

63.5mm Clear Aperture, 5 Arcsec, Aluminum Retroreflector



Stock **#46-178** 1 In Stock

-

1

+

£1,112^{.00}

ADD TO CART

Volume Pricing	
Qty 1-9	£1,112.00 each
Qty 10-24	£1,000.80 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads	
General	
Retroreflector	Type:
Physical & Mechanical Properties	
63.5	Clear Aperture CA (mm):
89.40	Diameter (mm):

± 1.6

Optical Properties	
Refractive Index	1.5
Transmittance (%)	95
Absorbance (nm)	250-350
Fluorescence (nm)	380-450
Photoluminescence (nm)	480-550
UV-Vis Absorption (nm)	200-300
Photoluminescence (nm)	350-450
Photoluminescence (nm)	500-600
Photoluminescence (nm)	650-750
Photoluminescence (nm)	800-900
Photoluminescence (nm)	950-1050
Photoluminescence (nm)	1100-1200
Photoluminescence (nm)	1250-1350
Photoluminescence (nm)	1400-1500
Photoluminescence (nm)	1550-1650
Photoluminescence (nm)	1700-1800
Photoluminescence (nm)	1850-1950
Photoluminescence (nm)	2000-2100
Photoluminescence (nm)	2150-2250
Photoluminescence (nm)	2300-2400
Photoluminescence (nm)	2450-2550
Photoluminescence (nm)	2600-2700
Photoluminescence (nm)	2750-2850
Photoluminescence (nm)	2900-3000
Photoluminescence (nm)	3050-3150
Photoluminescence (nm)	3200-3300
Photoluminescence (nm)	3350-3450
Photoluminescence (nm)	3500-3600
Photoluminescence (nm)	3650-3750
Photoluminescence (nm)	3800-3900
Photoluminescence (nm)	3950-4050
Photoluminescence (nm)	4100-4200
Photoluminescence (nm)	4250-4350
Photoluminescence (nm)	4400-4500
Photoluminescence (nm)	4550-4650
Photoluminescence (nm)	4700-4800
Photoluminescence (nm)	4850-4950
Photoluminescence (nm)	5000-5100
Photoluminescence (nm)	5150-5250
Photoluminescence (nm)	5300-5400
Photoluminescence (nm)	5450-5550
Photoluminescence (nm)	5600-5700
Photoluminescence (nm)	5750-5850
Photoluminescence (nm)	5900-6000
Photoluminescence (nm)	6050-6150
Photoluminescence (nm)	6200-6300
Photoluminescence (nm)	6350-6450
Photoluminescence (nm)	6500-6600
Photoluminescence (nm)	6650-6750
Photoluminescence (nm)	6800-6900
Photoluminescence (nm)	6950-7050
Photoluminescence (nm)	7100-7200
Photoluminescence (nm)	7250-7350
Photoluminescence (nm)	7400-7500
Photoluminescence (nm)	7550-7650
Photoluminescence (nm)	7700-7800
Photoluminescence (nm)	7850-7950
Photoluminescence (nm)	8000-8100
Photoluminescence (nm)	8150-8250
Photoluminescence (nm)	8300-8400
Photoluminescence (nm)	8450-8550
Photoluminescence (nm)	8600-8700
Photoluminescence (nm)	8750-8850
Photoluminescence (nm)	8900-9000
Photoluminescence (nm)	9050-9150
Photoluminescence (nm)	9200-9300
Photoluminescence (nm)	9350-9450
Photoluminescence (nm)	9500-9600
Photoluminescence (nm)	9650-9750
Photoluminescence (nm)	9800-9900
Photoluminescence (nm)	9950-10050
Photoluminescence (nm)	10100-10200
Photoluminescence (nm)	10250-10350
Photoluminescence (nm)	10400-10500
Photoluminescence (nm)	10550-10650
Photoluminescence (nm)	10700-10800
Photoluminescence (nm)	10850-10950
Photoluminescence (nm)	11000-11100
Photoluminescence (nm)	11150-11250
Photoluminescence (nm)	11300-11400
Photoluminescence (nm)	11450-11550
Photoluminescence (nm)	11600-11700
Photoluminescence (nm)	11750-11850
Photoluminescence (nm)	11900-12000
Photoluminescence (nm)	12050-12150
Photoluminescence (nm)	12200-12300
Photoluminescence (nm)	12350-12450
Photoluminescence (nm)	12500-12600
Photoluminescence (nm)	12650-12750
Photoluminescence (nm)	12800-12900
Photoluminescence (nm)	12950-13050
Photoluminescence (nm)	13100-13200
Photoluminescence (nm)	13250-13350
Photoluminescence (nm)	13400-13500
Photoluminescence (nm)	13550-13650
Photoluminescence (nm)	13700-13800
Photoluminescence (nm)	13850-13950
Photoluminescence (nm)	14000-14100
Photoluminescence (nm)	14150-14250
Photoluminescence (nm)	14300-14400
Photoluminescence (nm)	14450-14550
Photoluminescence (nm)	14600-14700
Photoluminescence (nm)	14750-14850
Photoluminescence (nm)	14900-15000
Photoluminescence (nm)	15050-15150
Photoluminescence (nm)	15200-15300
Photoluminescence (nm)	15350-15450
Photoluminescence (nm)	15500-15600
Photoluminescence (nm)	15650-15750
Photoluminescence (nm)	15800-15900
Photoluminescence (nm)	15950-16050
Photoluminescence (nm)	16100-16200
Photoluminescence (nm)	16250-16350
Photoluminescence (nm)	16400-16500
Photoluminescence (nm)	16550-16650
Photoluminescence (nm)	16700-16800
Photoluminescence (nm)	16850-16950
Photoluminescence (nm)	17000-1

5.00

Enhanced Aluminum (450-650nm)

 1.5λ

BOROFLOAT®

80-50

Left-Handed

180

400 - 700

Threading & Mounting

(6) 1/4-20, (5) M6 x 1.0

Regulatory Compliance

Compliant

Compliant

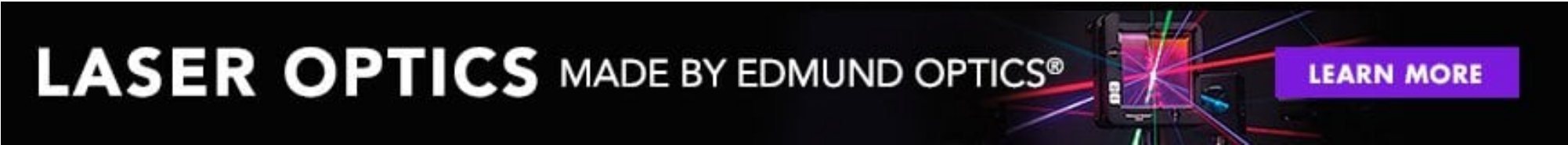
View

Product Details

- Incident Light is Reflected Back to the Source
- Hollow Lightweight Design
- No Material Absorption or Chromatic Aberration

Hollow Retroreflectors are constructed of three first surface mirrors assembled into a corner cube. This produces a lightweight "hollow corner cube" that is totally insensitive to position and movement. The result is that parallel incident light is reflected back to the source with great accuracy, regardless of the angle of incidence. Since the optical path is in air, this configuration eliminates material absorption and chromatic aberrations present in solid glass prism-type retroreflectors. The larger housings feature a variety of mounting holes on the back plate.

The specified beam deviation value of each Hollow Retroreflector is the maximum deviation from parallelism of any single return beam from any of the six sub-apertures, when the retroreflector is fully illuminated. Exiting wavefront is the resultant peak-to-valley wavefront deformation from a fully illuminated retroreflector, which is listed in factors of λ (where $\lambda = 633\text{nm}$). The unique, patented cushion mounting makes these Hollow Retroreflectors extremely resistant to shock.



Technical Information

Clear Aperture (CA)	Diameter	L1	L2	A	B	C
6.4mm	8.1mm	8.1mm *	—	—	—	—
12.7mm	14.6mm	19.1mm *	—	—	—	M3 x 0.5
25.4mm	41.3mm	36.5mm	49.2mm	44.5mm	50.8mm	1/4-20
50.8mm	76.2mm	62.0mm	79.5mm	78.7mm	94.2mm	1/4-20 **
63.5mm	89.4mm	61.5mm	79.0mm	92.3mm	101.6mm	1/4-20 **
127.0mm	166.7mm	125.5mm	150.8mm	171.5mm	221.9mm	1/4-20 **

Hollow Retroreflectors

The technical drawings illustrate the dimensions and features of the hollow retroreflectors. The left drawing is a side view showing a square cross-section with a central yellow retroreflector. Dimensions include Dia. CA, L1, L2, and 1/4-20 Mtg. Hole. The right drawing is a top view showing a square with four mounting holes (indicated by '+' signs) and a central circular area with three yellow retroreflectors. Dimensions include A and 4-Thru Holes, 7.4mm Dia. on 'B' Dia. B.C.

*Does not have back plate
**Additional 8 mounting holes on 50.8mm and larger Dia: (4) M6 x 1.0 at 90° and (4) 1/4-20 at 90° on 2" Bolt Circle

Coating Curves

;
;

**Additional 8 mounting holes on 50.8mm and larger Dia: (4) M6 x 1.0 at 90° and (4) 1/4-20 at 90° on 2" Bolt Circle