

3F Reno



Focused on efficiency



Patented

To combine comfort, effectiveness and efficiency: this is the objective of 3F Reno, the new recessed spotlight designed to provide quality lighting in every context, from professional to commercial environments.

Available in 3 different sizes (100, 150 and 200 millimetre recessed holes), it provides maximum installation flexibility: a wide range of luminous fluxes (from 900 lumen right up to more than 4000 lumen), excellent colour rendering and a high level of visual comfort.

3F Reno is available with 4 different luminous flux distributions: Wide, Spot, Elliptical and UGR.

3F Reno comes in two different colours (black and white) to adapt better to the different contexts it is used in.

3F Reno

Product range

3F Reno was developed to obtain the lowest luminance level possible by working with the lens on flow distribution: the percentage of light emitted directly (which therefore does not interact with the reflector) is higher than **95%**.

The stepped surface visibly halves the reflective surface: this structure practically eliminates annoying reflections that can affect the viewer's eye even if they are at a discrete distance from the product (as in open plan offices).

In installations where minimum luminance values are required, the BK version with black reflector has reduced values up to **95%** (3F Reno 200 BK WIDE) compared to the WH version made of white polycarbonate.

Versions with a White reflector (WH):



3F Reno 100 WH

3F Reno 150 WH

3F Reno 200 WH

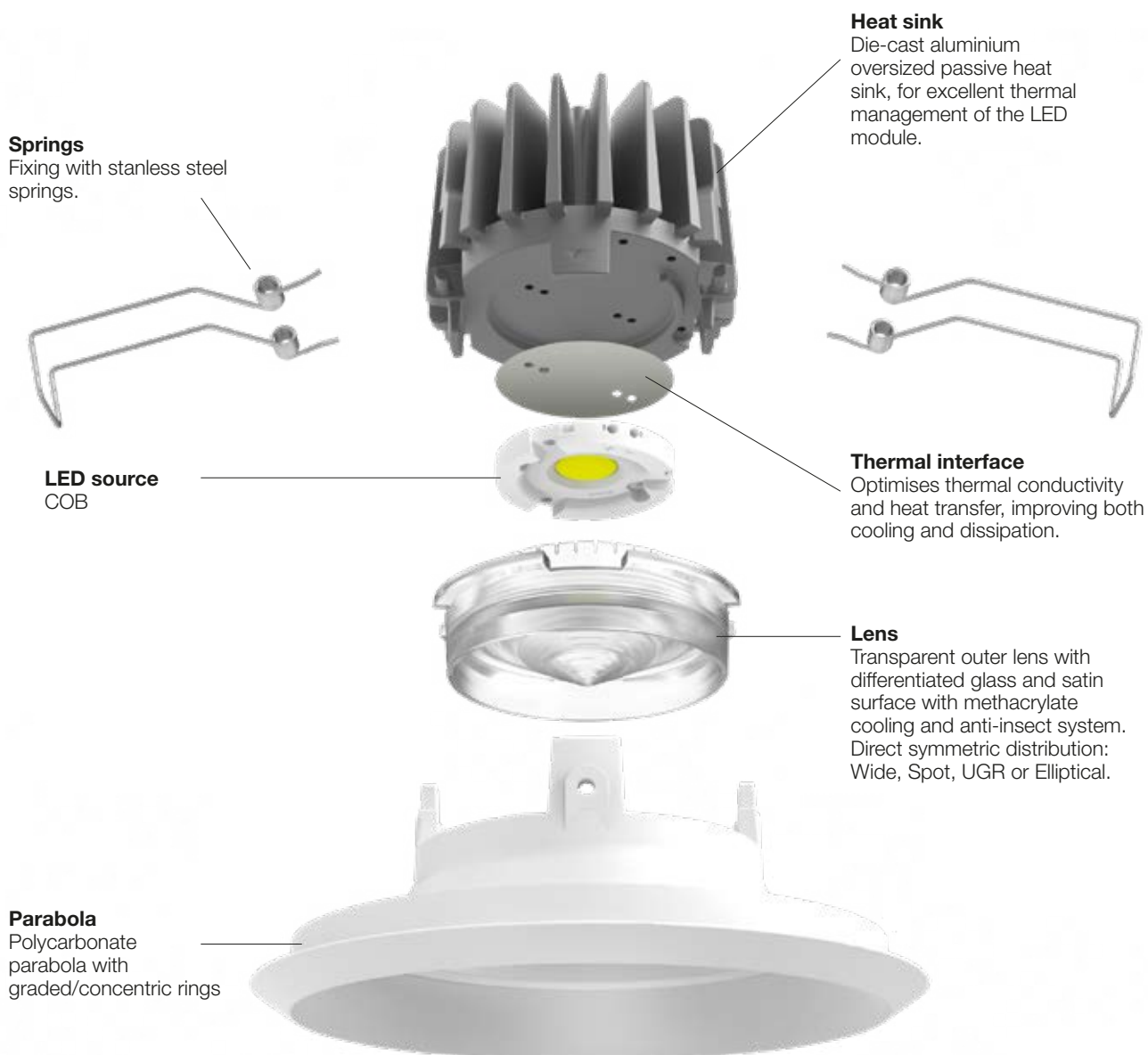
Versions with a Black reflector (BK):



3F Reno 100 BK

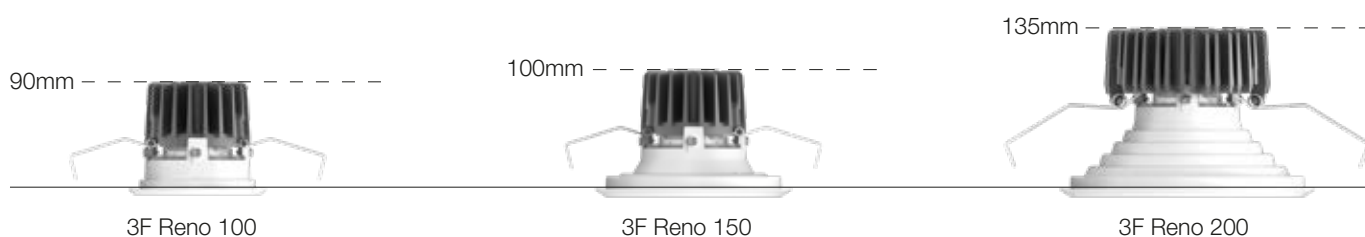
3F Reno 150 BK

3F Reno 200 BK



Every environment is unique: to provide the most appropriate lighting according to specific needs and requirements 3F Reno comes in 3 different sized recessed holes: 100mm, 150mm and 200mm (actual sizes 116mm, 166mm and 216mm). To facilitate the installation of every product every fixture is supplied with a template to make the hole.

All versions share a significant advantage in terms of practicality: we have developed a highly efficient, compact heat sink that facilitates installation in shallow technical spaces, ensuring that these sizes do not vary **regardless of the photometric distribution used** (unlike what happens for most products on the market). This way the recessed dimensions from the external edge of the plasterboard are as follows:



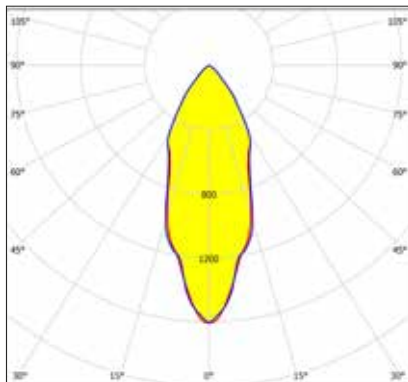
3F Reno

Luminous distribution for all requirements

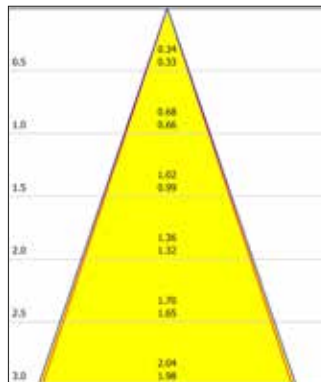
A light for every environment. 3F Reno was designed to provide the most suitable lighting according to the architectural context. The 4 luminous flux beam openings make it possible to enhance all illuminated space to the full using suitable beam openings, according to the use of the environment.

Spot Distribution

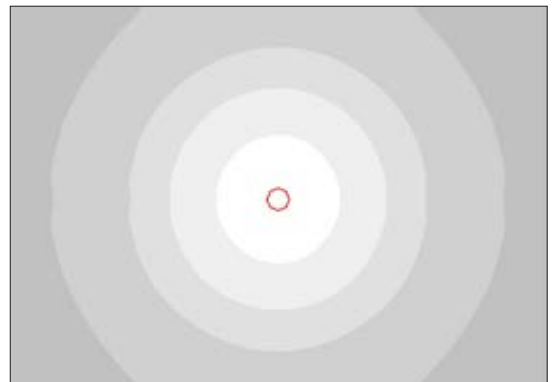
Photometry



Cone Diagram



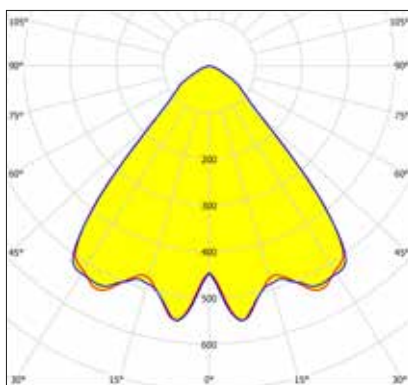
Projected on the ground



SPOT distribution is recommended to provide concentrated lighting in specific points and is the ideal choice for those environments with high ceilings or to create accent lighting. High performance with a highly controlled beam. Beam opening angle: 37°.

Wide Distribution

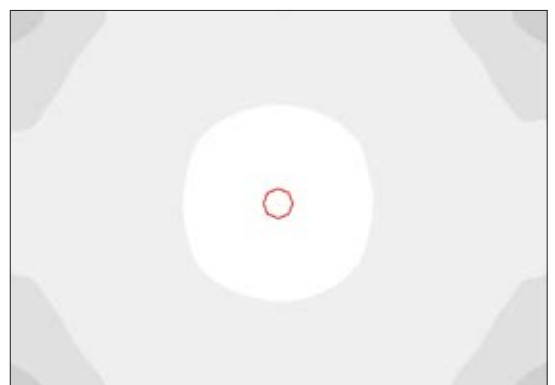
Photometry



Cone Diagram



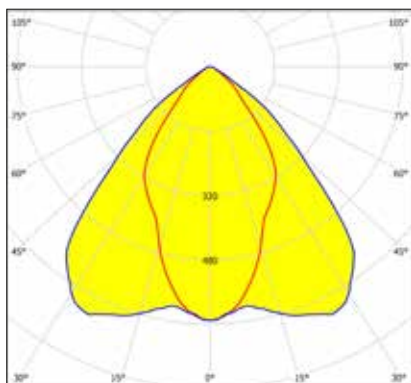
Projected on the ground



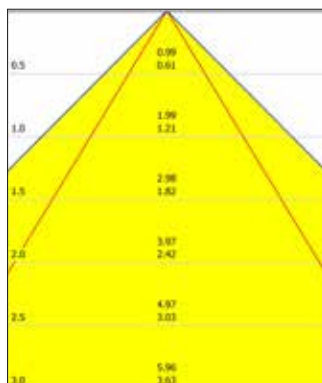
WIDE distribution is recommended to broadly cover an area thus creating diffused and homogeneous light. The light is produced given the shape of the lens that optimises the LED source distributing the light in a soft, diffused way. Beam opening angle: 84°.

Elliptical Distribution (ELL)

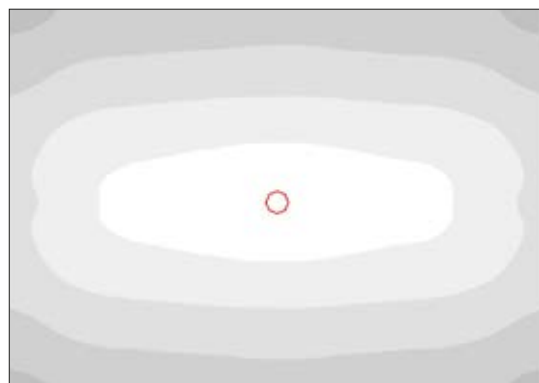
Photometry



Cone Diagram



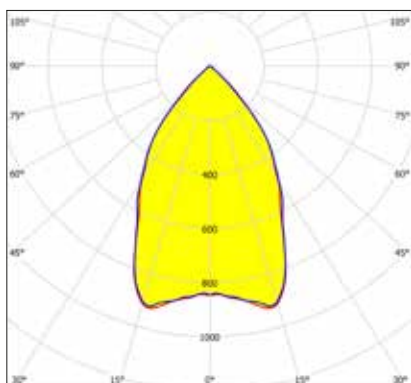
Projected on the ground



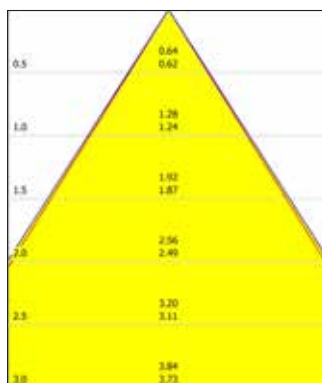
ELLIPTICAL distribution is recommended to create elliptical, precise and efficient light. It is particularly suitable for use in corridors or in applications where it is necessary to highlight lanes.
 Beam opening angle: 90° (longitudinal axis) and 64° (transversal axis).

UGR Distribution

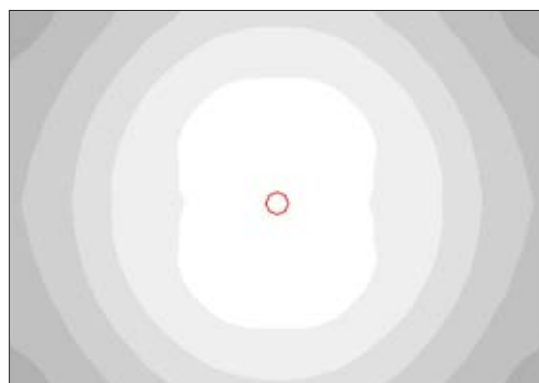
Photometry



Cone Diagram



Projected on the ground



UGR distribution is recommended for all those environments bound by the EN12464-1 standard on limits on direct glare, as well as environments with extremely high or double volume ceilings where light control is critical to ensure good lighting value, precision and visual comfort.
 Beam opening angle: 64°.



3F Reno White

Construction characteristics

Illuminotechnical characteristics

Direct symmetric distribution: wide, spot, UGR, elliptical.
 Lifetime (L85/B10): 30000 h. (tq+25°C)
 Lifetime (L80/B10): 50000 h. (tq+25°C)
 Colour temperature available /840 and /930.

UGR version

Average luminance <math><1000\text{ cd/m}^2</math> for radial angles >65°.

Mechanical characteristics

Passive heat dissipator in die-casting aluminium, oversized, for optimum thermal management of the LED module.
 Parabolic element with graduated/concentric rings in white polycarbonate.
 Transparent external lens with glossy and satin differentiated surfaces, with a cooling and anti-insect system in methacrylate.
 Internal specular metallic louvre to optimise control of the luminous flux in polycarbonate in Spot, UGR and Elliptical versions.
 Fastening spring clips in stainless steel.

Electrical characteristics

Luminaires with EP permanent emergency wiring are EN 60598-2-22 standard compliant.
 Wiring on a separate unit.
 Class II.

Source characteristics

- Compact LED module.
- Color initial tolerance (MacAdam): SDCM 3.
- Zhaga Book 3 compliant.

On request

- different power levels, colour rendering indices and colour temperatures
- on/off ballast, compliant with EN 60598-2-22 (high-risk areas excluded)

Accessories

Accessories on page 216.

Applications

Environments: architectural, commercial, exhibition areas, transit areas, corridors, shops, display windows, service areas. In false ceilings with narrow voids.

UGR version

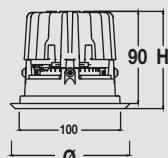
In environments with VDTs, managerial offices and staterooms, public offices and schools.

Light Management

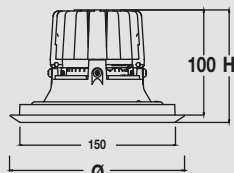
The DALI products of this family can be controlled manually with the technology 3F Easy or even automatically and manually using the 3F Smart Dimming technology (see "Light Management" chapter).

Dimensions

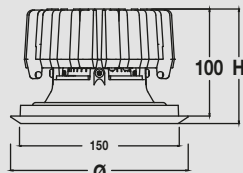
3F Reno 100
1000 - 2000



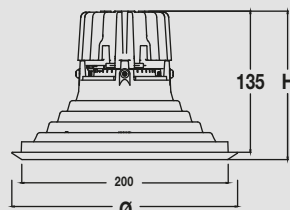
3F Reno 150
1500 - 2000



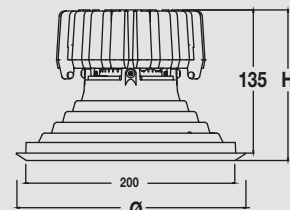
3F Reno 150
3000



3F Reno 200
2000

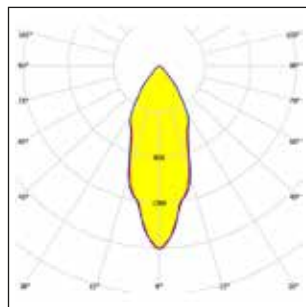


3F Reno 200
2500 - 3000 - 4000



3F Reno White Spot

Code 30281



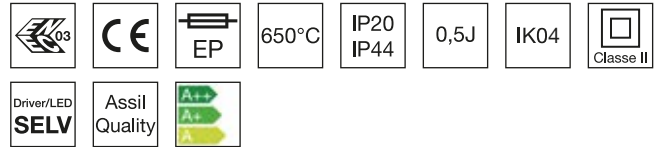
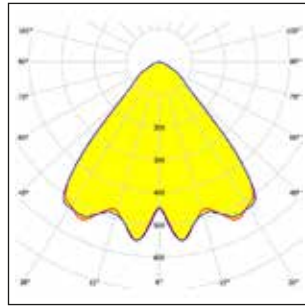
Internal spotlight louvre in metallic polycarbonate.
 External lens in transparent methacrylate.
 Photobiological safety RG1, low risk, in compliance with IEC 62471, IEC/TR 62778 (further information on page 540).

Code	Item	Beam angle	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions ø x H
Electronic wiring 230V-50/60Hz							
30005	3F Reno 100 WH 1000/930 SPOT	37°	13	1408	3000	>90	116x95
30001	3F Reno 100 WH 1000/840 SPOT	37°	13	1770	4000	>80	116x95
30009	3F Reno 100 WH 2000/840 SPOT	37°	20	2416	4000	>80	116x95
30013	3F Reno 100 WH 2000/930 SPOT	37°	23	2259	3000	>90	116x95
30273	3F Reno 150 WH 2000/840 SPOT	37°	20	2422	4000	>80	166x107
30277	3F Reno 150 WH 2000/930 SPOT	37°	23	2265	3000	>90	166x107
30281	3F Reno 150 WH 3000/840 SPOT	37°	28	3225	4000	>80	166x107
30285	3F Reno 150 WH 3000/930 SPOT	37°	37	3151	3000	>90	166x107
30521	3F Reno 200 WH 2000/840 SPOT	37°	20	2411	4000	>80	216x142
30525	3F Reno 200 WH 2000/930 SPOT	37°	23	2254	3000	>90	216x142
30529	3F Reno 200 WH 3000/840 SPOT	37°	28	3210	4000	>80	216x142
30537	3F Reno 200 WH 4000/840 SPOT	37°	35	4264	4000	>80	216x142
30533	3F Reno 200 WH 3000/930 SPOT	37°	37	3136	3000	>90	216x142
30541	3F Reno 200 WH 4000/930 SPOT	37°	42	3829	3000	>90	216x142
DALI electronic wiring 230V-50/60Hz							
30039	3F Reno 100 WH 1000/930 DALI SPOT	37°	13	1408	3000	>90	116x95
30035	3F Reno 100 WH 1000/840 DALI SPOT	37°	13	1770	4000	>80	116x95
30043	3F Reno 100 WH 2000/840 DALI SPOT	37°	20	2416	4000	>80	116x95
30047	3F Reno 100 WH 2000/930 DALI SPOT	37°	23	2259	3000	>90	116x95
30307	3F Reno 150 WH 2000/840 DALI SPOT	37°	20	2422	4000	>80	166x107
30311	3F Reno 150 WH 2000/930 DALI SPOT	37°	23	2265	3000	>90	166x107
30315	3F Reno 150 WH 3000/840 DALI SPOT	37°	28	3225	4000	>80	166x107
30319	3F Reno 150 WH 3000/930 DALI SPOT	37°	37	3151	3000	>90	166x107
30571	3F Reno 200 WH 2000/840 DALI SPOT	37°	20	2411	4000	>80	216x142
30575	3F Reno 200 WH 2000/930 DALI SPOT	37°	23	2254	3000	>90	216x142
30579	3F Reno 200 WH 3000/840 DALI SPOT	37°	28	3210	4000	>80	216x142
30587	3F Reno 200 WH 4000/840 DALI SPOT	37°	35	4264	4000	>80	216x142
30583	3F Reno 200 WH 3000/930 DALI SPOT	37°	37	3136	3000	>90	216x142
30591	3F Reno 200 WH 4000/930 DALI SPOT	37°	42	3829	3000	>90	216x142

Code	Item	Beam angle	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions ø x H
EP maintained emergency wiring, 1hr duration with 24hrs recharge, fuse (fluxes on page 546)							
30022	3F Reno 100 WH 1000/930 EP SPOT	37°	13	1408	3000	>90	116x95
30018	3F Reno 100 WH 1000/840 EP SPOT	37°	13	1770	4000	>80	116x95
30026	3F Reno 100 WH 2000/840 EP SPOT	37°	20	2416	4000	>80	116x95
30030	3F Reno 100 WH 2000/930 EP SPOT	37°	23	2259	3000	>90	116x95
30290	3F Reno 150 WH 2000/840 EP SPOT	37°	20	2422	4000	>80	166x107
30294	3F Reno 150 WH 2000/930 EP SPOT	37°	23	2265	3000	>90	166x107
30298	3F Reno 150 WH 3000/840 EP SPOT	37°	28	3225	4000	>80	166x107
30302	3F Reno 150 WH 3000/930 EP SPOT	37°	37	3151	3000	>90	166x107
30546	3F Reno 200 WH 2000/840 EP SPOT	37°	20	2411	4000	>80	216x142
30550	3F Reno 200 WH 2000/930 EP SPOT	37°	23	2254	3000	>90	216x142
30554	3F Reno 200 WH 3000/840 EP SPOT	37°	28	3210	4000	>80	216x142
30562	3F Reno 200 WH 4000/840 EP SPOT	37°	35	4264	4000	>80	216x142
30558	3F Reno 200 WH 3000/930 EP SPOT	37°	37	3136	3000	>90	216x142
30566	3F Reno 200 WH 4000/930 EP SPOT	37°	42	3829	3000	>90	216x142

3F Reno White Wide

Code 30349



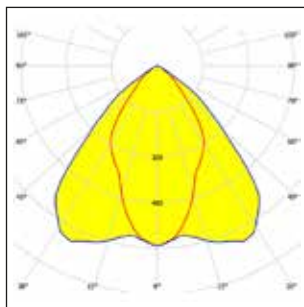
Wide lens in transparent methacrylate.
Photobiological safety RG0 (excluding versions 4000 - RG1), risk exempt, in compliance with IEC 62471, IEC/TR 62778 (further information on page 540).









Code	Item	Beam angle	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions ø x H
Electronic wiring 230V-50/60Hz							
30073	3F Reno 100 WH 1000/930 WIDE	84°	13	1137	3000	>90	116x95
30069	3F Reno 100 WH 1000/840 WIDE	84°	13	1429	4000	>80	116x95
30077	3F Reno 100 WH 2000/840 WIDE	84°	20	1951	4000	>80	116x95
30081	3F Reno 100 WH 2000/930 WIDE	84°	23	1824	3000	>90	116x95
30341	3F Reno 150 WH 2000/840 WIDE	84°	20	2012	4000	>80	166x107
30345	3F Reno 150 WH 2000/930 WIDE	84°	23	1881	3000	>90	166x107
30349	3F Reno 150 WH 3000/840 WIDE	84°	28	2679	4000	>80	166x107
30353	3F Reno 150 WH 3000/930 WIDE	84°	37	2617	3000	>90	166x107
30621	3F Reno 200 WH 2000/840 WIDE	85°	20	1923	4000	>80	216x142
30625	3F Reno 200 WH 2000/930 WIDE	85°	23	1798	3000	>90	216x142
30629	3F Reno 200 WH 3000/840 WIDE	85°	28	2561	4000	>80	216x142
30637	3F Reno 200 WH 4000/840 WIDE	85°	35	3401	4000	>80	216x142
30633	3F Reno 200 WH 3000/930 WIDE	85°	37	2502	3000	>90	216x142
30641	3F Reno 200 WH 4000/930 WIDE	85°	42	3054	3000	>90	216x142
DALI electronic wiring 230V-50/60Hz							
30107	3F Reno 100 WH 1000/930 DALI WIDE	84°	13	1137	3000	>90	116x95
30103	3F Reno 100 WH 1000/840 DALI WIDE	84°	13	1429	4000	>80	116x95
30111	3F Reno 100 WH 2000/840 DALI WIDE	84°	20	1951	4000	>80	116x95
30115	3F Reno 100 WH 2000/930 DALI WIDE	84°	23	1824	3000	>90	116x95
30375	3F Reno 150 WH 2000/840 DALI WIDE	84°	20	2012	4000	>80	166x107
30379	3F Reno 150 WH 2000/930 DALI WIDE	84°	23	1881	3000	>90	166x107
30383	3F Reno 150 WH 3000/840 DALI WIDE	84°	28	2679	4000	>80	166x107
30387	3F Reno 150 WH 3000/930 DALI WIDE	84°	37	2617	3000	>90	166x107
30671	3F Reno 200 WH 2000/840 DALI WIDE	85°	20	1923	4000	>80	216x142
30675	3F Reno 200 WH 2000/930 DALI WIDE	85°	23	1798	3000	>90	216x142
30679	3F Reno 200 WH 3000/840 DALI WIDE	85°	28	2561	4000	>80	216x142
30687	3F Reno 200 WH 4000/840 DALI WIDE	85°	35	3401	4000	>80	216x142
30683	3F Reno 200 WH 3000/930 DALI WIDE	85°	37	2502	3000	>90	216x142
30691	3F Reno 200 WH 4000/930 DALI WIDE	85°	42	3054	3000	>90	216x142




Code	Item	Beam angle	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions ø x H
EP maintained emergency wiring, 1hr duration with 24hrs recharge, fuse (fluxes on page 546)							
30090	3F Reno 100 WH 1000/930 EP WIDE	84°	13	1137	3000	>90	116x95
30086	3F Reno 100 WH 1000/840 EP WIDE	84°	13	1429	4000	>80	116x95
30094	3F Reno 100 WH 2000/840 EP WIDE	84°	20	1951	4000	>80	116x95
30098	3F Reno 100 WH 2000/930 EP WIDE	84°	23	1824	3000	>90	116x95
30358	3F Reno 150 WH 2000/840 EP WIDE	84°	20	2012	4000	>80	166x107
30362	3F Reno 150 WH 2000/930 EP WIDE	84°	23	1881	3000	>90	166x107
30366	3F Reno 150 WH 3000/840 EP WIDE	84°	28	2679	4000	>80	166x107
30370	3F Reno 150 WH 3000/930 EP WIDE	84°	37	2617	3000	>90	166x107
30646	3F Reno 200 WH 2000/840 EP WIDE	85°	20	1923	4000	>80	216x142
30650	3F Reno 200 WH 2000/930 EP WIDE	85°	23	1798	3000	>90	216x142
30654	3F Reno 200 WH 3000/840 EP WIDE	85°	28	2561	4000	>80	216x142
30662	3F Reno 200 WH 4000/840 EP WIDE	85°	35	3401	4000	>80	216x142
30658	3F Reno 200 WH 3000/930 EP WIDE	85°	37	2502	3000	>90	216x142
30666	3F Reno 200 WH 4000/930 EP WIDE	85°	42	3054	3000	>90	216x142

3F Reno White Elliptical

Code 30461



Internal elliptical louvre in metallic polycarbonate.
 External lens in transparent methacrylate.
 Photobiological safety RG1, low risk, in compliance with IEC 62471, IEC/TR 62778 (further information on page 540).

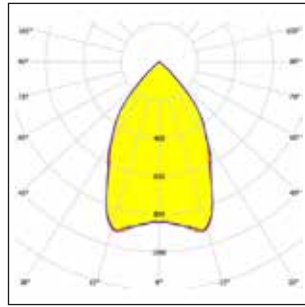
Code	Item	Beam angle	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions ø x H
Electronic wiring 230V-50/60Hz							
30209	3F Reno 100 WH 1000/930 ELL	90° - 64°	13	1208	3000	>90	116x95
30205	3F Reno 100 WH 1000/840 ELL	90° - 64°	13	1518	4000	>80	116x95
30213	3F Reno 100 WH 2000/840 ELL	90° - 64°	20	2073	4000	>80	116x95
30217	3F Reno 100 WH 2000/930 ELL	90° - 64°	23	1938	3000	>90	116x95
30453	3F Reno 150 WH 2000/840 ELL	90° - 62°	20	2095	4000	>80	166x107
30457	3F Reno 150 WH 2000/930 ELL	90° - 62°	23	1959	3000	>90	166x107
30461	3F Reno 150 WH 3000/840 ELL	90° - 62°	28	2790	4000	>80	166x107
30465	3F Reno 150 WH 3000/930 ELL	90° - 62°	37	2725	3000	>90	166x107
30785	3F Reno 200 WH 2000/840 ELL	90° - 65°	20	2051	4000	>80	216x142
30789	3F Reno 200 WH 2000/930 ELL	90° - 65°	23	1917	3000	>90	216x142
30793	3F Reno 200 WH 3000/840 ELL	90° - 65°	28	2731	4000	>80	216x142
30801	3F Reno 200 WH 4000/840 ELL	90° - 65°	35	3627	4000	>80	216x142
30797	3F Reno 200 WH 3000/930 ELL	90° - 65°	37	2668	3000	>90	216x142
30805	3F Reno 200 WH 4000/930 ELL	90° - 65°	42	3257	3000	>90	216x142
DALI electronic wiring 230V-50/60Hz							
30243	3F Reno 100 WH 1000/930 DALI ELL	90° - 64°	13	1208	3000	>90	116x95
30239	3F Reno 100 WH 1000/840 DALI ELL	90° - 64°	13	1518	4000	>80	116x95
30247	3F Reno 100 WH 2000/840 DALI ELL	90° - 64°	20	2073	4000	>80	116x95
30251	3F Reno 100 WH 2000/930 DALI ELL	90° - 64°	23	1938	3000	>90	116x95
30487	3F Reno 150 WH 2000/840 DALI ELL	90° - 62°	20	2095	4000	>80	166x107
30491	3F Reno 150 WH 2000/930 DALI ELL	90° - 62°	23	1959	3000	>90	166x107
30495	3F Reno 150 WH 3000/840 DALI ELL	90° - 62°	28	2790	4000	>80	166x107
30499	3F Reno 150 WH 3000/930 DALI ELL	90° - 62°	37	2725	3000	>90	166x107
30835	3F Reno 200 WH 2000/840 DALI ELL	90° - 65°	20	2051	4000	>80	216x142
30839	3F Reno 200 WH 2000/930 DALI ELL	90° - 65°	23	1917	3000	>90	216x142
30843	3F Reno 200 WH 3000/840 DALI ELL	90° - 65°	28	2731	4000	>80	216x142
30851	3F Reno 200 WH 4000/840 DALI ELL	90° - 65°	35	3627	4000	>80	216x142
30847	3F Reno 200 WH 3000/930 DALI ELL	90° - 65°	37	2668	3000	>90	216x142
30855	3F Reno 200 WH 4000/930 DALI ELL	90° - 65°	42	3257	3000	>90	216x142

Recessed luminaires

Code	Item	Beam angle	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions ø x H
EP maintained emergency wiring, 1hr duration with 24hrs recharge, fuse (fluxes on page 546)							
30226	3F Reno 100 WH 1000/930 EP ELL	90° - 64°	13	1208	3000	>90	116x95
30222	3F Reno 100 WH 1000/840 EP ELL	90° - 64°	13	1518	4000	>80	116x95
30230	3F Reno 100 WH 2000/840 EP ELL	90° - 64°	20	2073	4000	>80	116x95
30234	3F Reno 100 WH 2000/930 EP ELL	90° - 64°	23	1938	3000	>90	116x95
30470	3F Reno 150 WH 2000/840 EP ELL	90° - 62°	20	2095	4000	>80	166x107
30474	3F Reno 150 WH 2000/930 EP ELL	90° - 62°	23	1959	3000	>90	166x107
30478	3F Reno 150 WH 3000/840 EP ELL	90° - 62°	28	2790	4000	>80	166x107
30482	3F Reno 150 WH 3000/930 EP ELL	90° - 62°	37	2725	3000	>90	166x107
30810	3F Reno 200 WH 2000/840 EP ELL	90° - 65°	20	2051	4000	>80	216x142
30814	3F Reno 200 WH 2000/930 EP ELL	90° - 65°	23	1917	3000	>90	216x142
30818	3F Reno 200 WH 3000/840 EP ELL	90° - 65°	28	2731	4000	>80	216x142
30826	3F Reno 200 WH 4000/840 EP ELL	90° - 65°	35	3627	4000	>80	216x142
30822	3F Reno 200 WH 3000/930 EP ELL	90° - 65°	37	2668	3000	>90	216x142
30830	3F Reno 200 WH 4000/930 EP ELL	90° - 65°	42	3257	3000	>90	216x142

3F Reno White UGR

Code 30721



L<500 cd/m² 65°

150 WH - Average luminance <1000 cd/m² for radial angles >65°.
 200 WH - Average luminance <500 cd/m² for radial angles >65°.
 Internal UGR louvre in metallic polycarbonate.
 External lens in transparent methacrylate.
 Photobiological safety RG1, low risk, in compliance with IEC 62471, IEC/TR 62778 (further information on page 540).

Code	Item	Beam angle	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions ø x H
Electronic wiring 230V-50/60Hz							
30408 ^{NEW}	3F Reno 150 WH 1500/840 UGR	64°	16	1978	4000	>80	166x107
30409	3F Reno 150 WH 2000/840 UGR	64°	20	2427	4000	>80	166x107
30721	3F Reno 200 WH 2000/840 UGR	65°	20	2408	4000	>80	216x142
30725	3F Reno 200 WH 2000/930 UGR	65°	23	2252	3000	>90	216x142
30730	3F Reno 200 WH 2500/930 UGR	65°	27	2551	3000	>90	216x142
30726	3F Reno 200 WH 3000/840 UGR	65°	28	3207	4000	>80	216x142
DALI electronic wiring 230V-50/60Hz							
30430 ^{NEW}	3F Reno 150 WH 1500/840 DALI UGR	64°	16	1978	4000	>80	166x107
30431	3F Reno 150 WH 2000/840 DALI UGR	64°	20	2427	4000	>80	166x107
30753	3F Reno 200 WH 2000/840 DALI UGR	65°	20	2408	4000	>80	216x142
30757	3F Reno 200 WH 2000/930 DALI UGR	65°	23	2252	3000	>90	216x142
30762	3F Reno 200 WH 2500/930 DALI UGR	65°	27	2551	3000	>90	216x142
30758	3F Reno 200 WH 3000/840 DALI UGR	65°	28	3207	4000	>80	216x142
EP maintained emergency wiring, 1hr duration with 24hrs recharge, fuse (fluxes on page 546)							
30419 ^{NEW}	3F Reno 150 WH 1500/840 EP UGR	64°	16	1978	4000	>80	166x107
30420	3F Reno 150 WH 2000/840 EP UGR	64°	20	2427	4000	>80	166x107
30737	3F Reno 200 WH 2000/840 EP UGR	65°	20	2408	4000	>80	216x142
30741	3F Reno 200 WH 2000/930 EP UGR	65°	23	2252	3000	>90	216x142
30746	3F Reno 200 WH 2500/930 EP UGR	65°	27	2551	3000	>90	216x142
30742	3F Reno 200 WH 3000/840 EP UGR	65°	28	3207	4000	>80	216x142

Recessed luminaires



3F Reno Black

Construction characteristics

Illuminotechnical characteristics

Direct symmetric distribution: wide, spot, UGR, elliptical.
 Lifetime (L85/B10): 30000 h. (tq+25°C)
 Lifetime (L80/B10): 50000 h. (tq+25°C)
 Colour temperature available /840 and /930.

UGR version

Average luminance <math><500\text{ cd/m}^2</math> for radial angles >65°.

Mechanical characteristics

Passive heat dissipator in die-casting aluminium, oversized, for optimum thermal management of the LED module.
 Parabolic element with graduated/concentric rings in black polycarbonate.
 Transparent external lens with glossy and satin differentiated surfaces, with a cooling and anti-insect system in methacrylate.
 Internal specular metallic louvre to optimise control of the luminous flux in polycarbonate in Spot, UGR and Elliptical versions.
 Fastening spring clips in stainless steel.

Electrical characteristics

Wiring on a separate unit.
 Class II.

Source characteristics

- Compact LED module.
- Color initial tolerance (MacAdam): SDCM 3.
- Zhaga Book 3 compliant.

On request

- different power levels, colour rendering indices and colour temperatures
- EP maintained emergency wiring, in compliance with EN 60598-2-22
- on/off ballast, compliant with EN 60598-2-22 (high-risk areas excluded)

Accessories

Accessories on page 216.

Applications

Environments: architectural, commercial, exhibition areas, transit areas, corridors, shops, display windows, service areas. In false ceilings with narrow voids.

UGR version

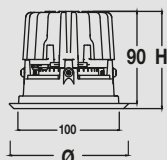
In environments with VDTs, managerial offices and staterooms, public offices and schools.

Light Management

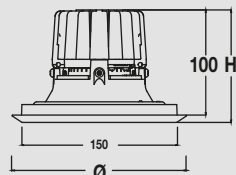
The DALI products of this family can be controlled manually with the technology 3F Easy or even automatically and manually using the 3F Smart Dimming technology (see "Light Management" chapter).

Dimensions

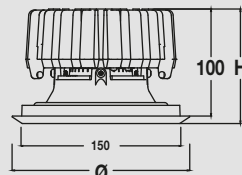
3F Reno 100
2000



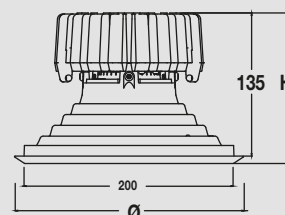
3F Reno 150
2000



3F Reno 150
3000

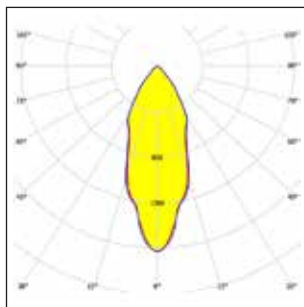










3F Reno 200
2500 - 3000 - 4000



3F Reno Black Spot

Code 31165





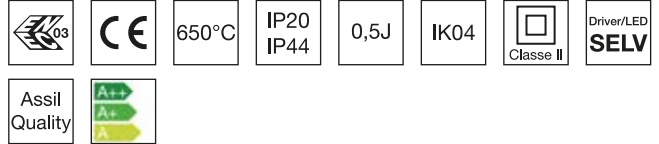
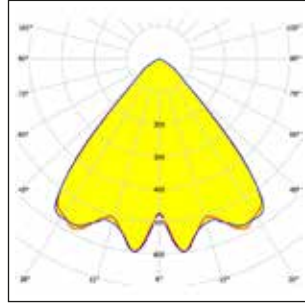

Internal spotlight louvre in metallic polycarbonate.
 External lens in transparent methacrylate.
 Photobiological safety RG1, low risk, in compliance with IEC 62471, IEC/TR 62778 (further information on page 540).

Code	Item	Beam angle	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions ø x H
Electronic wiring 230V-50/60Hz							
30893	3F Reno 100 BK 2000/840 SPOT	37°	20	2372	4000	>80	116x95
30897	3F Reno 100 BK 2000/930 SPOT	37°	23	2218	3000	>90	116x95
31165	3F Reno 150 BK 3000/840 SPOT	37°	28	3162	4000	>80	166x107
31169	3F Reno 150 BK 3000/930 SPOT	37°	37	3089	3000	>90	166x107
31421	3F Reno 200 BK 4000/840 SPOT	37°	35	4141	4000	>80	216x142
31425	3F Reno 200 BK 4000/930 SPOT	37°	42	3719	3000	>90	216x142
DALI electronic wiring 230V-50/60Hz							
30927	3F Reno 100 BK 2000/840 DALI SPOT	37°	20	2372	4000	>80	116x95
30931	3F Reno 100 BK 2000/930 DALI SPOT	37°	23	2218	3000	>90	116x95
31199	3F Reno 150 BK 3000/840 DALI SPOT	37°	28	3162	4000	>80	166x107
31203	3F Reno 150 BK 3000/930 DALI SPOT	37°	37	3089	3000	>90	166x107
31471	3F Reno 200 BK 4000/840 DALI SPOT	37°	35	4141	4000	>80	216x142
31475	3F Reno 200 BK 4000/930 DALI SPOT	37°	42	3719	3000	>90	216x142

Recessed luminaires

3F Reno Black Wide

Code 31233

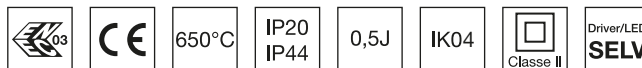
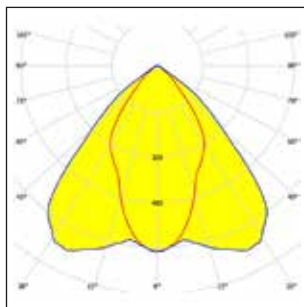


Wide lens in transparent methacrylate.
Photobiological safety RG0 (excluding versions 4000 - RG1), risk exempt, in compliance with IEC 62471, IEC/TR 62778 (further information on page 540).

Code	Item	Beam angle	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions ø x H
Electronic wiring 230V-50/60Hz							
30961	3F Reno 100 BK 2000/840 WIDE	83°	20	1701	4000	>80	116x95
30965	3F Reno 100 BK 2000/930 WIDE	83°	23	1591	3000	>90	116x95
31233	3F Reno 150 BK 3000/840 WIDE	83°	28	2317	4000	>80	166x107
31237	3F Reno 150 BK 3000/930 WIDE	83°	37	2264	3000	>90	166x107
31521	3F Reno 200 BK 4000/840 WIDE	84°	35	2911	4000	>80	216x142
31525	3F Reno 200 BK 4000/930 WIDE	84°	42	2614	3000	>90	216x142
DALI electronic wiring 230V-50/60Hz							
30995	3F Reno 100 BK 2000/840 DALI WIDE	83°	20	1701	4000	>80	116x95
30999	3F Reno 100 BK 2000/930 DALI WIDE	83°	23	1591	3000	>90	116x95
31267	3F Reno 150 BK 3000/840 DALI WIDE	83°	28	2317	4000	>80	166x107
31271	3F Reno 150 BK 3000/930 DALI WIDE	83°	37	2264	3000	>90	166x107
31571	3F Reno 200 BK 4000/840 DALI WIDE	84°	35	2911	4000	>80	216x142
31575	3F Reno 200 BK 4000/930 DALI WIDE	84°	42	2614	3000	>90	216x142

3F Reno Black Elliptical

Code 31345

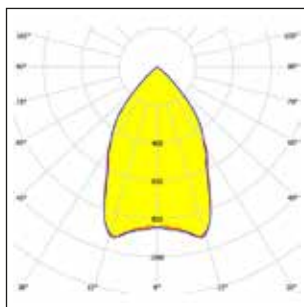


Internal elliptical louvre in metallic polycarbonate.
 External lens in transparent methacrylate.
 Photobiological safety RG1, low risk, in compliance with IEC 62471, IEC/TR 62778 (further information on page 540).

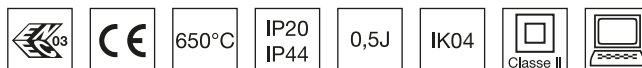
Code	Item	Beam angle	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions ø x H
Electronic wiring 230V-50/60Hz							
31097	3F Reno 100 BK 2000/840 ELL	89° - 62°	20	1915	4000	>80	116x95
31101	3F Reno 100 BK 2000/930 ELL	89° - 62°	23	1790	3000	>90	116x95
31345	3F Reno 150 BK 3000/840 ELL	89° - 61°	28	2587	4000	>80	166x107
31349	3F Reno 150 BK 3000/930 ELL	89° - 61°	37	2527	3000	>90	166x107
31685	3F Reno 200 BK 4000/840 ELL	89° - 62°	35	3240	4000	>80	216x142
31689	3F Reno 200 BK 4000/930 ELL	89° - 62°	42	2909	3000	>90	216x142
DALI electronic wiring 230V-50/60Hz							
31131	3F Reno 100 BK 2000/840 DALI ELL	89° - 62°	20	1915	4000	>80	116x95
31135	3F Reno 100 BK 2000/930 DALI ELL	89° - 62°	23	1790	3000	>90	116x95
31379	3F Reno 150 BK 3000/840 DALI ELL	89° - 61°	28	2587	4000	>80	166x107
31383	3F Reno 150 BK 3000/930 DALI ELL	89° - 61°	37	2527	3000	>90	166x107
31735	3F Reno 200 BK 4000/840 DALI ELL	89° - 62°	35	3240	4000	>80	216x142
31739	3F Reno 200 BK 4000/930 DALI ELL	89° - 62°	42	2909	3000	>90	216x142

3F Reno Black UGR

Code 31610



L<200 cd/m² 65°



150 BK - Average luminance <500 cd/m² for radial angles >65°.
 200 BK - Average luminance <200 cd/m² for radial angles >65°.
 Internal UGR louvre in metallic polycarbonate.
 External lens in transparent methacrylate.
 Photobiological safety RG1, low risk, in compliance with IEC 62471, IEC/TR 62778 (further information on page 540).

Code	Item	Beam angle	Absorbed power (W)	Output flux (lm)	CCT (K)	CRI	Dimensions ø x H
Electronic wiring 230V-50/60Hz							
31293	3F Reno 150 BK 2000/840 UGR	65°	20	2411	4000	>80	166x107
31614	3F Reno 200 BK 2500/930 UGR	64°	27	2509	3000	>90	216x142
31610	3F Reno 200 BK 3000/840 UGR	64°	28	3155	4000	>80	216x142
DALI electronic wiring 230V-50/60Hz							
31315	3F Reno 150 BK 2000/840 DALI UGR	65°	20	2411	4000	>80	166x107
31646	3F Reno 200 BK 2500/930 DALI UGR	64°	27	2509	3000	>90	216x142
31642	3F Reno 200 BK 3000/840 DALI UGR	64°	28	3155	4000	>80	216x142

3F Reno

Accessories



VS moulded glass, micro-prismatic, anti-glare, tempered, non-combustible glass, affixed to the white polycarbonate trim. Accessory suitable for versions with wide distribution.

Accessory compatible with 3F Reno White

Code	Item
A01035	VS 3F RENO WH 150
A01037	VS 3F RENO WH 200

1J

IK06



VS moulded glass, micro-prismatic, anti-glare, tempered, non-combustible glass, affixed to the black polycarbonate trim. Accessory suitable for versions with wide distribution.

Accessory compatible with 3F Reno Black

Code	Item
A01036	VS 3F RENO BK 150
A01038	VS 3F RENO BK 200

1J

IK06



VT transparent glass, tempered, not flammable, locked and in line with the trim, in white polycarbonate. Accessory suitable for versions with spot, UGR and elliptic distribution.

Accessory compatible with 3F Reno White

Code	Item
A01023 ^{NEW}	VT 3F RENO WH 150
A01025 ^{NEW}	VT 3F RENO WH 200

1J

IK06



VT transparent glass, tempered, not flammable, locked and in line with the trim, in black polycarbonate. Accessory suitable for versions with spot, UGR and elliptic distribution.

Accessory compatible with 3F Reno Black

Code	Item
A01024 ^{NEW}	VT 3F RENO BK 150
A01026 ^{NEW}	VT 3F RENO BK 200

1J

IK06



Micro-prismatic SMP antiglare diffuser in PMMA, locked and in line with the trim, in white polycarbonate. Accessory suitable for versions with wide distribution.

Accessory compatible with 3F Reno White

Code	Item
A01046	SMP 3F RENO WH 150
A01048	SMP 3F RENO WH 200

0,7J

IK05



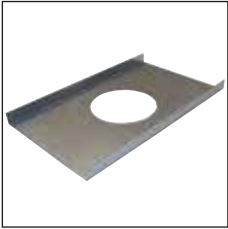
Micro-prismatic SMP ant glare diffuser in PMMA, locked and in line with the trim, in black polycarbonate. Accessory suitable for versions with wide distribution.

Accessory compatible with 3F Reno Black

Code	Item
A01047	SMP 3F RENO BK 150
A01049	SMP 3F RENO BK 200

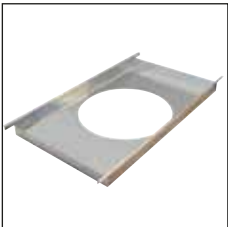
0,7J

IK05



Reinforcing bracket for panels 600x600, 600x1200 with exposed structure, in hot-galvanized steel.

Code	Item
A0804	SF 3F Reno 150
A0805	SF 3F Reno 200



Reinforcing bracket for metal panels 600x600 with concealed structure, in hot-galvanized steel.

Code	Item
A0806	SM 3F Reno 150
A0807	SM 3F Reno 200