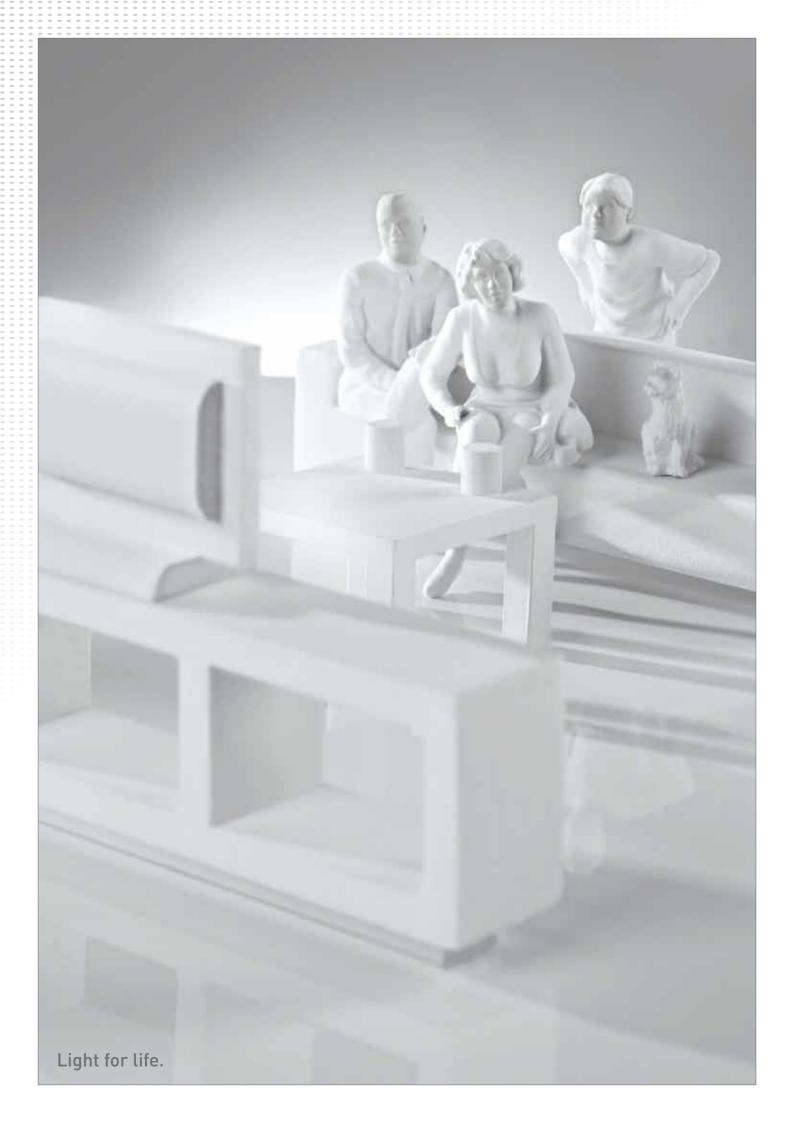


LED





Connecting element for LED STARboards

Prerequisites...

- Compatible with LED Starboards, e.g. made by CREE, Edison, NICHIA, OSRAM, Philips, Lumileds and Seoul Semiconductor
- Solder less contact making, no life-span reducing thermal stress
- Easy interchangeability of components
- Easy adaption of optical systems (clip fixing instead of glue fixing)
- Exact positioning of the Lamp on LED
- Compatible with light control systems, e.g. Carclo optics or Jordan reflectors



Way ahead clear for LED. With the new connectors for STARboard.

LEDs increasingly present the lighting and domestic appliance industry with new challenges. Key considerations here are the selection of suitable light sources and their positioning and fixing within the light fitting. Other barriers to the use of LEDs are the questions of contacting and heat management. The possibility of replacement in case of failure is still largely unresolved, as is the simple use of suitable optics for light direction and bundling.

Some high-intensity LEDs offered today come with an emitter mounted on a "STARboard". The "STARboard" is fixed by screws. However, contact is by means of conductors which are soldered on, so that, in case of repair, the LED can only be replaced by a specialist!





No soldering of wires! No adhesives for optical systems! With connection guarantee!

With our attachment and connectors, LED STARboards from many manufacturers can be connected and fitted with optical systems without the need for soldering or gluing.

Many light fitting manufacturers are demanding a connector which will eliminate these difficulties. BJB has therefore developed a system for LED STARboards which greatly simplifies the use of LEDs in light fittings.



The connectors (version depends on the planned LED) and the STARboard are both fixed with two screws. Electrical contact is by means of two pushwire terminals. The optic holder is clipped onto the connector, and the optical system itself clips into this. The complete assembly process takes place without any soldering or gluing.







∧ carclo technical plastics www.carclo-optics.com



DISON

www.edison-opto.com.tw

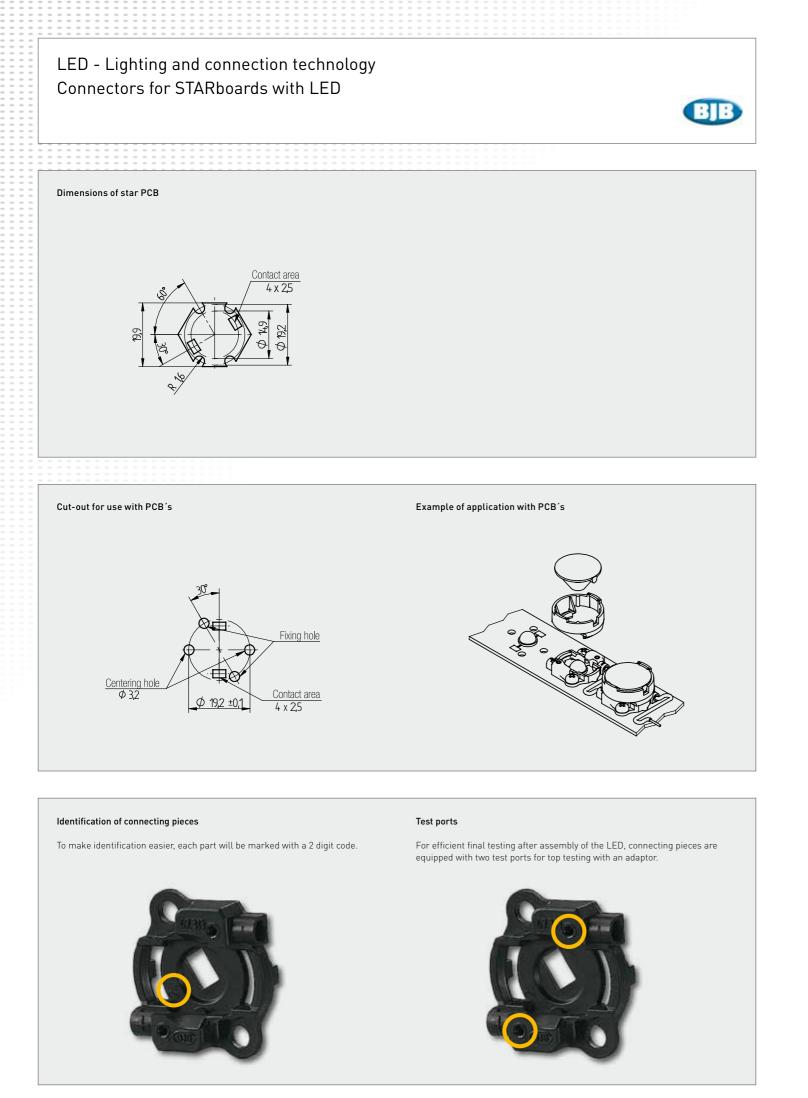
www.seoulsemicon.com

SEOUL







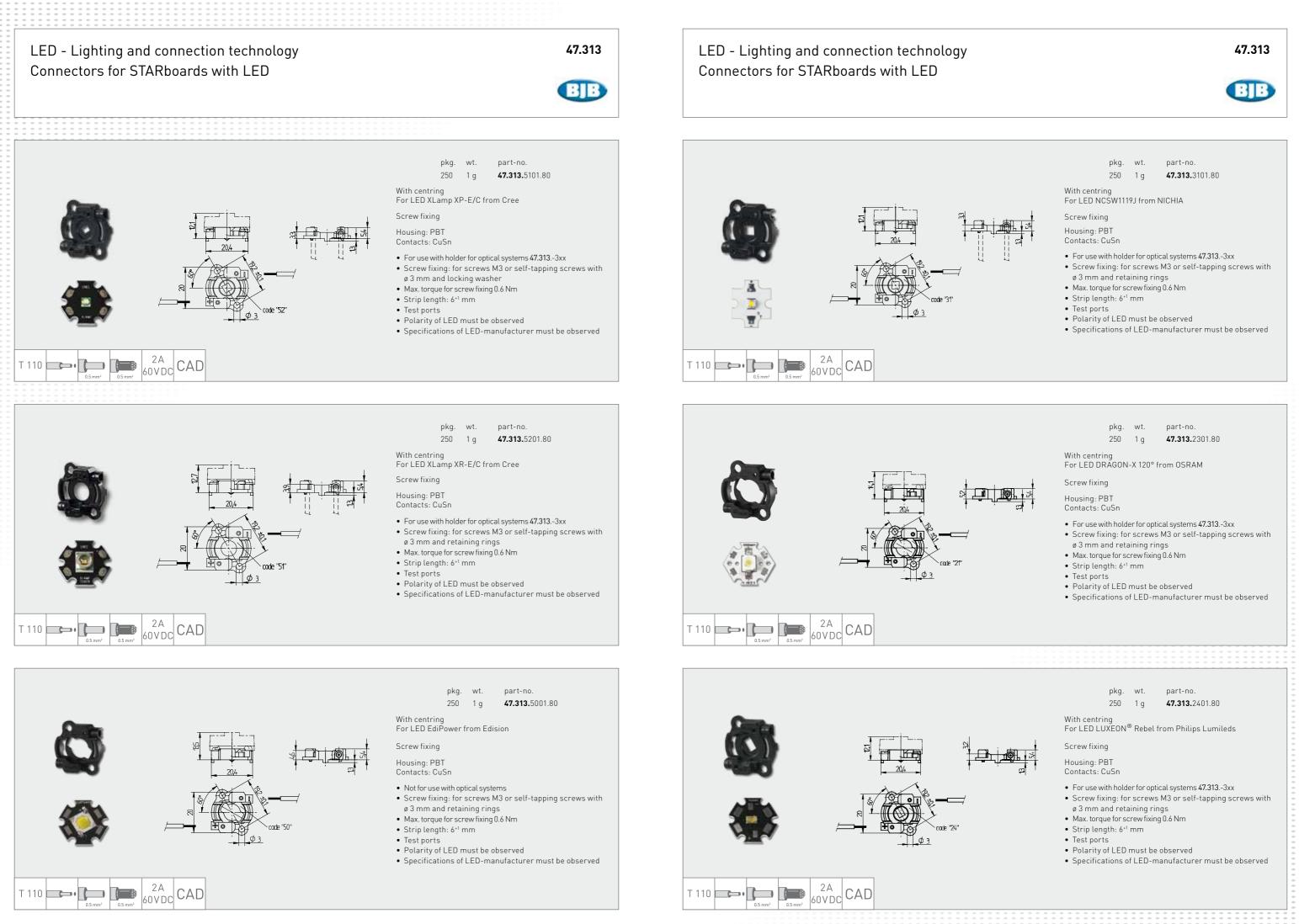


LED - Lighting and connection technology Connectors for STARboards with LED

Cree XLamp XE-E/C	Edison EdiPower	NICHIA NCSW119J
4 <u>8</u> 7	*	
47.313. 5201.80	47.313. 1000.80	47.313. 3101.80
9	Q	
47.313. -320	Due to a wide area of illumination an application of lenses with ø 20 mm is not possible.	47.313. -320
Carclo Optics ø 20 mm Plain Tight, 8.4° No. 10199		Carclo Optics ø 20 mm Plain Tight, 8.2° No. 10193
ø 20 mm Frosted Tight, 10° No. 10200		ø 20 mm Frosted Tight, 10.4° No. 10194
ø 20 mm Frosted Medium, 20° No. 10201		ø 20 mm Frosted Medium, 20° No. 10195
ø 20 mm Frosted Wide, 36° No. 10202		ø 20 mm Frosted Wide, 31.5° No. 10196
ø 20 mm Elliptical, 41 x 10° No. 10203		ø 20 mm Elliptical, 41 x 10° No. 10197
Seoul Semiconductor	Philips Lumileds	Philips Lumileds
Z-Power P4	LUXEON® Rebel *	LUXEON® Rebel
47.313. 5001.80	47.313. 2401.80	47.313. 2401.80
Q	O	2
47.313. -320	47.313. -320	47.313. -320
3	3	0
Carclo Optics ø 20 mm Plain Tight, 9.5° No. 10003	Carclo Optics ø 20 mm Plain Tight, 8.7° No. 10193	Jordan Reflectors Reflector Rebel Spot Mirror finished surface 8° No. 112752010105
ø 20 mm Frosted Narrow, 15.4° No. 10138	ø 20 mm Frosted Narrow, 12° No. 10194	Jordan Reflectors Reflector Rebel Medium Sand blasted surface 20° No. 112755010105
ø 20 mm Frosted Medium, 23.8° No. 10139	ø 20 mm Frosted Medium, 19° No. 10195	
ø 20 mm Frosted Wide, 31.8° No. 10140R2	ø 20 mm Frosted Wide, 35° No. 10196	
ø 20 mm Elliptical, 44 x 15°	ø 20 mm Elliptical, 45 x 9.5°	
	XLamp XE-E/C 47.313.5201.80 47.313.5201.80 47.313320 20 20 mm Plain Tight, 8.4° No. 10199 Ø 20 mm Frosted Tight, 10° No. 10200 Ø 20 mm Frosted Tight, 10° No. 10201 Ø 20 mm Frosted Wide, 36° No. 10202 Ø 20 mm Frosted Wide, 36° No. 10202 Ø 20 mm Frosted Wide, 36° No. 10202 Ø 20 mm Etliptical, 41 x 10° No. 10202 Ø 20 mm Etliptical, 41 x 10° No. 10203 Ø 20 mm Etliptical, 41 x 10° No. 10203 Ø 20 mm Etliptical, 41 x 10° No. 10203 Ø 20 mm Plain Tight, 9.5° No. 10003 Ø 20 mm Plain Tight, 9.5° No. 10138 Ø 20 mm <th< td=""><td>XLamp XE-E/C EdiPower 47.313.5201.80 47.313.1000.80 47.313.5201.80 47.313.1000.80 47.313.520. Due to a wide area of illumination an application of lenses with a 20 mm is not possible. 520 mm 20 mm Plain Tight, 8.4° No. 10197 8.20 mm Frosted Tight, 10° 8.20 mm Frosted Medium, 20° 8.20 mm Frosted Mide, 33° 9.20 mm Frosted Mide, 33° No. 10202 Secoul Semiconductor 2.10 mm Frosted Mide, 33° No. 10202 Frosted Mide, 33° No. 10202 Frosted Mide, 33° Secoul Semiconductor Philips Lumiled's 2.10 mm Frosted Mide, 33° No. 10202 Frosted Mide, 33° Secoul Semiconductor Frosted Mide, 33° 2.20 mm Frosted Mide, 33° Secoul Semiconductor Frosted Narrow, 12° Secoul Semiconductor Frosted Narrow, 12°</td></th<>	XLamp XE-E/C EdiPower 47.313.5201.80 47.313.1000.80 47.313.5201.80 47.313.1000.80 47.313.520. Due to a wide area of illumination an application of lenses with a 20 mm is not possible. 520 mm 20 mm Plain Tight, 8.4° No. 10197 8.20 mm Frosted Tight, 10° 8.20 mm Frosted Medium, 20° 8.20 mm Frosted Mide, 33° 9.20 mm Frosted Mide, 33° No. 10202 Secoul Semiconductor 2.10 mm Frosted Mide, 33° No. 10202 Frosted Mide, 33° No. 10202 Frosted Mide, 33° Secoul Semiconductor Philips Lumiled's 2.10 mm Frosted Mide, 33° No. 10202 Frosted Mide, 33° Secoul Semiconductor Frosted Mide, 33° 2.20 mm Frosted Mide, 33° Secoul Semiconductor Frosted Narrow, 12° Secoul Semiconductor Frosted Narrow, 12°

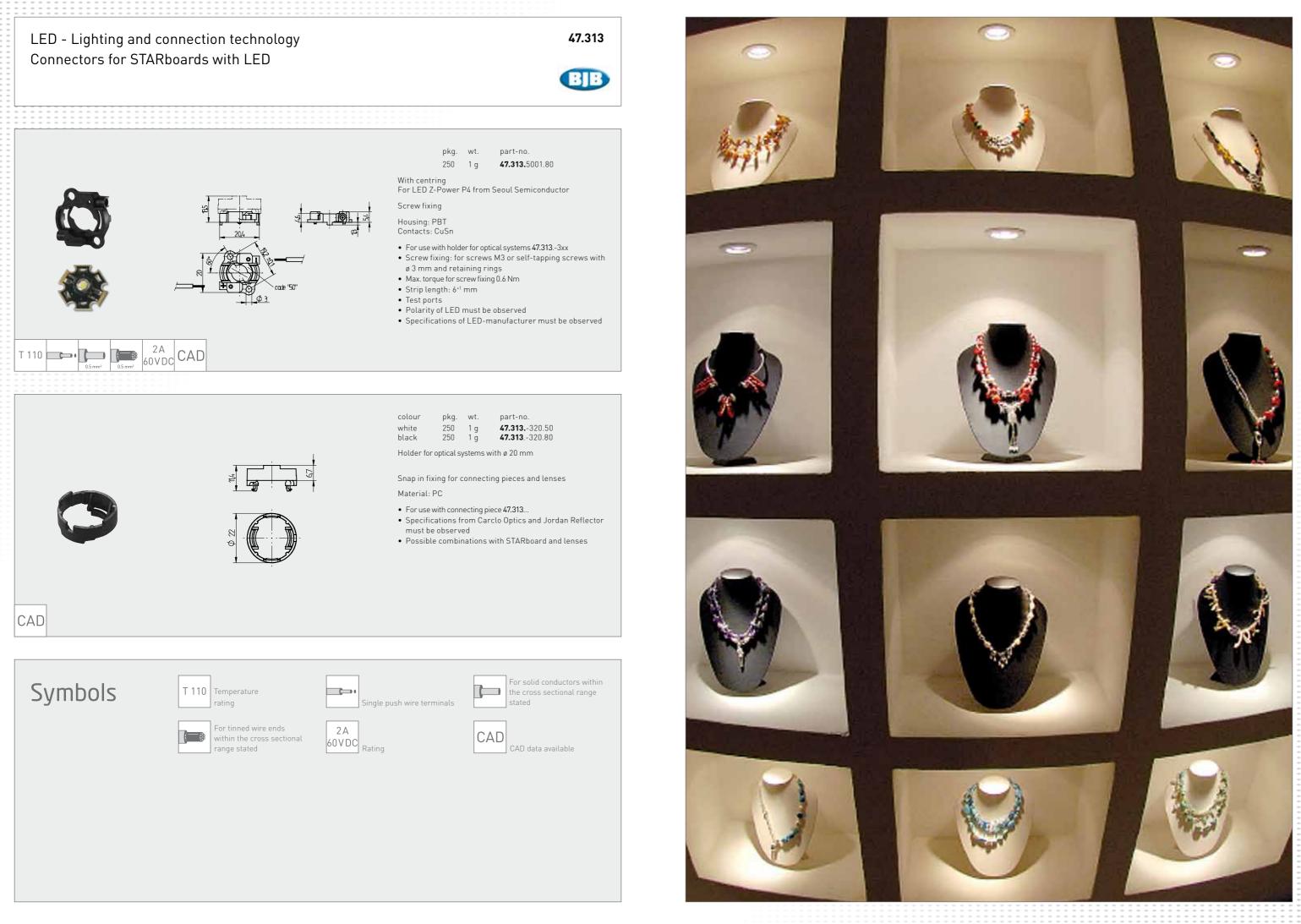
Cree XLamp XP-E/C	Cree XLamp XE-E/C	Edison EdiPower	NICHIA NCSW119J
47.313. 5101.80	47.313. 5201.80	47.313. 1000.80	47.313. 3101.80
	0	Q	
47.313. -320	47.313. -320	Due to a wide area of illumination an application of lenses with ø 20 mm is not possible.	47.313. -320
Carclo Optics 9 20 mm Plain Tight, 8.2° No. 10193	Carclo Optics ø 20 mm Plain Tight, 8.4° No. 10199		Carclo Optics ø 20 mm Plain Tight, 8.2° No. 10193
ø 20 mm Frosted Tight, 10.4° No. 10194	ø 20 mm Frosted Tight, 10° No. 10200		ø 20 mm Frosted Tight, 10.4° No. 10194
ø 20 mm Frosted Medium, 17.9° No. 10195	ø 20 mm Frosted Medium, 20° No. 10201		ø 20 mm Frosted Medium, 20° No. 10195
ø 20 mm Frosted Wide, 36° No. 10196	ø 20 mm Frosted Wide, 36° No. 10202		ø 20 mm Frosted Wide, 31.5° No. 10196
9 20 mm Elliptical, 41 x 10° No. 10197	ø 20 mm Elliptical, 41 x 10° No. 10203		ø 20 mm Elliptical, 41 x 10° No. 10197
OSRAM	Seoul Semiconductor	Philips Lumileds	Philips Lumileds
DRAGON-X120°	Z-Power P4	LUXEON® Rebel *	LUXEON® Rebel
47.313. 1101.80	47.313. 5001.80	47.313. 2401.80	47.313. 2401.80
\$	Q	O	S
47.313. -320	47.313. -320	47.313. -320	47.313. -320
9	0	0	0
Carclo Optics ≱ 20 mm Plain Tight, 5.4° No. 10193	Carclo Optics ø 20 mm Plain Tight, 9.5° No. 10003	Carclo Optics ø 20 mm Plain Tight, 8.7° No. 10193	Jordan Reflectors Reflector Rebel Spot Mirror finished surface 8° No. 112752010105
ø 20 mm Frosted Narrow, 10° No. 10194	ø 20 mm Frosted Narrow, 15.4° No. 10138	ø 20 mm Frosted Narrow, 12° No. 10194	Jordan Reflectors Reflector Rebel Medium Sand blasted surface 20° No. 112755010105
	ø 20 mm	ø 20 mm Frosted Medium, 19°	
ø 20 mm Frosted Medium, 19° No. 10195	Frosted Medium, 23.8° No. 10139	No. 10195	
Frosted Medium, 19°	Frosted Medium, 23.8°		

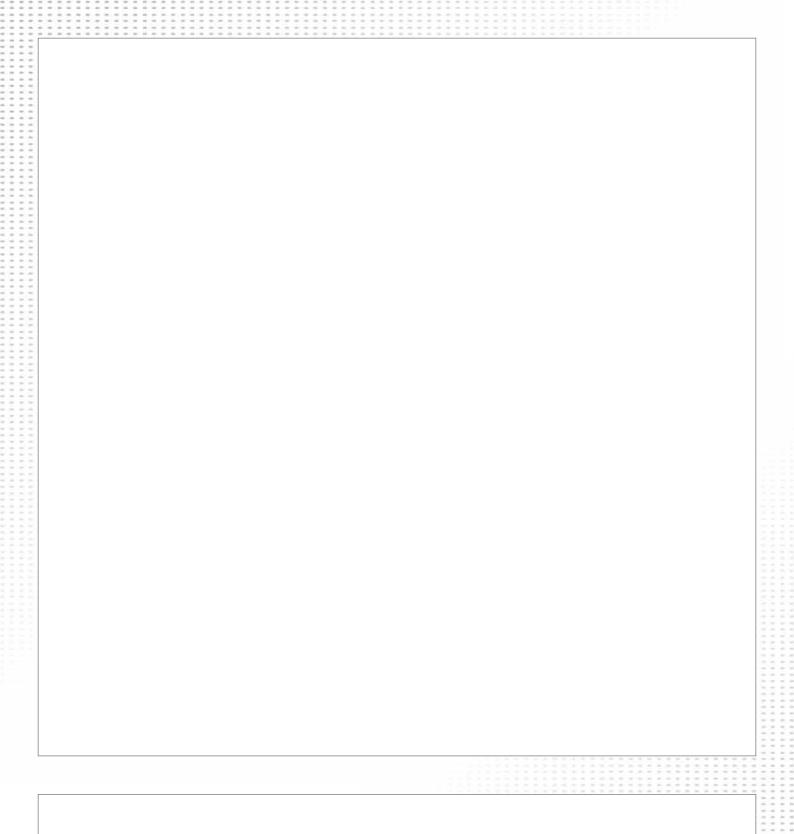














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