



Light Guide Concentrators

Status Report: Apr. 2021

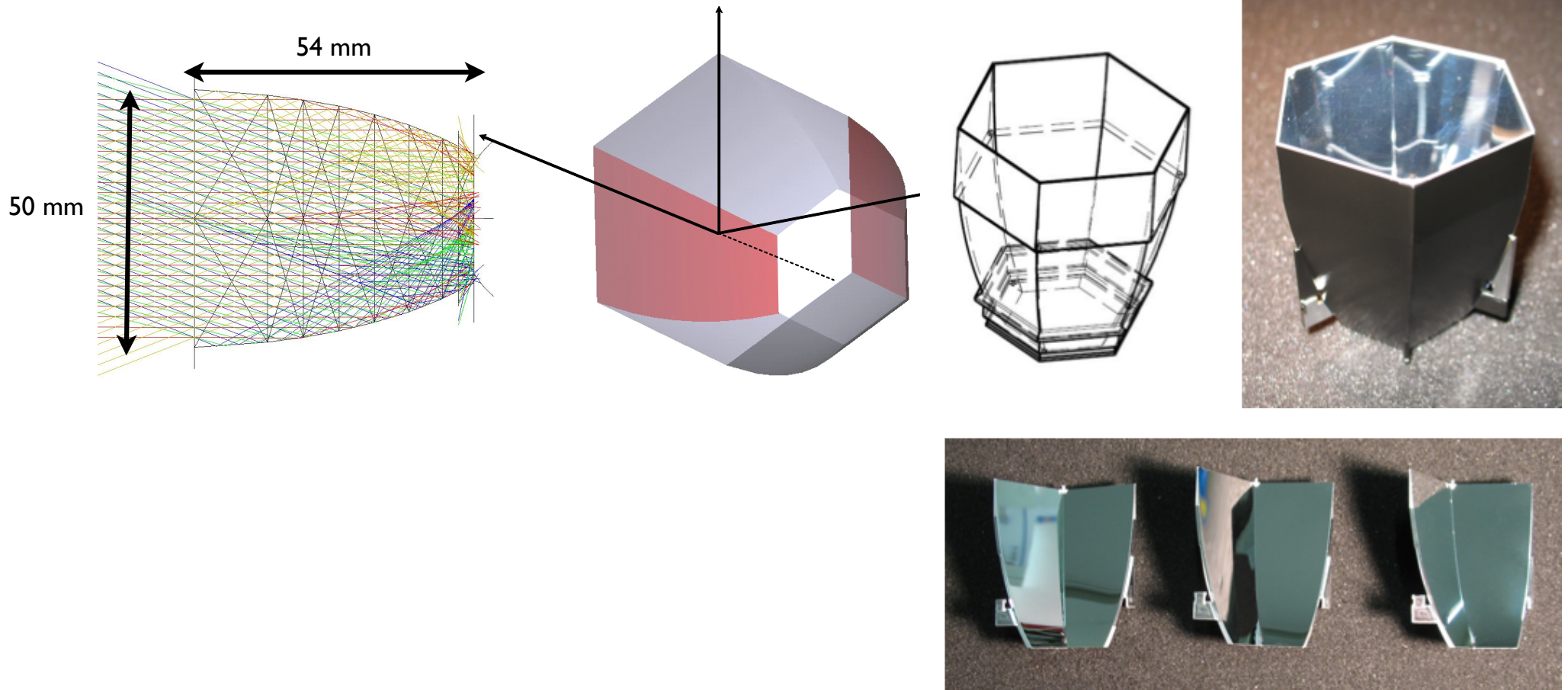
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IPAG, Grenoble, France



Winston Cone prototypes

Prototypes manufactured by **SAVIMEX** (Grasse, France)

- Cones in 3 parts for a better control of the coating process



First Camera

- 2000 cones produced (presently at IRFU).
- 500 already installed on the camera 1:1

First Ca

- 2000 cones produced (presently at IRFU).
- 500 already installed on the camera 1:1
- 10% tested on the Savimex test bench. 1% on the IPAG test bench

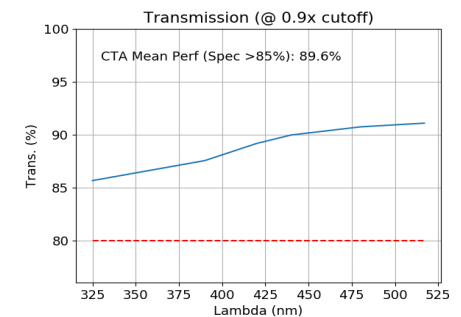
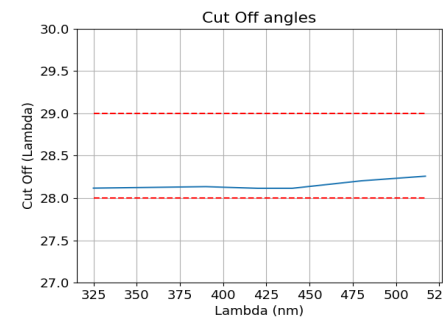
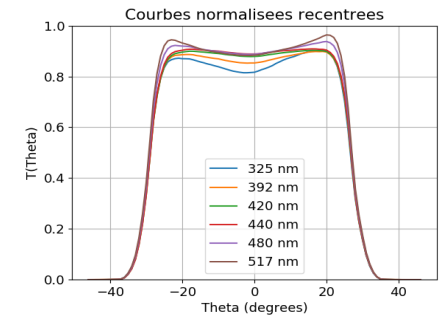
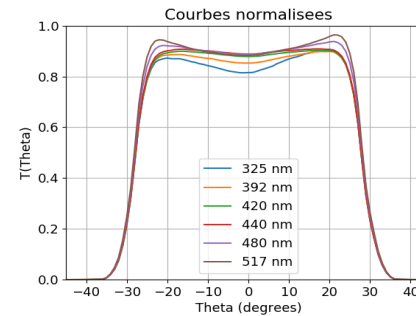


Winstone cones characterization Measurement log sheet



Date: 2020-08-04
Time: 11h 34min
Operator: Pop
Cone ID: 0110043-1
Directory: C:/CTA/Data/2020-08-04/
Angle Phi: [0] deg

Remarks:



Lambda(nm)	325.0	390.0	420.0	440.0	480.0	517.0
Cutoff(°)	28.12	28.13	28.11	28.11	28.2	28.26

Lambda(nm)	325.0	390.0	420.0	440.0	480.0	517.0
T. Savi (%)	81.7	85.3	87.9	88.8	88.7	88.3
T. CTA (%)	86.8	88.2	89.6	90.3	91.3	91.8
T. rej. (%)	5.1	4.9	4.8	4.8	5.0	5.2

Operateur signature

QA signature

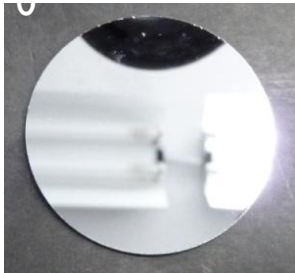
Decision:

☐ ☐

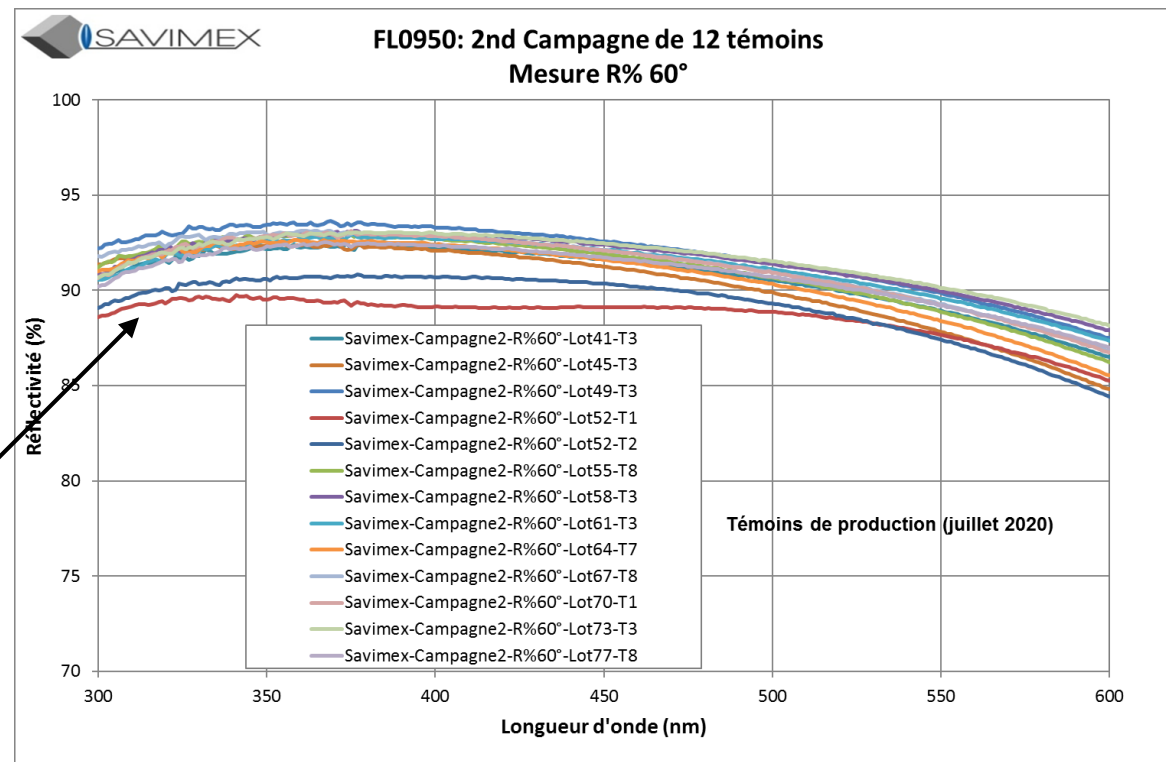
Fiche anomalie:

First Camera

- Savimex performs now spectral measurements in the 300 to 600 nm band and at 60° incidence on coating control samples (instead of >400nm at 0° before).



due to scratches
on the indicator



CDMR Outcomes

Remarks for a CDMR reviewer (Duty #42789: DD049 FPI Validation Matrix):

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- There are requirements that seem to have contradictory information. For example, requirements that are declared as compliant but the status is open, requirements that are closed but partially compliant, etc.
- It is highly recommended to review the requirements wording to make sure they are atomic, verifiable, etc.

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C-MST-CAM-NC-0321 "The rejection level achievable by the Winston Cone shall be $\leq 6\%$ »

« partially compliant » -> « compliant »

Production

- There is a maximal duration of 4 years (after the first notification) to realize the other optional orders i.e. **before 17/01/2022.**

➡ Beyond this date another contract will be required

	Opt. Order 1	Opt. Order 2	Opt. Order 3	Opt. Order 4
WC unitary cost (H.T)	16,4	15,2	15,2	15,2
WC total cost (H.T)	24600	152000	152000	152000
Taux T.V.A	20%	20%	20%	20%
WC total cost (T.T.C)	29520	182400	182400	182400
Number of WC requested	1 500	10 000	10 000	10 000

- Next Optional Order is for 10 000 cones (5 cameras). Savimex is ready! But we will need to store them...

Thanks