

ECG lifetime

Expected lifetime is the calculation of the ECG lifetime according to IEC_60929_Edition_4_2011. As background for this estimation, are the MTTF values according to SN 29500 and the component- parameters used

QUICKTRONIC® INTELLIGENT – ECG for T5/16 mm lamps	3
QTi 1x14/24/21/39 GII.....	3
QTi 1x28/54/35/49 GII.....	3
QTi 1x35/49/80 GII	3
QTi 2x14/24/21/39 GII.....	3
QTi 2x28/54/35/49 GII.....	3
QTi 2x35/49/80 GII	3
QUICKTRONIC® PROFESSIONAL – ECG for T5/16 mm lamps	4
QTP5 1x14-35	4
QTP5 1x49.....	4
QTP5 1x80.....	4
QTP5 2x14-35	4
QTP5 2x49.....	4
QUICKTRONIC® FQ® – ECG for T5/16 mm lamps	4
QTP-FQ 2x80	4
QUICKTRONIC® PROFESSIONAL OPTIMAL – ECG for CFL, T5/16 mm and T8/26 mm lamps	5
QTP-OPTIMAL 1x18-40	5
QTP-OPTIMAL 1x54-58	5
QTP-OPTIMAL 2x18-40	5
QTP-OPTIMAL 2x54-58	5
QUICKTRONIC® FIT 5 – ECG for T5/16 mm lamps	6
QT-FIT5 1x14-35	6
QT-FIT5 1x49.....	6
QT-FIT5 2x14-35	6
QT-FIT5 2x49.....	6
QT-FIT5 3x14,4x14	6
QUICKTRONIC® FIT 5/8 – ECG for T5/16 mm and T8/26 mm lamps.....	7
QT-FIT5/8 1x18-39	7

ECG lifetime according to IEC 60929

osram.com

QT-FIT5/8 1x54-58.....	7
QT-FIT5/8 2x18-39.....	7
QT-FIT5/8 2x54-58.....	7
QUICKTRONIC® FIT 8 – ECG for T8/26 mm lamps.....	8
QT-FIT8 1x36.....	8
QT-FIT8 1x58-70.....	8
QT-FIT8 2x36.....	8
QT-FIT8 2x58.....	8
QT-FIT8 3x18, 4x18.....	8
QUICKTRONIC® QTz8 – ECG for T8/26 mm lamps.....	8
QTz8 2x36.....	8
QUICKTRONIC® PROFESSIONAL – ECG for CFL.....	8
QTP-T/E 1x18, 2x18.....	8
QTP-T/E 1x26-42, 2x26.....	8
QUICKTRONIC® ECONOMIC – ECG for CFL.....	9
QT-ECO 2x5-11.....	9

ECG lifetime according to IEC 60929

osram.com

QUICKTRONIC® INTELLIGENT – ECG for T5/16 mm lamps

ECG	Lamp		ECG ambient temperature (t_a)		
			40°C	50°C	60°C
QTi 1x14/24/21/39 GII	1xHE 14W	lifetime [h]	100.000	100.000	100.000
		temperature at t_c -point [°C]	45	55	65
	1xHE 21W	lifetime [h]	100.000	100.000	100.000
		temperature at t_c -point [°C]	45	55	65
	1xHO 24W	lifetime [h]	100.000	100.000	90.000
		temperature at t_c -point [°C]	50	60	65
	1xHO 39W	lifetime [h]	100.000	80.000	80.000
		temperature at t_c -point [°C]	50	60	65 ¹
QTi 1x28/54/35/49 GII	1xHE 28W	lifetime [h]	100.000	100.000	100.000
		temperature at t_c -point [°C]	45	55	65
	1xHE 35	lifetime [h]	100.000	100.000	100.000
		temperature at t_c -point [°C]	45	55	65
	1xHO 49W	lifetime [h]	100.000	100.000	90.000
		temperature at t_c -point [°C]	50	55	65
	1xHO 54W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	50	60	70
QTi 1x35/49/80 GII	1xHE 35W	lifetime [h]	100.000	100.000	100.000
		temperature at t_c -point [°C]	45	55	65
	1xHO 49W	lifetime [h]	100.000	100.000	100.000
		temperature at t_c -point [°C]	50	55	65
	1xHO 80W	lifetime [h]	100.000	100.000	60.00
		temperature at t_c -point [°C]	55	65	70
QTi 2x14/24/21/39 GII	2xHE 14W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	50	60	70
	2xHE 21W	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	50	60	70
	2xHO 24W	lifetime [h]	100.000	90.000	50.000
		temperature at t_c -point [°C]	60	65	75
	2xHO 39W	lifetime [h]	100.000	90.000	50.000
		temperature at t_c -point [°C]	60	65	75
QTi 2x28/54/35/49 GII	2xHE 28W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	55	60	70
	2xHE 35W	lifetime [h]	100.000	100.000	70,000
		temperature at t_c -point [°C]	55	65	70
	2xHO 49W	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	55	65	70
	2xHO 54W	lifetime [h]	100.000	70.000	x ^{*1}
		temperature at t_c -point [°C]	60	70	x ^{*1}
QTi 2x35/49/80 GII	2xHE 32W ES	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	55	60	70
	2xHE 35W	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	55	60	70
	2xHO 45W ES	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	55	65	70
	2xHO 49W	lifetime [h]	100.000	100.000	60.000
		temperature at t_c -point [°C]	55	65	70
	2xHO 73W ES	lifetime [h]	100.000	80.000	40.000
		temperature at t_c -point [°C]	60	70	75
2xDULUX L 80W	lifetime [h]	100.000	80.000	50.000	
	temperature at t_c -point [°C]	60	70	75	

Status: Aug-14

ECG lifetime V 1.1

LE MK-EM T-ECG; Edition: V 1.1. Subject to change without notice.
Despite careful review, the possibility of mistakes cannot be excluded – no guaranty will be provided.



ECG lifetime according to IEC 60929

osram.com

*1

ECG	Lamp	ECG ambient temperature (t_a)			
		59°C			
QTi 2x28/54/35/49 GII	2xHO 54W	lifetime [h]			50.000
		temperature at t_c -point [°C]			75

QUICKTRONIC® PROFESSIONAL – ECG for T5/16 mm lamps

ECG	Lamp	ECG ambient temperature (t_a)			
		40°C	50°C	60°C	
QTP5 1x14-35	1xHE 35W	lifetime [h]	100.000	100.000	90.000
		temperature at t_c -point [°C]	50	60	65
QTP5 1x49	1xHO 49W	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	55	60	70
QTP5 1x80	2xHO 80W	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	55	65	70
QTP5 2x14-35	2xHE 35W	lifetime [h]	100.000	100.000	60.000
		temperature at t_c -point [°C]	55	65	70
QTP5 2x49	2xHO 49W	lifetime [h]	100.000	80.000	50.00
		temperature at t_c -point [°C]	60	65	75
	2xHO 45W ES	lifetime [h]	100.000	100.000	60.000
		temperature at t_c -point [°C]	55	65	75

QUICKTRONIC® FQ® – ECG for T5/16 mm lamps

ECG	Lamp	ECG ambient temperature (t_a)			
		40°C	50°C	60°C	
QT-FQ 2x80	2xHO 80W	lifetime [h]	100.000	80.000	50.000
		temperature at t_c -point [°C]	60	70	75

ECG lifetime according to IEC 60929

osram.com

QUICKTRONIC® PROFESSIONAL OPTIMAL – ECG for CFL, T5/16 mm and T8/26 mm lamps

ECG	Lamp		ECG ambient temperature (t_a)		
			40°C	50°C	60°C
QTP-OPTIMAL 1x18-40	1xHO 24W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	50	60	70
	1xHO 39W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	55	60	70
	1xL 18W	lifetime [h]	100.000	100.000	90.000
		temperature at t_c -point [°C]	50	60	70
	1xL 30W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	50	60	70
	1xL 36W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	55	60	70
	1xDULUX L 18W	lifetime [h]	100.000	100.000	90.000
		temperature at t_c -point [°C]	50	60	65
	1xDULUX L 24W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	50	60	70
	1xDULUX L 36W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	50	60	70
	1xDULUX L 40W	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	55	60	70
QTP-OPTIMAL 1x54-58	1xL 58W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	55	60	70
	1xDULUX L 55W	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	55	60	70
QTP-OPTIMAL 2x18-40	2xHO 24W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	50	60	70
	2xHO 39W	lifetime [h]	100.000	90.000	50.000
		temperature at t_c -point [°C]	60	65	75
	2xL 18W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	50	60	65
	2xL 30W	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	55	60	70
	2xL 36W	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	55	65	70
	2xDULUX L 18W	lifetime [h]	100.000	100.000	90.000
		temperature at t_c -point [°C]	50	60	65
	2xDULUX L 24W	lifetime [h]	100.000	100.000	80.000
		temperature at t_c -point [°C]	50	60	70
	2xDULUX L 36W	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	55	60	70
	2xDULUX L 40W	lifetime [h]	100.000	90.000	50.000
		temperature at t_c -point [°C]	60	65	75
2xDULUX F 24W	lifetime [h]	100.000	100.000	90.000	
	temperature at t_c -point [°C]	50	60	65	
2xDULUX F 36W	lifetime [h]	100.000	100.000	70.000	
	temperature at t_c -point [°C]	55	60	70	
QTP-OPTIMAL 2x54-58	2xHO 54W	lifetime [h]	100.000	90.000	50.000
		temperature at t_c -point [°C]	60	65	75
	2xL 58W	lifetime [h]	100.000	100.000	60.000
		temperature at t_c -point [°C]	55	65	75
	2xDULUX L 55W	lifetime [h]	100.000	100.000	60.000
temperature at t_c -point [°C]		55	65	75	

Status: Aug-14

ECG lifetime V 1.1

LE MK-EM T-ECG; Edition: V 1.1. Subject to change without notice.
Despite careful review, the possibility of mistakes cannot be excluded – no guaranty will be provided.



ECG lifetime according to IEC 60929

osram.com

QUICKTRONIC® FIT 5 – ECG for T5/16 mm lamps

ECG	Lamp		ECG ambient temperature (t _a)		
			40°C	50°C	60°C
QT-FIT5 1x14-35	1x HE35W	lifetime [h]	100.000	100.000	90.000
		temperature at t _c -point [°C]	50	60	65
	1xHE 21W	lifetime [h]	100.000	100.000	100.000
		temperature at t _c -point [°C]	50	55	65
	1xHE 28W	lifetime [h]	100.000	100.000	100.000
		temperature at t _c -point [°C]	50	55	65
	1xHE 13W ES	lifetime [h]	100.000	100.000	70.000
		temperature at t _c -point [°C]	45	55	65
	1xHE 19W ES	lifetime [h]	100.000	100.000	100.000
		temperature at t _c -point [°C]	45	55	65
	1xHE 25W ES	lifetime [h]	100.000	100.000	100.000
		temperature at t _c -point [°C]	50	55	65
	1xHE 32W ES	lifetime [h]	100.000	100.000	90.000
		temperature at t _c -point [°C]	50	60	65
QT-FIT5 1x49	1xHO 49W	lifetime [h]	100.000	100.000	70.000
		temperature at t _c -point [°C]	55	60	70
	1xHO 45W ES	lifetime [h]	100.000	100.000	50.000
		temperature at t _c -point [°C]	50	60	70
QT-FIT5 2x14-35	2xHE 35W	lifetime [h]	100.000	80.000	50.000
		temperature at t _c -point [°C]	60	70	75
	2xHE 32W ES	lifetime [h]	100.000	90.000	60.000
		temperature at t _c -point [°C]	60	65	75
	2xHE 28W	lifetime [h]	100.000	100.000	70.000
		temperature at t _c -point [°C]	55	65	70
QT-FIT5 2x49	2xHO 49W	lifetime [h]	100.000	70.000	x ^{*5}
		temperature at t _c -point [°C]	65	70	x ^{*5}
	2xHO 45W ES	lifetime [h]	100.000	90.000	50.000
		temperature at t _c -point [°C]	60	65	75
QT-FIT5 3x14,4x14	3xHE14W	lifetime [h]	100.000	100.000	80.000
		temperature at t _c -point [°C]	50	60	70
	4xHE14W	lifetime [h]	100.000	90.000	50.000
		temperature at t _c -point [°C]	60	65	75

*5

ECG	Lamp		ECG ambient temperature (t _a)		
			56°C		
QT-FIT5 2x49	2xHO 49W	lifetime [h]	-	-	50.000
		temperature at t _c -point [°C]	-	-	75

Status: Aug-14

ECG lifetime V 1.1

LE MK-EM T-ECG; Edition: V 1.1. Subject to change without notice.
Despite careful review, the possibility of mistakes cannot be excluded – no guaranty will be provided.



ECG lifetime according to IEC 60929

osram.com

QUICKTRONIC® FIT 5/8 – ECG for T5/16 mm and T8/26 mm lamps

ECG	Lamp		ECG ambient temperature (t _a)		
			40°C	50°C	60°C
QT-FIT5/8 1x18-39	1xHO 24W	lifetime [h]	100.000	70.000	40.000
		temperature at t _c -point [°C]	55	65	70
	1xHO 39W	lifetime [h]	100.000	60.000	30.000
		temperature at t _c -point [°C]	55	65	75
	1xL 18W	lifetime [h]	100.000	70.000	40.000
		temperature at t _c -point [°C]	55	65	70
	1xL 30W	lifetime [h]	100.000	70.000	40.000
		temperature at t _c -point [°C]	55	65	70
	1xL 36W	lifetime [h]	100.000	60.000	40.000
		temperature at t _c -point [°C]	55	65	75
QT-FIT5/8 1x54-58	1xHO 54W	lifetime [h]	100.000	80.000	50.000
		temperature at t _c -point [°C]	50	60	70
	1xL 58W	lifetime [h]	100.000	80.000	50.000
		temperature at t _c -point [°C]	50	60	70
QT-FIT5/8 2x18-39	2xHO 24W	lifetime [h]	100.000	70.000	40.000
		temperature at t _c -point [°C]	55	60	70
	2xHO 39W	lifetime [h]	70.000	40.000	x ^{*6}
		temperature at t _c -point [°C]	60	70	x ^{*6}
	2xL 18W	lifetime [h]	100.000	90.000	50.000
		temperature at t _c -point [°C]	50	60	70
	2xL 30W	lifetime [h]	100.000	60.000	40.000
		temperature at t _c -point [°C]	55	65	75
	2xL 36W	lifetime [h]	100.000	60.000	30.000
		temperature at t _c -point [°C]	55	65	75
QT-FIT5/8 2x54-58	2xHO 54W	lifetime [h]	60.000	30.000	x ^{*6}
		temperature at t _c -point [°C]	65	75	x ^{*6}
	2xL 58W	lifetime [h]	70.000	40.000	x ^{*6}
		temperature at t _c -point [°C]	65	70	x ^{*6}

*6

ECG	Lamp		ECG ambient temperature (t _a)		
			58°C		
QT-FIT5/8 2x18-39	2xHO 39W	lifetime [h]			30.000
		temperature at t _c -point [°C]			75

ECG	Lamp		ECG ambient temperature (t _a)		
			55°C		
QT-FIT5/8 2x54-58	2xHO 54W	lifetime [h]			30.000
		temperature at t _c -point [°C]			75
	2xL 58W	lifetime [h]			30.000
		temperature at t _c -point [°C]			75

Status: Aug-14

ECG lifetime V 1.1

LE MK-EM T-ECG; Edition: V 1.1. Subject to change without notice.
Despite careful review, the possibility of mistakes cannot be excluded – no guaranty will be provided.



ECG lifetime according to IEC 60929

osram.com

QUICKTRONIC® FIT 8 – ECG for T8/26 mm lamps

ECG	Lamp		ECG ambient temperature (t_a)		
			40°C	50°C	60°C
QT-FIT8 1x36	1xL 36W	lifetime [h]	100.000	100.000	70.000
		temperature at t_c -point [°C]	50	60	65
QT-FIT8 1x58-70	1xL 58W	lifetime [h]	100.000	100.000	60.000
		temperature at t_c -point [°C]	50	60	65
	1xL 70W	lifetime [h]	100.000	100.000	60.000
		temperature at t_c -point [°C]	50	60	70
QT-FIT8 2x36	2xL 36W	lifetime [h]	100.000	90.000	50.000
		temperature at t_c -point [°C]	55	60	70
QT-FIT8 2x58	2xL 58W	lifetime [h]	100.000	60.000	x
		temperature at t_c -point [°C]	60	65	x
QT-FIT8 3x18, 4x18	3xL 18W	lifetime [h]	100.000	100.000	60.000
		temperature at t_c -point [°C]	50	60	65
	4xL 18W	lifetime [h]	100.000	90.000	50.000
		temperature at t_c -point [°C]	55	60	70

QUICKTRONIC® QTz8 – ECG for T8/26 mm lamps

ECG	Lamp		ECG ambient temperature (t_a)		
			40°C	50°C	60°C
QTz8 2x36	2xL 36W	lifetime [h]	100.000	80.000	50.000
		temperature at t_c -point [°C]	60	70	75

QUICKTRONIC® PROFESSIONAL – ECG for CFL

ECG	Lamp		ECG ambient temperature (t_a)		
			40°C	50°C	60°C
QTP-T/E 1x18, 2x18	2xDULUX T/E 18W	lifetime [h]	100.000	100.000	60.000
		temperature at t_c -point [°C]	55	65	70
QTP-T/E 1x26-42, 2x26	1xDULUX T/E 26W	lifetime [h]	100.000	100.000	60.000
		temperature at t_c -point [°C]	55	65	70
	1xDULUX T/E 42W	lifetime [h]	100.000	100.000	60.000
		temperature at t_c -point [°C]	55	65	75
	2xDULUX T/E 26W	lifetime [h]	100.000	80.000	50.000
		temperature at t_c -point [°C]	60	70	75

ECG lifetime according to IEC 60929

osram.com

QUICKTRONIC® ECONOMIC – ECG for CFL

ECG	Lamp		ECG ambient temperature (t_a)		
			40°C	50°C	60°C
QT-ECO 2x5-11	2xDulux S/E 11W	lifetime [h]	100.000	50.000	30.000
		temperature at t_c -point [°C]	60	65	75

Status: Aug-14

ECG lifetime V 1.1

LE MK-EM T-ECG; Edition: V 1.1. Subject to change without notice.
Despite careful review, the possibility of mistakes cannot be excluded – no guaranty will be provided.

