



Thanks to our long experience in designing optical and lighting equipment for major lighthouses, we are pleased to introduce the innovating acrylic, cut and polished lenses, replacing the old major glass optics to obtain an optimum output, with the aim to keep the image of our historical lighthouse heritage.

As a complement to our innovating lenses, we use our MRM 160 electronic, gearless and brushless revolving pedestals.

Besides, we can restore any type of glass lens for its operation with the original range it was designed for.

## PRODUCTS

### LENSES

- ✓ Manufactured from acrylic material.
- ✓ Dioptric and catadioptric aspherical rings that surpass the glass lens efficiency.
- ✓ High-precision cut and polishing.
- ✓ Anodized aluminium frames.
- ✓ Tailor-made design, according to required flash character and range.
- ✓ Wide range of focal lengths, as per customer specifications.



### LAMPS

- ✓ Wide choice of lamps, d.c. or a.c., metal halide, halogen or LED.
- ✓ Study on the most suitable lamp, according to required lighthouse luminous range and power supply system chosen.



# HISTORIC LIGHTHOUSE LENSES

# MHO



Specifications subject to change without previous notice.

## NEW CLASSICAL LIGHTHOUSE

When building a classical lighthouse is in mind, flash character and range defined, tough budget is limited, it is easy to engage us the engineering study to design the suitable acrylic lens, in order to obtain a historic lighthouse image.

In these cases, the design of the complementing lanternhouse can accompany the lens design if desired. Lighting equipment is completed with our MRM 160 rotating pedestal and related control unit.

This way, we can obtain a classical lighthouse design with a cost-effective solution.

## HISTORIC LIGHTHOUSE RENOVATION

When restoring historic lighthouses with classical glass lenses, it is advisable to maintain glass lenses when feasible. Sometimes, glass lenses are broken or very deteriorated, the budget is adjusted and you want to preserve the historical lighthouse image.

In this case, we can replace the old glass lens by a twin lens manufactured from acrylic material. Likewise, our modern MRM 160 double revolving pedestal can replace the old lighthouse rotating machine. This way, we achieve three main aims with this work: historical image, modern operation and low cost.



MHO	STATIONARY INTENSITY (Cd)	EFFECTIVE INTENSITY						
		ROTATING SPEED (RPM)						
LAMPS		0.5	1	2	3	4	5	6
CDM-T 35 W	3,202,200	1,035,000	617,000	341,000	236,000	180,000	145,000	122,000
CDM-T 70 W	4,269,600	1,660,000	1,030,000	586,000	409,500	315,000	255,000	215,000
CDM-T 150 W	6,941,500	3,076,000	1,976,000	1,152,000	812,000	628,000	511,500	432,000
MVR 250	2,541,000	1,423,000	988,000	613,000	445,000	348,000	287,000	243,000
MVR 400	3,984,000	2,099,000	1,425,000	868,000	623,000	487,000	400,000	338,000

Example of MHO acrylic lens:

Optical configuration: 90° - 90° - 90°.

Focal distance: 400 mm.

Dioptric and catadioptric elements.



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