

# ObservationReport

all measures in mm

Observation-ID

0406 v 01

on

2025-08-30 22:00

Rating

\*\*\*\*

Status

Published



<b>Main Object</b>	<b>IC5070</b>	
Common Name	Pelican Nebula	
Alternate Name	LBN350	
Visual Mag.   Size	8,00	80 x 70 armin
Distance	1800 ly	
Object R.A.   DEC coord.	20h 51m 00s	+44° 24' 17.0"
Description	Bright Nebula	
Constellation	Cygnus	
Other Objects		



20250830\_IC5070\_ASI2600\_0406-01.jpg

StarImage Link	<a href="#">OID0406</a>
Telescopius Link	<a href="https://telescopius.com_ic-5070_p">telescopius.com_ic-5070_p</a>
Wikipedia Link	<a href="https://wikipedia.org_ic-5070_Peli">wikipedia.org_ic-5070_Peli</a>

## Image Properties

Source Format	Photo	Optical Scale ["/px]	0,7087	
Tot./Act. Frames/Pane	5	5	Picture Center R.A.	20h51m38.335s
H / V Panes	1	1	Picture Center DEC	+44°h25'm06.352"s
Exp. [s] / Frame	180	FoV measured H/V [°]	1,23	0,822
Total Time / Pane [min]	15,00	15,00	Above horizon [°]	78,5°
		View Direction	SE 125°	

## Camera Data

<b>ZWO Optical</b>	<b>ASI2600MCAir</b>	<b>ZWOASI2600</b>	
Camera Angle [°]	199,1	Pixel Pitch [µm]	3,761
Gain or ISO	100	Camera Temp. °C	-10

## Observation Site

Observation Start	2025-08-30T22:00:02 UTC+/- +1h	Observation End	2025-08-30T22:12:15
Observation Site	DE Göttingen Weende	Site Elevation / Bortle	182 4
Province	NDS	Site Coordinates	9° 56' E; 51° 34' N

## Sky & Moon

Sky Index   Total Clouds	2,8	15	%	Moon Rise   Set	
SQM   Outside Temp. °C	21,07	15		Moon Age [d]	0
Moon Phase   % Illum.	1st quarter	0	%	Moon ► Target Dist.	UNKNOWN

## Optical Configuration

<b>TS1624cASI2600CAAx067</b>	<b>TS1624cASI2600cT167R67</b>		
Lens or Scope	TSO RC 203/1624c	Mechanical Focuser	M90 TS1624 Crayford
Type Of Build	Ritchey-Chretien Reflector	Electronic Focuser	<input type="checkbox"/>
Brand	TS-Optics	Focuser Position	0 [mm] 46,46
Additional Optics	M48 0.67 Reducer	► Optical Factor	0,6804
Filter	Optolong 2" L-eNhanche	FoL norm actual [mm]	1094,7636 1094,764
Diameter [mm]	203	<a href="#">DawesLimitLink</a>	<a href="#">2,15 Arcsec</a>
Aperture / f-stop	5,39		

## Other Hardware & Software

Guide Scope + Camera	ASI2600 Guide Sens ASI120MM	Mount	iOptron iEQ45 Pro
GuiderHW	ASIAIR	SessionControl	ASIAIR
GuiderSW	ASIAIR	PostProcessingSW	PI-PixInsight, GraXpert, BlurXTerminator, NoiseXTerminator, PI-PCC, PI-ABE, PI-MLT

## More ... (see also next page)

Work Folder	<a href="#">2025\20250830_0406_IC5070_WEENDE</a>
Comment/Title	Pelican Nebula (IC5070) Test

Remarks

**Session Planning & Goal:**

Test of first TS1624c with 0.67 reducer

This was a test shot to check the optical quality of the first shipped TS-Optics RC203/1624 showing fan-shaped halos around bright stars. In this case a 0.67 reducer and an Optolong 2" L-eNhanse filter was used to test if this reduces the halos.

**Session Results**

Neither the reducer nor the filter improved the halos

**Post Processing**

Image selection, registration, background enhancement and color correction were done in PixInsight.

**Culling**

- NONE -

**Alignment and Integration**

FBPP: Fast Batch PreProcessor (Autocrop, Drizzle)

**Linear Image Processing**

BX: BlurXTerminator

NX: NoiseXTerminator

PCC: Photometric Color Calibration

ABE: Automatic Background Extraction

**De-Linearizing the image**

HT: Histogram Transfer

**Improving the stretched image**

CT: Curves Transformation

MLT: Sharpening Details with Multiscale Linear Transform

No further image post processing was required.

No color or hue changes were made; the final image has natural colors.

**Image Keywords**

ObservationID=#0406, IC5070, Pelican Nebula, \*\*\*\*, Constellation=Cygnus, 2025, AUG, Type=Photo, Site=Göttingen Weende, DE, Config=TS1624cASI2600CAAx067, D=203mm, f/5.4, f=1095mm, Filter=OLeN, Gain=100, Lens=TS1624c, LensName=TSO RC 203/1624c, Mount=iOptron iEQ45 Pro, n=5, OtherOptics=M48 0.67 Reducer, PanesH=1, PanesV=1, Status=Published, t=180s, ZWOASI2600, AstroSW=PI-PixInsight, AstroSW=GraXpert, AstroSW=BlurXTerminator, AstroSW=NoiseXTerminator, AstroSW=PI-PCC, AstroSW=PI-ABE