

## 2FT LED TUBE



## SECTION 1: GENERAL DESCRIPTION

Item ID:	LED 1266
Voltage:	85-277V
Power:	9W
Diffuser Type:	Polymethyl Methacrylate
Base Material:	Cast Aluminum
Light Output:	900 Lumens
Beam Angle:	120 Degree
Correlated Colour Temperate (CCT):	6000-6500K White
Fixture Lifespan:	50,000 Hours (10+ years at 12 hours per day).
IP Rating:	IP40

## SECTION 2: CERTIFICATIONS MET

UL Listing : Underwriters Laboratory testing for dependable reliability and lifespan of fixture.

RoHS: Restriction of Hazardous Substances- Ensuring no toxic chemicals or materials are used in the manufacture.

CE Certification: European Conformity- Passed standards to be sold within the European Union.

This light is LED which is environmentally friendly compared to traditional lighting

## SECTION 3: LIGHT SOURCE DESCRIPTION (LED CHIP)

LED Shape	2835 SMD
Number of LEDS	120
LED TYPE	EPISTAR

## SECTION 4: COMPARABLE OLDER LIGHT SOURCE

2FT LED TUBE	2FT FLUORESCENT TUBE
9 Watts Power	25 Watts Power
50,000 Hour Lifespan	200 Hour Lifespan
Carries 1 year Warranty	Carries no warranty
Withstands voltage surges	Destroyed with small voltage surges
Available in Cool White	Only Available in Warm

This guide explains the steps necessary to install our LED Tubes properly into your existing fixture to replace a fluorescent T8 tube. Only certified electricians should attempt the installation.

### Warning/Disclaimer

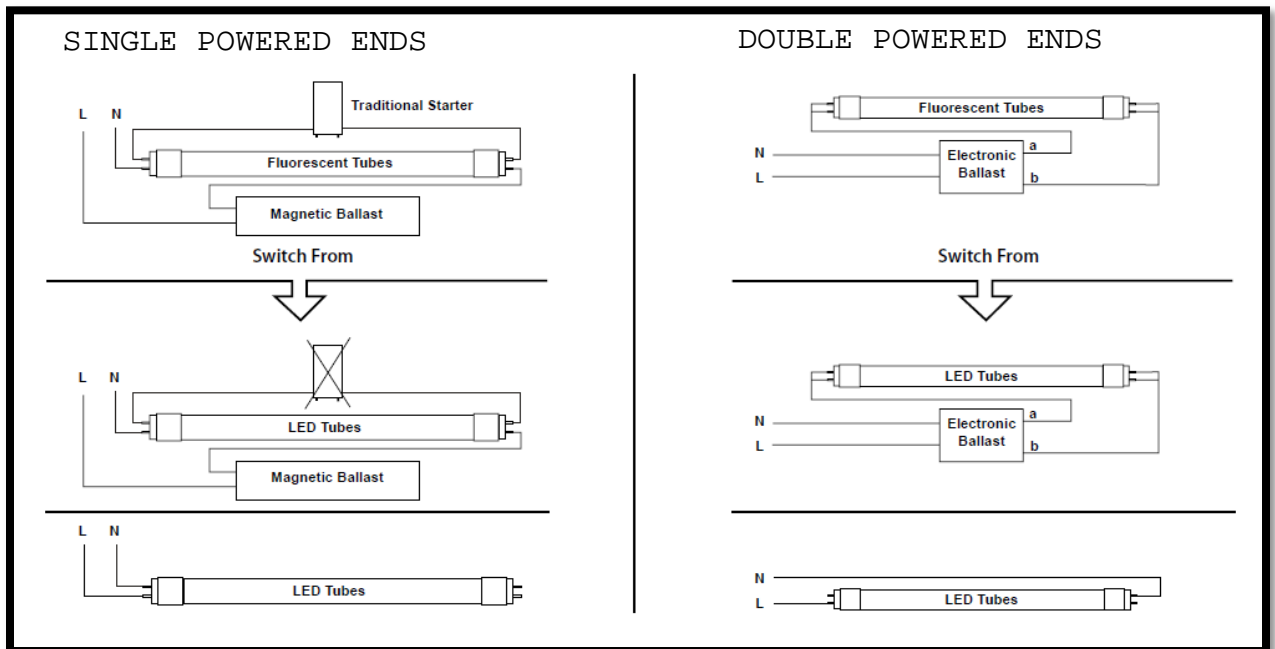
Target Solutions Ltd is not responsible for any damage or harm caused by improper handling and installation or our tube lights. Installation by a certified electrician is highly recommended.

### Cautions

- Do not touch this product with wet hands
- Do not disassemble, repair or alter the light
- Designed for indoor application
- Be careful and do not touch the light pins to the metal housing when installing
- This device is not intended for use with emergency exists
- Do not use with dimmers

### Installation

1. Disconnect the power of the fixture (Do not only turn off the switch)
2. Open the housing fixture
3. Remove the existing fluorescent lamps, and cut the wires according to the diagram and remove the ballast.
4. Connect the wires as seen in the diagram below according to either single powered or double powered tubes.



5. Install the LED Tube by placing the pins into the fixture and turn clockwise.
6. Double-check all the wiring is done correctly and then close the housing fixture.
7. Re-connect the power to the fixture and then switch on the light.

Report No.: 020

Test Time: 2014-01-07 19:43

Lamp Catalog: LED  
Number of Lamps: 48  
Luminous Length (mm): 550  
Luminous Height (mm): 26  
Current: 0.048 A  
Power Factor: 0.900

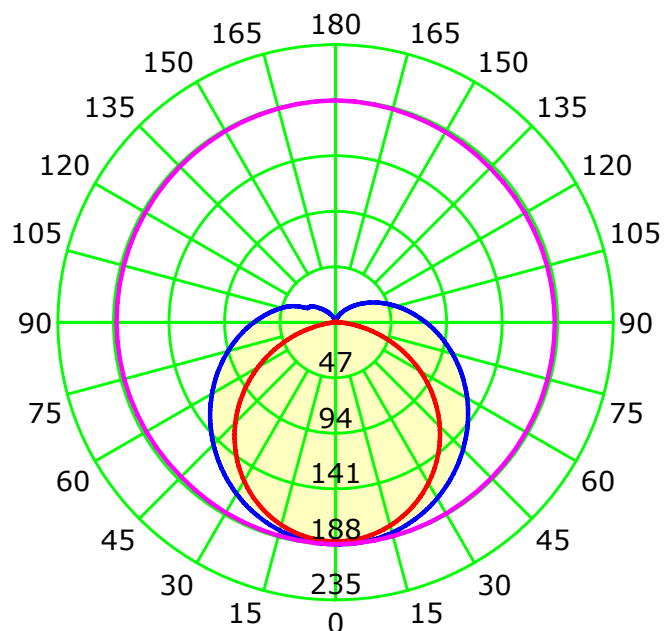
Lamp Description: 2835-48  
Lumens per Lamp: 820  
Luminous Width (mm): 26  
Voltage: 220.9 V  
Power: 9.60 W

## Photometric Results

CIE Class: Semi-Direct  
Measurement Flux: 780.2 lm  
Downward Ratio: 1.70%  
Field Angle: H265.4 V158.9  
Luminaire Efficacy Rating (LER): 81  
Max. Intensity: 188.33 cd

Total Rated Lamp Lumens: 39360.0 lm  
Efficiency: 1.98%  
Upward Ratio: 0.28%  
Beam Angle: H154.9 V111.2  
Central Intensity: 188.32 cd  
Pos of Max. Intensity: H0 V0

Luminous Intensity Distribution Curve



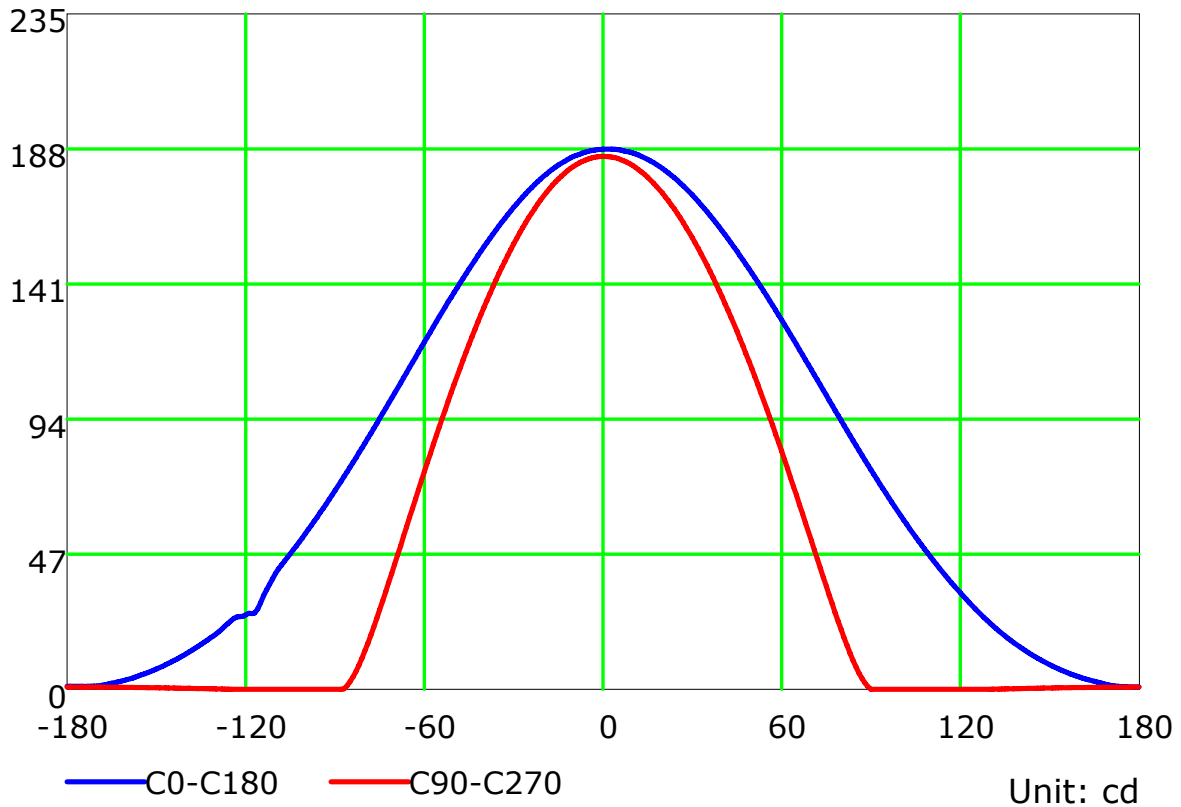
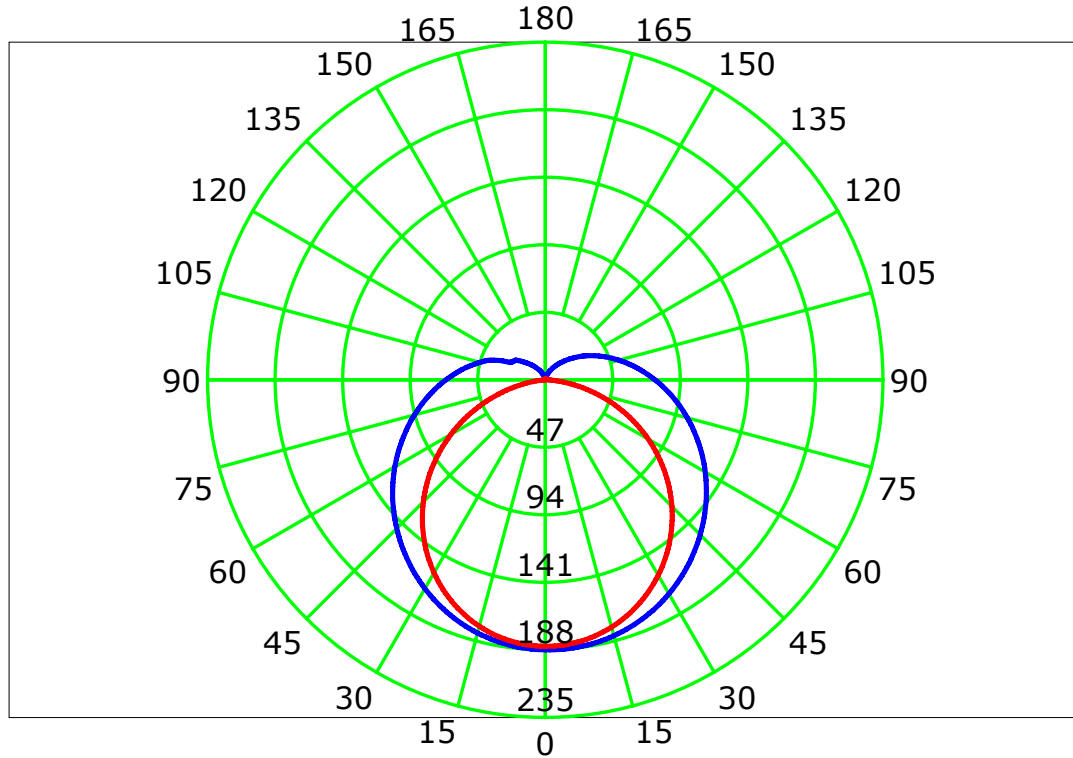
Unit: cd

— C0-C180 — C90-C270 — G0

C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600  
Distance: 6.498 m  
Humidity:  
Inspector:

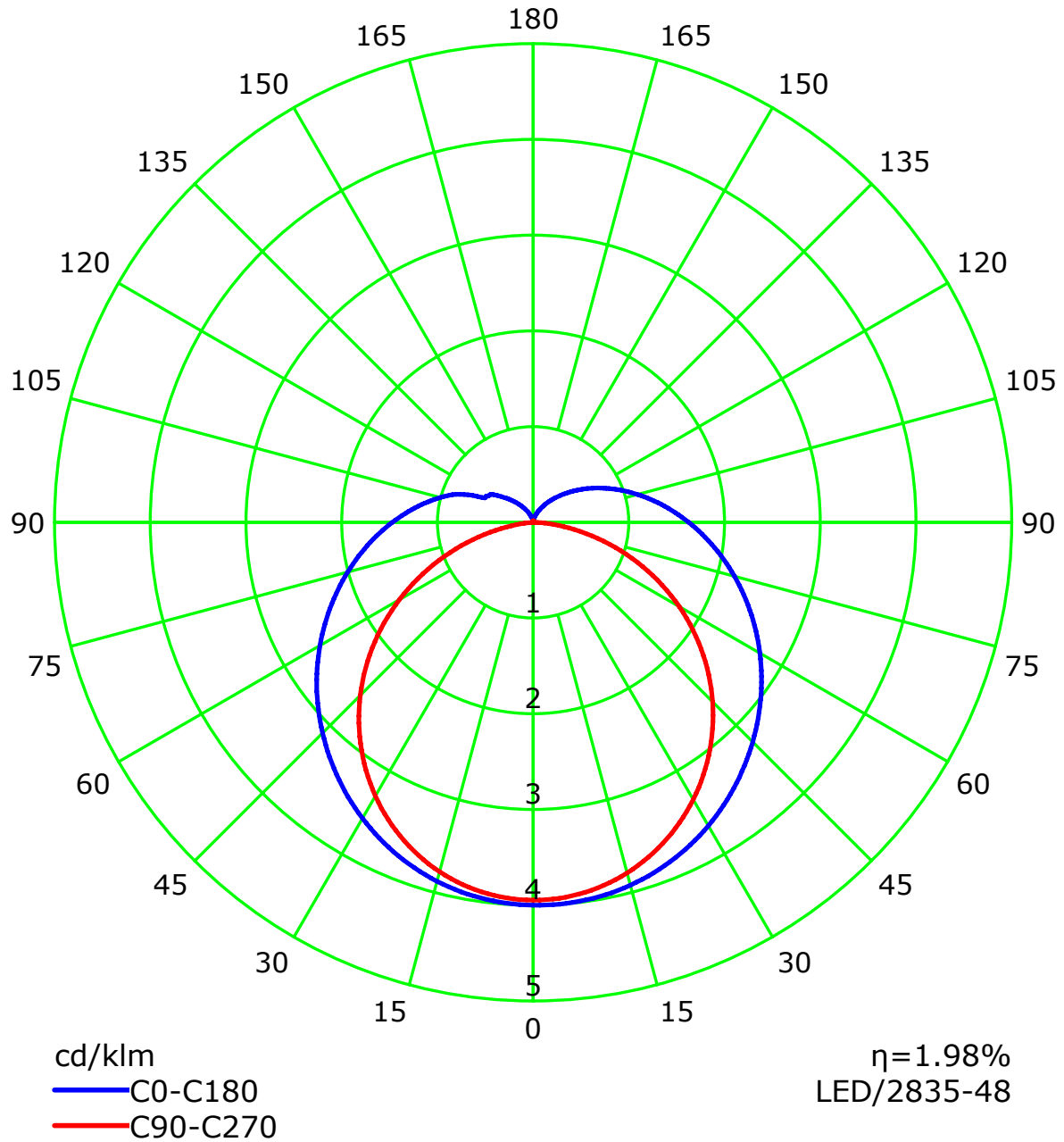
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600  
Distance: 6.498 m  
Humidity:  
Inspector:

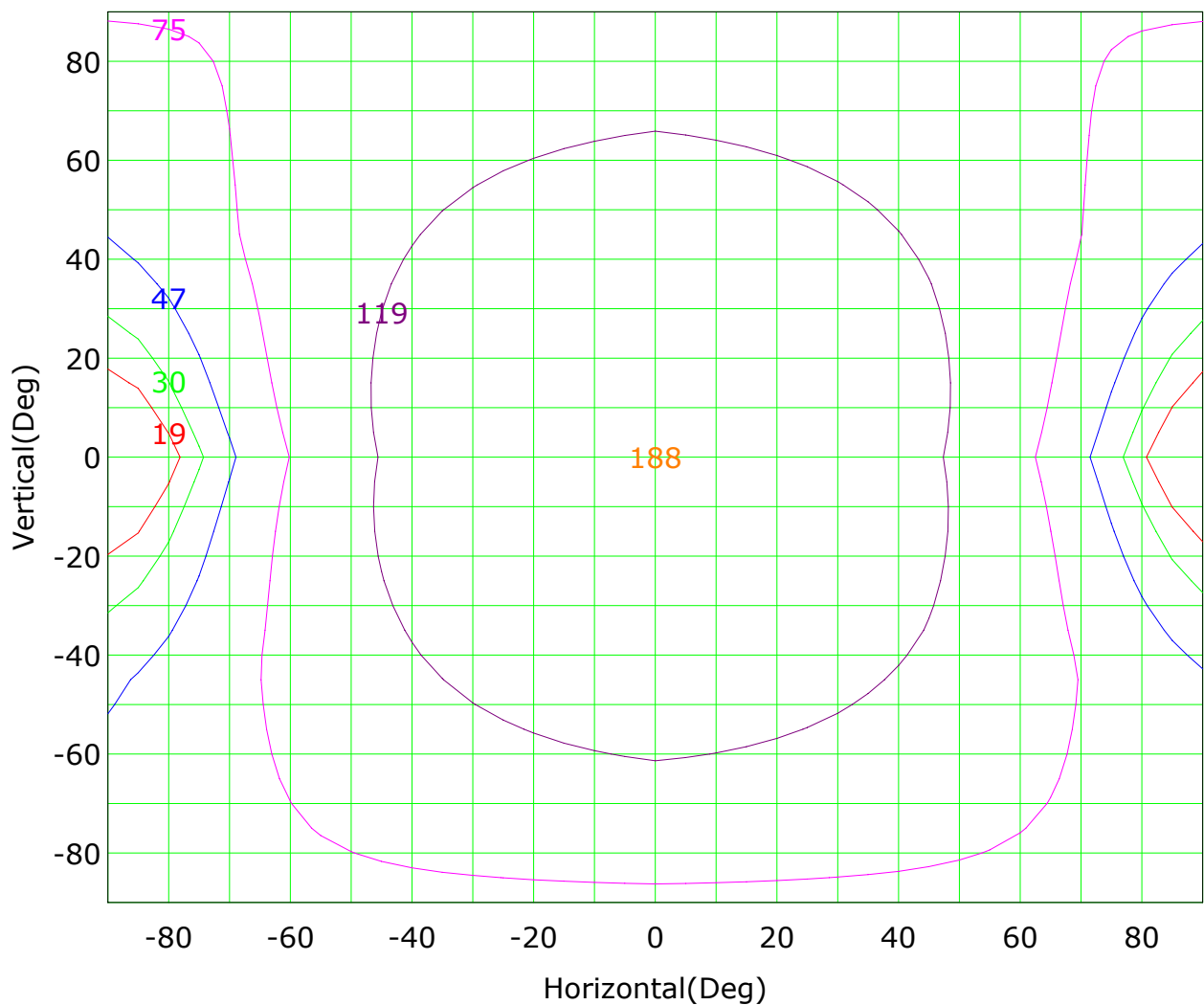
## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600  
Distance: 6.498 m  
Humidity:  
Inspector:

## Isocandela (rectangle)



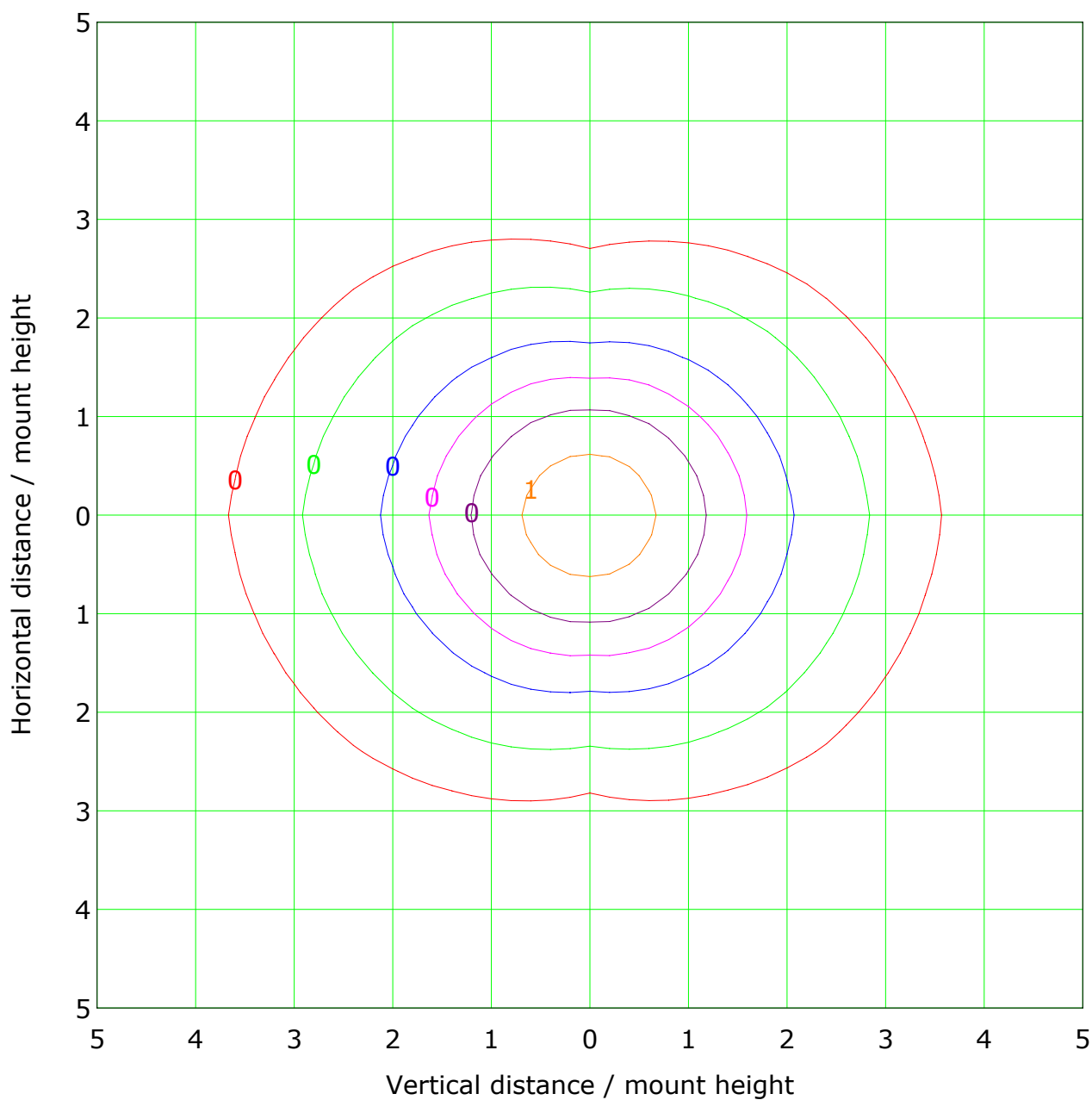
Imax (100%): 188 cd

( 10%):	19 cd	( 16%):	30 cd
( 25%):	47 cd	( 40%):	75 cd
( 63%):	119 cd	(100%):	188 cd

C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600  
Distance: 6.498 m  
Humidity:  
Inspector:

## IsoLux Plot



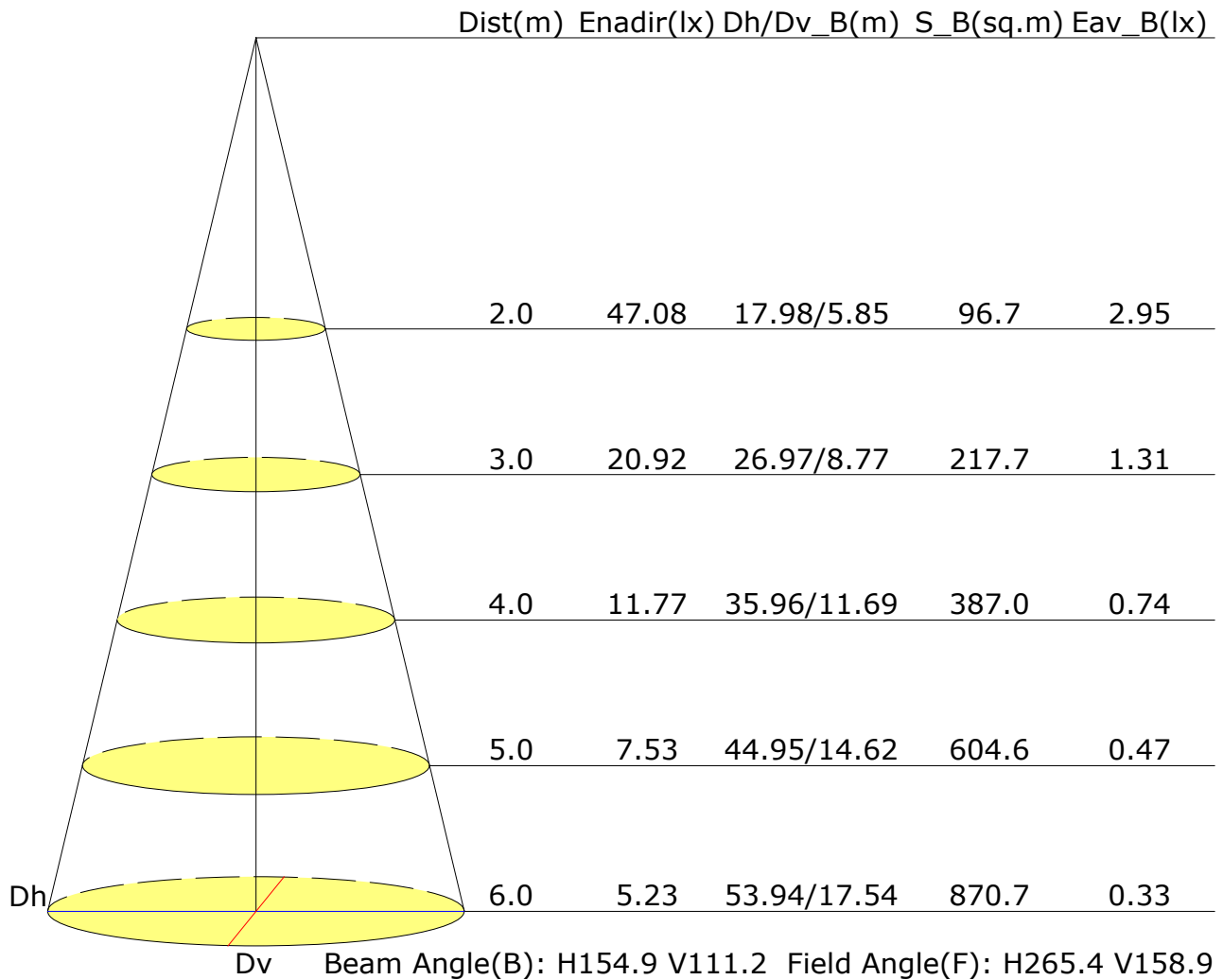
Mounting Height: 10.0m    Max Lux(100%): 1.9 lx

— ( 1%): 0.0 lx	— ( 2%): 0.0 lx
— ( 5%): 0.1 lx	— (10%): 0.2 lx
— (20%): 0.4 lx	— (50%): 0.9 lx
— (100%): 1.9 lx	

C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600  
Distance: 6.498 m  
Humidity:  
Inspector:

## Illuminance at a Distance

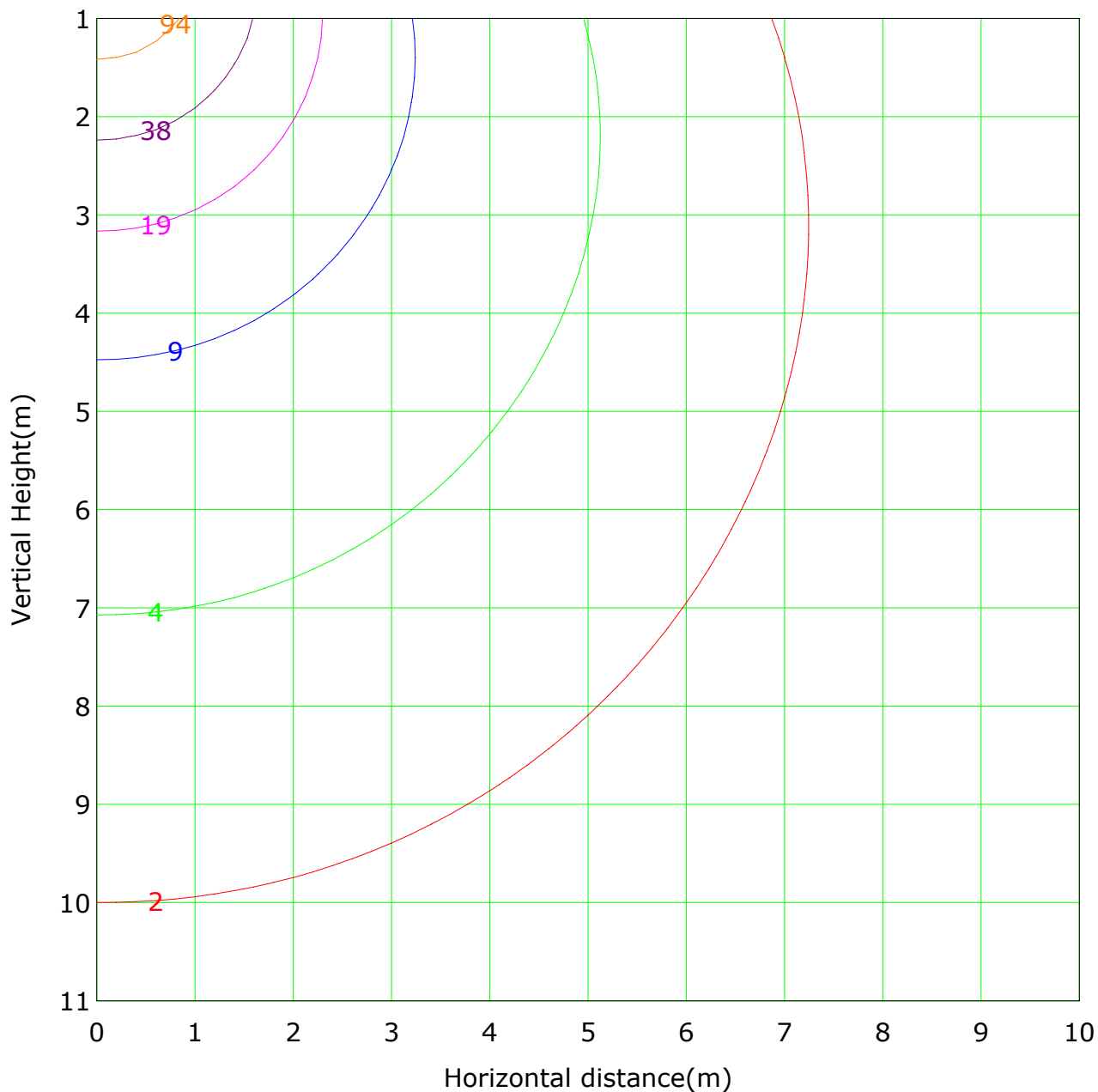


C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600  
Distance: 6.498 m  
Humidity:  
Inspector:



## Vertical IsoLux Plot



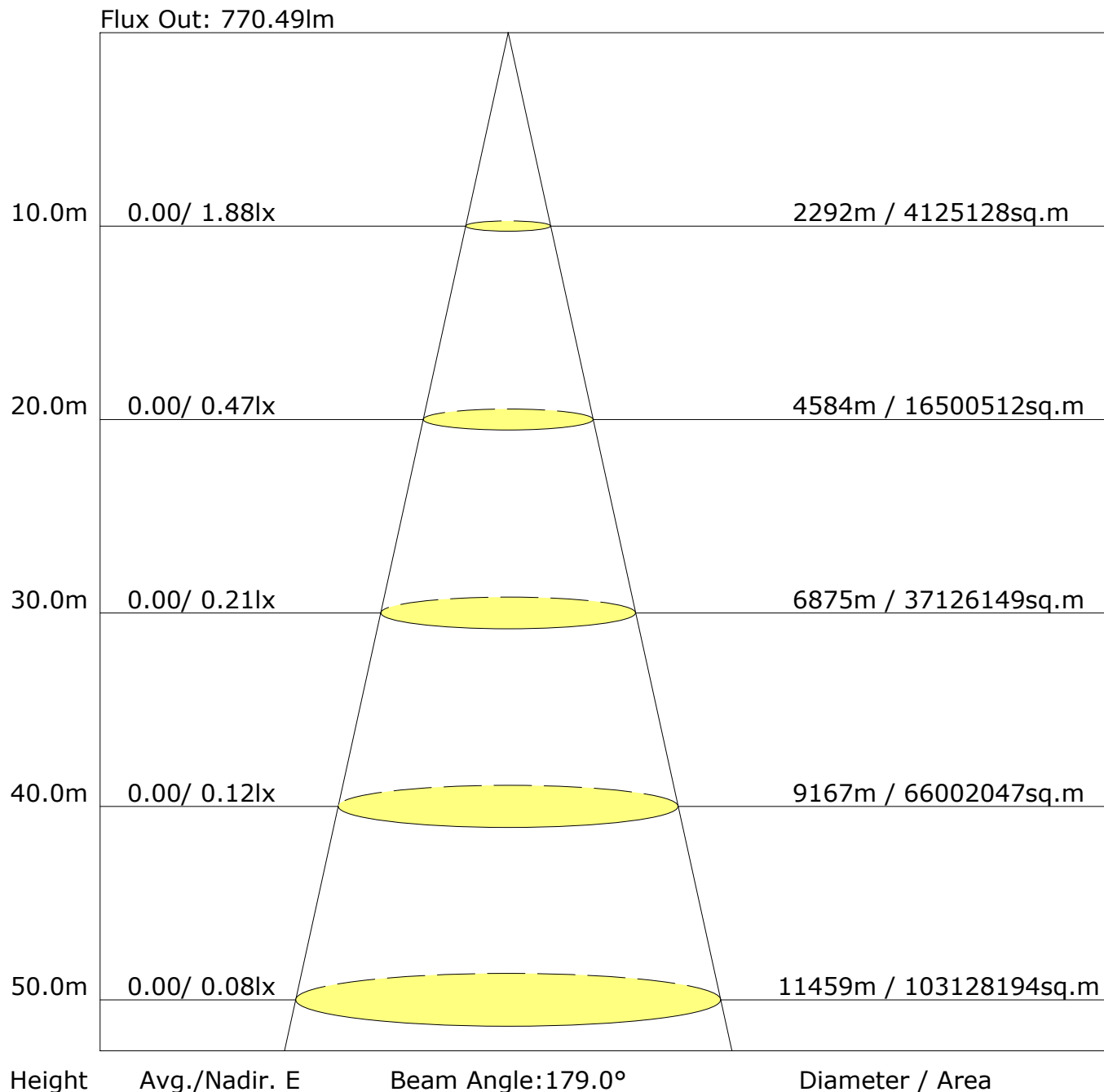
Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 188.3 lx

— ( 1%): 1.9 lx	— ( 2%): 3.8 lx
— ( 5%): 9.4 lx	— (10%): 18.8 lx
— (20%): 37.7 lx	— (50%): 94.2 lx
— (100%): 188.3 lx	

C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1600  
Distance: 6.498 m  
Humidity:  
Inspector:

## The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°): 0.0-180.0: 1.0  
Test Device: GPM-1600  
Distance: 6.498 m  
Humidity:  
Inspector: