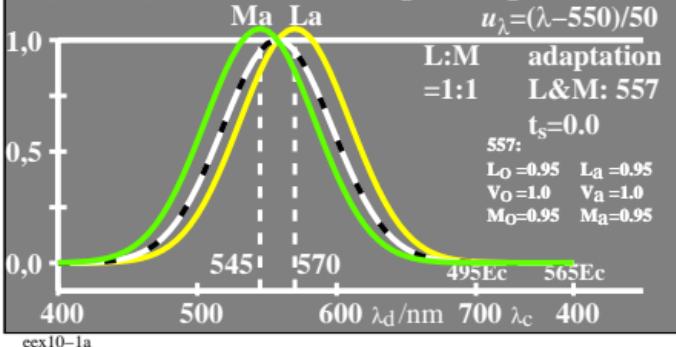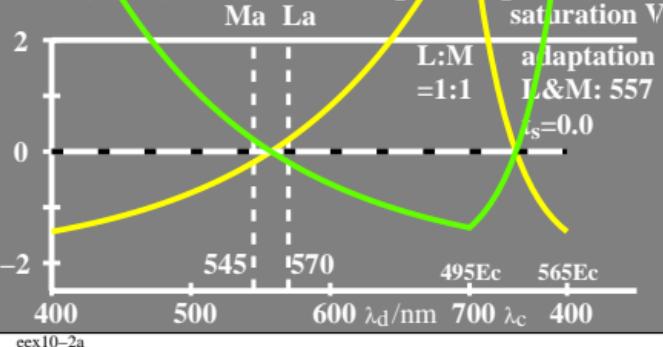**lin[sensitivity]**

$\log V_0 = -0,35[u_\lambda - u_{557}]^2$
$\log V_a = \log V_0 + 0,00$
$[V_0, L_a, M_a,]$

$\log L_0 = -0,35[u_\lambda - u_{570}]^2$
$\log M_0 = -0,35[u_\lambda - u_{545}]^2$
$\log L_a = \log L_0 + 0,02$
$\log M_a = \log M_0 + 0,02$
$u_\lambda = (\lambda - 550)/50$

Ma La

L:M   adaptation
=1:1   L&M: 557
$t_s = 0.0$

557:
$L_0 = 0.95$ $L_a = 0.95$
$V_0 = 1.0$ $V_a = 1.0$
$M_0 = 0.95$ $M_a = 0.95$

1,0
0,5
0,0

545 570   495Ec   565Ec

400   500   600 700 λ_d/nm λ_c 400

eex10−1a

lin[saturation]

$\log V_0 = -0,35[u_\lambda - u_{557}]^2$
$\log V_a = \log V_0 + 0,00$
$[V_0/V_0, L_a/V_0, M_a/V_0,]$

$\log L_0 = -0,35[u_\lambda - u_{570}]^2$
$\log M_0 = -0,35[u_\lambda - u_{545}]^2$
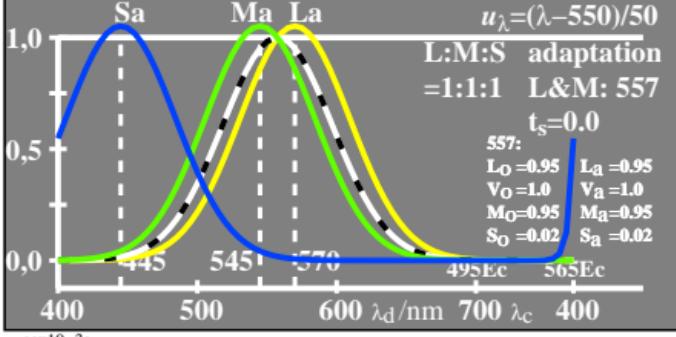$\log L_a = \log L_0 + 0,02$
$\log M_a = \log M_0 + 0,02$

Ma La

saturation V

L:M   adaptation
=1:1   L&M: 557
$t_s = 0.0$

2
0
−2

545 570   495Ec   565Ec

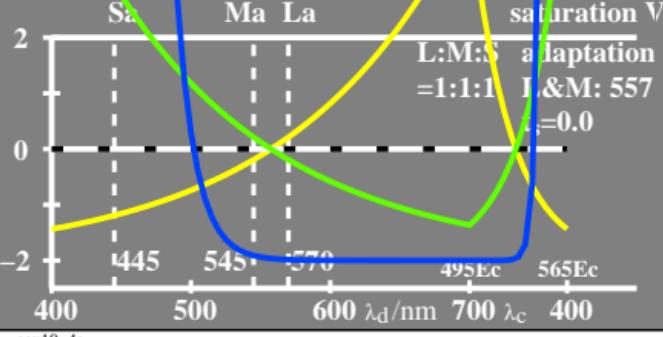400   500   600 700 λ_d/nm λ_c 400

eex10−2a

lin[sensitivity]

$\log V_0 = -0,35[u_\lambda - u_{557}]^2$
$\log S_a = -0,35[u_\lambda - u_{445}]^2 + 0,02$
$[V_0, L_a, M_a, S_a]$

$\log L_0 = -0,35[u_\lambda - u_{570}]^2$
$\log M_0 = -0,35[u_\lambda - u_{545}]^2$
$\log L_a = \log L_0 + 0,02$
$\log M_a = \log M_0 + 0,02$
$u_\lambda = (\lambda - 550)/50$

Sa   Ma La

L:M:S   adaptation
=1:1:1   L&M: 557
$t_s = 0.0$

557:
$L_0 = 0.95$ $L_a = 0.95$
$V_0 = 1.0$ $V_a = 1.0$
$M_0 = 0.95$ $M_a = 0.95$
$S_0 = 0.02$ $S_a = 0.02$

1,0
0,5
0,0

445 545 570   495Ec   565Ec

400   500   600 700 λ_d/nm λ_c 400

eex10−3a

lin[saturation]

$\log V_0 = -0,35[u_\lambda - u_{557}]^2$
$\log S_a = -0,35[u_\lambda - u_{445}]^2 + 0,02$
$[V_0/V_0, L_a/V_0, M_a/V_0, S_a/V_0]$

$\log L_0 = -0,35[u_\lambda - u_{570}]^2$
$\log M_0 = -0,35[u_\lambda - u_{545}]^2$
$\log L_a = \log L_0 + 0,02$
$\log M_a = \log M_0 + 0,02$

Sa   Ma La

saturation V

L:M:S   adaptation
=1:1:1   L&M: 557
$t_s = 0.0$

2
0
−2

445 545 570   495Ec   565Ec

400   500   600 700 λ_d/nm λ_c 400

eex10−4a

eex10−3n