














P4 Lens Suppliers	Fraen	Carclo	Polymer Optic	Gaggione
Concentrator			✓ 14.9mm	✓
7 Cell Concentrator			✓ no overall dim.	
Beam Angle 6 Degree Narrow	✓ 27mm (FSG)	✓ 26.5mm, 10048, 6.95 deg	✓ 14.9mm	✓ 32mm
Beam Angle 6 Degree, 7 Cell Narrow			✓ no overall dim.	
Beam Angle 10 Degree Narrow	✓ 19.7mm (FSP)	✓ 26.5mm, 10124, 11.6 deg		
Beam Angle 10 Degree Narrow, Triple				✓ 14 deg viewing angle 16mm
Beam Angle 20 Degree Narrow		✓ Frosted Narrow 15.4deg 20mm, 10138		✓ 16mm
Beam Angle Medium 20 Degree		✓ 26.5mm, 10108, 22.4 deg		
Beam Angle 24 Degree Narrow	✓ 19.7mm (FSP) & 27mm(FSG)			
Beam Angle Elliptical				
Beam Angle Medium 25 Degree		✓ Frosted Med 23.8deg 20mm, 10139	✓ 14.9mm	
Beam Angle Medium 27 Degree		✓ Ripple Med 27.3deg 20mm, 10003/15		
Beam Angle 25 Degree 7 Cell Medium			✓ no overall dim.	
Beam Angle Medium 30 Degree		✓ 26.5mm, 10260, 33.1 deg		
Beam Angle Wide 30 Degree		✓ 31.8 deg 20mm, 10140		
Beam Angle Medium 35 Degree	✓ 37deg 27mm(FSG)	✓ Frosted Wide 33.1deg 26.5, 10260		✓ 34deg viewing angle 16mm
Beam Angle Wide 38 Degree	✓ 19.7mm (FSP)			
Beam Angle Wide 45 Degree		✓ Ripple Wide 41.4deg 20mm, 10003/25		✓ 50deg viewing angle 16mm
Reflector 80 Degree		✓ Reflector 80.9deg 20mm, 10170		✓ 16mm fibre optic lens
Beam Angle Elliptical	✓ 12 x 4719.7mm (FSP), 14 x 32 (FSG) 27mm	✓ Elliptical 43.8x9.1deg, 26.5mm, 10049 ✓ Elliptical 44x15deg 20mm, 10003/L25 ✓ Elliptical Ramp 45x8.3deg 26.5mm, 10234 ✓ Elliptical 42.2x13.6deg 26.5mm, 10049 ✓ Elliptical Orthogona l 14x49deg 20mm, 10192	✓ 14.9mm	✓ 16mm
Orthogonal		✓ Orthogonal 10.2x47.6deg 26.5mm, 10224		

P5 ii	Fraen	Carclo	Gaggione
Beam Angle Narrow 6 Degree Triple	 50mm(FS3)		 16mm, LLC04N
Beam Angle Narrow 12 Degree	 17deg, 34.8mm(FCM)	 Medium 17.4deg 20mm, 10194	
Beam Angle Medium 25 Degree	 22.5deg, 30.5mm(FSG)	 Medium 24.3deg 20mm, 10195	
Beam Angle Medium 30 Degree	 30.5mm (FSG)		
Beam Angle Medium 32 Degree	 34.8mm		
Beam Angle Wide 40 Degree	 34.8mm	 Wide 36.1deg 20mm, 10196	
Beam Angle Elliptical 10 x 30 Degree	 Release April 09		

Acriche A2	Carclo		
Beam Angle Medium 20 Degree	 Medium 20.7deg 20 mm 10208 20mm 10193		
	 Medium 22.6deg 20mm, 10194		
Beam Angle Medium 25 Degree	 Medium 27.7deg 20mm, 10195 20mm, 10193		
Beam Angle Wide 35 Degree	 Wide 35.5deg 20mm, 10196		
Beam Angle Wide 40 Degree	 Wide 41.3deg 20mm, 10209		
Frosted Tight	 Frosted Tight 16.1deg 26.5mm, 10391		
Frosted Narrow	 Frosted Narrow 18deg 26.5mm, 10392		
Frosted Medium	 Frosted Medium 25.8deg 26.5mm, 10393		
Frosted Wide	 Frosted Wide 29deg 26.5mm, 10394		
Elliptical	 Elliptical 45.1x20.6deg 20mm, 10197	 Elliptical 45x.16.5 26.5mm, 10395	
	 Elliptical Orthogonal 45x20.5deg 20mm, 10198	 Elliptical Orthogonal 16.5x45 26.5mm, 10396	

Acriche A3 and P7		Fraen	Carclo	Gaggione
Beam Angle Narrow 10 Deg				✓ A3 10deg, P7 7.6 32mm, LLC05N. P7 6.3deg 32MM, LLC08N
Beam Angle 15 Deg	✓	Narrow 15deg 35mm FRC		✓ A3 11deg, P7 10.4 32mm, LLC05M
Beam Angle 30 Degree	✓	Medium Polished 29deg 35mm FRC		✓
Beam Angle 35 Degree	✓	Medium 36deg 35mm FRC		
Plain spot lense			✓ 30mm A3 = 7.9deg. P7=12.7deg, 10754	✓ A3 15.5deg, P7 13.3 32mm, LLC05W
NEW Z Series Z1		Carclo	Gaggione	
Plain tight 11.2 deg	✓	26.5, 10048		
Beam Angle Narrow 15 Degree	✓	Narrow 11.2deg 26.5mm, 10048 Narrow 16.2deg 26.5mm, 10124	✓ 2.4deg 16mm, LLC05N, 5.7deg 16mm, LLC02N	
Beam Angle Medium 25 Degree	✓	Med 25.9deg 26.5mm, 10108	✓ 10.2deg 16mm, LLC02M	
Beam Angle Wide 40 Degree	✓	Wide 42.9deg 26.5mm, 10260 Wide 43.4deg 20mm, 10140		
Elliptical	✓	Elliptical 42.2x15.1deg 26.5mm, 10049	✓ 8.1x15.3deg 16mm, LLC02E	
Elliptical	✓	Elliptical 43.9x20.2deg 20mm, 10003/L25		
Elliptical	✓	Elliptical Orthogonal 47.1x17.1.6deg 26.5mm, 10224		
Elliptical	✓	Elliptical Orthogonal 46x22.3deg 20mm, 10192		
Elliptical	✓	Elliptical Ramp 44.3x15deg 26.5mm, 10234		
Ripple Med 29.1deg	✓	20mm, 10003/15		
Ripple Wide 37.9deg	✓	20mm, 10003/25		
Frosted Narrow 21.3deg	✓	20mm, 10138		
Frosted Med 27.7deg	✓	20mm, 10139		
Frosted Wide 42.9deg	✓	26.5, 10260		

NEW Z Series Z5		Carclo	
Plain tight 6.4 deg	 26.5, 10048		
Elliptical Ramp 46.5x6.6deg	 26.5mm, 10234		
Elliptical 44.4x7deg	 26.5mm, 10049		
Elliptical 45.6x10.3deg	 20mm, 10003/L25		
Frosted Narrow 12.3deg	 20mm, 10138		
Frosted Narrow 15.8deg	 10mm, 10417		
Plain Tight 16.1deg	 10mm, 10412		
Elliptical 44.5 x 16.2deg	 10mm, 10415		
Frosted Med 20.7deg	 20mm, 10139		
Ripple Med 23.9deg	 20mm, 10003/15		
Frosted Med 26deg	 10mm, 10413		
Wide 26.4deg	 20mm, 10140		
Frosted Wide 33.8deg	 26.5, 10260		
Ripple Wide 36.8deg	 20mm, 10003/25		
Frosted Wide 37.2deg	 10mm, 10414		
Elliptical Orthogonal 8.5 x 48.3deg	 20mm, 10192		
Quad Optic Spot 20.7deg	 20mm, 10139		
Ripple Med 23.9deg	 20mm, 10003/15		
Frosted Med 26deg	 10mm, 10413		
Wide 26.4deg	 20mm, 10140		
Frosted Wide 33.8deg	 26.5, 10260		
Ripple Wide 36.8deg	 20mm, 10003/25		
Frosted Wide 37.2deg	 10mm, 10414		
Elliptical Orthogonal 8.5 x 48.3deg	 20mm, 10192		

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NEW Z Series Z5		Carclo	
Triple Lens Frosted Narrow 19.2 deg	 10mm, 10511		
Triple Lens Frosted Medium 25.2 deg	 10mm, 10508		
Triple Lens Frosted Wide 42.8 deg	 10mm, 10509		
Triple Lens Frosted Elliptical 43.6 x 17 deg	 10mm, 10510		
Triple Lens Front Narrow 15.1 deg	 10mm, 10507		