



SPECIFICATION

aLIGO ISC Optics:

Non standard optics for first TRANSMON unit

APPROVALS	DATE	RE V	DCN NO.	BY	CHECK	DCC	DATE
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DCC RELEASE							

1 Description

Non standard aLIGO optics to be used in the assemble of the first unit of the TRANSMON table for the H2 One Arm Test.

E1100415-v1-01

2" CVI lens PLCX-50.8-154.5-UV-1064, f = + 343.6mm @ 1064nm

E1100415-v1-02

2" CVI lens PLCX-50.8-154.5-UV-532, f = + 335.4mm @ 532nm

E1100415-v1-03

1" CVI 50/50 wedged BS, P-pol  
BS1-1064-50-1025-45P

E1100415-v1-04

1" Super-polished Lens (from squeezing optics) E1000077-v1 Lens 8

25mm +0.0/-0.1mm Ø X 6.35mm ± 0.1mm tk. (edge), ROC=-25mm ± 1%  
Focal length (@1064nm) = -55.6mm ± 2%  
Focal length (@532nm) = -54.3mm ± 2%

E1100415-v1-05

1" Super-polished Lens (from squeezing optics) E1000077-v1 Lens 9

25mm +0.0/-0.1mm Ø X 6.35mm ± 0.1mm tk. (edge), ROC=-50mm ± 1%  
Focal length (@1064nm) = -111.2mm ± 2%  
Focal length (@532nm) = -108.5mm ± 2%