

# MX-10 Extreme Photometric Report

Martin R&D Optics Laboratory, 12-Jul-2005

Data sheet conforms to American National Standard E1.9 - 2001

Product	Martin MX-10 Extreme
Catalog number	90145400
Lens option	Standard
Spread	N/A
IES file	MX-10Extreme_Standard.ies

**Procedure**

The goniometer consists of a computerized robot IRB 6000 and a single cell THOMA Color Analyzer TF5 luxmeter that provides luminous intensity measurements for computerized data collection. The robot is initialized so that the center of the luminaire's front lens is positioned 7 m from the luxmeter. The luminaire is rotated around the center of the lens per IESNA' s type B photometry in 1° increments in the horizontal plane and 1° increments in the vertical plane. Readings are taken using a manufacturer-calibrated test lamp and normalized to the lamp' s nominal output.

## Test lamp

Model	Philips MSD 250/2
Rated wattage	250 W
Rated life	3000 hours
Rated color temp.	8500 K
Rated voltage	94 V
Rated output	18000 lumens

## Test conditions

AC supply	232 V/50Hz
Lamp wattage	250 W
Lamp adjustment	Optimized for Peak distribution
Lamp age	46 hours
Focus	Open gobo
Open gobo diameter	17 mm
Color inserted	no
Effects inserted	no

## Ballast

Type	Magnetic
Ballast factor	1.000

## Output

Total	4100 lumens
One-tenth peak	4100 lumens
Half-peak	2200 lumens
Efficiency	22.8%
Efficacy	11.4 lumens per watt

## Illuminance

Cutoff angle	18.8°
One-tenth-peak angle	18.1°
Half-peak angle	10.5°
Cutoff diameter	0.33 x distance
One-tenth-peak diam.	0.32 x distance
Half-peak diameter	0.18 x distance

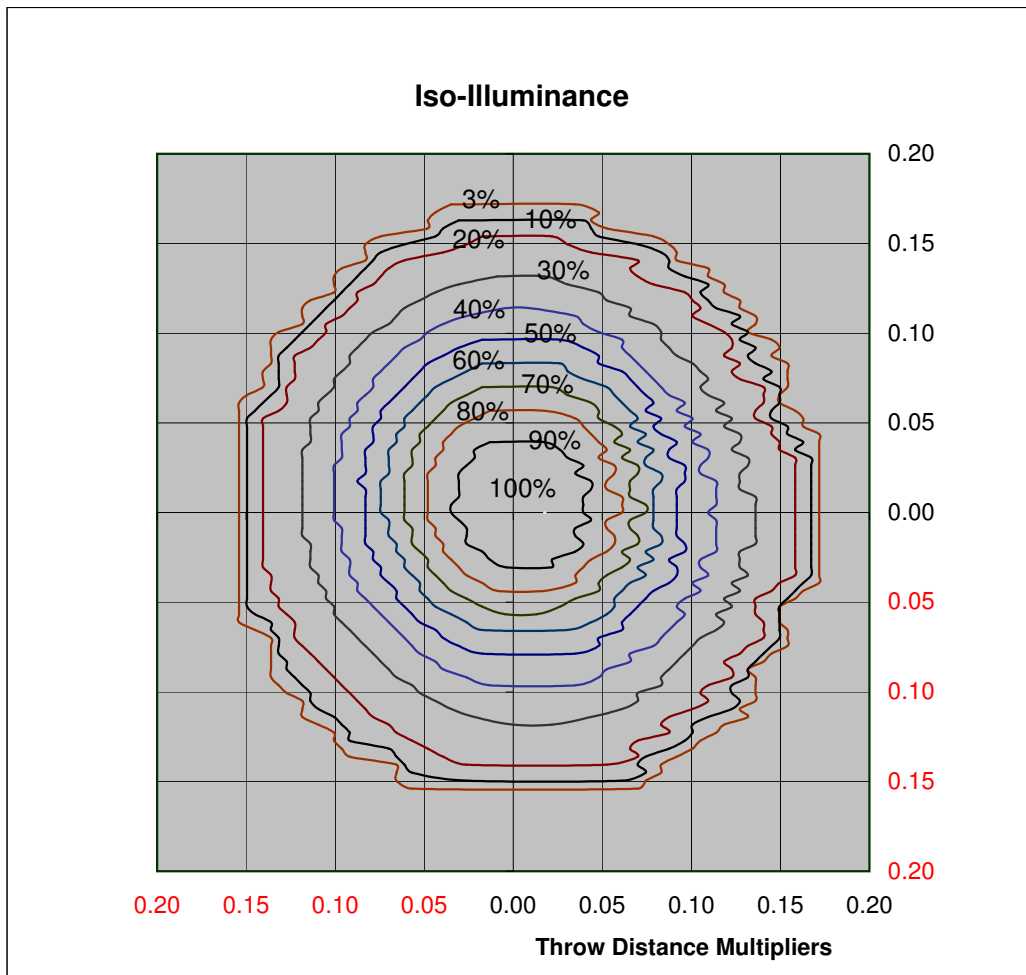
## Intended throw

Focus range	2 - 10 meters
Luminous intensity	2 meters to infinity
Luminaire type	116000 candela
	Far field

The logo for Martin, featuring the word "Martin" in a bold, black, sans-serif font. A small yellow triangle is positioned above the letter 'i'.

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12-Jul-2005. Standard lens



100% = 1158 lux at 10 m  
(distance from origin) = (throw distance) X (throw distance multiplier)

