RELIABLE AND DURABLE PRODUCTS, PERFORMING AND TECHNOLOGICALLY DEVELOPED SOLUTIONS. IN ORDER TO GUARANTEE THE BEST EFFICIENCY, AEC PROPOSES A TELEMANAGEMENT SYSTEM ABLE TO CONTROL THE LUMINOUS FLUX REGULATION AND TO OCCUR INTERNAL EQUIPMENT FAILURES.

36

54

72

90

HID-AS-ES

HID-S-ES

HID-AS-IN

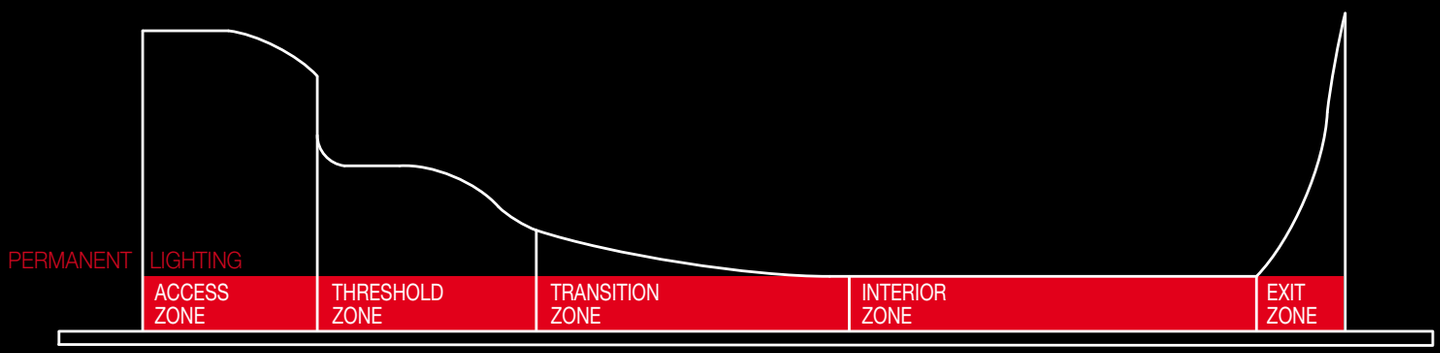
HID-S-IN

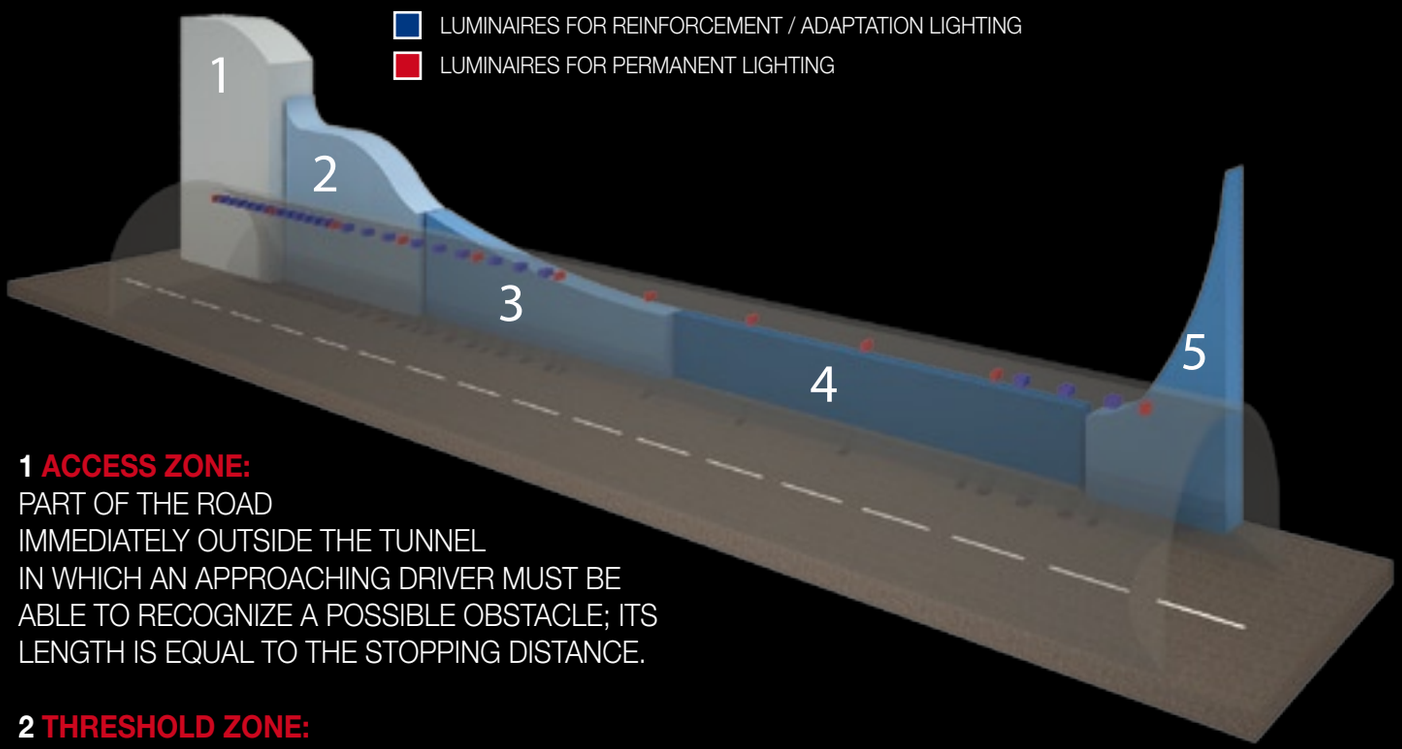
FLU-S-IN

FLU-S-IN-2X

APPLICATION ZONE

LUMINANCE LEVELS





1 ACCESS ZONE:
PART OF THE ROAD IMMEDIATELY OUTSIDE THE TUNNEL IN WHICH AN APPROACHING DRIVER MUST BE ABLE TO RECOGNIZE A POSSIBLE OBSTACLE; ITS LENGTH IS EQUAL TO THE STOPPING DISTANCE.

2 THRESHOLD ZONE:
FIRST PART OF THE TUNNEL IMMEDIATELY AFTER THE PORTAL. ITS LENGTH IS AT LEAST EQUAL TO THE STOPPING DISTANCE. THE DIFFERENCE BETWEEN THE LUMINANCE IN THE THRESHOLD ZONE AND IN THE ACCESS ZONE SHOULD BE AS SMALL AS POSSIBLE. THE DRIVER HAS TO BE ABLE TO RECOGNIZE AN OBSTACLE FROM THE STOPPING DISTANCE.

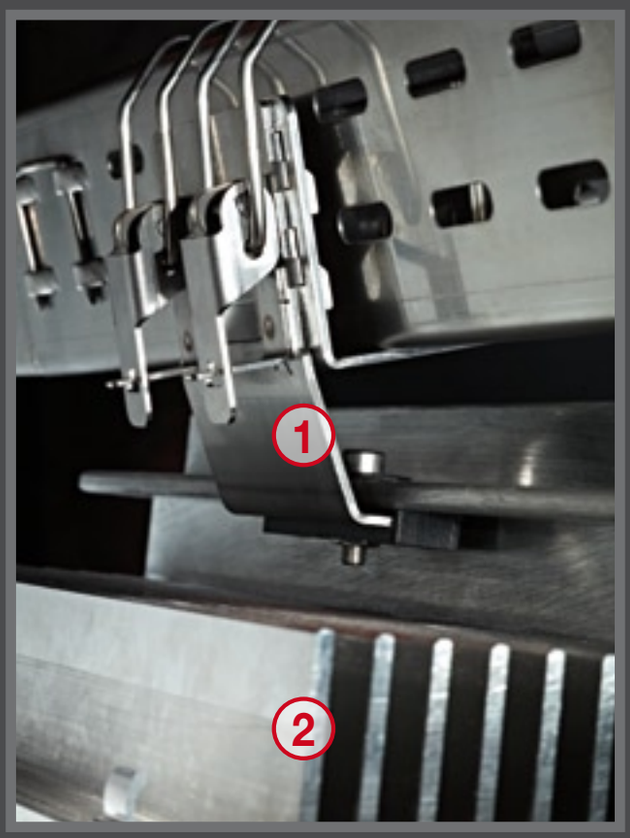
3 TRANSITION ZONE:
PART OF THE TUNNEL FOLLOWING THE THRESHOLD ZONE. LUMINANCE LEVELS DECREASE SLOWLY IN ORDER TO ALLOW THE ADAPTATION OF THE DRIVER'S EYES TO THE LOWER LIGHTING LEVELS FEATURING THE INTERIOR ZONE.

4 INTERIOR ZONE:
PART LOCATED BETWEEN THE TRANSITION ZONE AND THE EXIT ZONE. LUMINANCE LEVELS SHOULD GUARANTEE A SAFE DRIVE.

5 EXIT ZONE:
TERMINAL PART OF THE TUNNEL WHERE THE VISIBILITY IS INFLUENCED BY THE EXTERNAL BRIGHTNESS. IN SOME CASES AN ADAPTIVE LIGHTING CAN BE REQUIRED.

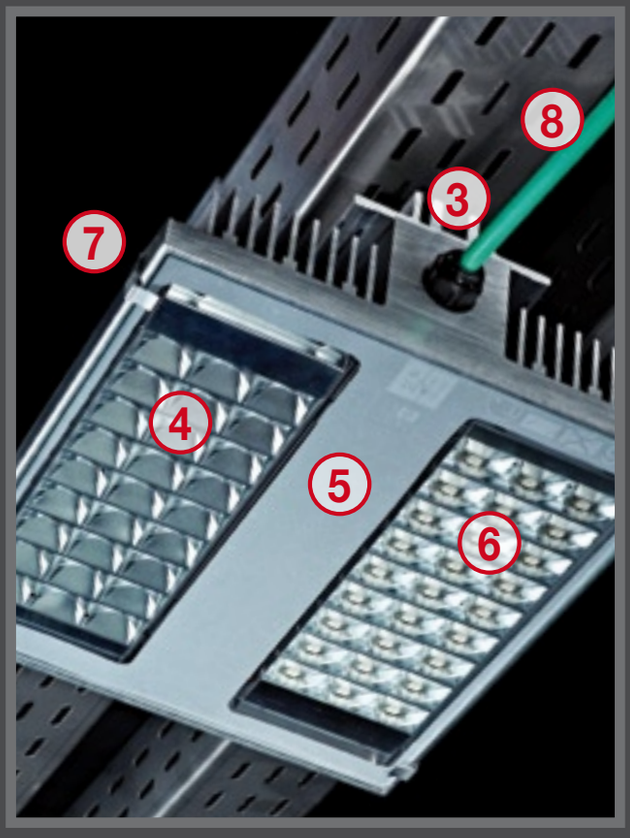
T LED


LED
COMFORT LIGHT OPTIC



1 FIXING SYSTEM
PRESSED AND BENT STAINLESS STEEL. LASER WELDING. INSULATED FROM THE HEAT-SINK IN ORDER TO PREVENT GALVANIC CORROSION.

2 HEAT-SINK AND FRAME
ONE HOUSING IN EXTRUDED, WELDED AND ANODISED ALUMINIUM. LIGHT AND HANDY STRUCTURE.



3 CABLE CLAMP
TECHNOPOLYMER IP68.

4 SCREEN
FLAT TEMPERED GLASS WITH SERIGRAPHY. CLOSURE IN SILICONE.

5 OPTIC
HIGH EFFICIENCY OPTIC MADE OF METALIZED POLYCARBONATE.

6 LED
HIGH INTENSITY AND HIGH EFFICIENCY WHITE LED.

7 SAFETY CLIP FOR GLASS
EXTRUDED ALUMINIUM.

8 POWER SUPPLY CABLE
INTEGRATED WITH THE UNIT. MINIMIZED WIRING OPERATIONS.

DETAILS

1 FIXING FLANGE
GUARANTEES THE CORRECT INCLINATION RESPECT TO THE STREET LEVEL.

2 FIXING SYSTEM
A DOUBLE HOOK WITH SECURITY BLOCKING GUARANTEES A SECURE AND RELIABLE FIXING SYSTEM. EASY AND FAST ASSEMBLY.

3 HEAT-SINK
IN ALUMINIUM IN ORDER TO MAXIMIZE HEAT DISSIPATION AND LED LIFE.

4 GLASS CLOSING CLIPS
IN EXTRUDED ALUMINIUM: GUARANTEE THE OPTIC COMPARTMENT IP PROTECTION DEGREE.

5 CABLE CLAMP
GUARANTEES THE IP66 PROTECTION DEGREE OF POWER SUPPLY COMPARTMENT.

6 CONNEXION CABLE (RS485 VERSION)

PHOTOBIOLOGICAL SAFETY

THE LUMINAIRE HAS BEEN TESTED IN COMPLIANCE TO STANDARD EN 60825-1 IN ORDER TO AVOID HARMFUL EFFECTS TO THE HUMAN RETINA.

IP66 PROTECTION DEGREE

THE LUMINAIRE HAS BEEN TESTED IN LABORATORY IN ORDER TO GUARANTEE THE HIGH PROTECTION DEGREE AGAINST SOLID AND LIQUID BODIES INTRUSION.

THERMAL DESIGN

LUMINAIRE HAS BEEN DESIGNED BY MEANS OF THERMAL SIMULATION TOOLS IN ORDER TO VERIFY AND MAINTAIN THE JUNCTION TEMPERATURE AND MAXIMIZE LED LIFE.

HIGH EFFICIENCY POWER SUPPLY UNIT

TLED IS EQUIPPED WITH A HIGH EFFICIENCY AND LONG LIFE DEDICATED POWER SUPPLY UNIT IN CLASS II, ABLE TO MAINTAIN THE STABLE INTENSITY OF LED LUMINOUS FLUX.

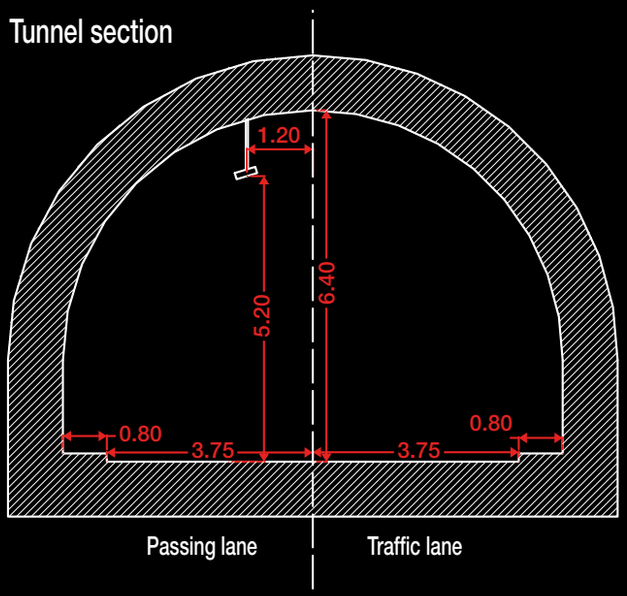
ELECTRICAL SAFETY AND EMC

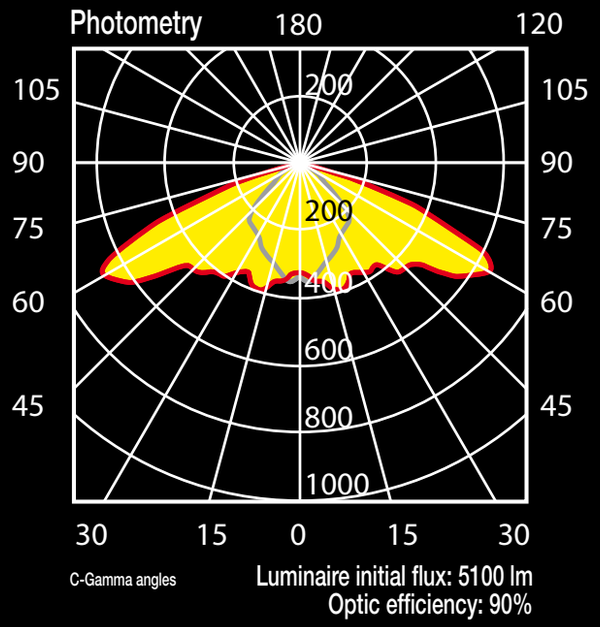
CLASS II INSULATION GUARANTEES THE MAXIMUM SAFETY DURING INSTALLATION, ORDINARY USE AND MAINTENANCE PROCESSES. EMC COMPLIANCE ENSURES THE COMPATIBILITY WITH OTHER ELECTRONIC EQUIPMENTS.

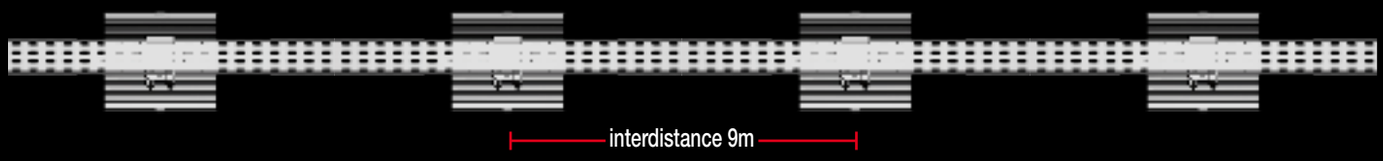
MAINTENANCE FREE

LONG LED LIFE, POWER SUPPLY ELECTRONICS AND PROTECTION DEGREE ALLOW TO LIMIT THE MAINTENANCE OPERATIONS TO THE MERE CLEANING OF THE GLASS.

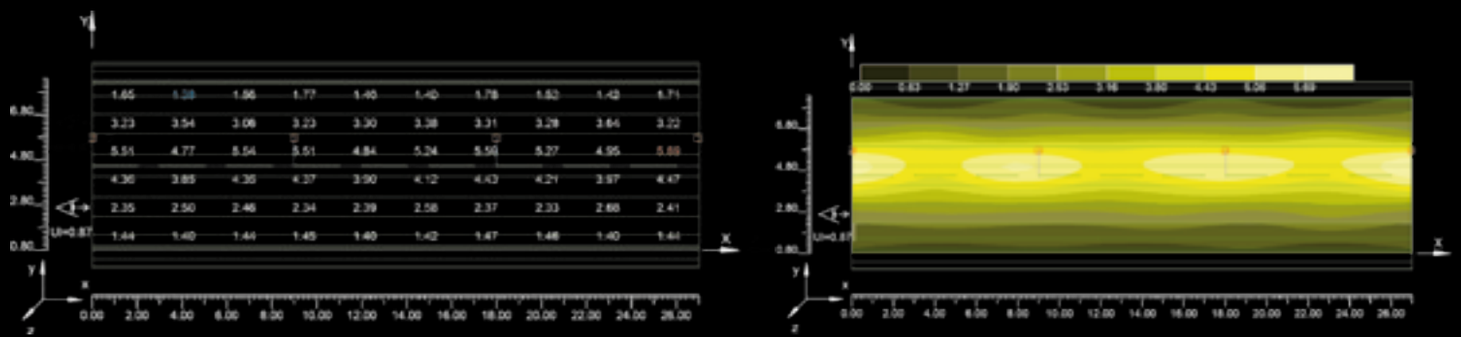
LIGHTING CALCULATION EXAMPLE



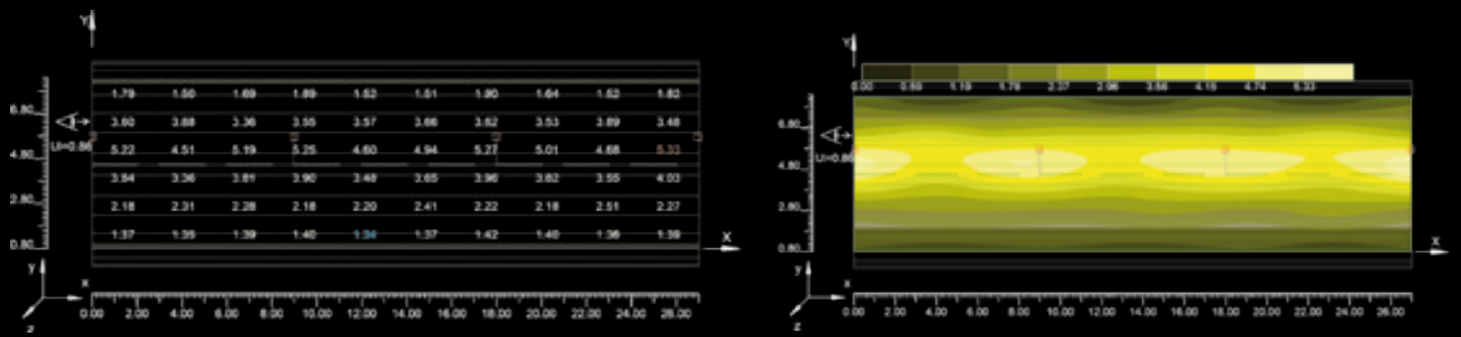




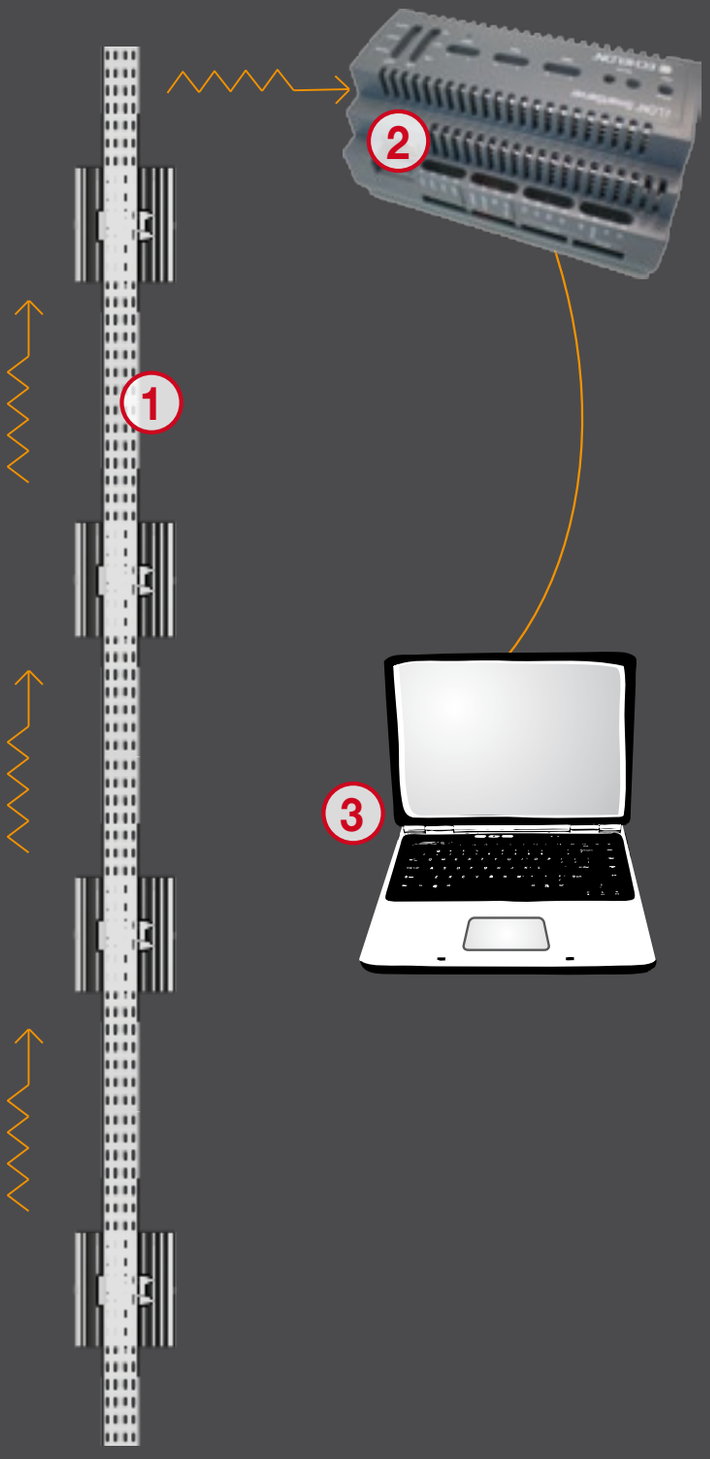
QUALITY INSTALLATION PARAMETERS: TI: 3.77 - UL 0.86 - LAV 2.95 - UO 0.45



OBSERVER 1 LUMINANCE



OBSERVER 2 LUMINANCE



CONVEYED WAVES COMMUNICATION SYSTEMS

AEC PROPOSES A TELEMANAGEMENT SYSTEM FOR TLED LUMINAIRE. THE BALLAST IN EACH LUMINAIRE COMMUNICATES WITH A CONTROL MODULE INSTALLED IN THE TUNNEL CONTROL CENTER. THE CONVEYED WAVES COMMUNICATION OCCURS ALONG THE MAINS WIRING WITHOUT THE USE OF ADDITIONAL CABLES. IT IS POSSIBLE TO REGULATE THE GRADUATION OF THE LUMINOUS FLUX ACCORDING TO SET PERIODS OR THROUGH EXTERNAL ORDER GIVEN TO THE CONTROL MODULE. THE SYSTEM ALLOWS TO CHECK THE STATUS OF EVERY SINGLE LUMINAIRE AND TO NOTIFY POSSIBLE INTERNAL FAILURES. THE INFORMATION CAN BE EXCHANGED FROM CONTROL MODULE WITH OTHER SUPERVISION SYSTEMS THROUGH SERIAL INTERFACE OR LAN WITH MODBUS, HTTP OR XML/SOAP PROTOCOLS.

1 LUMINAIRES

THE LUMINAIRES ARE CONNECTED TO THE SAME POWER LINE AND SHARE THE SAME CONVEYED WAVES COMMUNICATION CHANNEL.

2 CONTROL MODULE

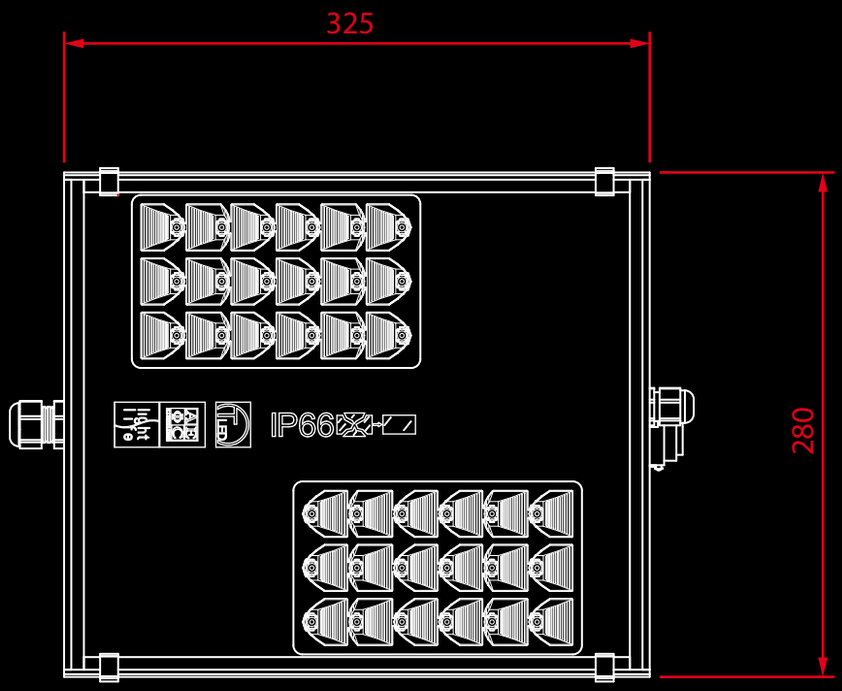
IN THE TUNNEL CONTROL CENTER A CONVEYED WAVES COMMUNICATION MODULE IS INSTALLED (PLM). THIS MODULE IS ABLE TO CONTROL THE LUMINOUS FLUX REGULATION OF EVERY SINGLE LUMINAIRE AND TO OCCUR INTERNAL EQUIPMENT FAILURES.

3 TERMINAL CONTROL DEVICE

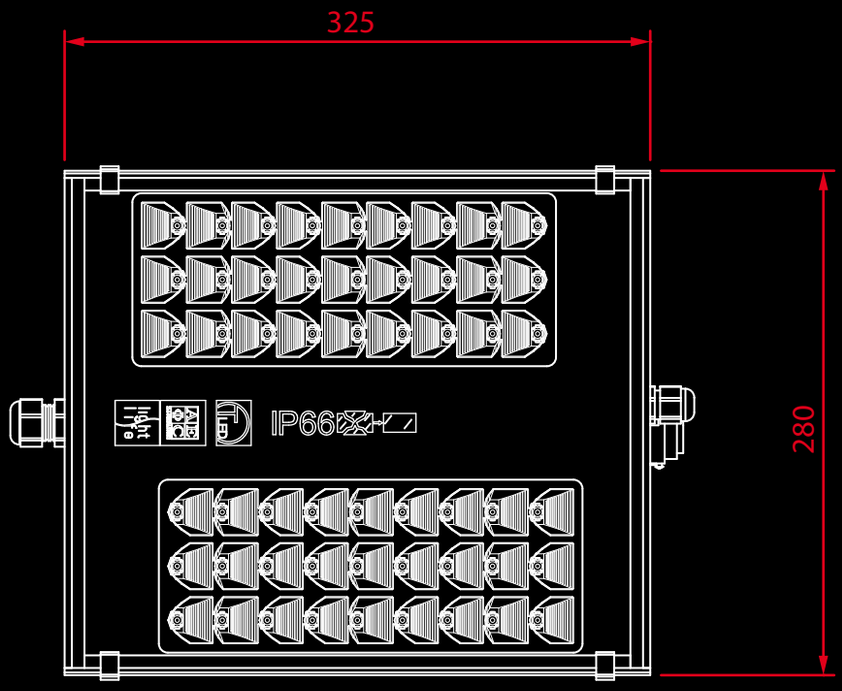
WITH A TERMINAL CONTROL DEVICE IT IS POSSIBLE TO CHECK THE LINE STATUS AND TO CONTROL THE OPERATION OF EACH FITTING.

RS-485 SERIAL SYSTEM OPTION

IT IS ALSO AVAILABLE A COMMUNICATION SYSTEM THROUGH RS-485 SERIAL LINE WITH MODBUS PROTOCOL. THE INFORMATION EXCHANGE OCCURS ALONG A DEDICATED COMMUNICATION CABLE, INSTALLED IN EACH LUMINAIRE. THE CABLE IS CONNECTED DIRECTLY TO THE SUPERVISION SYSTEM.



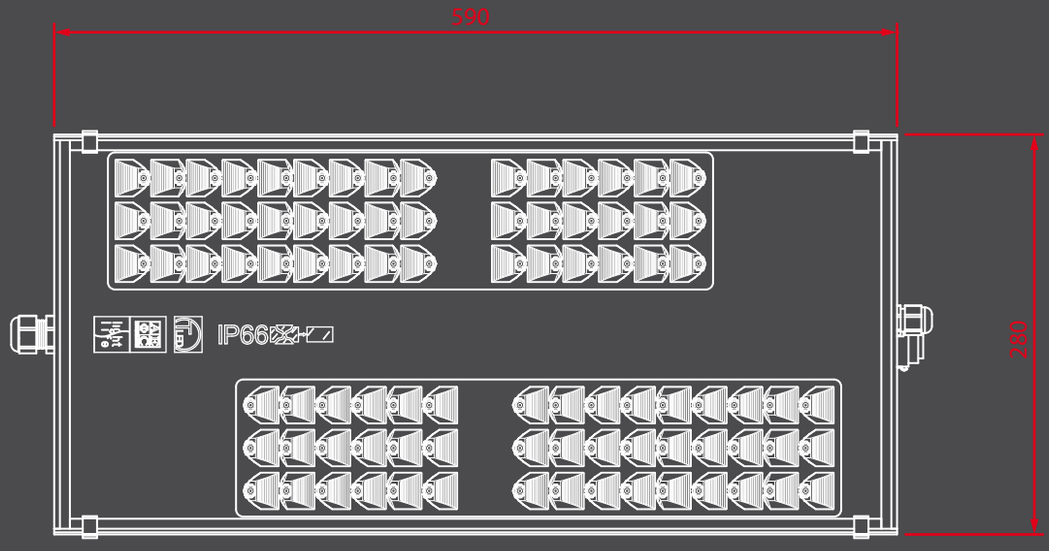
36 LED



54 LED

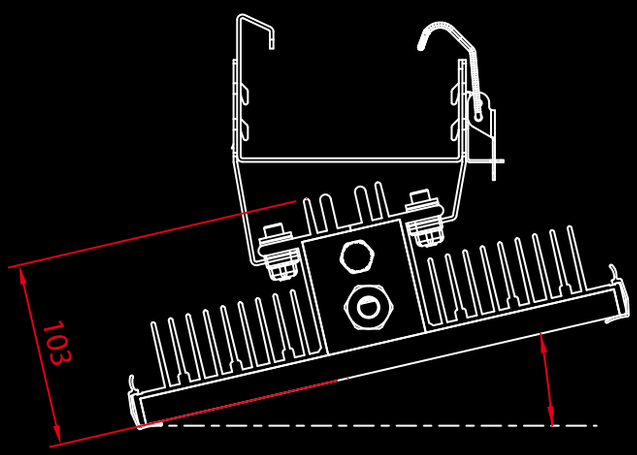
T LED

72 LED



90 LED

GENERAL CHARACTERISTICS	
APPLICATIONS	INTERIOR ZONE TUNNEL LIGHTING
OPTIC	SOLID STATE OPTIC COMPOSED BY 36-54-72-90 LED LUMINAIRE INITIAL FLUX: 36 LED (3300 lm), 54 LED (5100 lm), 72 LED (6700 lm), 90 LED (8400 lm) OPTICAL EFFICIENCY: 90% COLOUR TEMPERATURE 6000° K CRI >= 75
RATED POWER	36 LED (46 W), 54 LED (68 W), 72 LED (91 W), 90 LED (114 W)
INSULATION CLASS	II
PROTECTION DEGREE	IP66
MAIN REFERENCE STANDARDS	EN 60598-1, EN 60598-2-3, EN 60598-2-5, EN 61347-1 EN 61347-2-13, EN 60825-1, EN 60950, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3
CE IP66	



INCLINATION UPON REQUEST

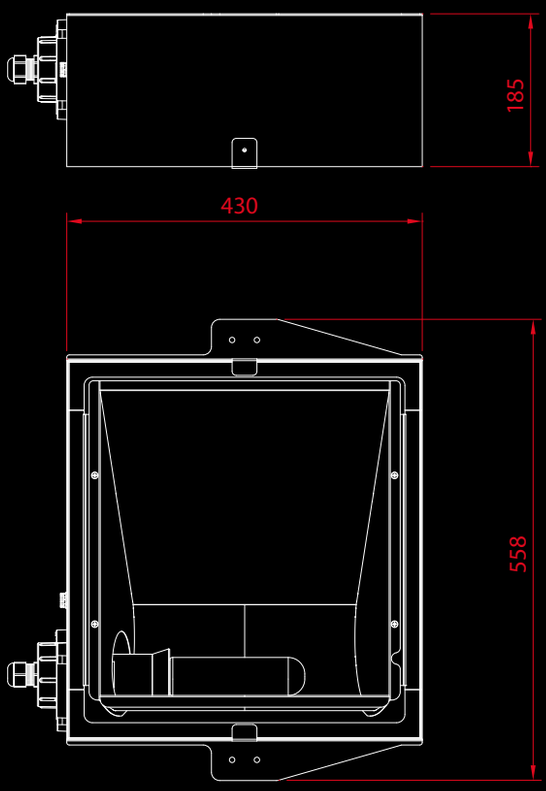
MATERIALS	
FIXING SYSTEM	STAINLESS STEEL AISI 304 FLANGE INSULATED FROM THE BODY IN ORDER TO AVOID GALVANIC CORROSION. (OTHER FIXING SYSTEM UPON REQUEST)
FRAME	EXTRUDED, WELDED AND ANODIZED ALUMINIUM
OPTIC	HIGH EFFICIENCY REFLECTOR IN METALIZED POLYCARBONATE
SCREEN	FLAT TEMPERED GLASS WITH SERIGRAPHY, 4mm THICKNESS. CLOSURE IN SILICONE
SAFETY CLIPS FOR GLASS	EXTRUDED ALUMINIUM
HEAT-SINK	DIRECTLY MANUFACTURED IN THE BODY
CABLE CLAMP	M20x1,5mm PLASTIC

ELECTRICAL CHARACTERISTICS	
RATED VOLTAGE	220-240V
FREQUENCY	50-60 Hz
POWER FACTOR	>0.98
LUMINOUS FLUX REGULATION (OPTIONAL)	REGULATION IN CONTINUOUS CURVE
CONTROL DEVICE (OPTIONAL)	TELEMANAGEMENT THROUGH CONVEYED WAVES (PLM MODE) OR RS-485 SERIAL SYSTEM
CONNECTIONS	CABLES, PLUGS AND OTHER TYPES OF CONNECTIONS AVAILABLE UPON REQUEST
EXPECTED LIFE-TIME	> 90.000 hr @ Ta=25°C, LM 80%, If=350mA >150.000 hr @ Ta=25°C, LM 70%, If=350mA

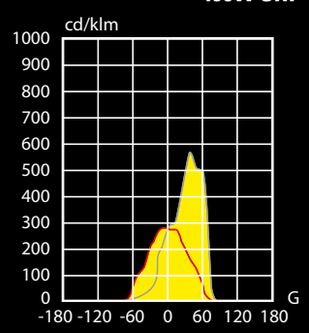
TZERO

HID-AS-ES

ASYMMETRICAL LIGHTING
WITH EXTERNAL BALLAST



400W SHP



Coordinate system C-Gamma, cartesian graph.

GENERAL CHARACTERISTICS	
APPLICATIONS	ACCESS AND EXIT ZONE TUNNEL LIGHTING
OPTIC	ASYMMETRICAL (COUNTER BEAM)
LAMP WATTAGE	70 - 100 - 150 - 250 - 400 - 600W
LAMP TYPE	HIGH PRESSURE SODIUM
LAMP BASE	E27/E40
INSULATION CLASS	II
PROTECTION DEGREE	IP66
FIXING SYSTEM	2 MANUAL CLOSING HOOKS WITH SECURITY BLOCKING SYSTEM
LAMP REPLACEMENT	LAMP HOLDER SUPPORT REMOVAL WITHOUT USE OF TOOLS
DIMENSIONS	558x430x185mm
MAIN REFERENCE STANDARDS	EN 60598-1, EN 60598-2-3
CE IP66	

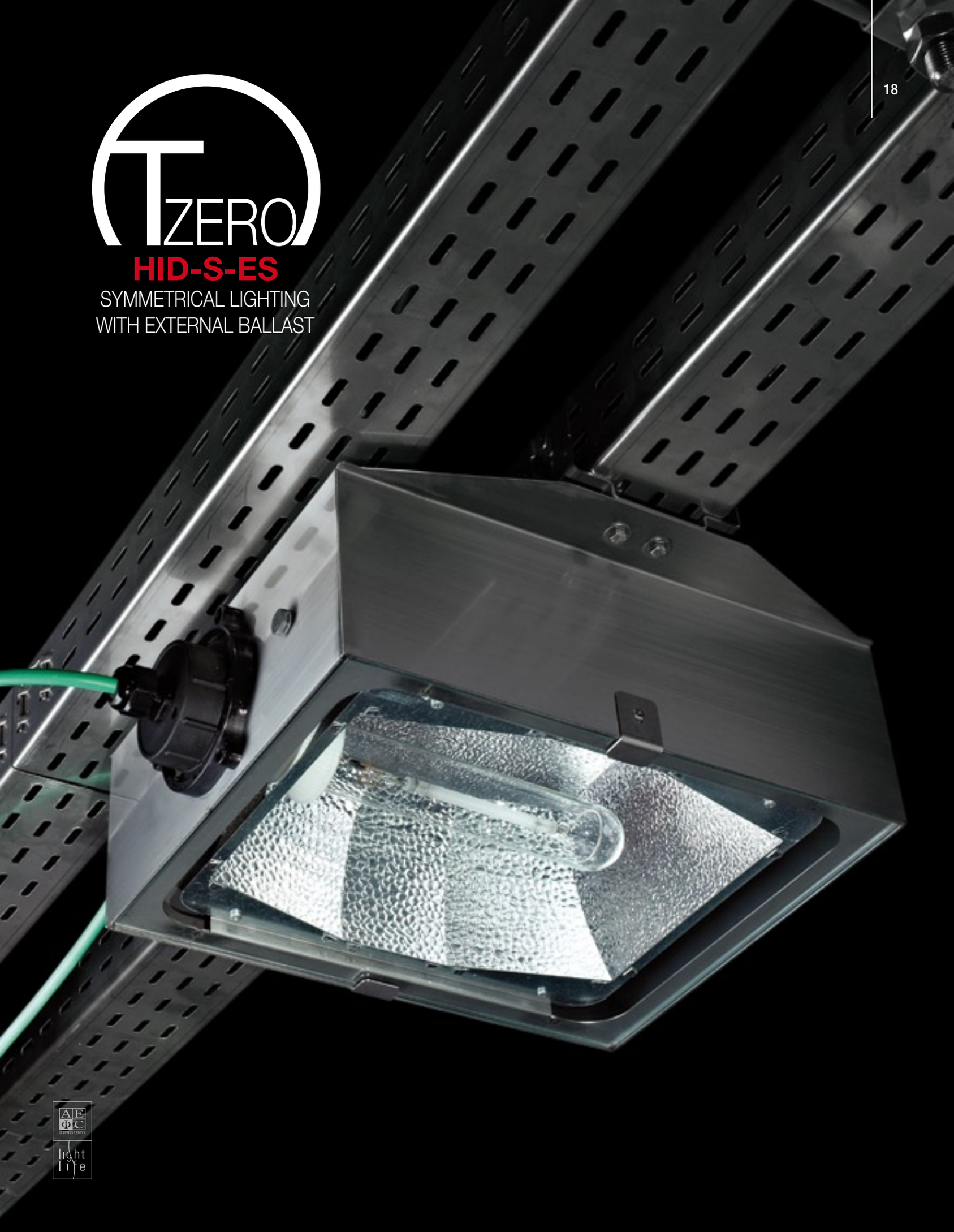
MATERIALS	
FRAME	STAINLESS STEEL AISI 316L 1mm THICKNESS (1.2mm UPON REQUEST)
SAFETY CLIPS FOR GLASS	STAINLESS STEEL AISI 316L
HOOK AND FIXING FLANGE	STAINLESS STEEL AISI 304
OPTIC	99,85% METALIZED ALUMINIUM
SCREEN	FLAT TEMPERED GLASS 5mm THICKNESS
CLOSING SCREEN	CLOSURE IN SILICONE
LAMP HOLDER	CERAMIC

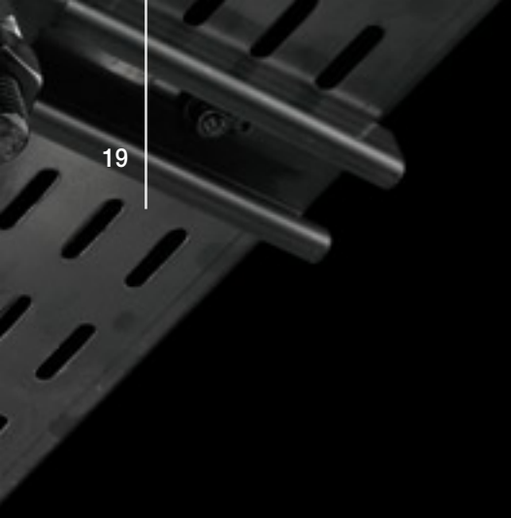
POWER SUPPLY UNIT CHARACTERISTICS	
RATED VOLTAGE	230V
FREQUENCY	50Hz
POWER	70 – 100 – 150 – 250 – 400 – 600W
INSULATION CLASS	II
PROTECTION DEGREE	IP65
CABLE CLAMP	2xM20x1,5mm PLASTIC IP68
FIXING SYSTEM	FLANGE IN STAINLESS STEEL AISI 304
CONNECTIONS	CABLES, PLUGS AND OTHER TYPES OF CONNECTIONS AVAILABLE UPON REQUEST

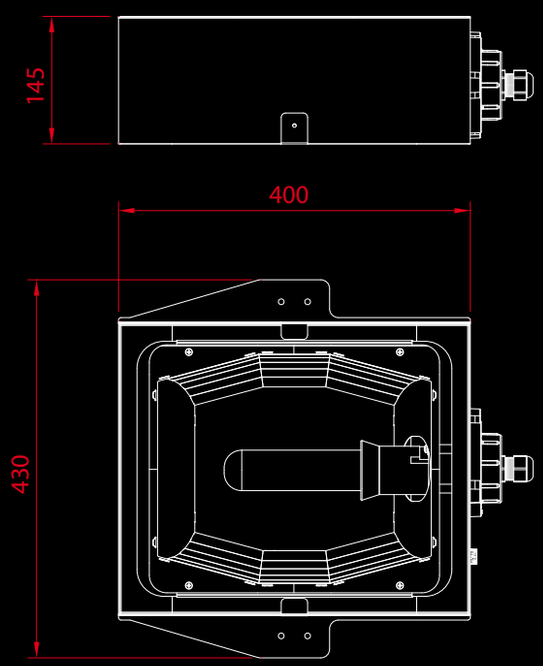
TZERO

HID-S-ES

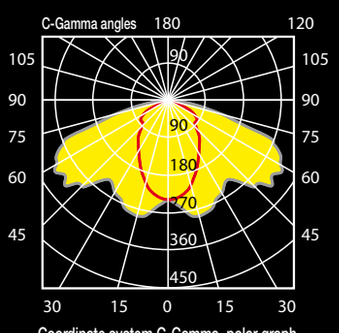
SYMMETRICAL LIGHTING
WITH EXTERNAL BALLAST







100W SHP



Coordinate system C-Gamma, polar graph.

GENERAL CHARACTERISTICS	
APPLICATIONS	INTERIOR ZONE TUNNEL LIGHTING
OPTIC	SYMMETRICAL
LAMP POWER	70 - 100 - 150 - 250 - 400 - 600W
LAMP TYPE	HIGH PRESSURE SODIUM
LAMP BASE	E27/E40
INSULATION CLASS	II
PROTECTION DEGREE	IP66
FIXING SYSTEM	2 MANUAL CLOSING HOOKS WITH SECURITY BLOCKING SYSTEM
LAMP REPLACEMENT	LAMP HOLDER SUPPORT REMOVAL WITHOUT USE OF TOOLS
DIMENSIONS	430x400x145mm
MAIN REFERENCE STANDARDS	EN 60598-1, EN 60598-2-3
CE IP66	

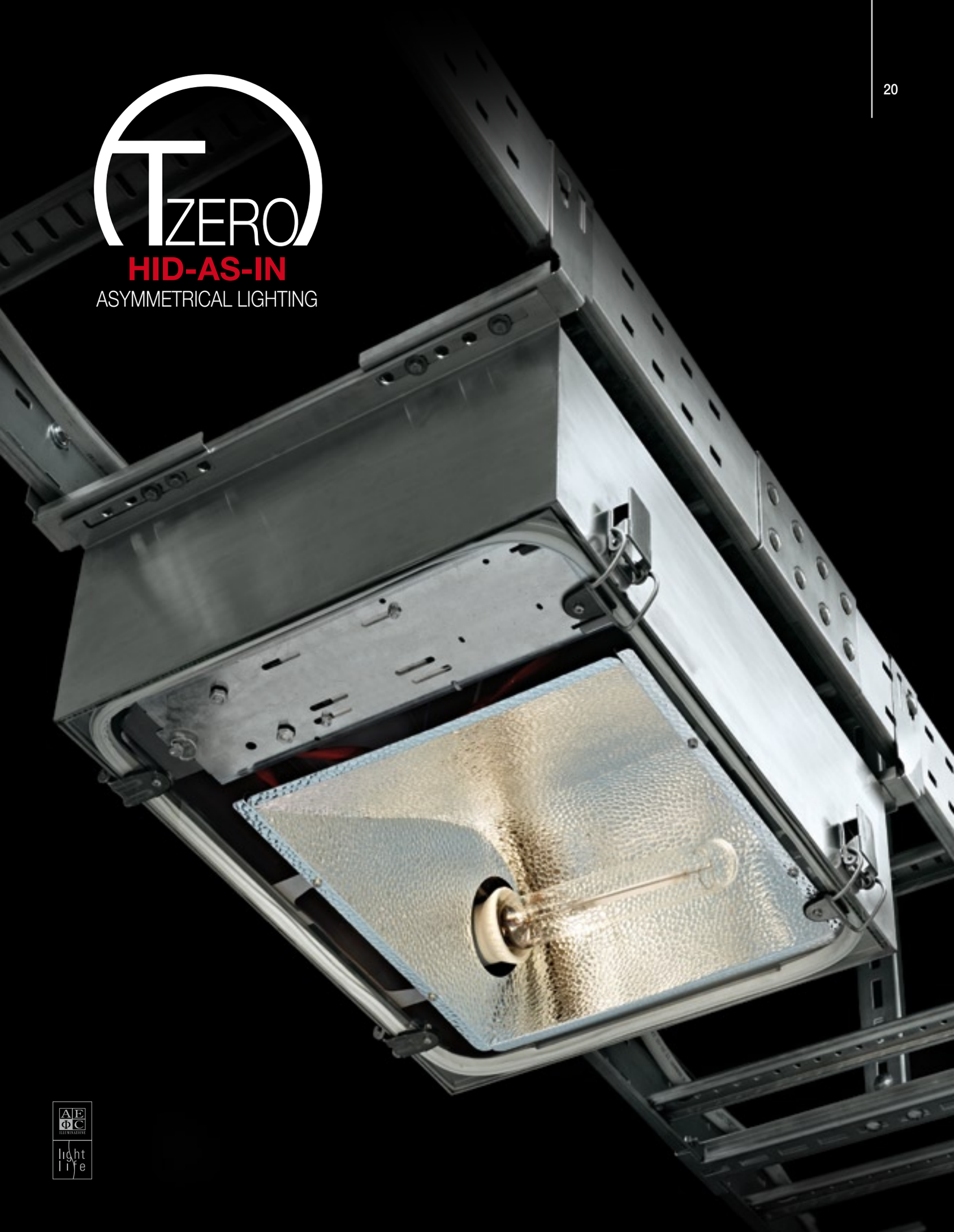
MATERIALS	
FRAME	STAINLESS STEEL AISI 316L THICKNESS 1mm (1.2 mm UPON REQUEST)
SAFETY CLIPS FOR GLASS	STAINLESS STEEL AISI 316L
HOOK AND FIXING FLANGE	STAINLESS STEEL AISI 304
OPTIC	99,85% METALIZED ALUMINIUM
SCREEN	FLAT TEMPERED GLASS 5mm THICKNESS
CLOSING SCREEN	CLOSURE IN SILICONE
LAMP HOLDER	CERAMIC

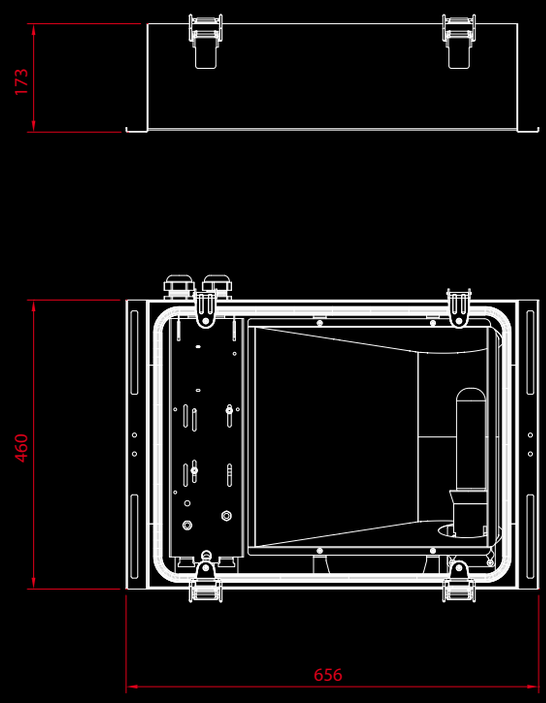
POWER SUPPLY UNIT CHARACTERISTICS	
RATED VOLTAGE	230V
FREQUENCY	50Hz
POWER	70 – 100 – 150 – 250 – 400 – 600W
INSULATION CLASS	II
PROTECTION DEGREE	IP65
CABLE CLAMP	2xM20x1,5mm PLASTIC IP68
FIXING SYSTEM	FLANGE IN STAINLESS STEEL AISI 304
CONNECTIONS	CABLES, PLUGS AND OTHER TYPES OF CONNECTIONS AVAILABLE UPON REQUEST

TZERO

HID-AS-IN

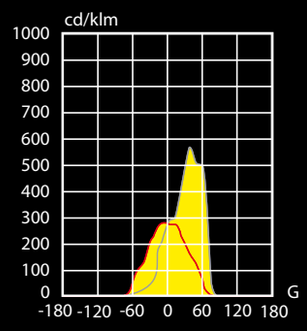
ASYMMETRICAL LIGHTING





GENERAL CHARACTERISTICS	
APPLICATIONS	ACCESS AND EXIT ZONE TUNNEL LIGHTING
OPTIC	ASYMMETRICAL (COUNTER BEAM)
LAMP POWER	70 - 100 - 150 - 250 - 400W
LAMP TYPE	HIGH PRESSURE SODIUM
LAMP BASE	E27/E40
INSULATION CLASS	I
PROTECTION DEGREE	IP66
FIXING SYSTEM	BY METALLIC PLATE AND SCREWS
GEAR TRAY UNIT REMOVAL	WITHOUT USE OF TOOLS
LAMP REPLACEMENT	WITHOUT USE OF TOOLS
DIMENSIONS	656x460x173mm
MAIN REFERENCE STANDARDS	EN 60598-1, EN 60598-2-3
CE IP66	

400W SHP



Coordinate system C-Gamma, cartesian graph.

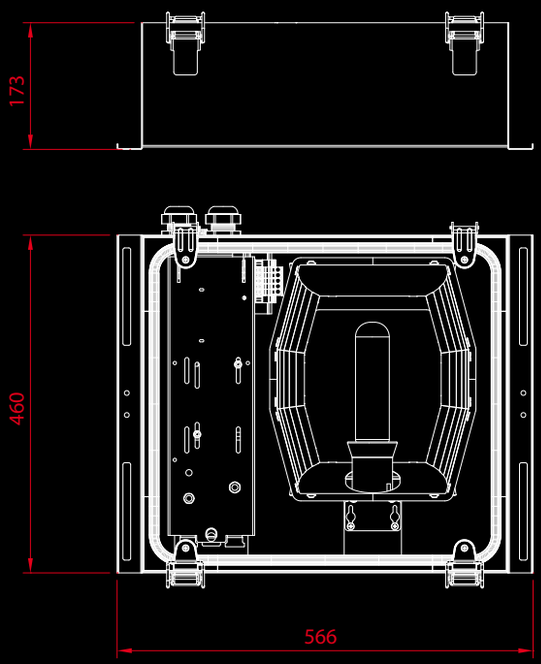
MATERIALS	
FRAME	STAINLESS STEEL AISI 316L THICKNESS 1.2mm (OTHERS UPON REQUEST)
SAFETY CLIPS FOR GLASS	STAINLESS STEEL AISI 316L
FIXING PLATES	STAINLESS STEEL AISI 316L
OPTIC	99,85% METALIZED ALUMINIUM
SCREEN	FLAT TEMPERED GLASS, 6mm THICKNESS
CLOSING SCREEN	GASKET IN SILICONE
LAMP HOLDER	CERAMIC

ELECTRICAL CHARACTERISTICS		
RATED VOLTAGE	230V	
FREQUENCY	50Hz	
INTERNAL WIRING	HALOGEN FREE, IN SILICONE, DOUBLE INSULATION, 1mm^2	
IGNITOR	SUPERIMPOSED IGNITOR (WITH TIMER OR DIGITAL UPON REQUEST)	
CONNECTIONS	**PASS THROUGH**	**BRANCH**
CABLE CLAMP (TYPES OF CABLE CLAMPS UPON REQUEST)	2xM32x1,5mm PLASTIC	1xM32x1,5mm PLASTIC
TERMINAL BOARD	5 POLES IN DIN GUIDE 10mm^2 (16mm^2 UPON REQUEST)	3 POLES 6mm^2 (CERAMIC UPON REQUEST)
MCB	1P+NEUTRAL, 10A, C-CURVE (UPON REQUEST)	

TZERO

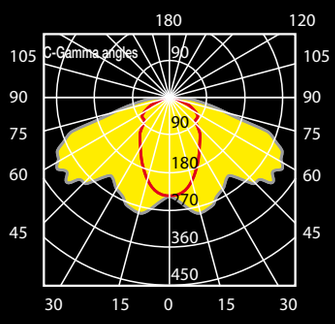
HID-S-IN

SYMMETRICAL LIGHTING



GENERAL CHARACTERISTICS	
APPLICATIONS	INTERIOR ZONE TUNNEL LIGHTING
OPTIC	SYMMETRICAL
LAMP POWER	70 - 100 - 150 - 250 - 400W
LAMP TYPE	HIGH PRESSURE SODIUM
LAMP BASE	E27/E40
INSULATION CLASS	I
PROTECTION DEGREE	IP66
FIXING SYSTEM	BY METALLIC PLATE AND SCREWS
GEAR TRAY UNIT REMOVAL	WITHOUT USE OF TOOLS
LAMP REPLACEMENT	WITHOUT USE OF TOOLS
DIMENSIONS	566x460x173mm
MAIN REFERENCE STANDARDS	EN 60598-1, EN 60598-2-3
CE IP66	

100W SHP



Coordinate system C-Gamma, polar graph.

MATERIALS	
FRAME	STAINLESS STEEL AISI 316L THICKNESS 1.2mm (OTHERS UPON REQUEST)
SAFETY CLIPS FOR GLASS	STAINLESS STEEL AISI 316L
FIXING PLATES	STAINLESS STEEL AISI 316L
OPTIC	99,85% METALIZED ALUMINIUM
SCREEN	FLAT TEMPERED GLASS, 6mm THICKNESS
CLOSING SCREEN	GASKET IN SILICONE
LAMP HOLDER	CERAMIC

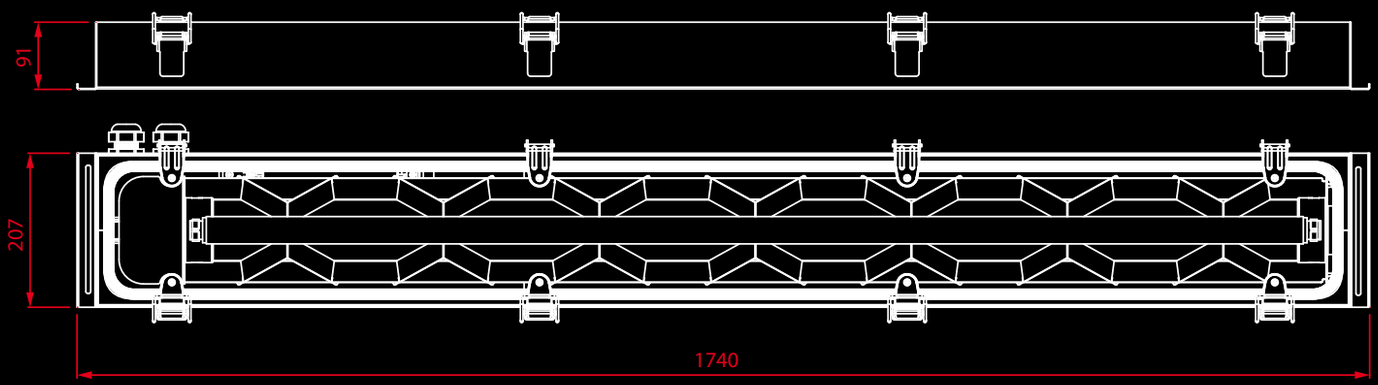
ELECTRICAL CHARACTERISTICS		
RATED VOLTAGE	230V	
FREQUENCY	50Hz	
INTERNAL WIRING	HALOGEN FREE, IN SILICONE, DOUBLE INSULATION, 1mm^2	
IGNITOR	SUPERIMPOSED IGNITOR (WITH TIMER OR DIGITAL UPON REQUEST)	
CONNECTIONS	**PASS THROUGH**	**BRANCH**
CABLE CLAMP (TYPES OF CABLE CLAMPS UPON REQUEST)	2xM32x1,5mm PLASTIC	1xM32x1,5mm PLASTIC
TERMINAL BOARD	5 POLES IN DIN GUIDE 10mm^2 (16mm^2 UPON REQUEST)	3 POLES 6mm^2 (CERAMIC UPON REQUEST)
MCB	1P+NEUTRAL, 10A, C-CURVE (UPON REQUEST)	

TZERO

FLU-S-IN

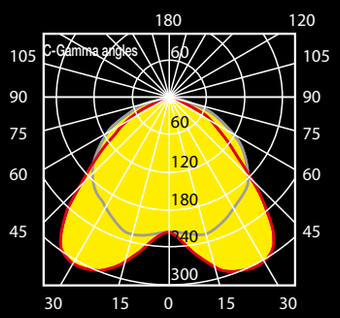
SYMMETRICAL LIGHTING

GENERAL CHARACTERISTICS	
APPLICATIONS	INTERIOR ZONE TUNNEL LIGHTING
OPTIC	SYMMETRICAL
LAMP POWER	1x58W T8
LAMP TYPE	LINEAR FLUORESCENT
LAMP BASE	G13
INSULATION CLASS	I
PROTECTION DEGREE	IP66
FIXING SYSTEM	BY METALLIC PLATE AND SCREWS
GEAR TRAY UNIT REMOVAL	WITHOUT USE OF TOOLS
LAMP REPLACEMENT	WITHOUT USE OF TOOLS
DIMENSIONS	1740x207x91mm
MAIN REFERENCE STANDARDS	EN 60598-1, EN 60598-2-3
CE IP66	



MATERIALS	
FRAME	STAINLESS STEEL AISI 316L THICKNESS 1.2mm (OTHERS UPON REQUEST)
SAFETY CLIPS FOR GLASS	STAINLESS STEEL AISI 316L
FIXING PLATES	STAINLESS STEEL AISI 316L
OPTIC	99,9% METALIZED ALUMINIUM
SCREEN	FLAT TEMPERED GLASS, 6mm THICKNESS
CLOSING SCREEN	GASKET IN SILICONE
LAMP HOLDER	PLASTIC

58W TOP



Coordinate system C-Gamma, polar graph.

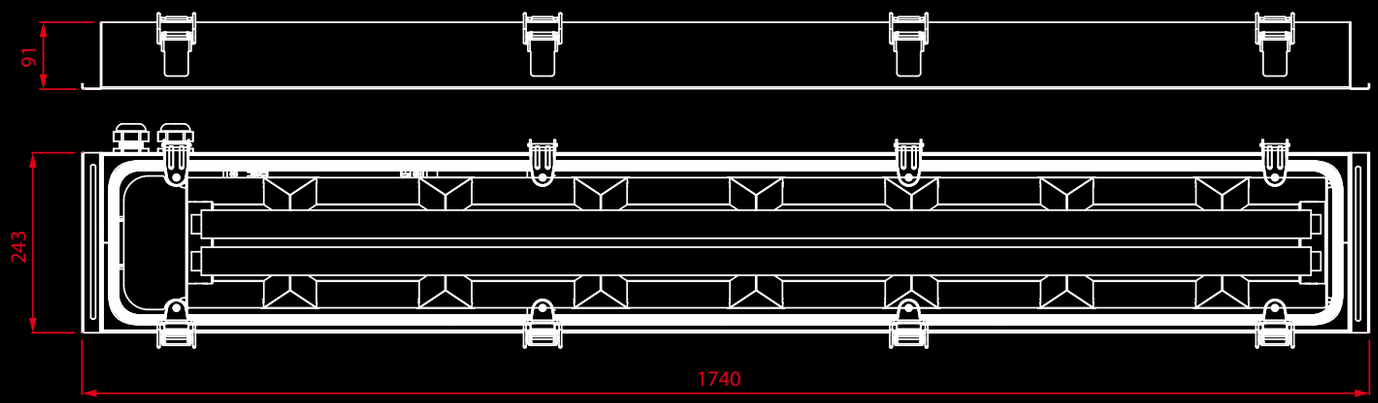
ELECTRICAL CHARACTERISTICS		
RATED VOLTAGE	230V	
FREQUENCY	50Hz	
INTERNAL WIRING	HALOGEN FREE, IN SILICONE , DOUBLE INSULATION, 1mm^2	
IGNITOR	ELECTRONIC (EEI=AA2) LONG LIFE ABSORBED POWER: 1x54W	
CONNECTIONS	**PASS THROUGH**	**BRANCH**
CABLE CLAMP (TYPES OF CABLE CLAMPS UPON REQUEST)	2xM32x1,5mm PLASTIC	1xM32x1,5mm PLASTIC
TERMINAL BOARD	5 POLES IN DIN GUIDE 10mm^2 (16mm^2 UPON REQUEST)	3 POLES 6mm^2 (CERAMIC UPON REQUEST)
MCB	1P+NEUTRAL, 10A, C-CURVE (UPON REQUEST)	

TZERO

FLU-S-IN-2X

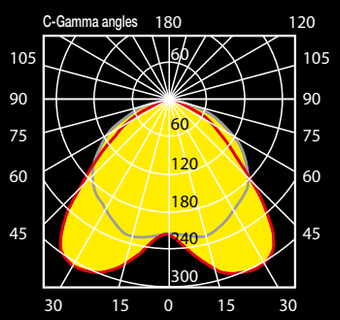
SYMMETRICAL LIGHTING

GENERAL CHARACTERISTICS	
APPLICATIONS	INTERIOR ZONE TUNNEL LIGHTING
OPTIC	SYMMETRICAL
LAMP POWER	2x58W T8
LAMP TYPE	LINEAR FLUORESCENT
LAMP HOLDER	G13
INSULATION CLASS	I
PROTECTION DEGREE	IP66
FIXING SYSTEM	BY METALLIC PLATE AND SCREWS
GEAR TRAY UNIT REMOVAL	WITHOUT USE OF TOOLS
LAMP REPLACEMENT	WITHOUT USE OF TOOLS
DIMENSIONS	1740x243x91mm
MAIN REFERENCE STANDARDS	EN 60598-1, EN 60598-2-3
CE IP66	



MATERIALS	
FRAME	STAINLESS STEEL AISI 316L THICKNESS 1.2mm (OTHERS UPON REQUEST)
SAFETY CLIPS FOR GLASS	STAINLESS STEEL AISI 316L
FIXING PLATES	STAINLESS STEEL AISI 316L
OPTIC	99,9% METALIZED ALUMINIUM
SCREEN	FLAT TEMPERED GLASS, 6mm THICKNESS
CLOSING SCREEN	GASKET IN SILICONE
LAMP HOLDER	PLASTIC

2x58W TOP



Coordinate system C-Gamma, polar graph.

ELECTRICAL CHARACTERISTICS		
RATED VOLTAGE	230V	
FREQUENCY	50Hz	
INTERNAL WIRING	HALOGEN FREE, IN SILICONE, DOUBLE INSULATION, 1mm^2	
IGNITOR	ELECTRONIC (EEI=AA2) LONG LIFE ABSORBED POWER: 2x54W	
CONNECTIONS	**PASS THROUGH**	**BRANCH**
CABLE CLAMP (TYPES OF CABLE CLAMPS UPON REQUEST)	2xM32x1,5mm PLASTIC	1xM32x1,5mm PLASTIC
TERMINAL BOARD	5 POLES IN DIN GUIDE 10mm^2 (16mm^2 UPON REQUEST)	3 POLES 6mm^2 (CERAMIC UPON REQUEST)
MCB	1P+NEUTRAL, 10A, T-CURVE (UPON REQUEST)	

GERECON

AEC Illuminazione Srl
I-52010 Subbiano - Arezzo - Italy
Zona Industriale di Castelnuovo 256
Tel. +39 0575 041110 - Fax +39 0575 420878
aec@aecilluminazione.it - www.aecilluminazione.com