

Photometric Test Report



StudioCob PlusUV

IP65 UV COB parled with interchangeable
optical system

CONTENTS

| | |
|-------------------|---|
| Table of contents | 2 |
| Testing process | 3 |
| Preset Full on | 4 |

TESTING PROCESS

Prolights has its own optical testing laboratory in order to provide accurate photometric reports for its lighting products. The testing laboratory contains certain variety of precise lighting measurement systems that ensure an optimal reading of all the characteristic parameters of the lighting devices. All measurements are made at a controlled room temperature of 20°C without any external light sources. This photometric report is obtained through the data measured by a high precision measurement system and analyzed by a dedicate software.

Prolights measurement instrument

Prolights measurement instrument is a complete measurement system for any light source. It's equipped with two-axis goniometer, that enables to measure the full 3D distribution field of the light source. This instrument measures the light intensity, the beam angle and the most significative colors parameters, like color temperature, spectral distribution, CRI, CQS, TM-30 with a very high accuracy rate.

Please Note: All measurements are made with light source at operating temperature. Before starting the measurement, the instrument analyzes the process of the light source during the heating phase. The measuring process of all the parameters begins only when the light emission is stable, that is with a variation of less than 0.5% in a 15 minutes time frame.

Prolights measurement software

The software provides user friendly interface for the operator who does the measurements, and it also analyzes and processes all the collected data by the instrument. With this software it is possible to see the measured data in real-time and it is possible to examine all the measured data and graphics afterwards as well. All information is collected in a specific Prolights template, and the software creates also IES and LDT files, which are widely used to transfer the photometric data, and to develop lighting system.

Additionally, the fixtures are rechecked using various hand-held instruments like Sekonic C-7000 and Gossen Mavospec Base, this is done to ensure, that the data in the photometric report are as accurate as possible.



Total lumen output:

6,72 lm

Peak candela output:

39,8 cd

PRODUCT NAME:
STUDIOCOBPLUSUV

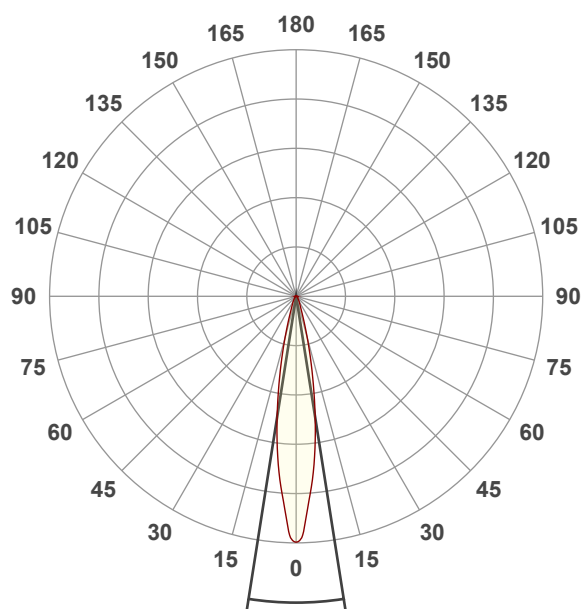
MEASURAMENT CONDITIONS:

Beam angle:
Full On

Target:
Paolo Carvone

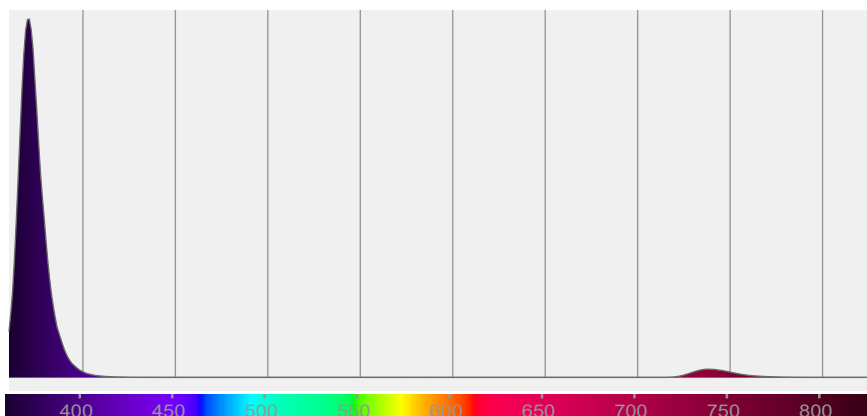
Operator:

Date and time:
16/01/2023 15:21:30



Beam angle 50%: 17,9°
Field angle 10%: 35,4°
Cut off angle 2.5%: 59°

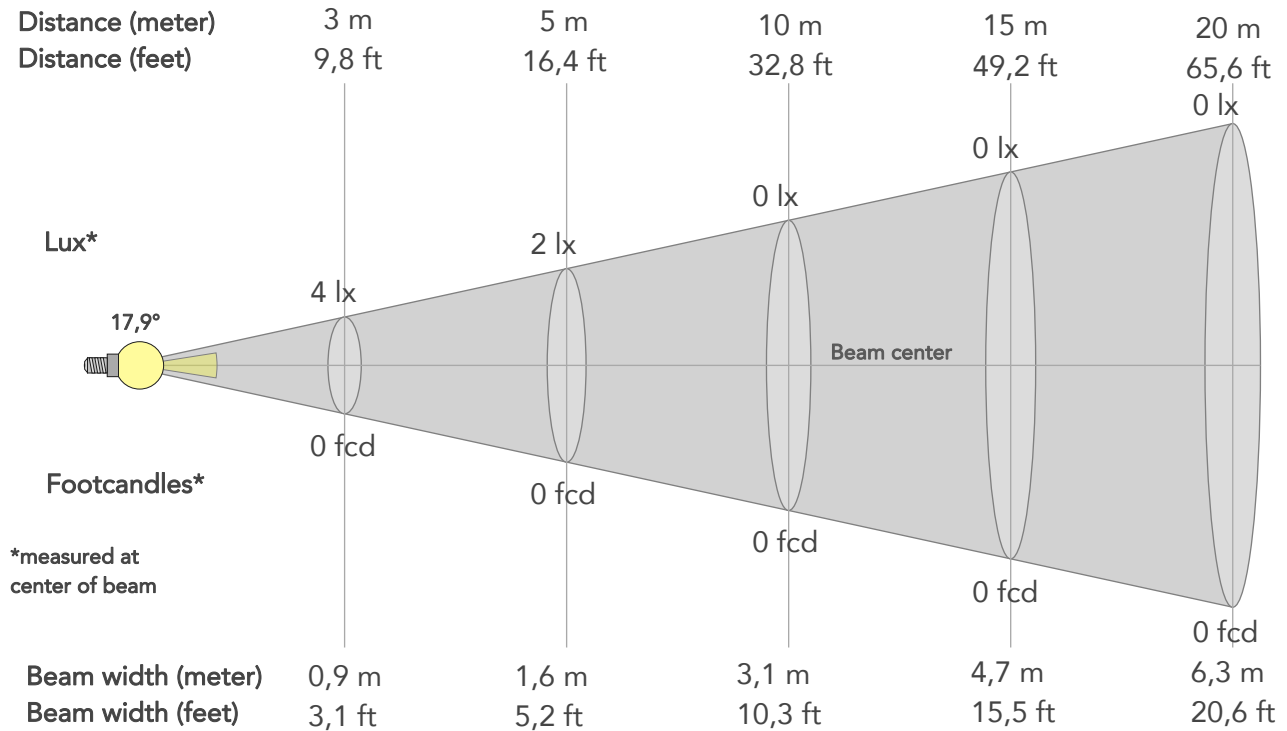
Spectra



BEAM DETAILS



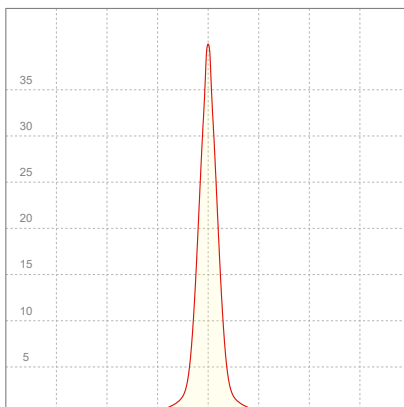
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 17,9° | 35,4° | 59° | 89,4% | 85,3% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 40lx | 10lx | 4lx | 2lx | 2lx | 1lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx |
| Footcand. | 4fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,3m | 0,6m | 0,9m | 1,3m | 1,6m | 2,4m | 3,1m | 4,7m | 6,3m | 7,9m | 9,4m | 12,6m | 15,7m |
| Beam wid. | 1ft | 2,1ft | 3,1ft | 4,1ft | 5,2ft | 7,7ft | 10,3ft | 15,5ft | 20,6ft | 25,8ft | 30,9ft | 41,3ft | 51,6ft |

LINEAR DISTRIBUTION DIAGRAM

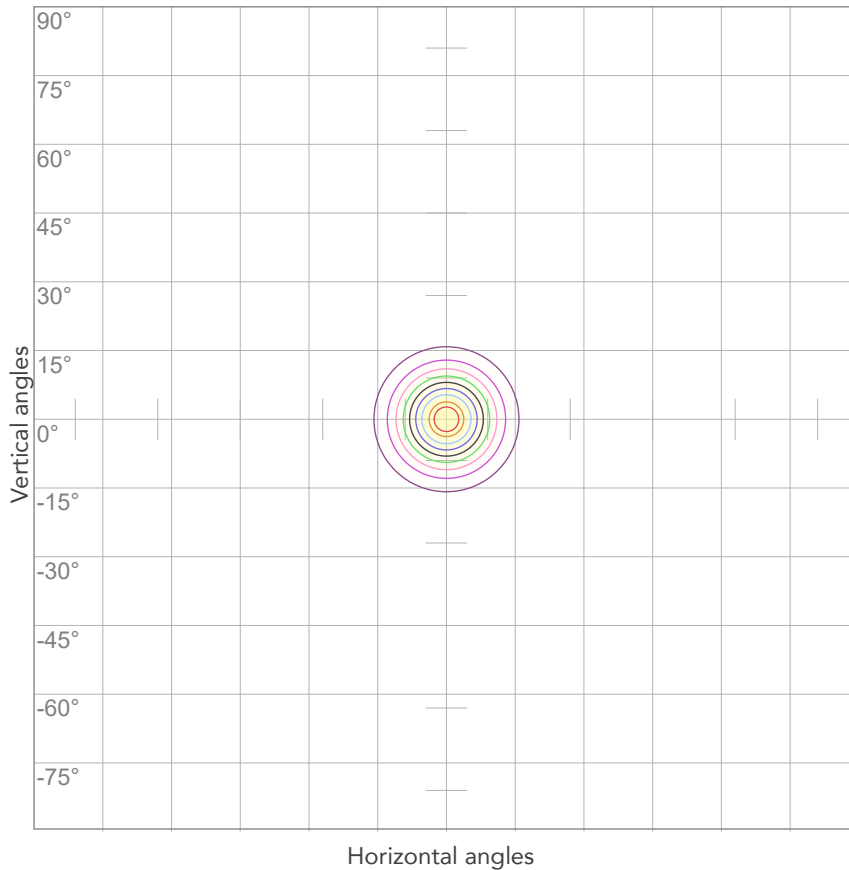


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 224V | 0,646A | 138,8W | 0lm/W |

| Power FC |
|----------|
| 0,96 |

ISO CANDELA DIAGRAM



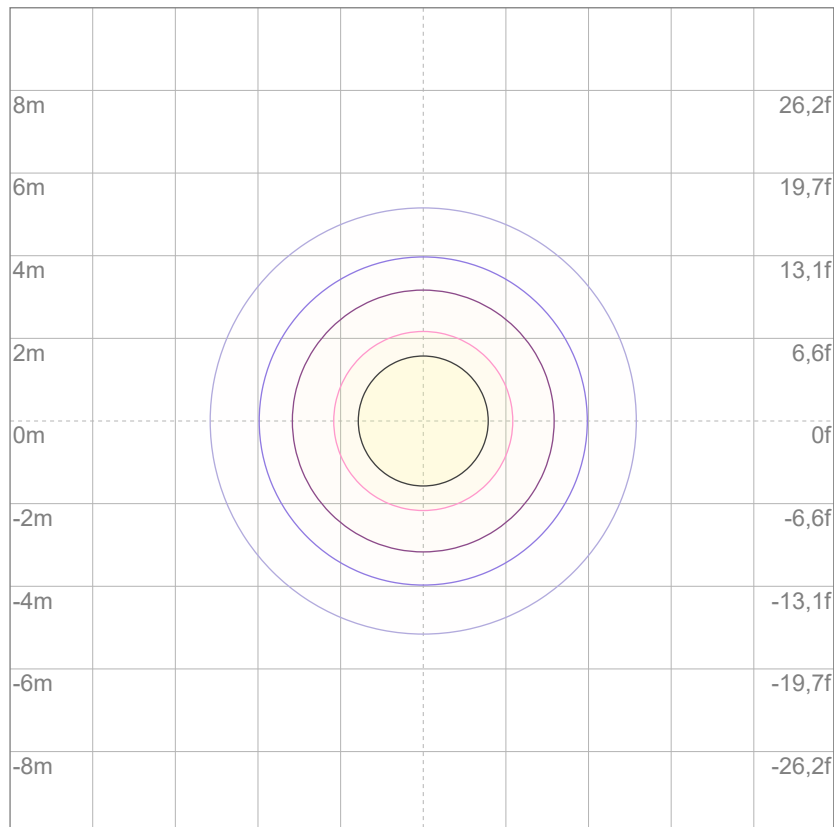
| | |
|-----|-------|
| 10% | 4 cd |
| 20% | 8 cd |
| 30% | 12 cd |
| 40% | 16 cd |
| 50% | 20 cd |
| 60% | 24 cd |
| 70% | 28 cd |
| 80% | 32 cd |

Conditions:

Number of c-planes: 2

Candela at center: 40 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

| | |
|-----|----------|
| 3% | 11,9m lx |
| 5% | 19,9m lx |
| 10% | 39,8m lx |
| 30% | 0,119 lx |
| 50% | 0,199 lx |

Conditions:

Number of c-planes: 2

Lux at center: 0,398 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.