

Welcome

COPPER LASER MIRRORS

High-energy lasers require the best **laser mirrors** available. Copper **laser optics** by **SPAWR Industries** offer the highest quality and surface damage threshold available for medium and long wavelength infrared laser beams.

We offer a repolishing service for your *metal mirrors*.

[**FREE Laser Metal Mirror Selection Guide CLICK HERE**](#)



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Specifications

Description	Laboratory Grade	Industrial Grade
Reflectivity	99% @ 10.6 μ	99% @ 10.6 μ
Surface Accuracy	λ/20	λ/10
Surface Smoothness	30Å RMS	45Å RMS
Scratch/Dig	20/10	60/40
Damage Threshold ⁽¹⁾	$>2.5 \times 10^5 \text{ J/cm}^2 \sqrt{\frac{1}{s}}$	$10^5 \text{ J/cm}^2 \sqrt{\frac{1}{s}}$
Material	High Purity Copper	High Purity Copper
Flatness or Sphericity for mirrors larger than 6" diameter	λ/10 @ 10.6 μ and 35Å RMS	λ/5 @ 10.6 μ and 45Å RMS

(1) SPAWR, "*Metal Mirrors* Selection Guide"

Standard Mirror Sizes

Laboratory Grade Catalog No.	Industrial Grade Catalog No.	Outside Diameter		Thickness		Approximate Weight
		(mm)	(inches)	(mm)	(inches)	
LCu-001	ICu-001	25.4	1	6.4	0.25	1 oz.
LCu-015	ICu-015	38.1	1.5	6.4	0.25	2 oz.
LCu-021	ICu-021	50.8	2	9.7	0.38	6 oz.
LCu-041	ICu-041	76.2	3	12.7	0.50	1 lb.
LCu-061	ICu-061	101.6	4	19.0	0.75	3 lb.
LCu-101	ICu-101	152.4	6	25.4	1.00	8 lb.

LCu-121	ICu-121	203.2	8	38.1	1.50	24 lb.
LCu-141	ICu-141	254.0	10	44.5	1.75	45 lb.

Larger Mirrors Available. Email us your sizes and specifications
GENERAL INFORMATION

- SPAWR is a major supplier of state-of-the-art metal mirrors for use in very high power laser research.
- The highest quality metal mirrors, which have provided the highest CO2 laser damage threshold, are produced by SPAWR Industries.
- A protective shipping/storage container is provided with each laser mirror.
- SPAWR has been a leader in high performance ***laser technology*** products since 1969.
- Mirrors larger than 10" diameter, including custom mirrors, will be quoted on request.
- Contact us below for more information about our ***copper laser optics, copper laser mirrors.***

Shipping Containers

Isometric View

Cross Section View

Have any questions or ideas?

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