

TRAVELER: Q5179-0050, Tesseract XL-HD

Part Information			
The following section contains information about the assembly.			
Part #	Q5179-0050		
Revision	A		
Description	ASSY, Tesseract XL-HD		
Serial #	000564		
Date Recorded	2/15/2022 8:29:17 PM		
Internal Components	Component	Part Number	Serial #
	Tesseract XL-HD Optical Column	Q5179-0053	000497
	Diffractive Optic Element	AFCL-GU3211B	58148-132 A
	Iodine Board	BAPI22	FV41072004KJMX221

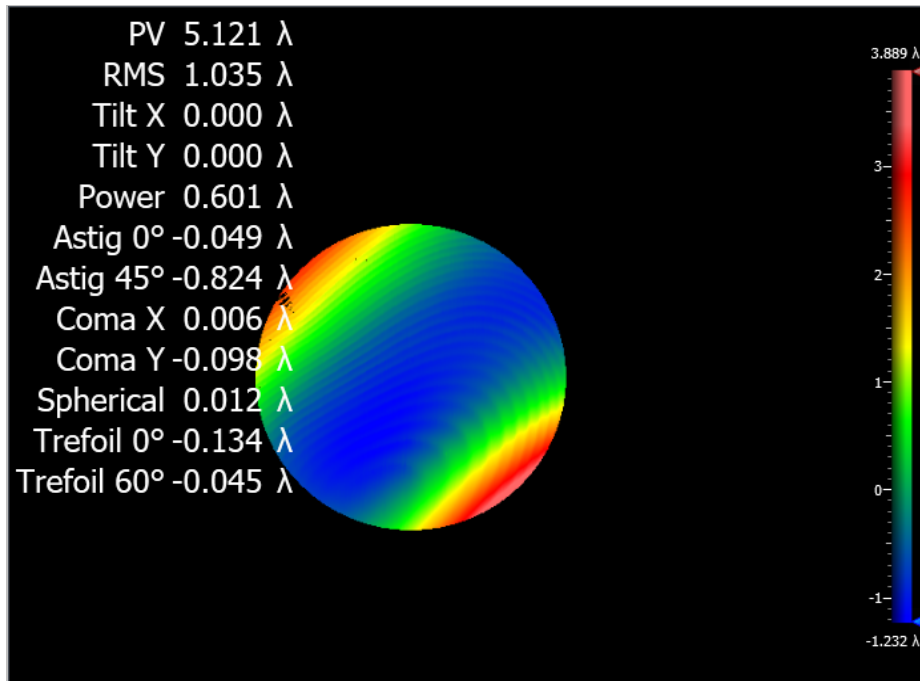
Requirement Description	Requirement	Measurement		In Spec YES/NO		Measurement Method
DOE Surface to Collimated Beam Tip/Tilt Error (Mean)	≤ 50 arcseconds	35.3	arcseconds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Auto-collimator
DOE to Mechanical Interface Clocking Error	$\leq 0.1^\circ$	0.0013	°	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Spot Pattern Image Processing
Collimated Beam to Mechanical Interface Tip/Tilt Error	≤ 2 arcminutes	0.37	arcminutes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Spot Pattern Image Processing
Collimated Beam Transmitted Wavefront Error at 532nm, Single Pass Peak to Valley	≤ 0.50 wave	0.47	wave	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Shack Hartmann Wavefront Sensor
DOE Reflected Wavefront Error at 633nm, Peak to Valley	≤ 8 wave	5.1208	wave	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Zygo Interferometer Wavefront Measurement
Diffractive Optic Orientation (Vx or Vy)	V _y	V _y	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Visual Inspection

Quality Check Description	Result Pass/Fail		Timestamp
Calibration Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7/23/2021 8:58:35 AM
QC Camera	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2/15/2022 8:24:37 PM
QC Power Meter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2/15/2022 8:03:57 PM

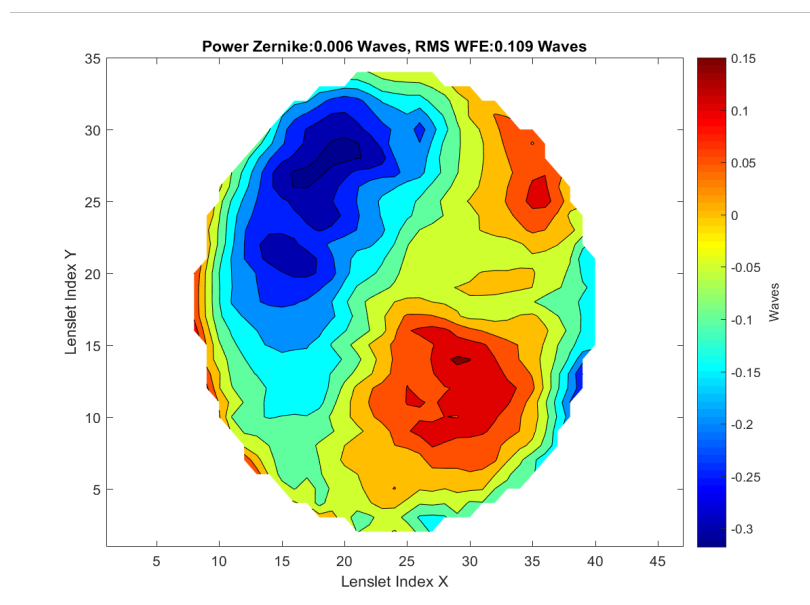
Additional Information

The following section includes any additional information used to generate results. Include graphs, images, and calculations as needed.

DOE Reflected Wavefront Error at 633nm, Peak to Valley



Collimated Beam Transmitted Wavefront Error at 532nm, Single Pass Peak to Valley



Diffraction Optic Orientation

