

Photometric Test Report



StudioCob PlusUV

IP65 UV COB parled with interchangeable optical system

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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

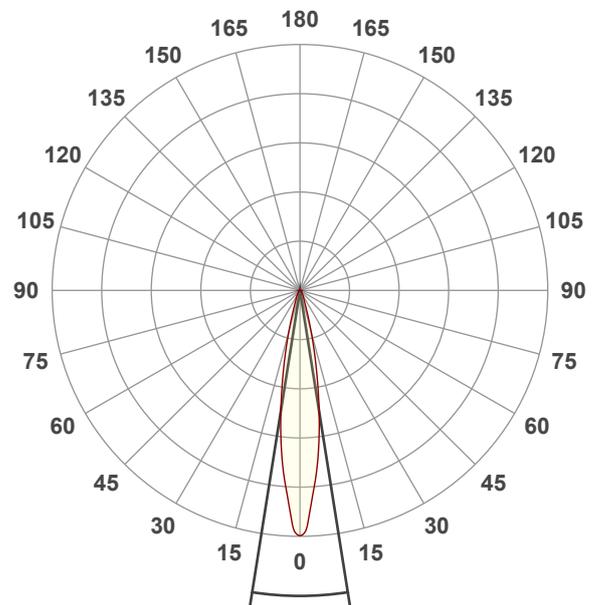
MEASURAMENT CONDITIONS:

Beam angle:
Full On

Target:
Paolo Carvone

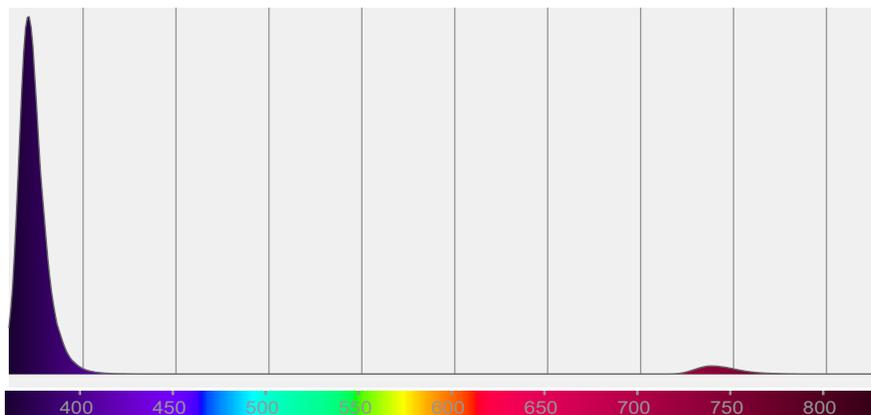
Operator:

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°

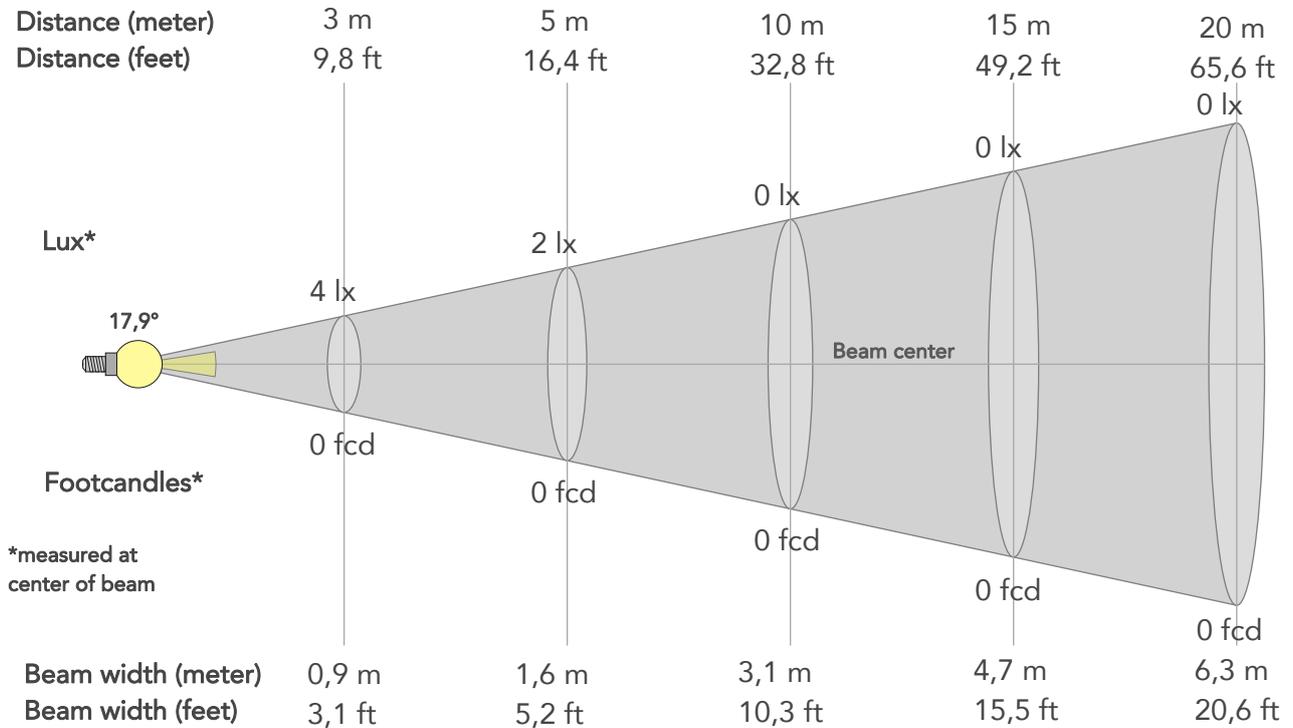
Spectra



BEAM DETAILS



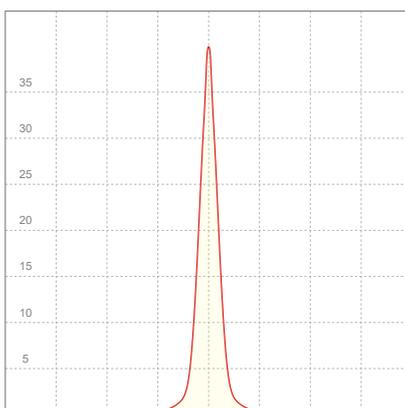
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,9°	35,4°	59°	89,4%	85,3%



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

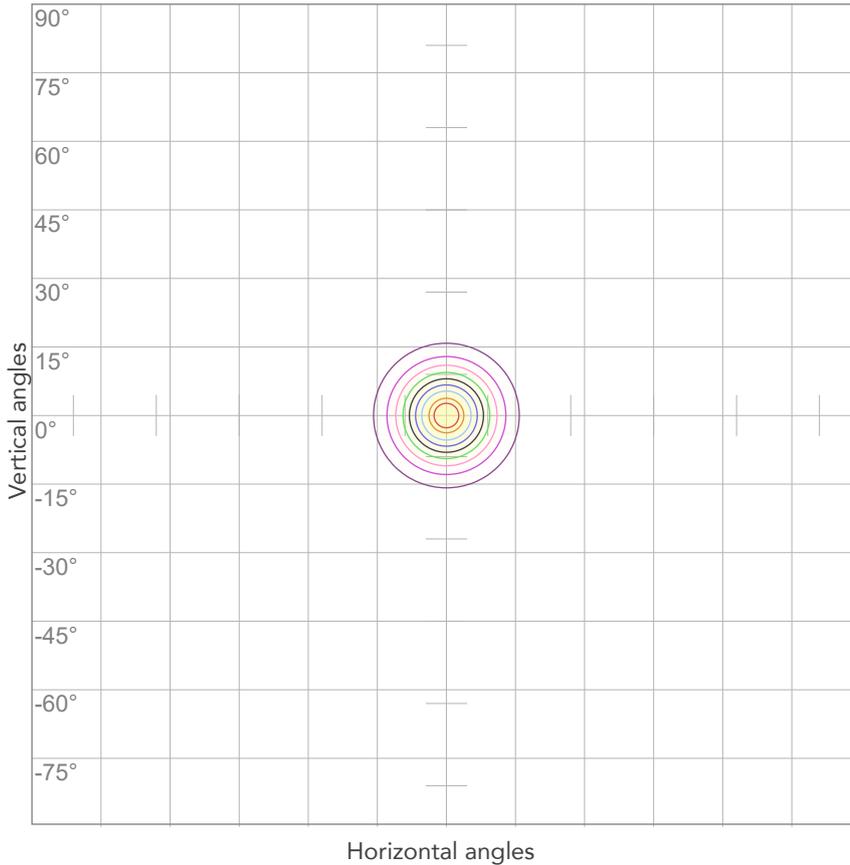


ELECTRICAL SPECIFICATIONS

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

Power FC
0,96

ISO CANDELA DIAGRAM



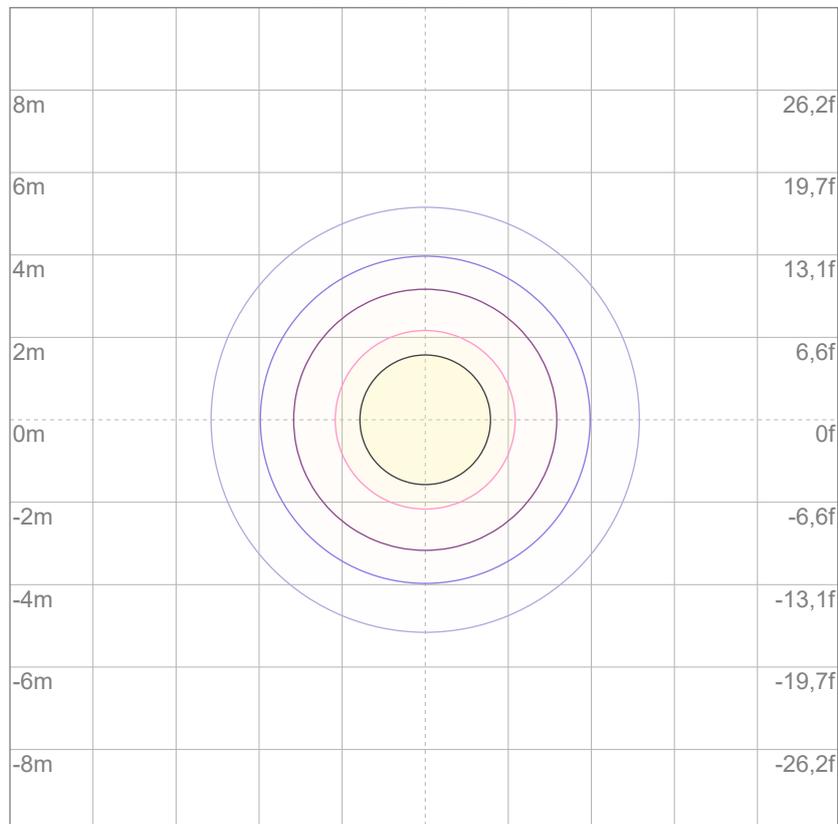
10%	4 cd
20%	8 cd
30%	12 cd
40%	16 cd
50%	20 cd
60%	24 cd
70%	28 cd
80%	32 cd

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.