G12 Analysis Checklist

The following procedures are common for most g12 analyses and have been approved by the g12 procedure review committee in the g12 analysis procedures manuscript [1]. By checking the "yes" boxes below, I hereby confirm that I understood and applied the procedures in accordance with the g12 analysis note. I also understand that if a procedure in the analysis is not done in accordance with the g12 analysis procedures, the box "no" should be checked and a separate analysis note on the procedure is required. If a procedure in the g12 analysis note is not applicable, to the analysis, the box "N/A" should be checked.

Procedure			
Used PART bank reconstruction for the	N/A	Yes	No
analysis. EVNT was NOT used.		V	
Momentum corrections as described in	N/A	Yes	No
the g12 note		\checkmark	
Beam energy correction as described in	N/A	Yes	No
the g12 note		$\overline{\mathbf{V}}$	
Inclusive Good run list as described in ta-	N/A	Yes	No
ble 7. Individual analysis may use a subset		$ \mathbf{} $	
of it			
Target density and its uncertainty as de-	N/A	Yes	No
scribed in the g12 note		\checkmark	
Photon flux calculation procedure as de-	N/A	Yes	No
scribed in the g12 note		\checkmark	
Lower limit for the systematic uncertainty	N/A	Yes	No
of normalized yield is 5.7%		\checkmark	
Photon polarization calculation procedure	N/A	Yes	No
as described in the g12 note	\checkmark		
Systematic uncertainty of the photon po-	N/A	Yes	No
larization as described in the g12 note	\overline{V}		
gsim parameters	N/A	Yes	No
		V	

gpp smearing parameters	N/A	Yes 🗹	No 🗆
DC efficiency map	N/A	Yes ✓	No 🗆
EC knockout	N/A	Yes ✓	No 🗆
Minimal TOF knockout	N/A	Yes ✓	No
Lepton ID is used	N/A	Yes	No ✓
AUTHOR REMARKS (click below)			

Although the analysis note focuses on pi0 decaying into leptons and a photon, lepton PID was not used. Lepton ID for pi0 can be acheived by conservation of energy, mass.

References

[1] g12 working group g12 Analysis Procedures, Statistics and Systematics. 2016