

# Photometric measurements, Catherina August 2012

**Measurement conditions:**

meas. date 1.8.2012  
ambient temperature = 25,0 °C  
Fixture Temperature = 42°C  
Voltage = 230,0 V  
Current = 0,126 A  
Power consumption 12,59 VA

**Note:**

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

**DC:**

Voltage = 24,0 VDC  
Current = 0,434 ADC  
DC Power = 10,416 W

**Measurement results:**

flux of luminaire 661 lm  
(Sphere integrator)  
Efficiency: 52,5 lm/W  
Efficacy: 63,4 lm /W \*

**Fixture Data:**

Name: Catherina  
Producer: FuturoLighting  
Light source: Cree ML-E, module  
Length: 840 mm  
width: 50 mm  
Height: 16 mm



\* DC supply

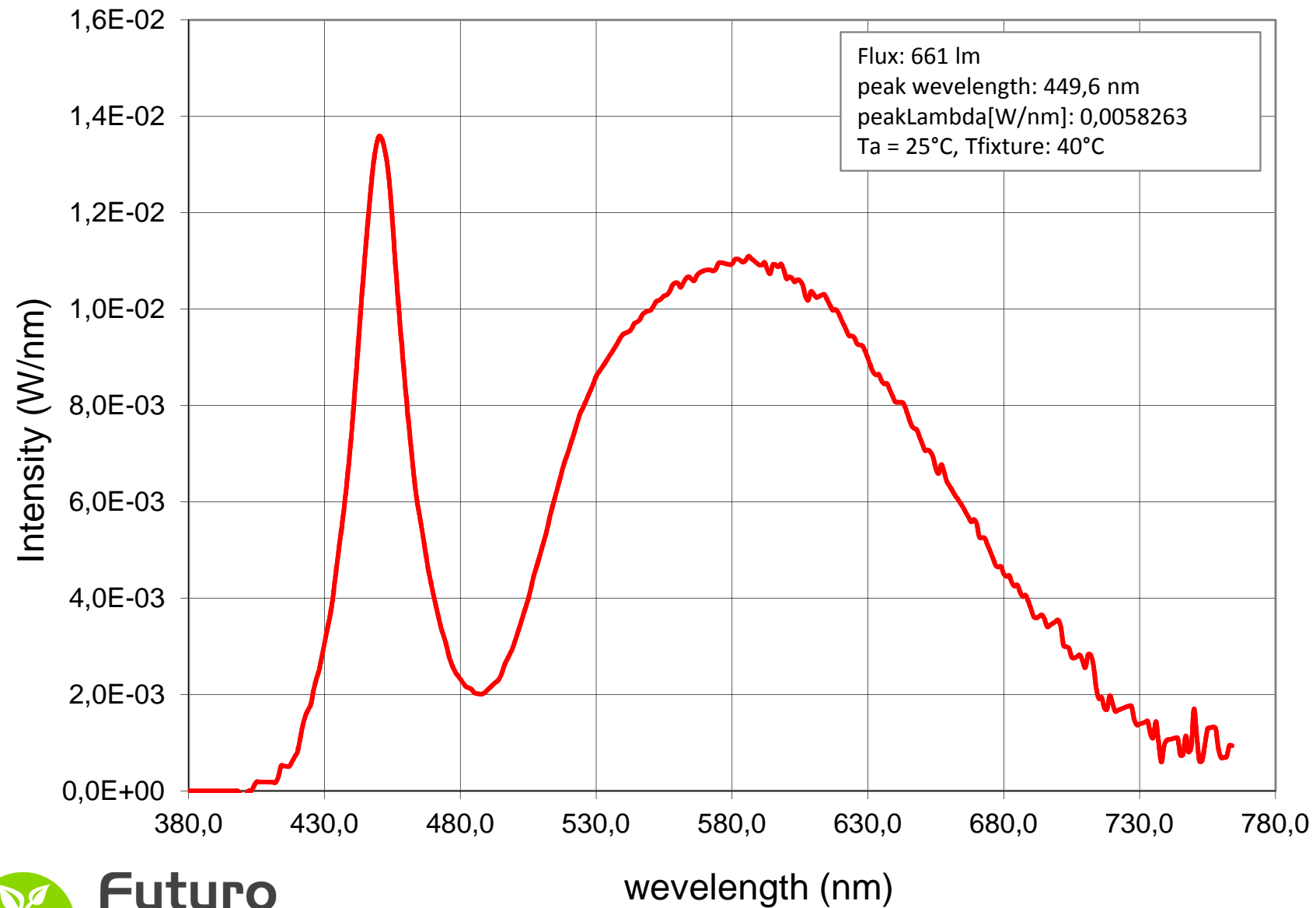


**FuturoLighting Ltd.**  
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## Photometric measurements, Catherina Spectral Power Distribution (SPD)



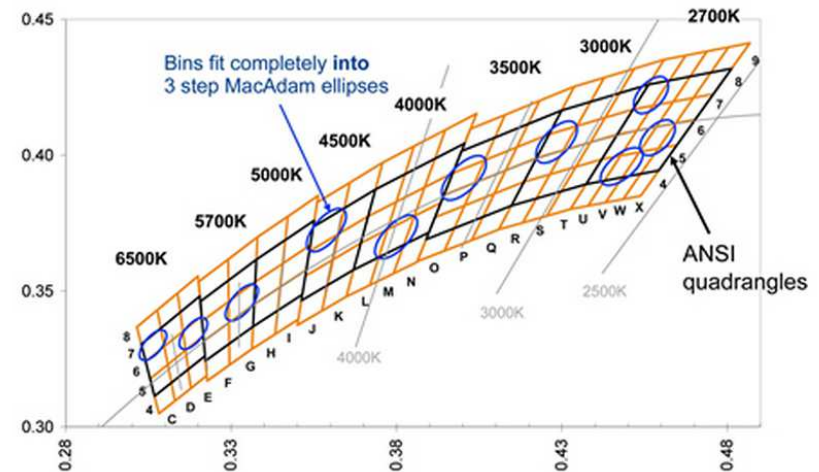
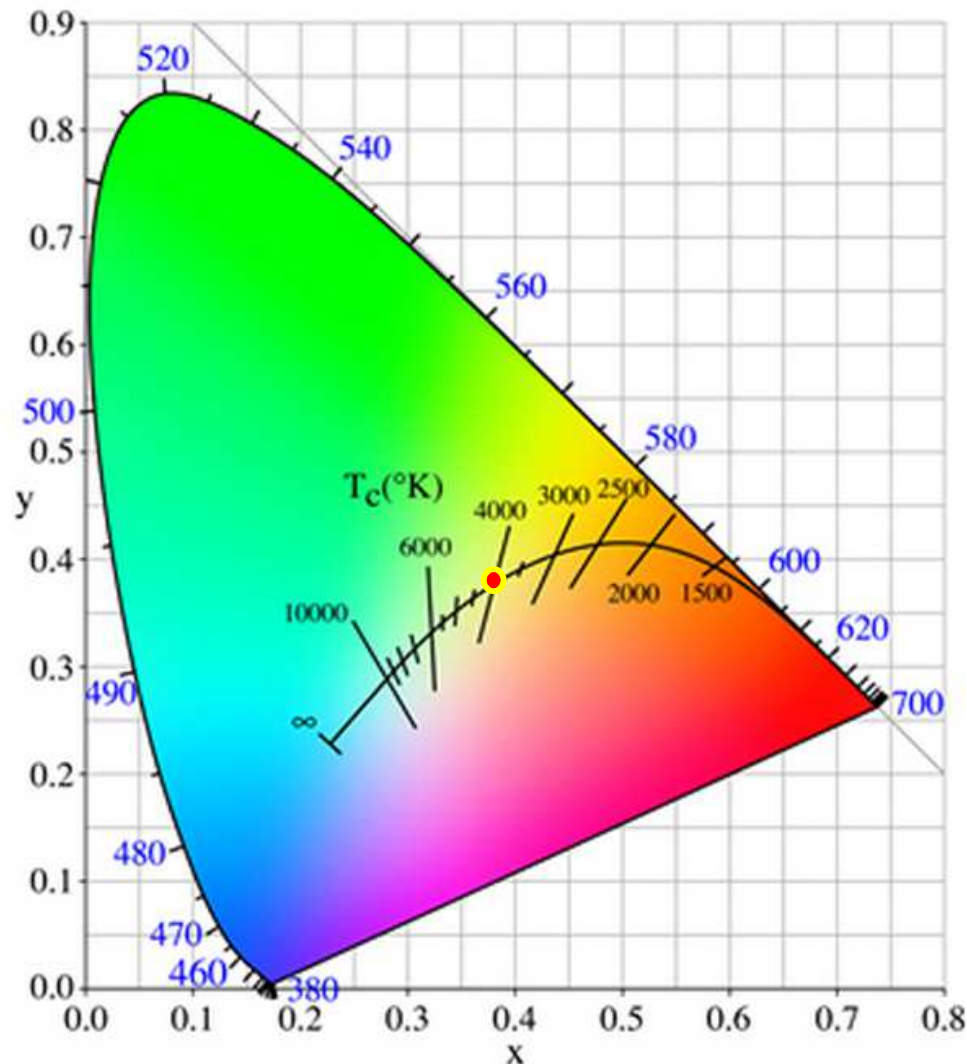
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# Photometric measurements, Catherina<sup>S</sup> CIE 1931 x, y Chromaticity Diagram



T[K]	3964
x	0,3791
y	0,3675
u	0,2280
v	0,4972
X	0,3329
Y	0,3226
Z	0,2224

Ra	80,0
R1	80,0
R2	84,5
R3	85,0
R4	79,5
R5	78,1
R6	74,9
R7	86,7
R8	71,6
R9	24,7
R10	60,1
R11	74,6
R12	49,1
R13	80,5
R14	91,2

CRI = 80,0



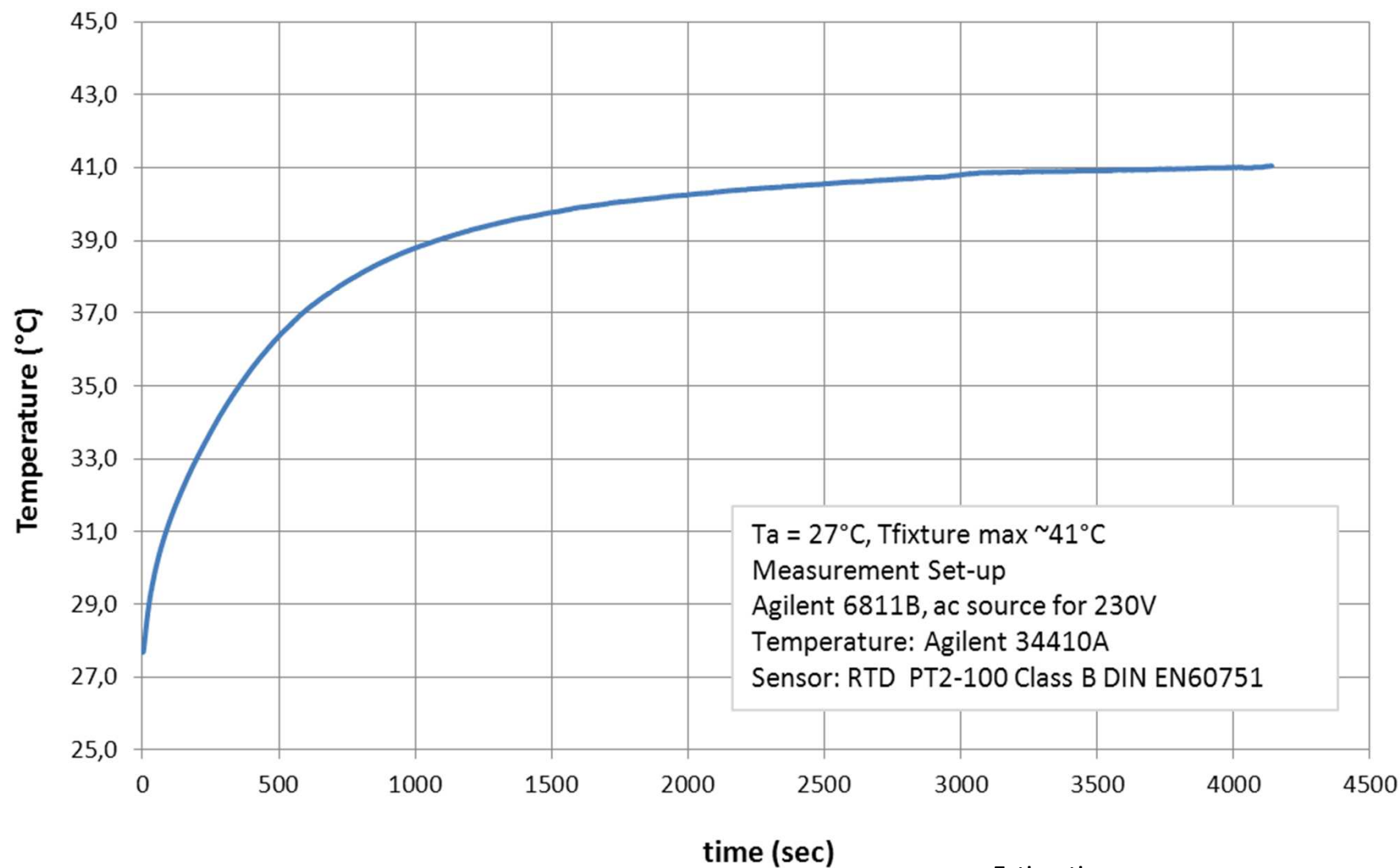
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## Thermal measurement, Catherina



Estimation:  
T fixture max ≤ 50°C @ Ta max = 35°C



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