



SPECIFICATION

40m – Output MC Mirror Specifications

APPROVALS	DATE	REV	DCN NO.	BY	CHECK	DCC	DATE
AUTHOR: H. Armandula	03/10/05						
CHECKED:							
APPROVED: A. Weinstein							
DCC RELEASE							

1 M1 - Material

REO part #30731 – 1meter, cc/pl – 7.75mm dia.
Super-polished fused silica

Coating

Wavelength: 1064 nm
Angle of incidence: 0°

Side 1

HR - R > 99.9 %

Side 2

AR - R = 0.2%

Quantity: 1 Total

2 M2 - Material

REO part #31301 – PL/PL – 1”dia. x .250 thick
Super-polished fused silica, wedged (30 min. arc +/-15 min)

Coating

Wavelength: 1064 nm
Angle of incidence: 0°

Side 1

HR - R >= 99.97 %

Side 2

AR - R = 0.2%

Quantity: 2 Total

3 M3 & M4 - Material

REO part #31301 – PL/PL – 1”dia. x .250” thick

**40m – Output MC Mirror Specifications**

Super-polished fused silica, wedged (30 min. arc +/-15 min)

Coating

Wavelength: 1064 nm

Angle of incidence: 45° - "P" Polarization

Side 1

HR – T ~1% (matched as close as possible among the 3 mirrors in the order)

Side 2

AR – R = 0.2%

Quantity: 3 Total

Coating vendor to provide:

1. One 1" witness sample from each coating run
2. Two spectrophotometer graphs of the reflectance and transmittance of the HR coatings must be provided; one covering the spectrum from 530nm to 1200nm; the other, with increased sensitivity, to show wavelengths from 900nm to 1100nm
3. Spectrophotometer graphs of the reflectance of the AR coating taken as cited above.