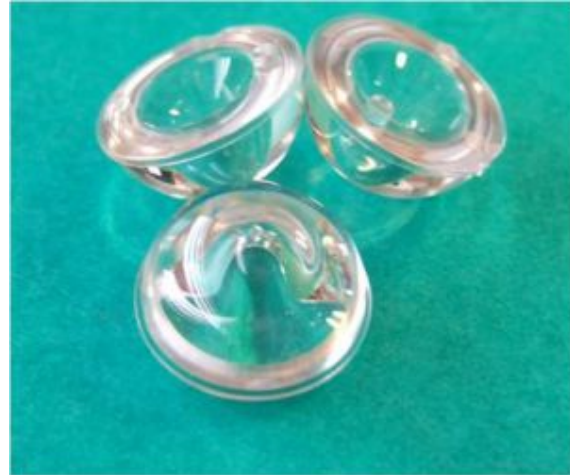


20.0MM BUBBLE 120 BUBBLE

Status Production
Part no. 10403
Drawing no. 60521
Type Bubble
Pieces 1
Diameter 20.0
Beam Bubble 120
Flange No
Files Customer drawing (PDF)
 Customer 3D model (.igs)



LEDs & Performances	Eff.	FWHM	Cd/lm	Spot	Cross-section	Files
Lumileds Rebel Cool White	94.0%	120	0.1			10403_120deg_bubbleOptic_rebel_14-12-2009.IES
Cree XP-E XLamp® White	94.0%	120	0.1			10403_120deg_bubbleOptic_cree-xpe_14-12-2009.IES
Lumileds ES Rebel Cool White	93.6%	120	0.7			_10403_2 120 deg bubble _ ES _Lu22_I0_P0_X0_Y0.ies
Cree XP-G XLamp® White	93.3%	120	0.7			_10403 120 deg bubble _ XP-G _Cr05_I0_P0_X0_Y0.ies

R1 IN 6 POSNS.

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Handling instructions

- Do not handle or install lenses without wearing gloves, skin oils may damage the lens or the light transmission.
- Clean lenses with a mild soap and water and dry with a clean soft cloth.
- Do not use any commercial solvents on lenses.
- Mount holders with low Odour epoxy's and allow time for them to out gas to stop lenses fogging.

Please note that flow lines, weld lines, surface scratches and small black or white inclusions within the lenses are acceptable if the optical performance of the lens is within the specification described to +/-10%. FWHM-Full (beam) Width as measured at one Half of Maximum intensity, information shown in the catalogue are based on our laboratory's tests.

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