

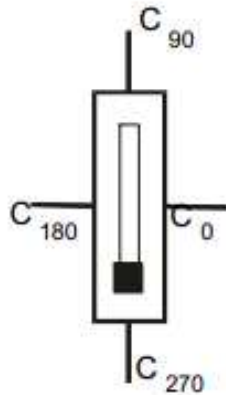
Photometric measurements, Catherina^S June 2012

Measurement conditions:

meas. date 1.7.2012
ambient temperature = 25,0 °C
Fixture Temperature = 50°C
Voltage = 230,0 V
Current = 0,1125 A
Power consumption 10,94 VA

Note:

Used: ac-dc power adapter: Sunny
Model: SYS1381-1224-W2E



Measurement results:

flux of luminaire 549,5 lm
Efficiency: 50,22 lm/W
Efficacy: 47 lm /W
lower flux fraction 95,45 %
upper flux fraction 4,55 %
intensity maximum 312,6 cd/klm
in C-plane 175,0 °
at gamma 5,0 °
half value angle C₀ : 59,9 °
C₉₀ : 59,9 °
C₁₈₀ : 59,0 °
C₂₇₀ : 58,7 °
tenth value angle C₀ : 84,0 °
C₉₀ : 84,6 °
C₁₈₀ : 84,0 °
C₂₇₀ : 85,3 °

Fixture Data:

Name: Catherina^S
Producer: FuturoLighting
Light source: OSRAM Duris E5, module
Length: 420 mm
width: 50 mm
Height: 16 mm



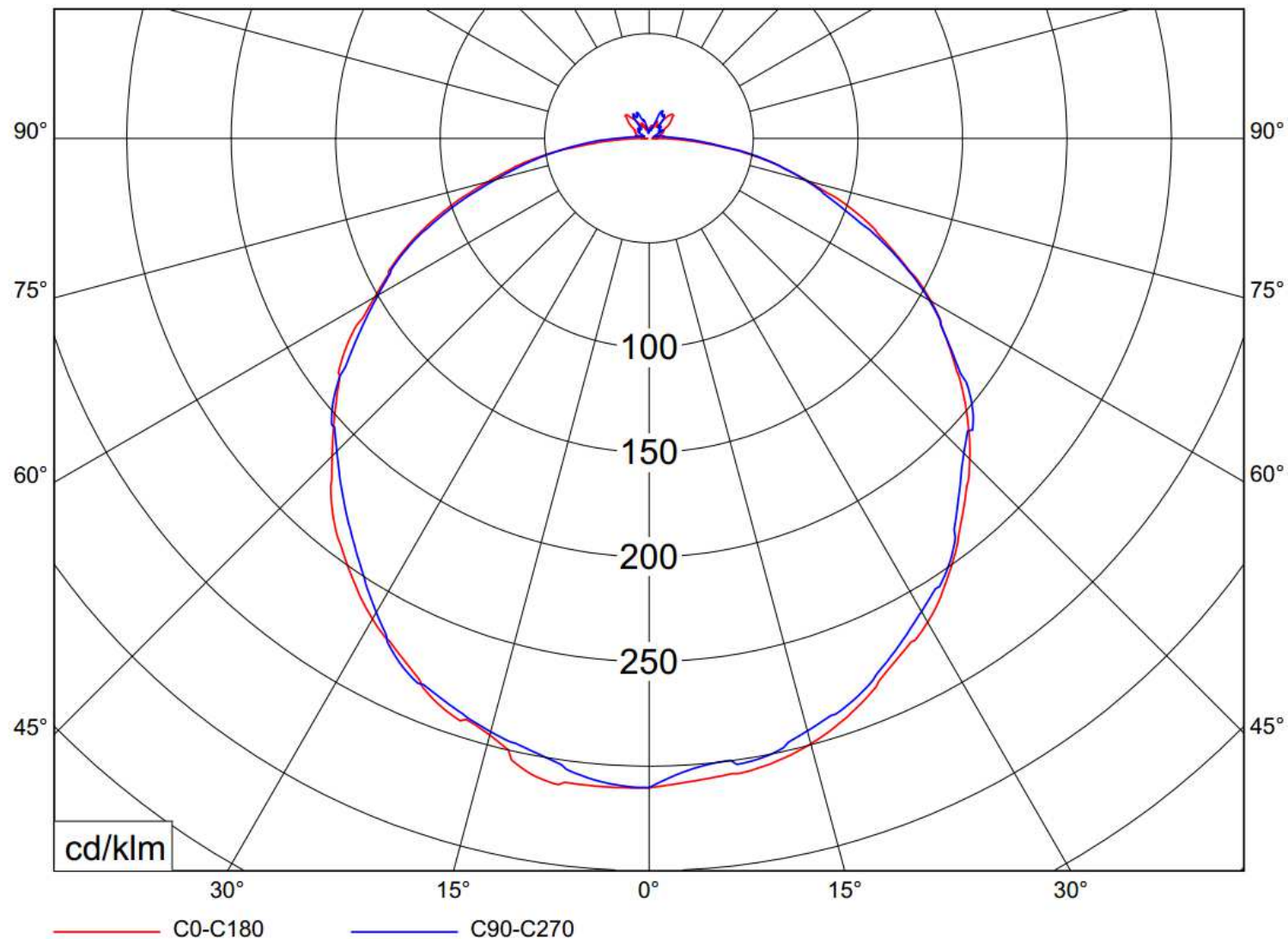
**Futuro
Lighting**

FuturoLighting Ltd.
Headquarter Address: N. Teslu 5,
92101 Piestany, Slovakia

Company Identification Number: 45 981 809
VAT: SK2023166783
Bank: IBAN: SK63 1100 0000 0029 2984 9547
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Photometric measurements, Catherina^S intensity distribution / polar



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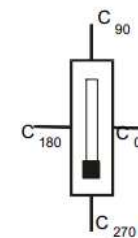
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Photometric measurements, Catherina^S cone diagram

distance [m]	cone diameter [m]	E [lx]	
1,0	3,45	E(0°)	171
		E(C0) 59,9°	43
2,0	6,90	E(0°)	43
		E(C0) 59,9°	11
3,0	10,35	E(0°)	19
		E(C0) 59,9°	5
4,0	13,80	E(0°)	11
		E(C0) 59,9°	3
5,0	17,25	E(0°)	7
		E(C0) 59,9°	2

half value angle 119,8°



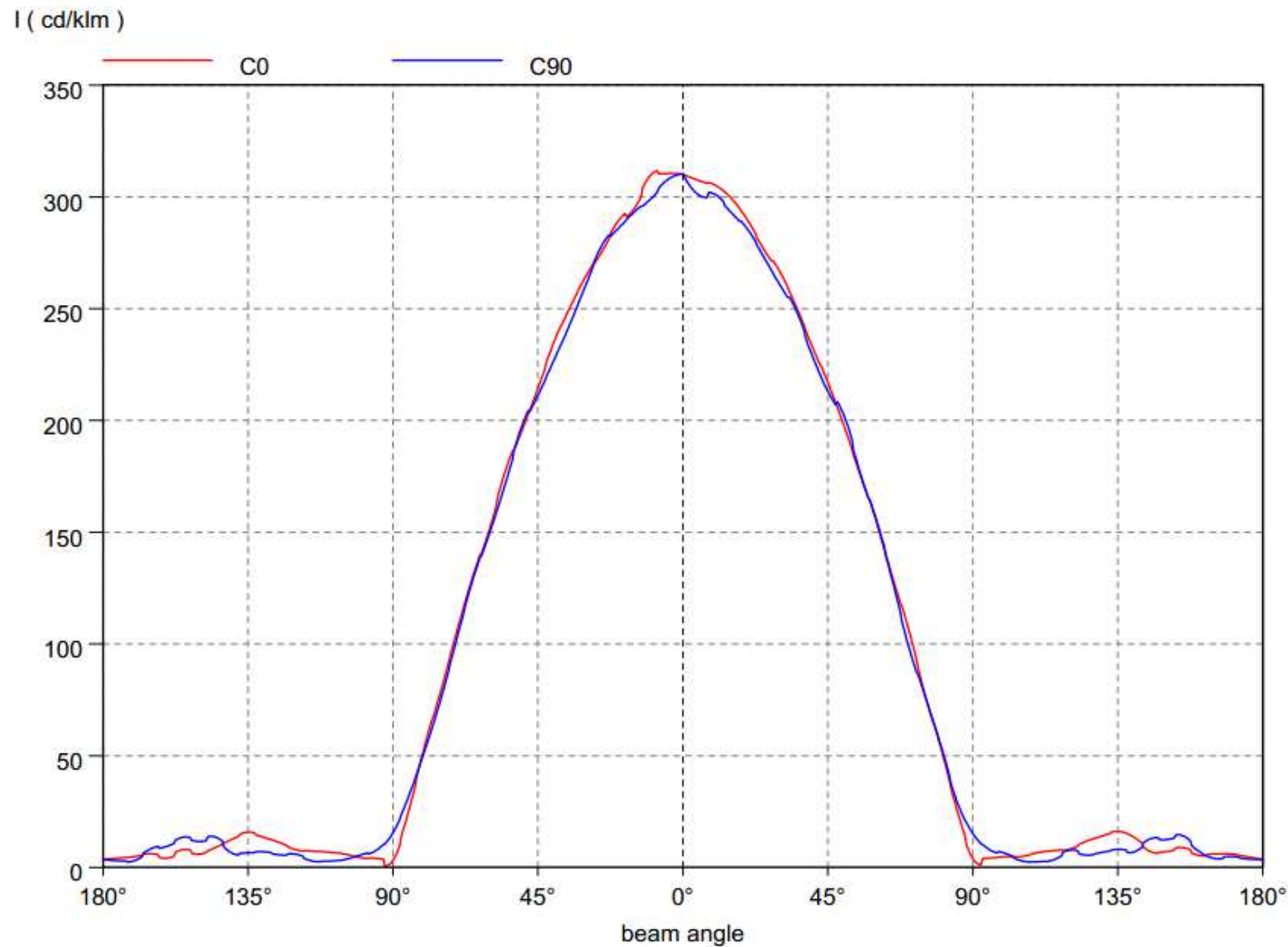
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Photometric measurements, Catherina^S intensity distribution / cartesian



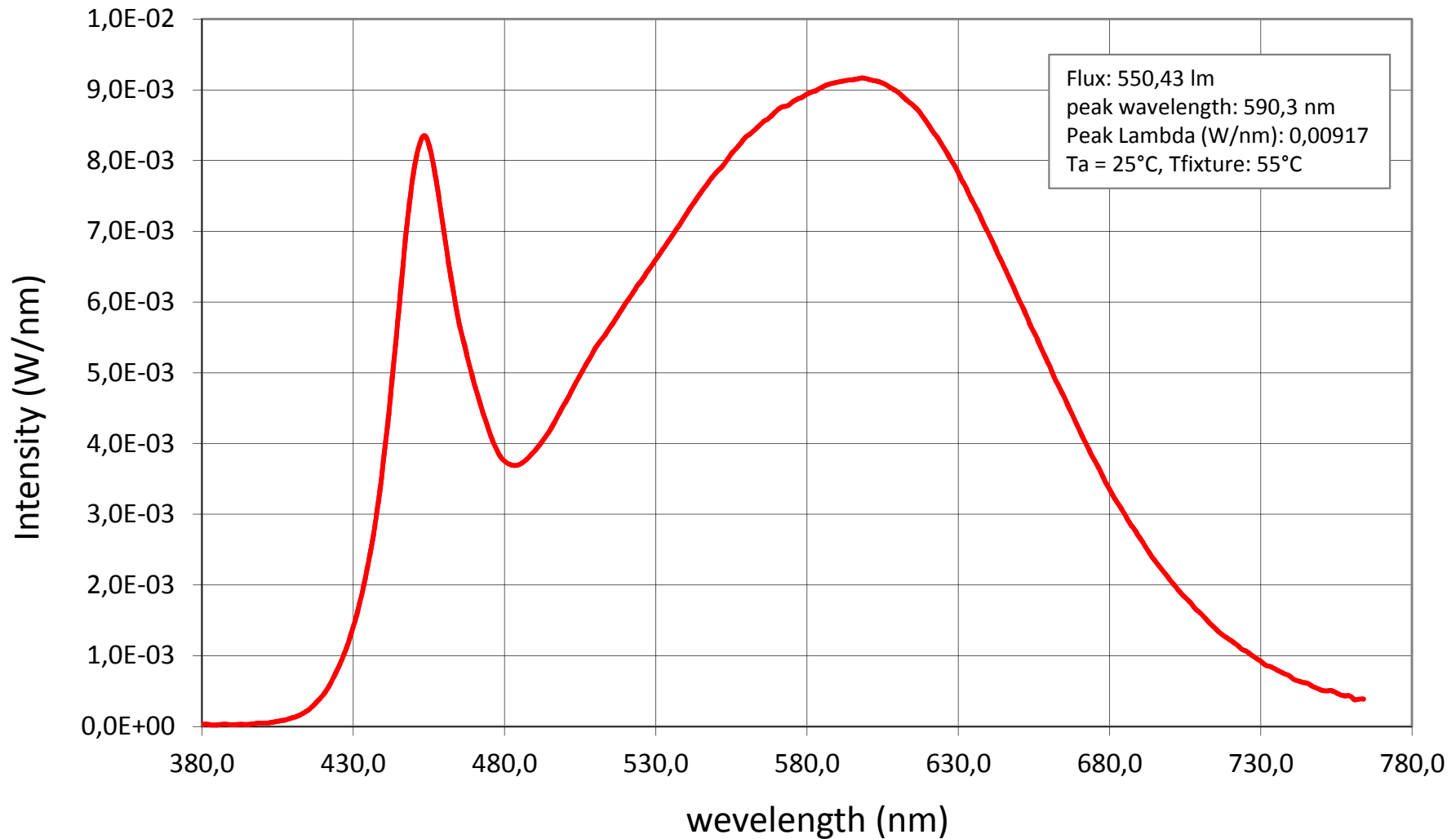
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Photometric measurements, Catherina^S Spectral Power Distribution (SPD)



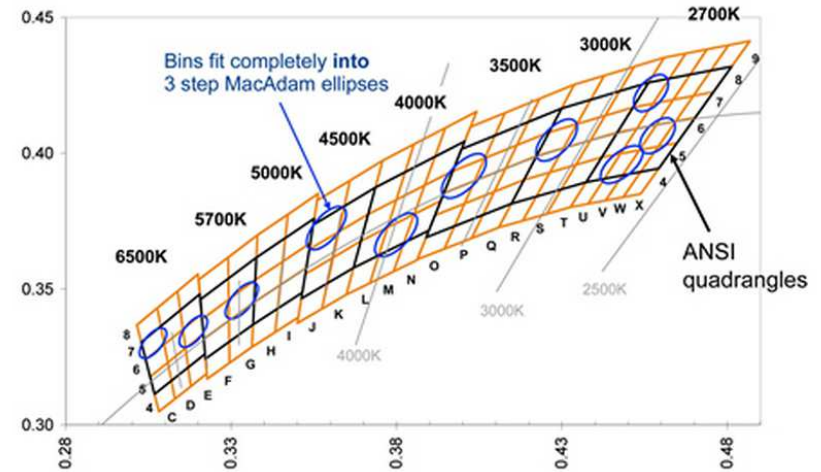
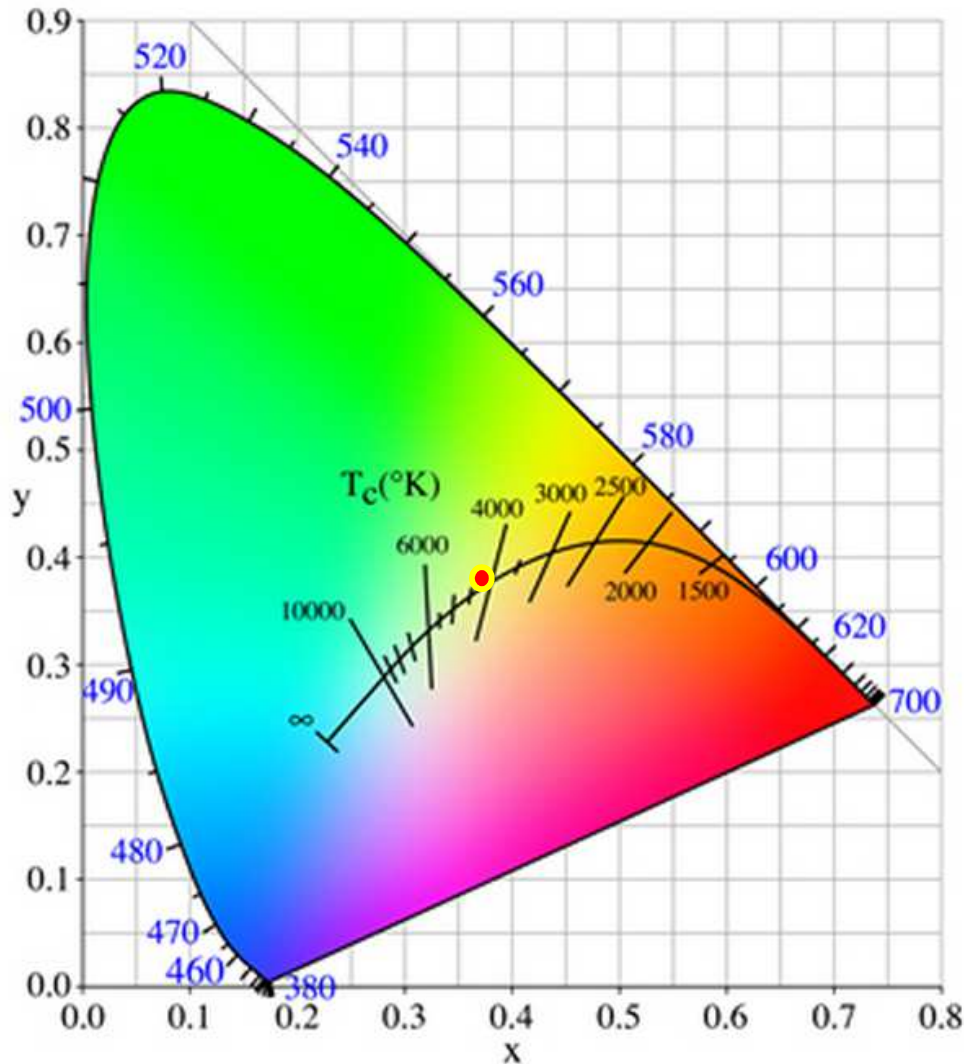
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Photometric measurements, Catherina^S CIE 1931 x, y Chromaticity Diagram



T[K]	3890
x	0,3862
y	0,3827
u	0,2265
v	0,5051
X	0,8132
Y	0,8059
Z	0,4865

Ra	86,1
R1	84,7
R2	92,0
R3	96,3
R4	83,3
R5	84,0
R6	87,2
R7	89,0
R8	72,2
R9	30,9
R10	79,8
R11	81,1
R12	65,6
R13	86,6
R14	98,0

CRI = 86,1



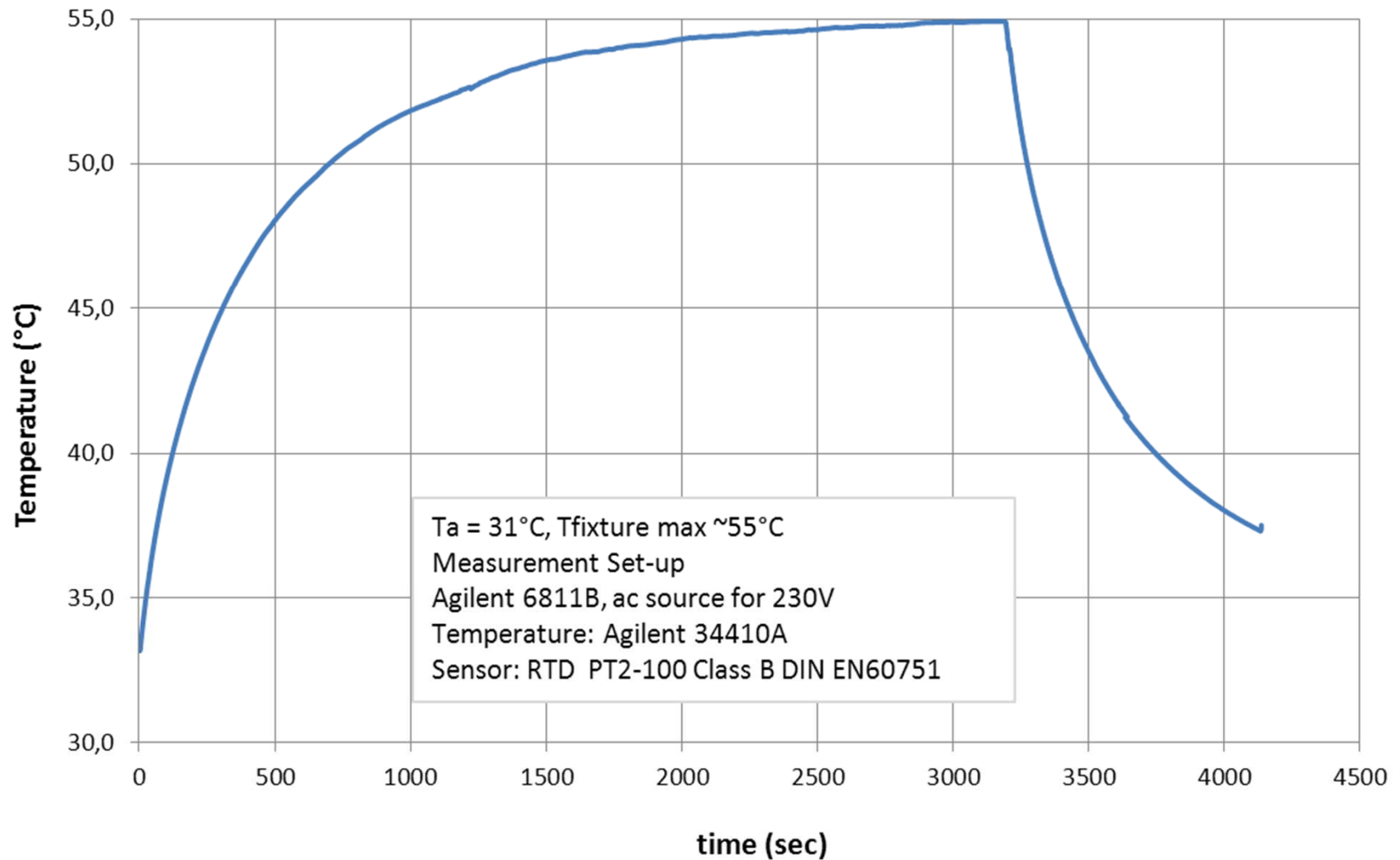
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Photometric measurements, Catherina^S Thermal behavior



Estimation:
T_{fixture} max ≤ 60°C @ Ta max = 35°C



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