Photometric Test Report

EclPar IPMUV

80W IP65 UV (365nm) single source
LED PAR, 40°

CONTENTS

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-700 and Gossen Mavospec Base, this is done to ensure, that the data in the photometric report are as accurate as possible.

Total lumen output:

0,471 lm

Peak candela output:

4,23 cd

PRODUCT NAME:

ECLPARIPM UV

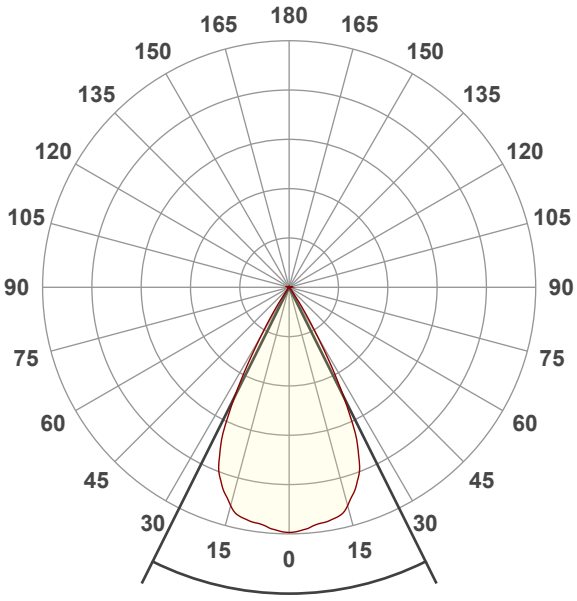
MEASURAMENT CONDITIONS:

Beam angle:
Open Frame

Target:
Full On

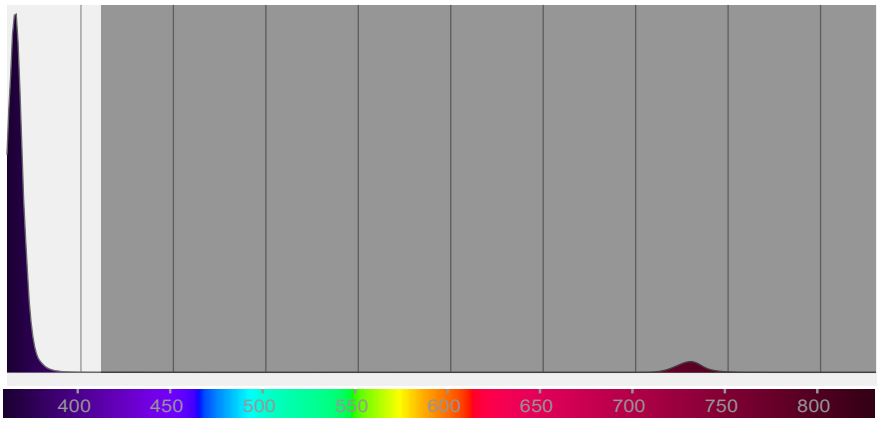
Operator:
Salvatore Giglio

Date and time:
05/12/2024 17:02:26



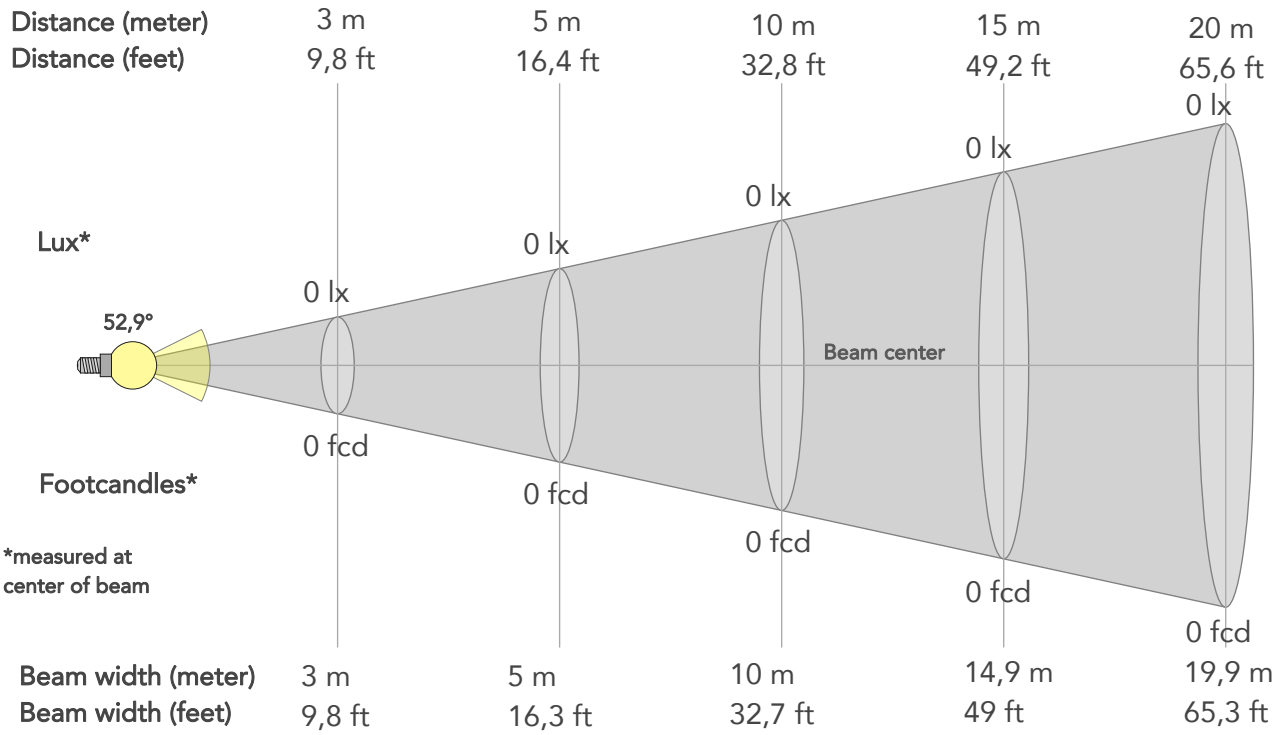
Beam angle 50%: 52,9°
Field angle 10%: 65,5°
Cut off angle 2.5%: 71,3°

Spectra



BEAM DETAILS

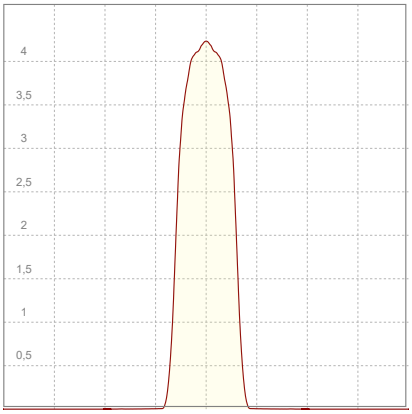
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,9°	65,5°	71,3°	99,8%	99,7%



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	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
Footcand.	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,5m	10m	14,9m	19,9m	24,9m	29,9m	39,8m	49,8m
Beam wid.	3,3ft	6,6ft	9,8ft	13ft	16,3ft	24,5ft	32,7ft	49ft	65,3ft	81,6ft	98ft	130,6ft	163,3ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,316A	64,5W	0,91	0lm/W

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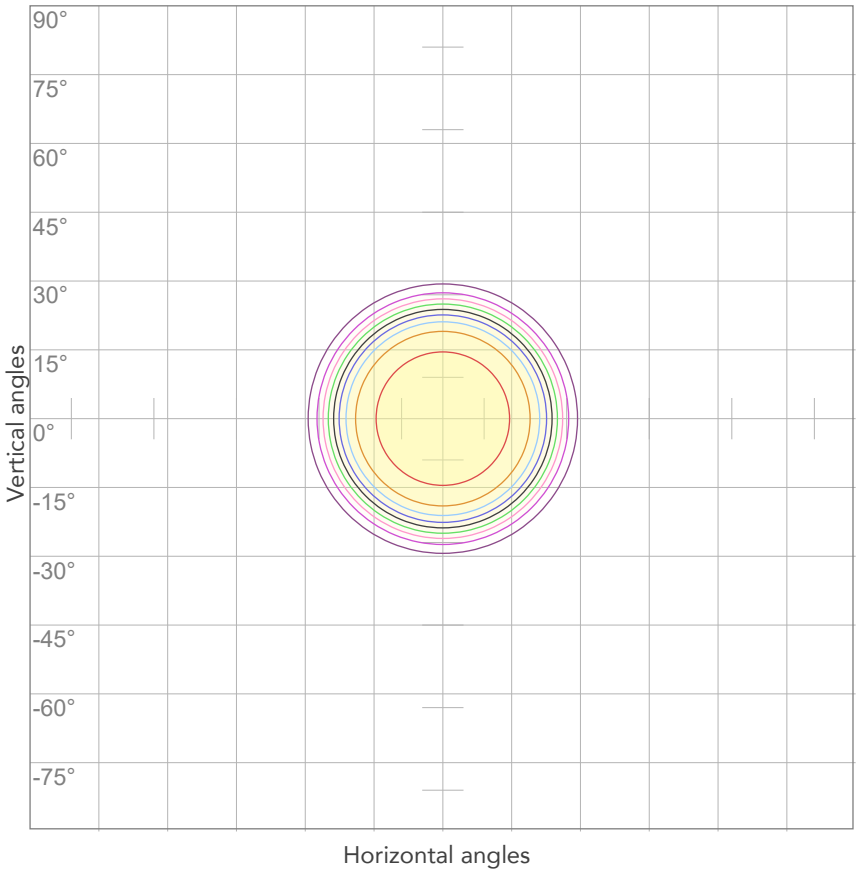
ISO DIAGRAMS

ISO CANDELA DIAGRAM



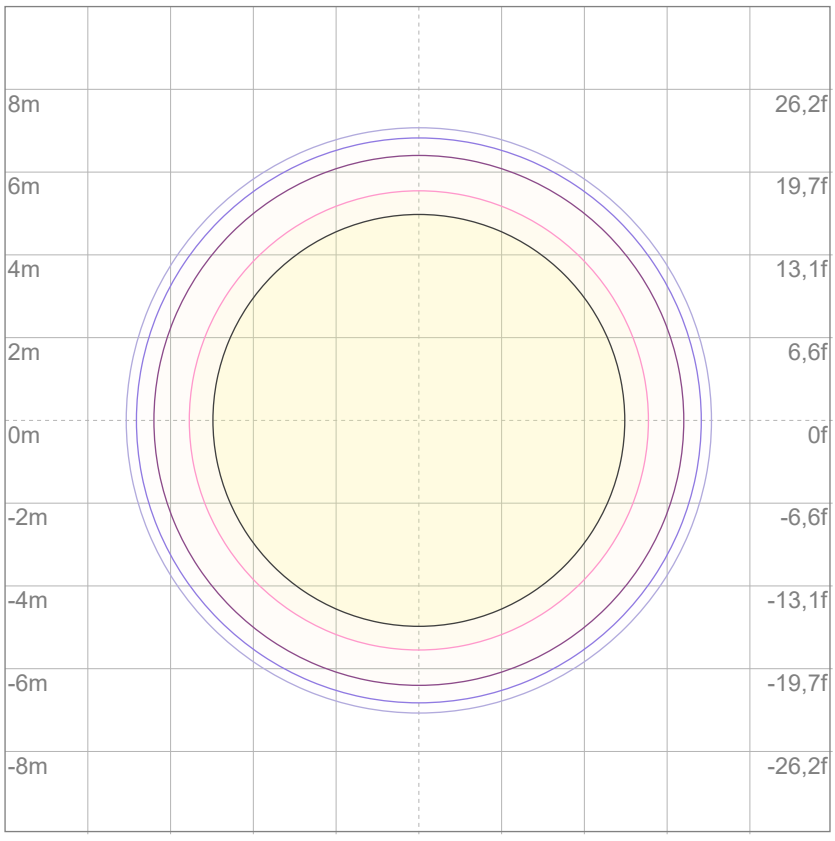
10%	0 cd
20%	0 cd
30%	0 cd
40%	0 cd
50%	0 cd
60%	0 cd
70%	1 cd
80%	1 cd

Conditions:

Number of c-planes: 2

Candela at center: 1 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	219u lx
5%	366u lx
10%	732u lx
30%	2,19m lx
50%	3,66m lx

Conditions:

Number of c-planes: 2

Lux at center: 7,32m lx

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

Total lumen output:

0,985 lm

Peak candela output:

49,1 cd

PRODUCT NAME:

ECLPARIPM UV

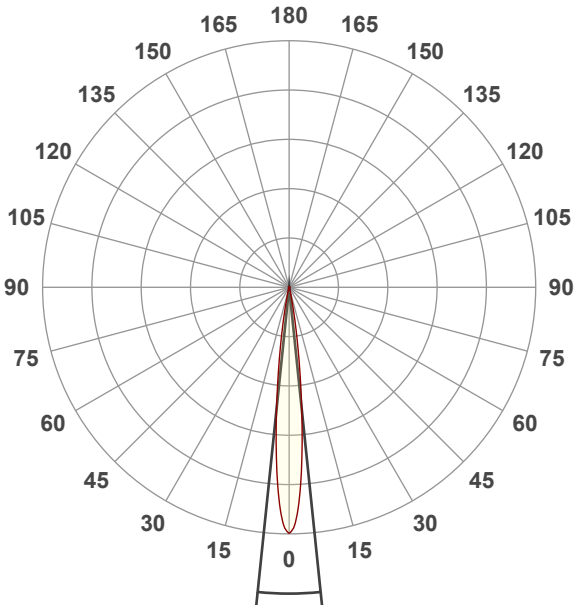
MEASURAMENT CONDITIONS:

Beam angle:
Narrow Lens

Target:
Full On

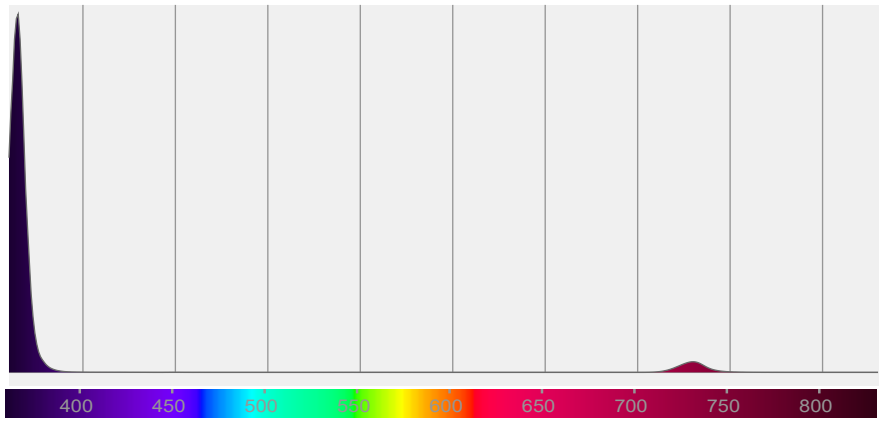
Operator:
Salvatore Giglio

Date and time:
05/12/2024 17:07:19



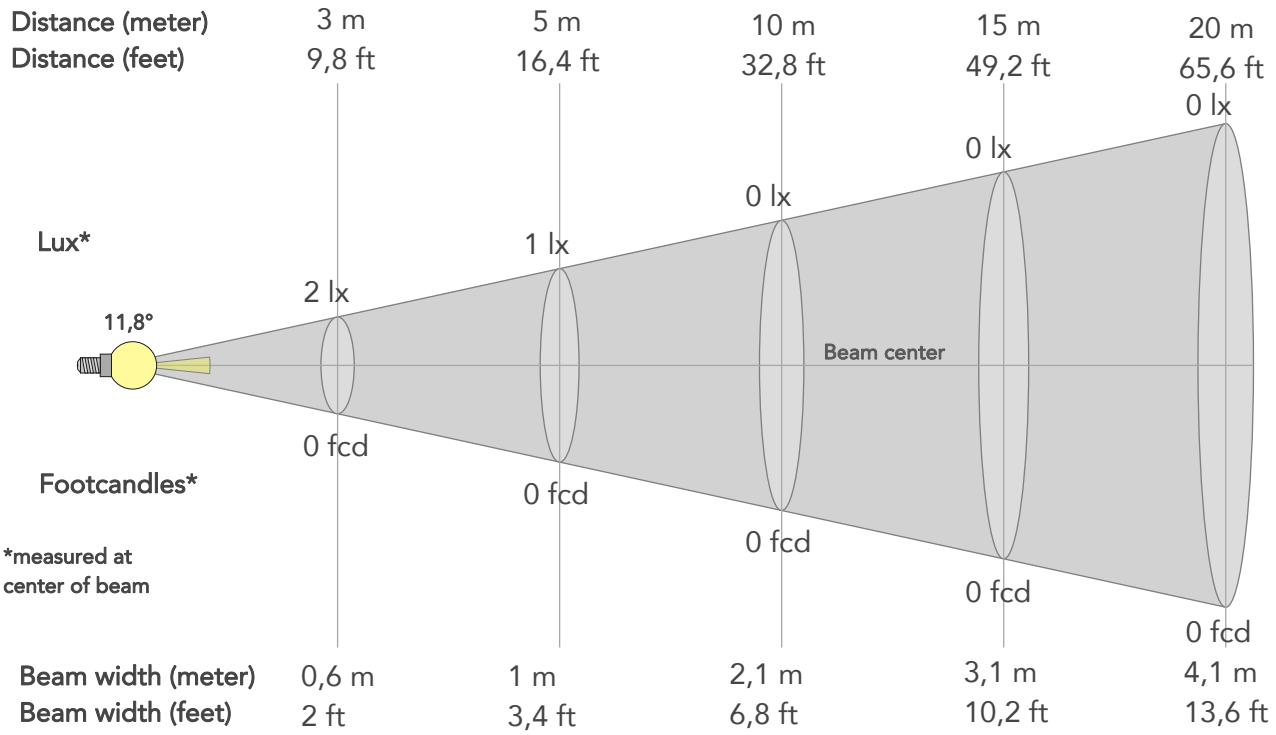
Beam angle 50%: 11,8°
Field angle 10%: 21,2°
Cut off angle 2.5%: 27,1°

Spectra



BEAM DETAILS

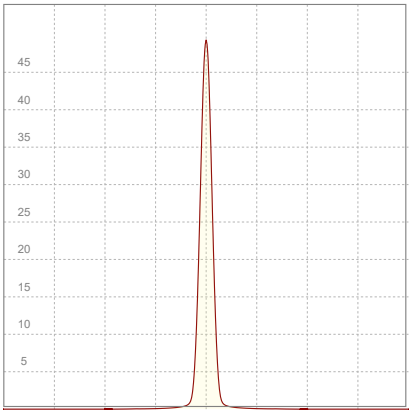
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,8°	21,2°	27,1°	98,4%	96,1%



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	16lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
Footcand.	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,6m	2,1m	3,1m	4,1m	5,2m	6,2m	8,3m	10,3m
Beam wid.	0,7ft	1,4ft	2ft	2,7ft	3,4ft	5,1ft	6,8ft	10,2ft	13,6ft	17ft	20,3ft	27,1ft	33,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,315A	64,4W	0,91	0lm/W

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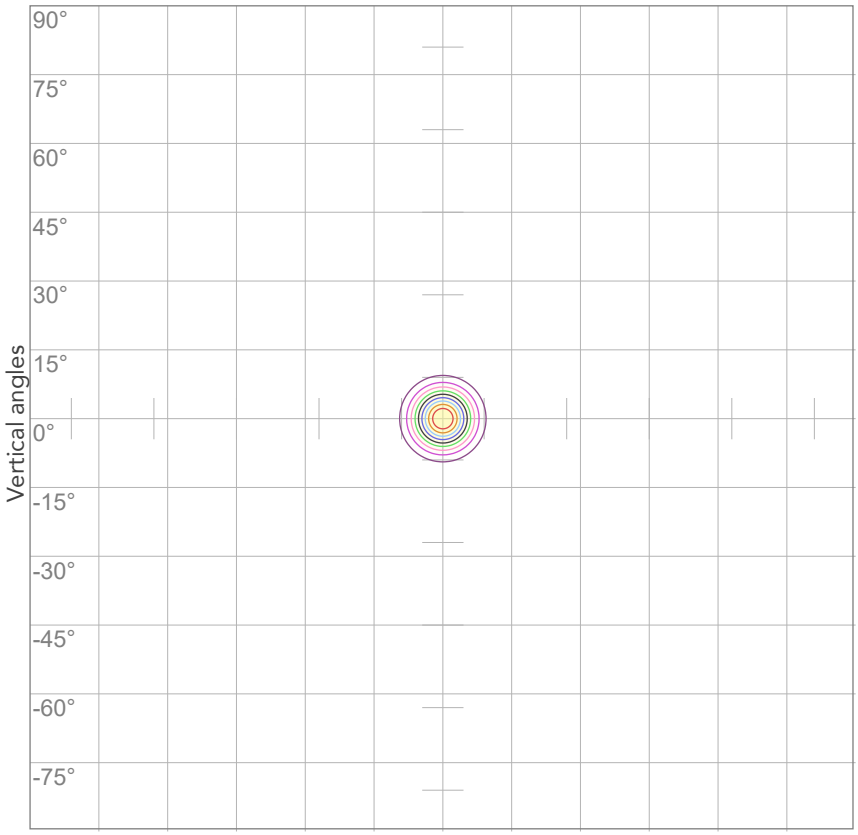
ISO DIAGRAMS

ISO CANDELA DIAGRAM



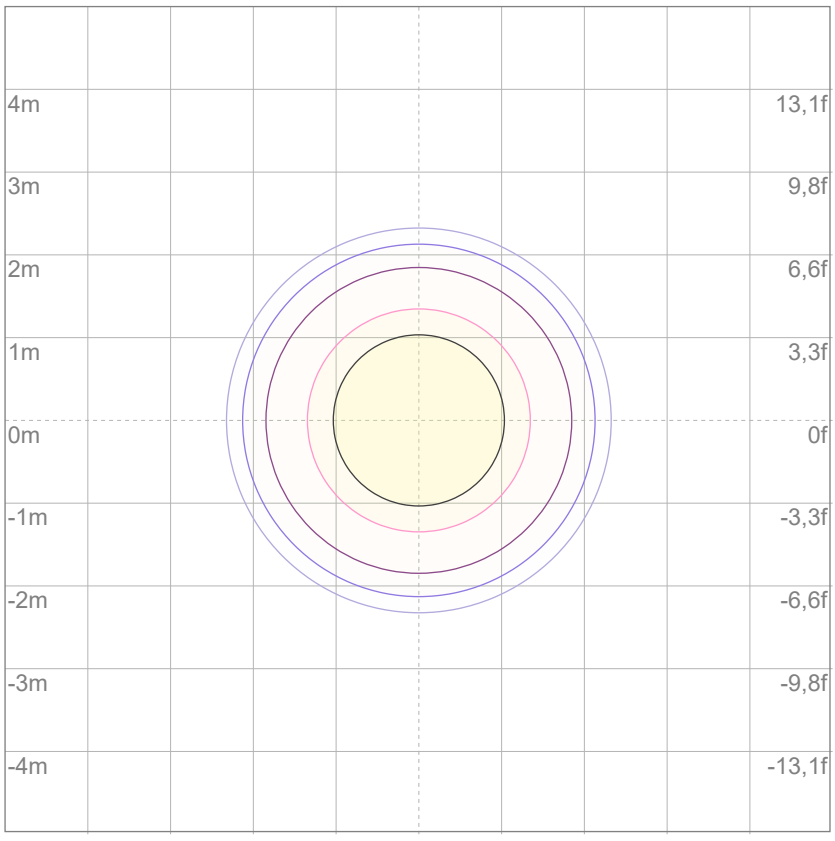
10%	2 cd
20%	3 cd
30%	5 cd
40%	6 cd
50%	8 cd
60%	10 cd
70%	11 cd
80%	13 cd

Conditions:

Number of c-planes: 2

Candela at center: 16 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,81m lx
5%	8,01m lx
10%	16,0m lx
30%	48,1m lx
50%	80,1m lx

Conditions:

Number of c-planes: 2

Lux at center: 0,160 lx

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

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Total lumen output:

0,027 lm

Peak candela output:

0,062 cd

PRODUCT NAME:

ECLPARIPM UV

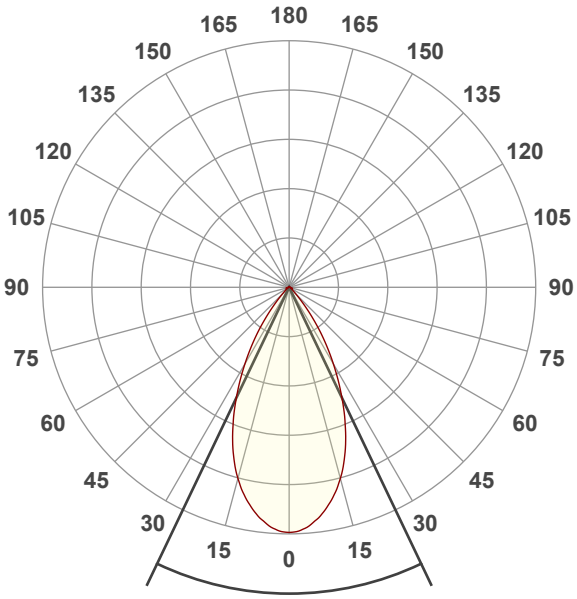
MEASURAMENT CONDITIONS:

Beam angle:
Wide Lens

Target:
Full On

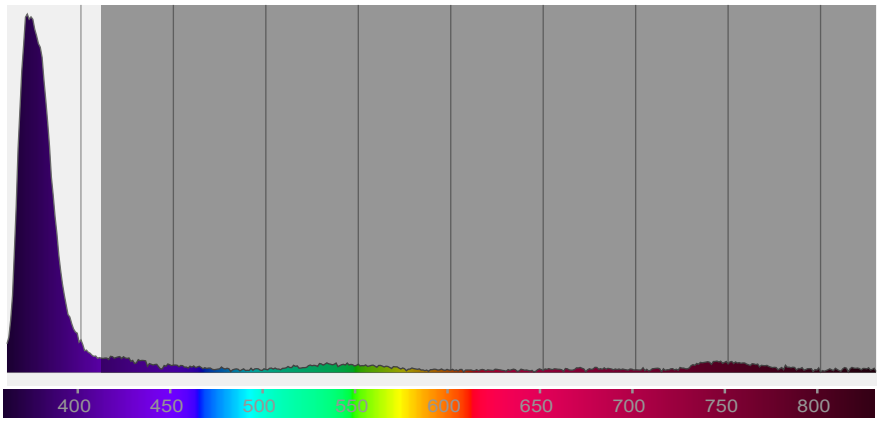
Operator:
Salvatore Giglio

Date and time:
05/12/2024 17:35:03



Beam angle 50%: 51,1°
Field angle 10%: 80,3°
Cut off angle 2.5%: 96,6°

Spectra



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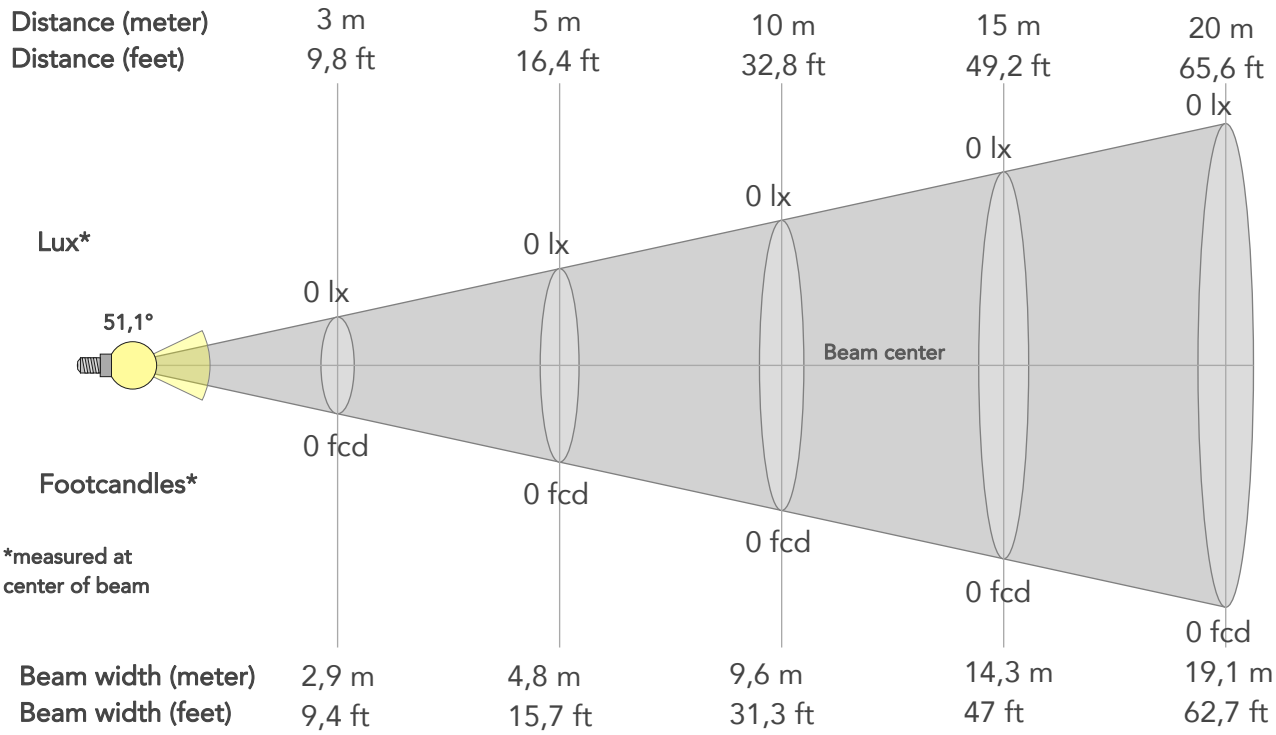
BEAM DETAILS

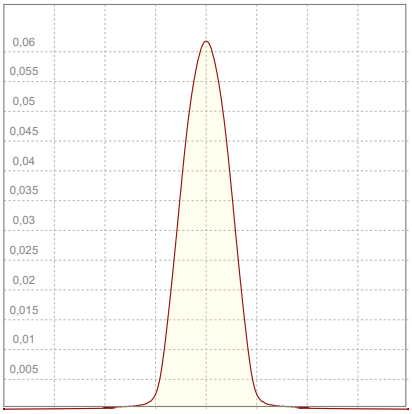
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,1°	80,3°	96,6°	96,0%	92,8%



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	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
Footcand.	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	1,9m	2,9m	3,8m	4,8m	7,2m	9,6m	14,3m	19,1m	23,9m	28,7m	38,2m	47,8m
Beam wid.	3,2ft	6,3ft	9,4ft	12,5ft	15,7ft	23,5ft	31,3ft	47ft	62,7ft	78,3ft	94ft	125,3ft	156,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,313A	63,9W	0,91	0lm/W

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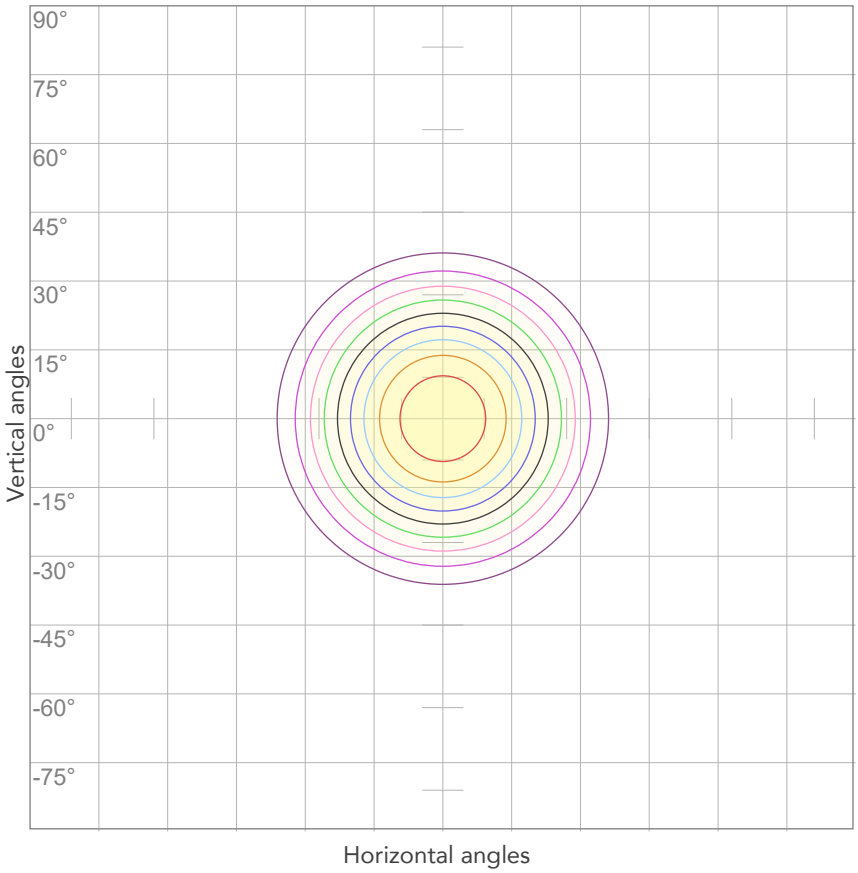
ISO DIAGRAMS

ISO CANDELA DIAGRAM



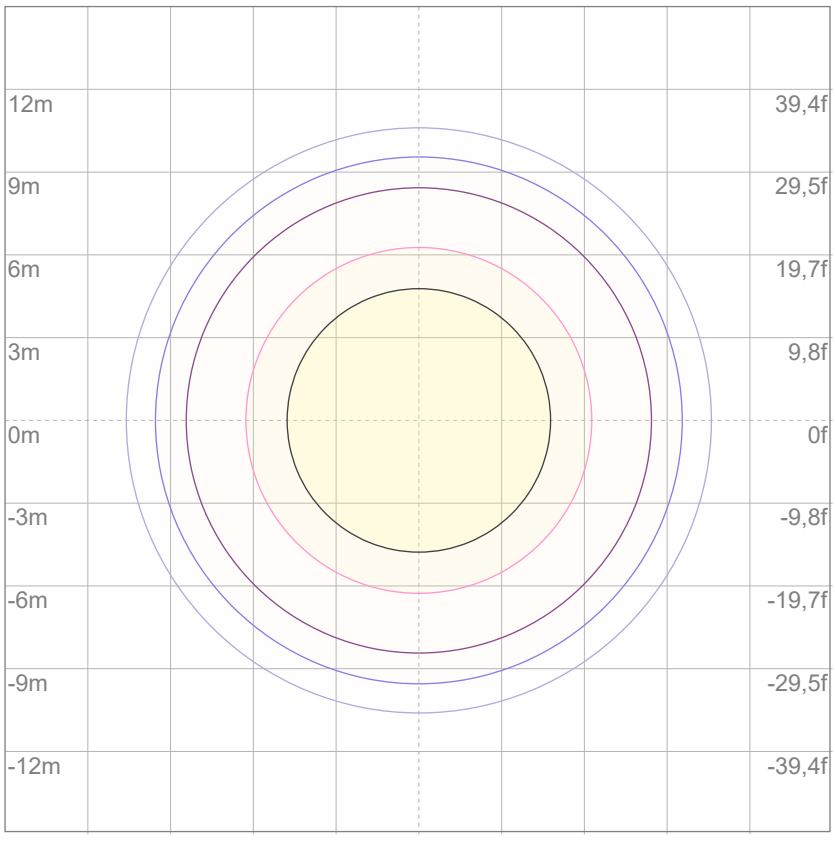
10%	0 cd
20%	0 cd
30%	0 cd
40%	0 cd
50%	0 cd
60%	0 cd
70%	0 cd
80%	0 cd

Conditions:

Number of c-planes: 2

Candela at center: 0 cd

ISO LUX DIAGRAM



3%	9u lx
5%	15u lx
10%	30u lx
30%	90u lx
50%	151u lx

Conditions:

Number of c-planes: 2

Lux at center: 301u lx

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

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