



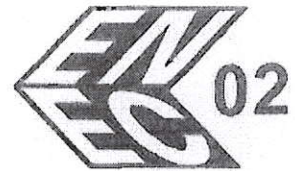
LICENCE

No. 20892 - Issue No 3

Issued to:
Applicant:
R-Tech
Rue de Mons, 3
4000 LIEGE
Belgium



Licensee:
Schreder S.A.
Rue de Lusambo, 67
1190 BRUXELLES
Belgium



Product : road, square, street, flood lighting
Trade name(s) : SCHREDER
Type(s)/model(s) : AMPERA MAXI, AMPERA MIDI, AMPERA MINI

The product and any acceptable variation thereto is specified in the annex to this licence and the documents therein referred to.

SGS CEBEC hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard specified in annex
- an inspection of the production location
- a certification agreement with the number 1173

SGS CEBEC hereby grants the right to use the CEBEC certification mark

The ENEC/CEBEC certification mark may be applied to the product as specified in this licence for the duration of the ENEC/CEBEC certification agreement and under the conditions of the ENEC/CEBEC certification agreement.

This licence is issued on: 11/09/2019

Ir. C. Lana,
Certification Manager

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This certificate is only valid combined with the publication on the following web address: www.sgs.com/ee



SGS Belgium NV-Division SGS CEBEC
Business Riverside Park
Bld Internationalelaan 55 Bld. D
B-1070 Brussels
Tel.+32(0)2 556 00 20 Fax.+32(0)2 556 00 36

This certificate is issued by the company under its General Conditions for Certification Services accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitations of liability defined therein and in the Test Report herein mentioned which findings are reflected in this Certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product : road, square, street, flood lighting
 Trade name(s) : SCHREDER
 Type(s)/Model(s) : AMPERA MAXI, AMPERA MIDI, AMPERA MINI
 description : Street lighting
 rated voltage (Un) : 220-240 V
 rated frequency : 50-60 Hz
 degree of protection : IP66/66
 class : class I
 additional information : IK09

Additional information

Available in Neutral White, Cool White & Warm White.

Product data - type AMPERA MIDI

rated power : max. 201 W
 lamp(s) : 32-48-64 LEDs XP-L, XP-L2, OSOLON, XP-G2, XP-G3
 rated ambient temperature (ta) : max. 55°C
 rated secondary current (In SEC) : 0-1000 mA

Product data - type AMPERA MINI

rated power : max. 77 W
 lamp(s) : 8-16-24 LEDs XP-L, XP-L2, OSOLON, XP-G2, XP-G3
 rated ambient temperature (ta) : max. 55°C
 rated secondary current (In SEC) : 0-1000 mA



Product data - type AMPERA MAXI

rated power : max. 310 W
lamp(s) : 80-96-112-128 LEDs XP-L, XP-L2, OSLOX, XP-G2, XP-G3
rated ambient temperature (ta) : max. 55°C
rated secondary current (In SEC) : 0-800 mA

TESTS

Test requirements

EN 60598-1:2015 + A1:2018
EN 60598-2-3:2003 + A1:2011

Test results

The test results are laid down in certification file 604814/27.

Remarks

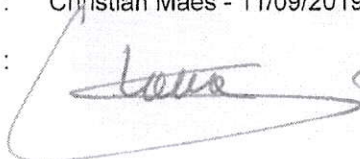
This certificate is based on test report No. P1536-38-lc.

Conclusion

The examination proved that all certification requirements were met.

Reviewed by, project leader : Christian Maes - 11/09/2019

Certification Manager :

 2019-09-11



FACTORY LOCATION(S)

Schreder TOV
Vul. Mykulynetska 46B
46000 TERNOPIIL
Ukraine

Schreder (China) Lighting Industrial Co., Ltd
No.40 Xinye 2 Street, Tianjin Economic Technological Development Zone West Zone,
300462 Tianjin City, P.R.China
China

Socelec S.A.
Av. de Roanne, 66
Poligono Industrial "EL HENARES"
19180 MARCHAMALO (GUADALAJARA)
Spain

Schröder Iluminação S.A.
Rua da Fraternidade Operária, nº 3
2795-491 CARNAXIDE, OEIRAS
Portugal

Comatelec S.A.
Z.I.
18400 SAINT FLORENT S/CHER
France

Schröder Hungary Plc.
Tópart 2
2084 PILISSZENTIVAN
Hungary



AMPERA MIDI

5145

Optic	5145
Protector	Flat glass
Source	32 Osram OSOLON SQUARE GIANT
Matrix	415072



Characteristics

674	436	132	11.5	IP 66	IK 09	I EU, II EU	0.115
Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Tightness level*	Impact resistance*	Electrical class*	CxS (m²)

* According to IEC-EN60598 and IEC-EN62262

Features

LED solution for an optimised return on investment

- Cost-effective and efficient lighting solution for a fast return on investment
- 3 sizes for flexibility
- IP 66 tightness level
- ThermiX®: withstands high temperatures (Ta 50°C)
- Mounting with two separated parts for easy installation and set-up (inclination angle)
- FutureProof: easy replacement of photometric engine and power supply on-site
- IoT ready: optional 7-pin NEMA socket

Types of application

- Square and park
- Bridge
- Park
- Large area
- Roundabout
- Car park
- Road and highway
- Bike path
- Urban road

Information for 1000 lm matrix

Efficacy (%)	85.1	G Class (EN 13201-2)	G6	I 70-80-90-95 (cd)	61 - 10 - X - X
DLOR (%)	85.1	G* (EN 13201 2015)	G*6	CIE flux code N 1→5 (%)	47.9 - 90.1 - 99.2 - 100.0 - 85.1
ULOR (%)	0.0	Imax (cd)	2117	Gradient 90°	26cd
ULR (%)	0.0	Aperture 0-180°	X - X	Gradient 270°	9cd
Incl ULR 4%	-34/36°	Aperture 90-270°	X - X		



Photometrical characteristics

LED count	Colour code	Current (mA)	Luminaire power (W)	Source flux (lm)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)	Peak (cd)	BUG Rating	Voltage (V)
Ambient temp = 25°									
32	NW 740	200	20	3087	2628	131	6534	B1 U0 G1	230
32	NW 740	300	30	4927	4195	140	10429	B1 U0 G1	230
32	NW 740	450	46	7362	6268	136	15582	B2 U0 G1	230
32	NW 740	500	50	8078	6878	138	17098	B2 U0 G1	230
32	NW 740	650	65	9977	8495	133	21117	B2 U0 G2	230
32	NW 740	700	70	10582	9010	129	22399	B2 U0 G2	230
32	NW 740	800	79	11467	9764	124	24273	B2 U0 G2	230
32	WW 830	200	20	2595	2209	110	5492	B1 U0 G1	230
32	WW 830	300	30	4142	3527	118	8767	B1 U0 G1	230
32	WW 830	450	46	6189	5269	115	13099	B2 U0 G1	230
32	WW 830	500	50	6791	5782	116	14374	B2 U0 G1	230
32	WW 830	650	65	8387	7141	112	17752	B2 U0 G1	230
32	WW 830	700	70	8896	7575	108	18830	B2 U0 G1	230
32	WW 830	800	79	9640	8208	104	20405	B2 U0 G1	230
32	WW 727	200	20	2764	2354	118	5851	B1 U0 G1	230
32	WW 727	300	30	4413	3757	125	9340	B1 U0 G1	230
32	WW 727	450	46	6593	5614	122	13955	B2 U0 G1	230
32	WW 727	500	50	7235	6160	123	15313	B2 U0 G1	230
32	WW 727	650	65	8935	7608	119	18912	B2 U0 G1	230
32	WW 727	700	70	9477	8070	115	20061	B2 U0 G1	230
32	WW 727	800	79	10270	8745	111	21739	B2 U0 G2	230
32	WW 730	200	20	2849	2426	121	6031	B1 U0 G1	230
32	WW 730	300	30	4548	3873	129	9627	B1 U0 G1	230
32	WW 730	450	46	6795	5786	126	14383	B2 U0 G1	230
32	WW 730	500	50	7457	6349	127	15783	B2 U0 G1	230
32	WW 730	650	65	9209	7841	123	19492	B2 U0 G1	230
32	WW 730	700	70	9768	8317	119	20676	B2 U0 G1	230
32	WW 730	800	79	10585	9013	114	22405	B2 U0 G2	230

Tolerance on flux +- 7% - Tolerance on power +- 5%



14/07/2020

Summary

CONCEPT

Family of 3 road LED luminaires: Mini, Midi, Maxi

Applications: Bike path, Bridge, Car park, Large area, Park, Road and highway, Roundabout, Square and park, Urban road

Dimensions (mm):

- Width: 436.00
- Height: 132.00
- Length: 674.00

Weight (kg): 11.50

Recommended height installation: between 4.00 and 12.00m

For optimal heat dissipation, the driver and LED engine are in separate compartments and juxtaposed in a horizontal section

Independent optical compartment on spigot ensures easy installation

HOUSING & FINISH

- Housing in high-pressure, die-cast aluminium, polyester powder coated
- Direct and tool free access to housing with driver compartment and optical unit by releasing the lateral latches and pivoting downwards. Quick connectors (knife switch) allow easy removal of the housing.
- Colour: AKZO grey 900 sanded
- Luminaire Cd.S (drag): 0.078m²; Cs.S (side): 0.036m²; Cl.S (lift): 0.115m²
- Tightness - driver & optical: IP 66
- Impact resistance: IK 09

INSTALLATION

- Reversible fixation in high-pressure, die-cast aluminium
- Diameter 32-48, 48-60mm or 76mm, tightened with 2 stainless steel screws
- Allows tilt on a vertical pole from 0 to +15°; on a horizontal spigot from 0 to -15° by 5° steps
- Tool free access for maintenance

OPTICAL UNIT

- "FutureProof" optical unit, replaceable on-site, enclosed in the housing with a removable gasket - Shore50
- Protected against lens degradation with a 5mm thick extra-clear hardened glass
- Flatbed PCB with acrylic lens overlay principle
- Various photometric distributions: from narrow road to motorway, medium and large area
- CRI > 70
- ULR: 0%

LED lumen depreciation

- Lifetime residual flux @ Tq=25°C @ 100.000 hrs: 350mA & 500mA: 90%; 700mA: 80%

ELECTRICAL

- Class I or Class II
- Input voltage: 120-277V - 50-60Hz
- Power factor > 90% at full load
- 10kV, 10kA surge protection
- Power automatically switches off when opened
- Thermal protection on LED PCBA

STANDARDS & CERTIFICATIONS

AMPERA MIDI - 5145 - 32 Osram OSLOM SQUARE GIANT - Flat glass - 415072



14/07/2020

- CE
- ENEC
- LM79-80
- ETL
- ROHS
- All measurements in ISO17025 accredited laboratory

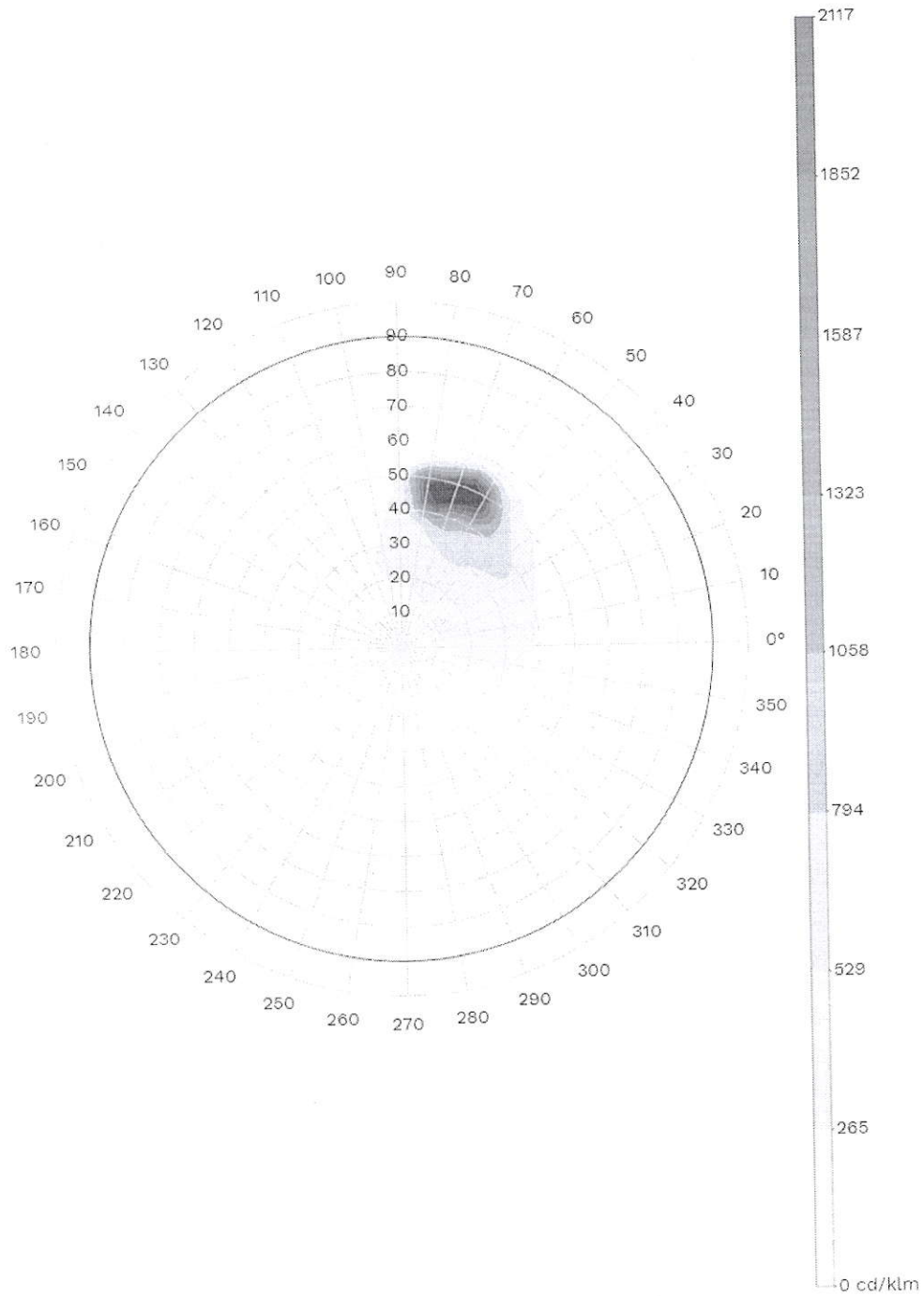
OPTIONS

- Other RAL or AKZO colours
- Other light distributions
- Back light control
- CW or WW LEDs
- OWLET remote management
- Custom dimming profile; Constant Lumen Output (CLO); Bi-Power
- Photocell
- Motion detection



14/07/2020

Hypergon view



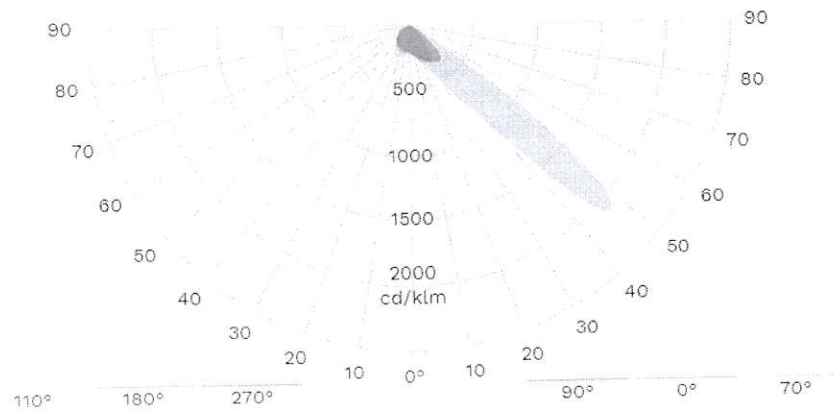
AMPERA MIDI - 5145 - 32 Osram OSOLON SQUARE GIANT - Flat glass - 415072



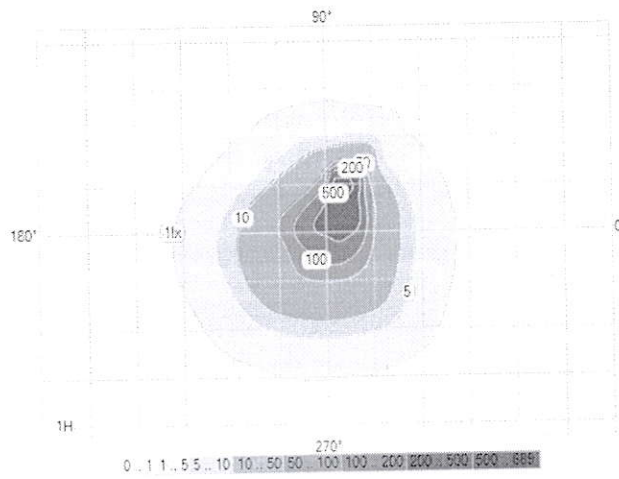
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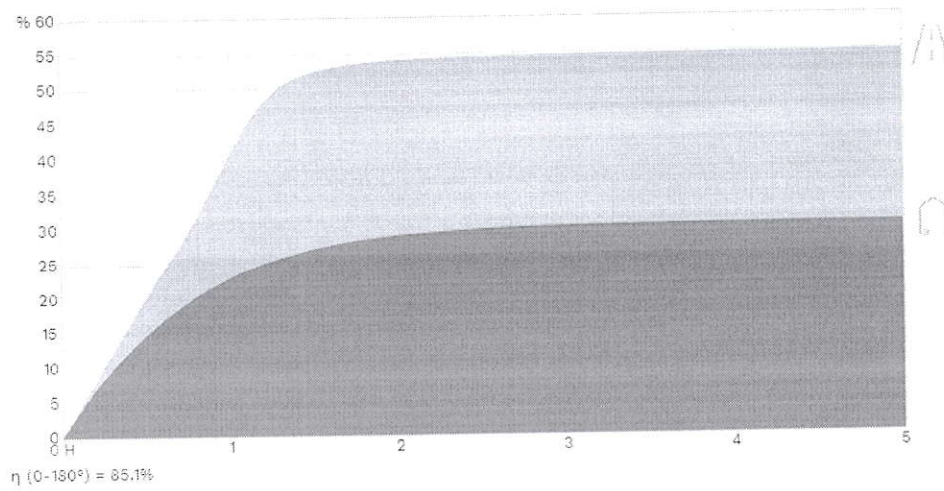
Polar/Cartesian diagram



Isolux



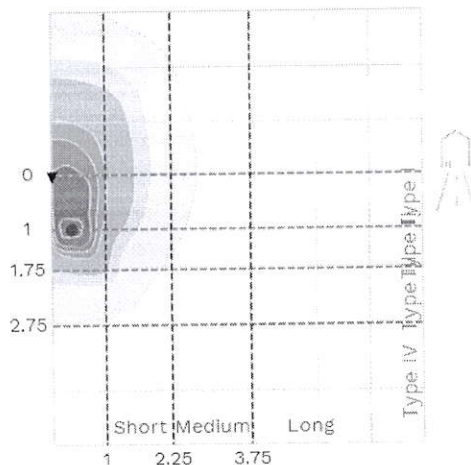
K-Curve



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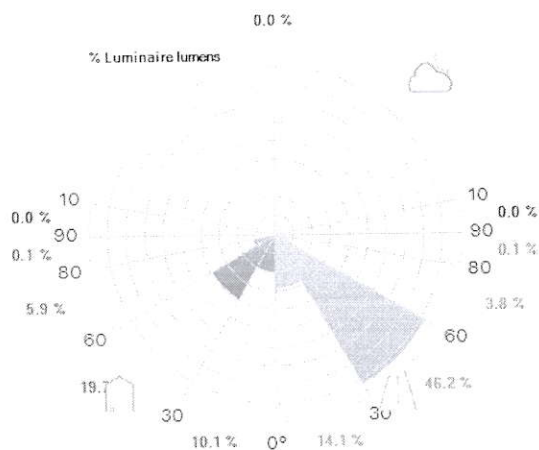


IES Roadway Classification / Nema Classification

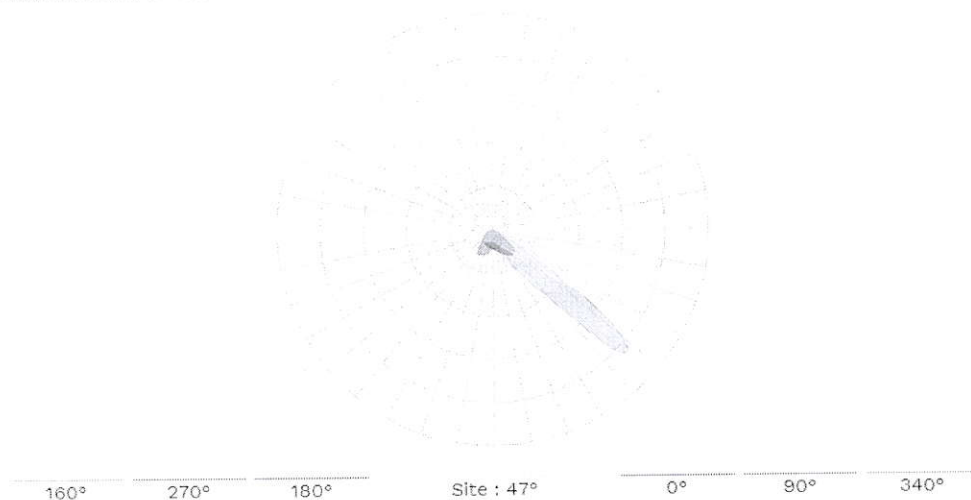


II - VeryShort

Luminaire classification system (LCS)



Intensity diagram in max Cone and in CPlane



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AMPERA MIDI - 5145 - 32 Osram OSOLON SQUARE GIANT - Flat glass - 415072



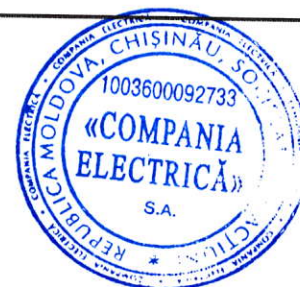
AENOR
CERTIFICAT ENEC DE PRODUS

[logo ENEC 01]

Tip produs:	aparat de iluminat public
r1) Nr. Certificat:	ENEC/001108
r2) Data certificat:	2019-01-30
r3) Raport de testare nr:	-
r4) Nume si adresa a licentiatului:	SCHREDER GROUP RUE DE LUSAMBO, 67 B-1190 BRUXELLES (Belgia)
r5) Adresa fabricii:	AV ROANNE 66 - PI EL HENARES 19130 MARCHAMALO (Guadalajara - Spania)
r6) Standard spaniol:	UNE-EN 60598-1:2015; UNE-EN 60598-2-3:2003; UNE-EN 60598-2-3:2003/A1:2011; UNE-EN 62262:2002
r7) Standard European:	EN 60598-1:2015; EN 60598-2-3:2003; EN 60598-2-3:2003/A1:2011; EN 62262:2002
r8) Tip referinta:	vezi Anexa 1
r9) Marca comerciala:	SCHREDER
r10) Tensiune si frecventa nominal:	230 V~; 50/60 Hz
r11) Nr. de lampi x putere nominala:	vezi Anexa 1
r12) Tip de lampi si soclu:	modul LED; SMD
r13) Grad de protectie (IP):	IP66; IK08
r14) Mod conexiune alimentare:	terminale
r15) Clasificare material de baza:	potrivit pentru suprafete cu grad obisnuit de flamabilitate
r16) Protectie impotriva socurilor electrice (clasa):	Clasa I,II
r17) Limitari: montaj orizontal:	vezi Anexa 1
r18) Date tehnice:	vezi Anexa 1

Data expirarii: 17.0911.2021

Traductorul el Internet Autorizat
L. INCALBES
Arhivare: 17.09.2021
Engleza, Maghiara



AENOR
CERTIFICAT ENEC DE PRODUS

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ANEXA 1 LA CERTIFICATUL ENEC/001108

TIP REFERINTA	NR. LAMPI x PUTERE NOMINALA	RESTRICTII	INFORMATII ADITIONALE
AXIA 2.1 8 LED 12 W	8 LED; 12 W; 480 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 50 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.1. Alb neutru
AXIA 2.1 8 LED 17 W	4 LED; 17 W; 690 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 50 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.1. Alb neutru
AXIA 2.1 8 LED 20 W	4 LED; 20 W; 820 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 50 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.1. Alb neutru
AXIA 2.2 32 LED 68 W	32 LED; 68 W; 690 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 32 LED 85 W	32 LED; 85 W; 860 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 32 LED 95 W	32 LED; 95 W; 960 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 40 LED 114 W	40 LED; 114 W; 920 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 40 LED 124 W	40 LED; 124 W; 1000mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 40 LED 46 W	40 LED; 46 W; 370 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 40 LED 51 W	40 LED; 51 W; 410 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 40 LED 56 W	40 LED; 56 W; 450 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 40 LED 60 W	32 LED; 60 W; 480 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald

AENOR INTERNACIONAL
Genova 6, 28004, Madrid, Spania
Tel. 91 432 60 00 – www.aenor.es
Entitate de certificare produs acreditata de ENAC, numar 01/C-PR275



AENOR
CERTIFICAT ENEC DE PRODUS

[logo ENEC 01]

ANEXA 1 LA CERTIFICATUL ENEC/001108

TIP REFERINTA	NR. LAMPI x PUTERE NOMINALA	RESTRICTII	INFORMATII ADITIONALE
AXIA 2.2 40 LED 94 W	40 LED; 94 W; 760 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 48 LED 109 W	48 LED; 109 W; 730 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 48 LED 119 W	48 LED; 119 W; 800 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 48 LED 132 W	48 LED; 132 W; 890 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 48 LED 143 W	48 LED; 143 W; 960 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 48 LED 149 W	48 LED; 149 W; 1020 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 48 LED 68 W	48 LED; 68 W; 460 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 48 LED 79 W	48 LED; 79 W; 530 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 48 LED 88 W	48 LED; 88 W; 590 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald
AXIA 2.2 48 LED 98 W	48 LED; 98 W; 660 mA	Montaj orizontal. Fixat pe stalp sau pe brat. Ta max.= 30 °C; spatiu minim pentru obiecte iluminate: 0,2 m	seria AXIA 2.2. Alb neutru si alb cald

AENOR INTERNACIONAL
Genova 6, 28004, Madrid, Spania
Tel. 91 432 60 00 – www.aenor.es
Entitate de certificare produs acreditata de ENAC, numar 01/C-PR275

Traducător al Internetului Autorizat
L. N. 15/2007
Amplificat în limba
Engleza, Franceza
și
Rusia



LICENȚĂ

Nr. 20892 – Revizia 3

Eliberat pentru:

Aplicant:

R-Tech

Rue de Mons, 3

4000 LIEGE

Belgia

Posesor licență:

Schreder S.A.

Rue de Lusambo, 67

B-1190 BRUXELLES

Belgia

Produs : aparate de iluminat căi de circulație, piețe, stradal

Nume de înregistrare : SCHREDER

Tipul modelului : AMPERA MAXI, AMPERA MIDI, AMPERA MINI

Produsul și orice versiune este menționat în Anexa la această licență precum și documentele la care se referă.

SGS CEBEC, prin prezenta, declară că produsul mai sus menționat a fost certificat în baza:

- testelor tip conforme standardului specificat în anexă
- inspecției la locul de producție
- documentului de certificare cu nr. 1173

SGS CEBEC, marcă de calitate înregistrată, garantează prin prezenta dreptul de a folosi marca de certificare CEBEC

Marca de certificare ENEC/CEBEC poate fi aplicată pe produsul specificat în această licență pe durata valabilității documentului de certificare ENEC/CEBEC, și conform condițiilor documentului de certificare ENEC/CEBEC.

Licența a fost eliberată la 11/09/2019

Semnătură indescifrabilă

ir. C. Lana,

Director Certificare

Este permisă numai publicarea integrală a acestei certificări, inclusiv anexa.

Acest certificat este valid doar împreună cu publicarea adresei: www.sgs.com/ee

SGS Belgium NV-Division SGS CEBEC
Business Riverside Park
Bid internationaiaelaan 55 Bulid. D
B-1070 Brussels
Tel.+32(0)2 556 00 20 Fax.+32(0)2 556 00 36



DATELE TEHNICE ALE PRODUSULUI CERTIFICAT

Date produs

Produs : Căi de circulație, piețe, stradal
Nume de marcă : SCHREDER
Tipul(uri) : AMPERA MAXI, AMPERA MIDI, AMPERA MINI
Descriere : Iluminat stradal
Tensiune nominală : 230-240 V
Frecvența nominală : 50/60 Hz
Grad de etanșeitate : IP 66/66
Clasa : clasa I
Informații suplimentare : IK09

Informații suplimentare

Disponibile în Alb Neutru, Alb rece & Alb cald

Informații produs- tip AMPERA MIDI

Putere nominală : max. 201 W
Lampă(i) : 32-48-64 LED-uri XP-L, XP-L2, OSLO, XP-G2,
XPG3
Temperatura mediului ambiant : max 55° C
Curent nominal secundar (in SEC) : 0-1000mA

Informații produs- tip AMPERA MINI

Putere nominală : max. 77 W
Lampă(i) : 8-16-24 LED-uri XP-L, XP-L2, OSLO, XP-G2,
XPG3
Temperatura mediului ambiant : max 55° C
Curent nominal secundar (in SEC) : 0-1000mA

SGS Belgium NV-Division SGS CEBEC
Business Riverside Park
Bid internationalaan 55 Bulid. D
B-1070 Brussels
Tel.+32(0)2 556 00 20 Fax.+32(0)2 556 00 36

604814/27



Traducător și Interpret Autorizat
LIMBUI ENGLEZĂ, FRANCEZĂ
Amplasat în Moldova
engleză, franceză

ANEXĂ LA LICENȚA ENEC/CEBEC nr. 20693 – revizia 3
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Informatii produs- tip AMPERA MAXI

Putere nominală : max. 310 W
Lampă(i) : 80-96-112-128 LED-uri XP-L, XP-L2, OSLO, XP-G2, XPG3
Temperatura mediului ambiant : max 55° C
Curent nominal secundar (in SEC) : 0-800mA

TESTE

CERINTE

EN 60598-1:2015+A1:2018
EN 60598-2-3:2003+A1:2011

Rezultate

Rezultatele testelor se gasesc in certificatul cu numarul 604814/27

Observatii

Acest certificat are la bază raportul testului Nr. P1536-38-lc

Concluzie :

Verificarea a demonstrat că toate cerințele au fost îndeplinite.

Verificat de către, coordonator proiect
Director Departament
Certificare Produs

Christian Maes –11/09/2019

Director Certificare

semnătură indescifrabilă, data



