



# Photobiological Safety of Lamps and Lamp Systems - Classification Summary

[EN62471]

## LS1368

### 1. Product Details

Product LS1368  
Source Type LED  
Source Model XTM19954020CCA  
Serial Number  
Applicable Standard EN62471  
GLS/ non-GLS assessment: Non-GLS

### 2. Measurement Conditions

Measurement System Bentham IDR300-PSL 200-3000nm  
Operating Conditions 240V  
Measurement Distance 200 mm  
Source Dimensions 20 x 20 mm  
Average angular subtense 99.9 mrad

### 3. Measurement Laboratory Details

Company: LIA Laboratories  
Address: Stafford Park 7, Telford, Shropshire TF3 3BQ



### 4. Client Details

Company: Xicato  
Address: 101 Duggett Drive, San Jose, CA95134, USA

### 5. Resulting EN62471 Classification and Labelling

Hazard	Risk Group
Actinic UV	<b>Exempt</b>
Near UV	<b>Exempt</b>
Blue Light	<b>Group 1</b>

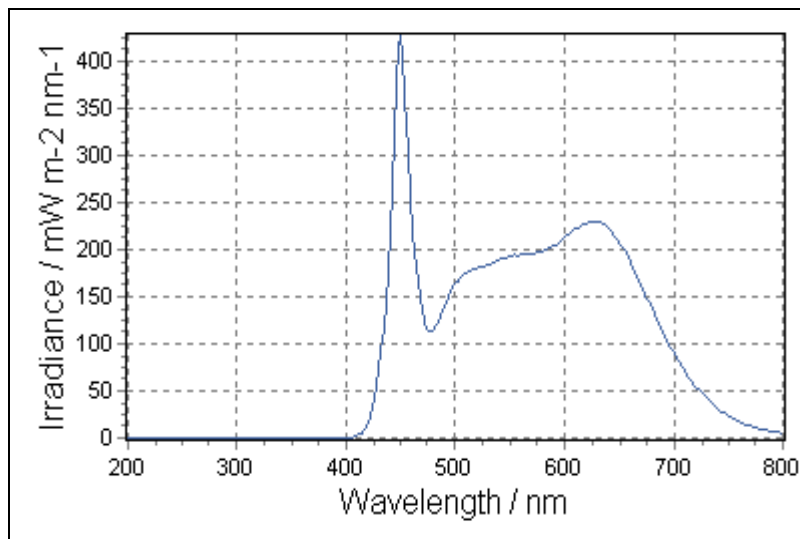
<b>Risk Group 1</b>
<i>Product tested against EN62471</i>

DATE OF TEST	TESTED BY	APPROVED BY
14-07-2014	C.Loveitt	K.Govinden
		

## 6. Irradiance Results

Measurement distance: 200 mm  
Spectral Range 200 - 1100 nm

Hazard	Measured value	Resulting risk group	Risk group limit value	Time to exposure limit (s)
Actinic UV ( $mW m^{-2}$ )	3.38E-03	<b>Exempt</b>	1	> 30000
Near UVA ( $W m^{-2}$ )	1.08E-03	<b>Exempt</b>	10	> 30000
Blue Light Small Source ( $W m^{-2}$ )	n/a	n/a	n/a	n/a
IR Eye ( $W m^{-2}$ )	n/a	n/a	n/a	n/a
Thermal Skin ( $W m^{-2}$ )	n/a	n/a	n/a	n/a





## 7. Radiance Results

Measurement distance: 200 mm  
Spectral Range 200 - 1100 nm  
Luminance in 11 mrad n/a  $\text{cd m}^{-2}$

Hazard	Measured value ( $\text{W sr}^{-1} \text{m}^{-2}$ )	Risk group limit value ( $\text{W sr}^{-1} \text{m}^{-2}$ )	Risk group tested	Pass/Fail
Blue light hazard 100mrad FOV	1.41E+03	100	Exempt	<b>Fail</b>
Blue light hazard 11mrad FOV	5.23E+02	1E+04	Group 1	<b>Pass</b>
Blue light hazard 1.7mrad FOV	n/a	n/a	Group 2	n/a
Retinal Thermal 11mrad FOV	n/a	n/a	Exempt	n/a
Retinal Thermal 1.7mrad FOV	n/a	n/a	Group 2	n/a
Retinal Thermal Weak Visual 35mrad FOV	n/a	n/a	Exempt	n/a
Retinal Thermal Weak Visual 11mrad FOV	n/a	n/a	Group 1	n/a