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Goodman Dome/Quartz flats and Comps Exposure Times

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Goodman **RED** camera typical **DOME FLAT** lamp exposure times (for 2x2 binning, 344ATTN3 readout mode)

Mode	Type	Slit	Lamp (%) / Exp (s)	Texp (s)	ADU
400M1 no filter	Spec	1	100	7	28000 (1)
400M2 +GG455 filter	Spec	1	100	5	25000 (1)
600MID + GG395 filter	Spec	1	100	12	29000 (1)
930M2 no filter	Spec	1	100	60	27000 (1)
SDSS-g	Img	---	30	2.5	21000 (2)
SDSS-r	Img	---	15	1.5	24000 (2)
SDSS-i	Img	---	10	1	27000 (2)
VR	Img	---	10	3	25500 (2)

(1) Max ADU count, at red end of spectrum

(2) Average ADU count

Goodman **RED** camera typical **QUARTZ FLAT** lamp exposure times (344ATTN3 readout mode)

Mode	Binning	Slit (")	Lamp (%) / Exp (s)	Temp (s)	MAX ADU
400M1 no filter	2x2	1	70	3	39600
400M2 +GG455 filter	2x2	1	70	1.5	34000
600MID + GG395 filter	2x2	1	70	5	36000
930M2 no filter	2x2	1	100	3.5	29500
2100@650+GG455 filter	1x2	0.45	100	15	24000

Goodman **RED** camera typical **COMPARISON** lamp exposure times (200ATTN0 readout mode)

Mode	Binning	Slit (")	ARC LAMP	Exp (s)
400M1 no filter	2x2	1	HgArNe	0.5
400M2 + GG455 filter	2x2	1	HgArNe	0.5
600MID + GG395 filter	2x2	1	HgArNe	0.5
930M2 no filter	2x2	1	Cu(HeAr)	120
2100@650+GG455 filter	1x2	0.45	HgArNe	0.5
2100@5577	1x2	0.45	HgArNe	1

Goodman **BLUE** camera typical **DOME FLAT** lamp exposure times (for 2x2 binning, 200ATTN0 readout mode)

Mode	Type	Slit	Lamp (%) / Exp (s)	Temp (s)	ADU
400M1 no filter	Spec	1	100	7	29600 (1)
400M2 +GG455 filter	Spec	1	100	7	30000 (1)
600MID + GG395 filter	Spec	1	100	12	29500 (1)
930M2 no filter	Spec	1	100	45	23600 (1)
SDSS-g	Img	---	40	1.5	31000 (2)
SDSS-r	Img	---	15	1.5	24600 (2)
SDSS-i	Img	---	10	1	22000 (2)
VR	Img	---	15	1	25000 (2)

(1) Max ADU count, at red end of spectrum

(2) Average ADU count

Goodman **BLUE** camera typical **QUARTZ FLAT** lamp exposure times (200ATTN0 readout mode)

Mode	Binning	Slit (")	Lamp (%)	Exp (s)	MAX ADU
400M1 no filter	2x2	1	70	2.5	30900
400M2 + GG455 filter	2x2	1	70	2	31800
600MID + GG395 filter	2x2	1	70	4	28700
930 M2 no filter	2x2	1	100	3	29000

Goodman **BLUE** camera typical **COMPARISON** lamp exposure times (for 2x2 binning, 200ATTN0 readout mode)

Mode	ARC LAMP	Exp (s)
400M1 no filter	HgArNe	0.3
400M2 + GG455 filter	HgArNe	0.3
600MID + GG395 filter	HgArNe	0.3
930M2 no filter	Cu(HeAr)	90

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