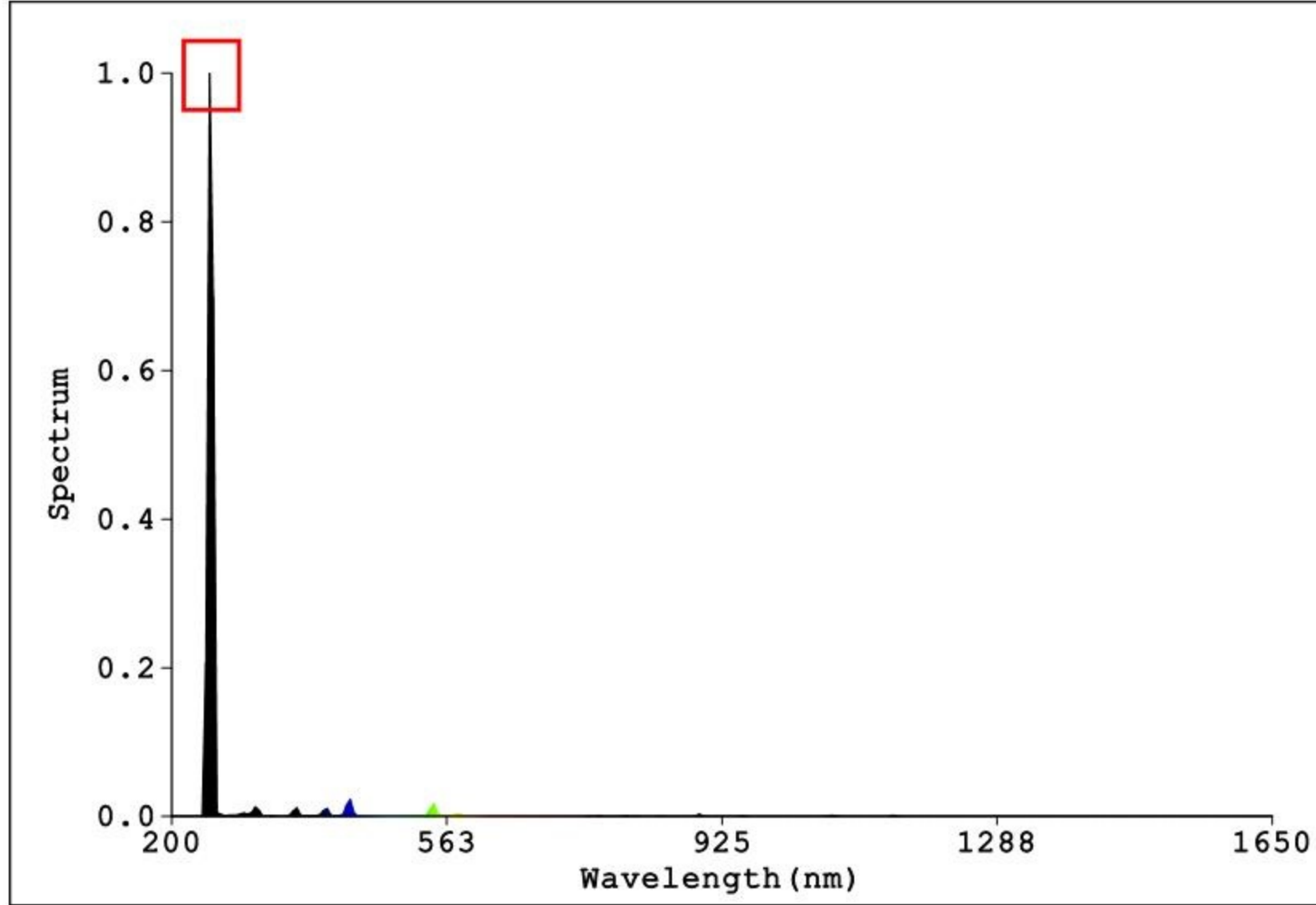


Radiation Photobiological Safety Report

Model : **LX-UVCDL36**
 Number : PDG200717001-1K
 Manufacturer: Luxglo
 Tester : Will Wang *Will.Wang*
 Date : 2020-07-20

Instrument : OST-300(EVERFINE)
 Temperature : 26.1deg
 RH : 28%
 Remarks : IEC 62471:2006
 B(L) & R(L)



LB RFOV (mrad)	Measured (W/m2/sr)	Limit (W/m2/sr)
100(Exempt Risk Group)	2.657e0	1.000e2
11(Risk Group 1)	5.915e0	1.000e4
1.7(Risk Group 2)	5.995e0	4.000e6
LR RFOV (mrad)	Measured (W/m2/sr)	Limit (W/m2/sr)
11(Exempt Risk Group)	6.293e1	2.800e5
11(Risk Group 1)	6.293e1	2.800e5
1.7(Risk Group 2)	6.378e1	7.100e5

Color Parameters:

Chromaticity Coordinate: $x=0.2230$ $y=0.2602$ $u'=0.1571$ $v'=0.4125$ $Tc=50080K$

Dominant WL: $Ld=482.6nm$ **Peak WL: $Lp=250.0nm$** Purity=43.5% Red Ratio: $R=0.4\%$

Render Index: $Ra=11.2$ FWHM=9.6nm

R1 = -2 R2 = 14 R3 = -2 R4 = 4 R5 = 18 R6 = 6 R7 = 37
 R8 = 14 R9 = -274 R10 = -117 R11 = -7 R12 = -15 R13 = -3 R14 = 36 R15 = -3

Photo Parameters(CX Condition:Muti Test):

Distance = 200.0mm

Alpha = 0.1000rad

$E = 238.8lx$ UV Ratio = 77272.7 mW/m2/klx

$E_s = 8.191e0 W/m^2$ * $T_{max_Es} = 4s$

$E_b = 4.763e-1 W/m^2$ T_{max} is not needed

$E_{uva} = 3.273e-1 W/m^2$ $T_{max_Euva} > 1000s$

$E_{ir} = 6.863e0 W/m^2$ $T_{max_Eir} > 1000s$

$E_h = 8.247e0 W/m^2$ $T_{max_Eh} > 10s$

LB(1.7mrad) = 5.995e0 W/m2/Sr $T_{max_LB} > 10000s$

LR(1.7mrad) = 6.378e1 W/m2/sr $T_{max_LR} > 10s$

$L_{ir} = 7.942e-2 W/m^2/Sr$ (T_{max} is not needed)

Result:

Lamp Type: Risk Group 3

Additional Parameters:

Euva Euva: 399.83 mW/m²

Euvb Euvb: 365.24 mW/m²

Euvc Euvc: 17774 mW/m²

Euva_eff Euva_eff: 0.25581 mW/m²

Euvb_eff Euvb_eff: 74.789 mW/m²

Euvc_eff Euvc_eff: 8127.6 mW/m²