

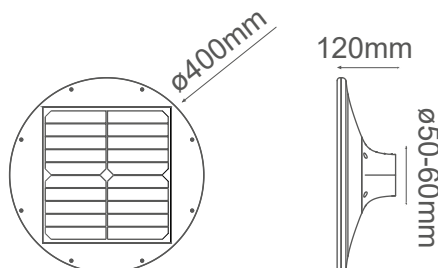
# SERIE GIRO

Modelo: 52-4020

**astro**  
LED Lighting



-07 Negro



## CARACTERÍSTICAS DEL PRODUCTO:

### GENERAL:

DESCRIPCIÓN: LUMINARIO SOLAR EXTERIOR

TIPO DE LED : SMD 2835

WATTS: 20W

FLUJO LUMINOSO: 2100lm

TEMPERATURA DE COLOR: 3000K / 4000K / 6000K

TIEMPO TOTAL DE CARGA: 4-6 HORAS DE LUZ SOLAR

RANGO DE SENSOR PIR: N/A

HORAS DE ILUMINACIÓN: 8-12 HORAS

IP: 65

CRI >90

MATERIAL: ABS+PC

BATERIA: BATERÍA DE LITIO 6000MAH, 6.4V, 38.4WH, REEMPLAZABLE)

ALTURA DE INSTALACIÓN: 2~4 mts

DISTANCIA DE INSTALACIÓN: 10~15mtrs

### ICONOGRAFÍA:



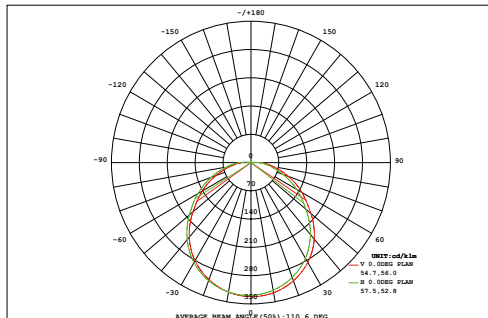
# SERIE GIRO

## INFORMACIÓN FOTOMÉTRICA:

**astro**  
LED Lighting

### LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                              |       |                  |
|--------------------------------------------------------------|-------|------------------|
| Test:U:0V I:0A P:0W PF:1.000 Freq:0Hz Lamp Flux:1849.51x1 lm |       |                  |
| NAME:                                                        | TYPE: | WEIGHT:          |
| SPEC.:                                                       | DIM.: | SERIAL No.:      |
| MFR.:                                                        | SUR.: | Shielding Angle: |



| DATA OF LAMP     |         | PHOTOMETRIC DATA   |            |
|------------------|---------|--------------------|------------|
| MODEL            |         | Imax(cd/klm)       | 331.9      |
| NOMINAL POWER(W) | 20      | AVAILABILITY(%)    | 96.7       |
| RATED VOLTAGE(V) |         | Avai. FLUX(lm/klm) | 967.0      |
| NOMINAL FLUX(lm) | 1849.51 | LOR(%)             | 100.0      |
| LAMPS INSIDE     | 1       | TOTAL FLUX(lm/klm) | 1000.0     |
| TEST VOLTAGE(V)  |         | θ @50%(H,V)        | 111,110DEG |

|                |      | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                  |      |      |      |      |      |      |      | UNIT:lm/klm |      |      |      | Φ t | Φ a |  |  |    |    |    |    |    |    |    |
|----------------|------|-------------------|------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|------|-------------|------|------|------|-----|-----|--|--|----|----|----|----|----|----|----|
| VERTICAL (DEG) | 90   | 0.07              | 0.23 | 0.42 | 0.62 | 0.83 | 1.02 | 1.17 | 1.29 | 1.35             | 1.34 | 1.26 | 1.14 | 0.97 | 0.78 | 0.58 | 0.39 | 0.21        | 0.06 | 13.7 | 10.4 |     |     |  |  |    |    |    |    |    |    |    |
|                | 80   | 0.08              | 0.30 | 0.59 | 0.96 | 1.37 | 1.77 | 2.11 | 2.38 | 2.52             | 2.51 | 2.34 | 2.06 | 1.70 | 1.30 | 0.90 | 0.55 | 0.27        | 0.07 | 23.8 | 23.5 |     |     |  |  |    |    |    |    |    |    |    |
|                | 70   | 0.09              | 0.36 | 0.78 | 1.34 | 1.99 | 2.65 | 3.24 | 3.68 | 3.92             | 3.90 | 3.64 | 3.17 | 2.57 | 1.91 | 1.27 | 0.73 | 0.33        | 0.08 | 35.7 | 35.6 |     |     |  |  |    |    |    |    |    |    |    |
|                | 60   | 0.10              | 0.43 | 0.98 | 1.74 | 2.66 | 3.59 | 4.41 | 5.02 | 5.36             | 5.34 | 4.96 | 4.32 | 3.49 | 2.56 | 1.66 | 0.92 | 0.39        | 0.09 | 48.0 | 48.0 |     |     |  |  |    |    |    |    |    |    |    |
|                | 50   | 0.10              | 0.49 | 1.17 | 2.13 | 3.28 | 4.46 | 5.53 | 6.37 | 6.82             | 6.80 | 6.30 | 5.43 | 4.34 | 3.17 | 2.05 | 1.10 | 0.45        | 0.09 | 60.1 | 60.0 |     |     |  |  |    |    |    |    |    |    |    |
|                | 40   | 0.11              | 0.54 | 1.34 | 2.47 | 3.81 | 5.27 | 6.60 | 7.57 | 8.09             | 8.07 | 7.50 | 6.49 | 5.14 | 3.70 | 2.38 | 1.26 | 0.50        | 0.10 | 70.9 | 70.9 |     |     |  |  |    |    |    |    |    |    |    |
|                | 30   | 0.12              | 0.58 | 1.47 | 2.73 | 4.27 | 5.95 | 7.42 | 8.48 | 9.03             | 9.00 | 8.40 | 7.31 | 5.82 | 4.15 | 2.63 | 1.40 | 0.54        | 0.10 | 79.4 | 79.4 |     |     |  |  |    |    |    |    |    |    |    |
|                |      | 0.12              | 0.61 | 1.56 | 2.91 | 4.61 | 6.41 | 7.96 | 9.07 | 9.63             | 9.59 | 8.97 | 7.84 | 6.28 | 4.48 | 2.81 | 1.49 | 0.57        | 0.11 | 85.0 | 85.0 |     |     |  |  |    |    |    |    |    |    |    |
|                |      | 0.12              | 0.63 | 1.61 | 2.99 | 4.78 | 6.64 | 8.21 | 9.36 | 9.93             | 9.88 | 9.27 | 8.11 | 6.51 | 4.65 | 2.89 | 1.53 | 0.58        | 0.11 | 87.8 | 87.8 |     |     |  |  |    |    |    |    |    |    |    |
|                |      | 0.12              | 0.62 | 1.60 | 2.97 | 4.75 | 6.59 | 8.15 | 9.28 | 9.83             | 9.85 | 9.24 | 8.07 | 6.48 | 4.62 | 2.87 | 1.52 | 0.58        | 0.11 | 87.3 | 87.2 |     |     |  |  |    |    |    |    |    |    |    |
|                |      | 0.12              | 0.60 | 1.53 | 2.84 | 4.51 | 6.28 | 7.78 | 8.85 | 9.42             | 9.43 | 8.85 | 7.73 | 6.18 | 4.40 | 2.75 | 1.46 | 0.56        | 0.11 | 83.4 | 83.4 |     |     |  |  |    |    |    |    |    |    |    |
|                | -30  | 0.11              | 0.57 | 1.42 | 2.62 | 4.10 | 5.72 | 7.13 | 8.18 | 8.72             | 8.72 | 8.17 | 7.09 | 5.64 | 4.00 | 2.54 | 1.35 | 0.53        | 0.10 | 76.7 | 76.7 |     |     |  |  |    |    |    |    |    |    |    |
|                | -40  | 0.11              | 0.52 | 1.27 | 2.33 | 3.57 | 4.94 | 6.22 | 7.17 | 7.66             | 7.65 | 7.15 | 6.17 | 4.86 | 3.49 | 2.25 | 1.20 | 0.48        | 0.10 | 67.1 | 67.1 |     |     |  |  |    |    |    |    |    |    |    |
|                | -50  | 0.10              | 0.46 | 1.09 | 1.97 | 2.99 | 4.04 | 5.05 | 5.84 | 6.24             | 6.23 | 5.80 | 4.99 | 3.98 | 2.92 | 1.90 | 1.03 | 0.43        | 0.09 | 55.2 | 55.1 |     |     |  |  |    |    |    |    |    |    |    |
|                | -60  | 0.09              | 0.40 | 0.90 | 1.57 | 2.35 | 3.16 | 3.89 | 4.44 | 4.71             | 4.70 | 4.40 | 3.85 | 3.10 | 2.29 | 1.50 | 0.85 | 0.37        | 0.09 | 42.7 | 42.6 |     |     |  |  |    |    |    |    |    |    |    |
|                | -70  | 0.09              | 0.34 | 0.71 | 1.18 | 1.71 | 2.25 | 2.75 | 3.11 | 3.29             | 3.28 | 3.08 | 2.70 | 2.20 | 1.65 | 1.12 | 0.66 | 0.31        | 0.08 | 30.5 | 30.4 |     |     |  |  |    |    |    |    |    |    |    |
|                | -80  | 0.08              | 0.27 | 0.53 | 0.82 | 1.13 | 1.44 | 1.71 | 1.90 | 1.99             | 1.98 | 1.88 | 1.67 | 1.40 | 1.09 | 0.78 | 0.49 | 0.25        | 0.07 | 19.5 | 19.1 |     |     |  |  |    |    |    |    |    |    |    |
|                | -90  | 0.07              | 0.21 | 0.37 | 0.52 | 0.66 | 0.80 | 0.91 | 0.98 | 1.01             | 1.01 | 0.97 | 0.89 | 0.77 | 0.64 | 0.49 | 0.34 | 0.20        | 0.06 | 10.9 | 5.02 |     |     |  |  |    |    |    |    |    |    |    |
|                |      | -90               | -80  | -70  | -60  | -50  | -40  | -30  | -20  | HORIZONTAL (DEG) |      |      |      |      |      |      |      |             |      |      |      |     |     |  |  | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| Φ t            | 1.79 | 8.18              | 19.3 | 34.7 | 53.4 | 73.0 | 90.2 | 103  | 110  | 109              | 102  | 89.0 | 71.4 | 51.8 | 33.4 | 18.3 | 7.57 | 1.63        | 978  | ---  |      |     |     |  |  |    |    |    |    |    |    |    |
| Φ a            | 1.28 | 7.65              | 18.8 | 34.2 | 52.8 | 72.4 | 89.7 | 102  | 109  | 109              | 102  | 88.4 | 70.8 | 51.1 | 32.7 | 17.6 | 6.89 | 0.97        | ---  | 967  |      |     |     |  |  |    |    |    |    |    |    |    |

one-half-peak spread: U:53.2,D:55.9 , L:56.4,R:55.1

NEMA Beam Type: Type 7

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-04-14

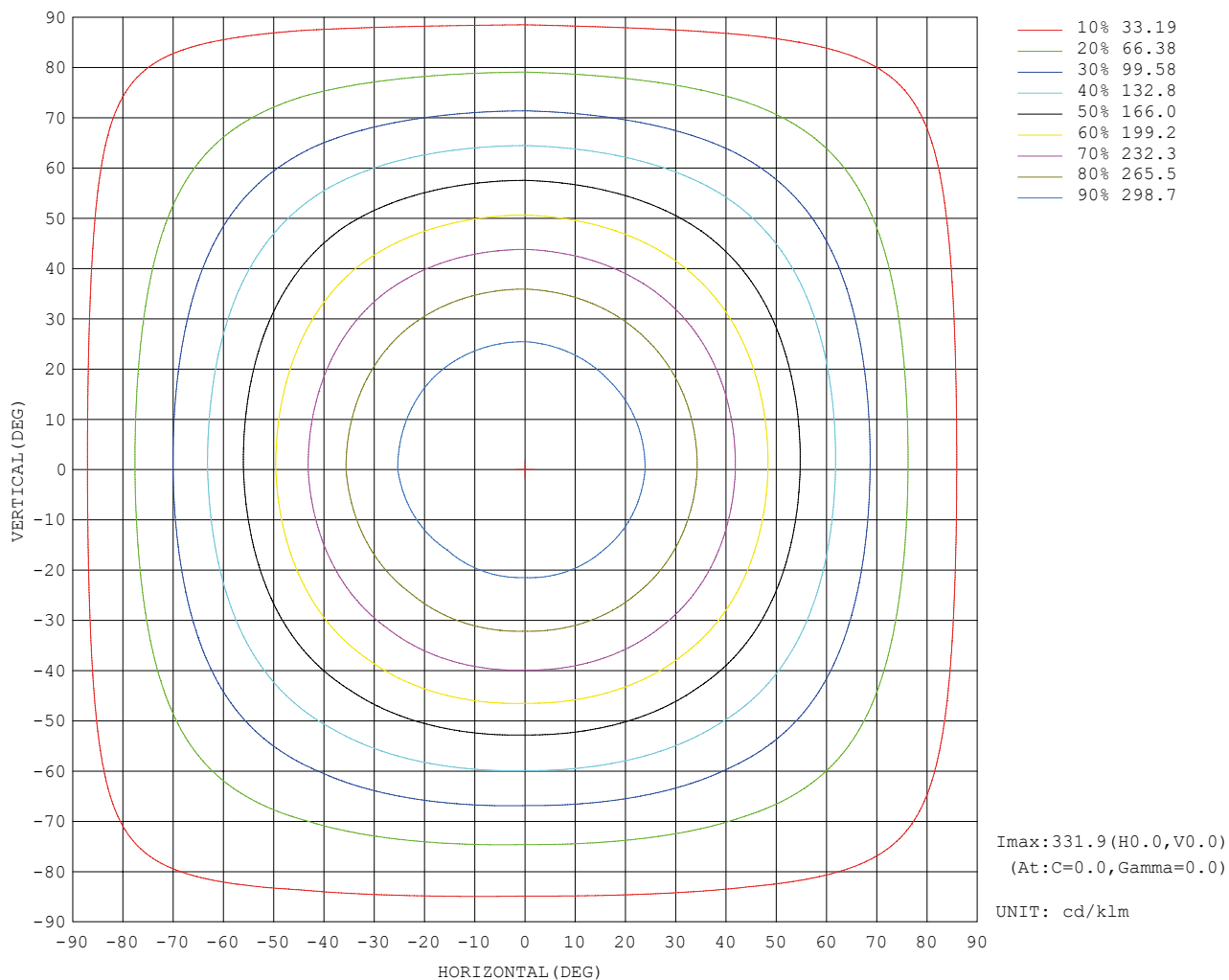
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.864m [K=1.0000]  
Remarks:

# SERIE GIRO

## INFORMACIÓN FOTOMÉTRICA:

**astro**  
LED Lighting

### ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-04-14

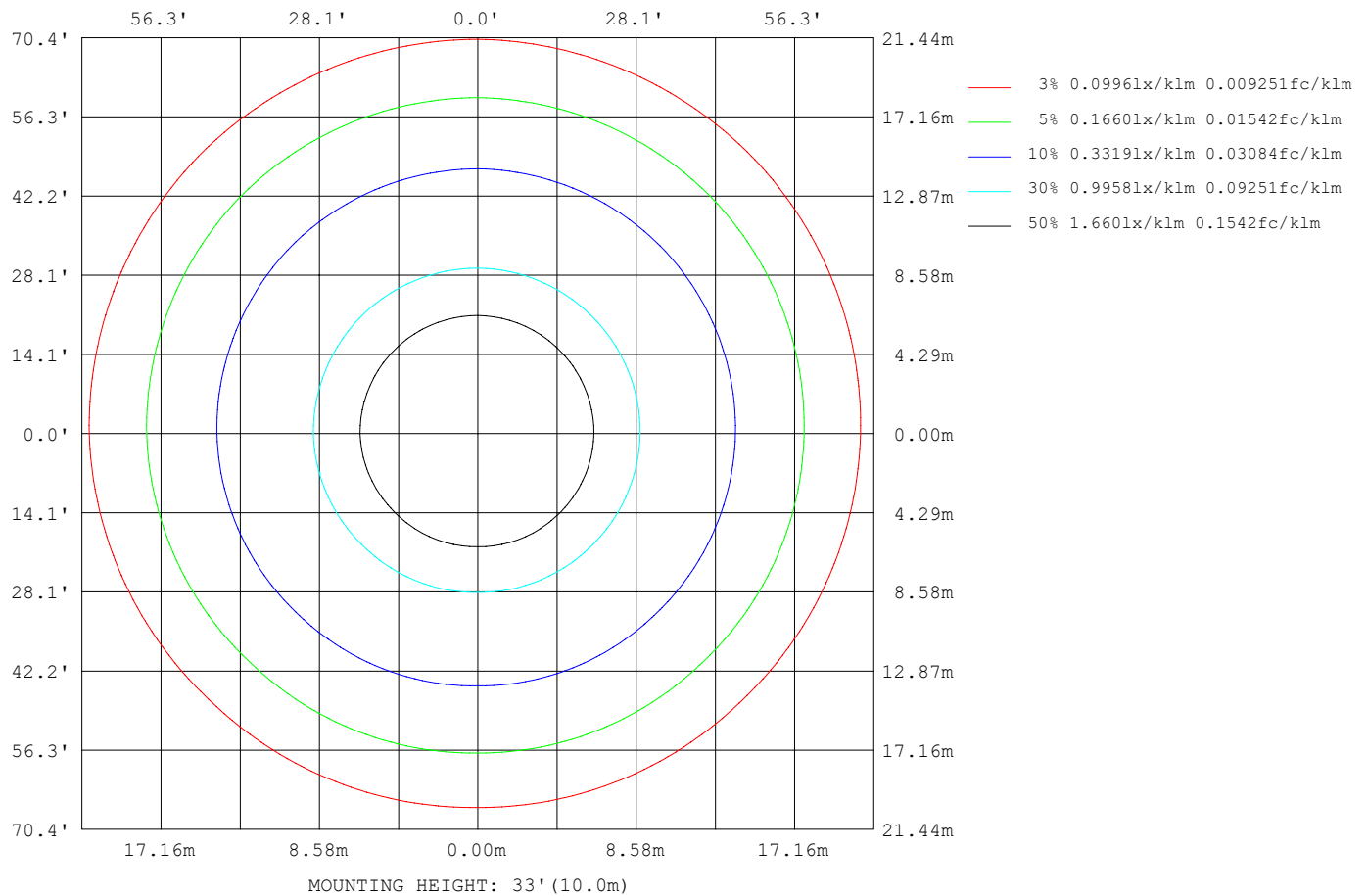
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.864m [K=1.0000]  
Remarks:

# SERIE GIRO

## INFORMACIÓN FOTOMÉTRICA:

**astro**  
LED Lighting

### ISOLUX DIAGRAM



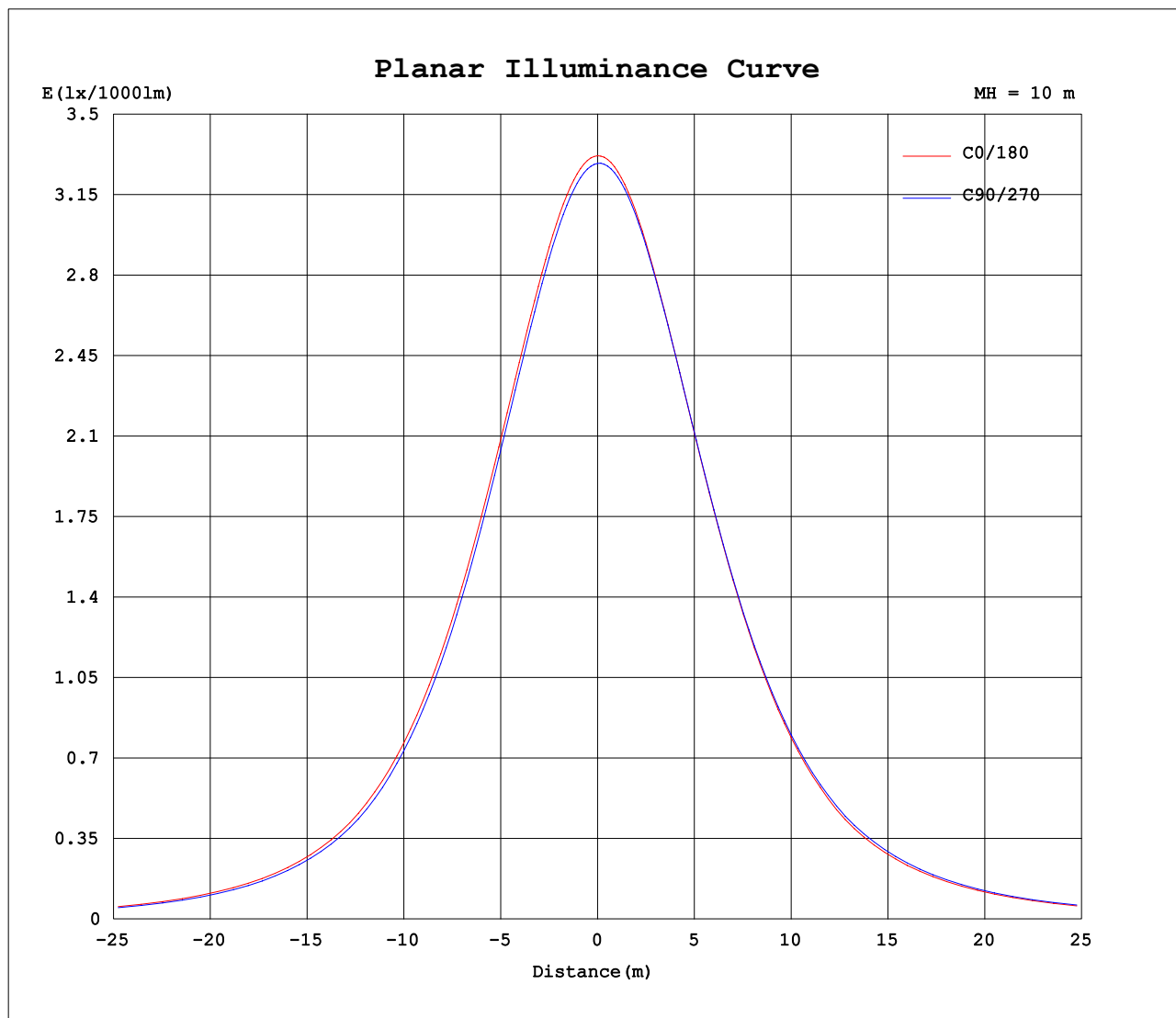
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-04-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.864m [K=1.0000]  
Remarks:

# SERIE GIRO

## INFORMACIÓN FOTOMÉTRICA:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-04-14

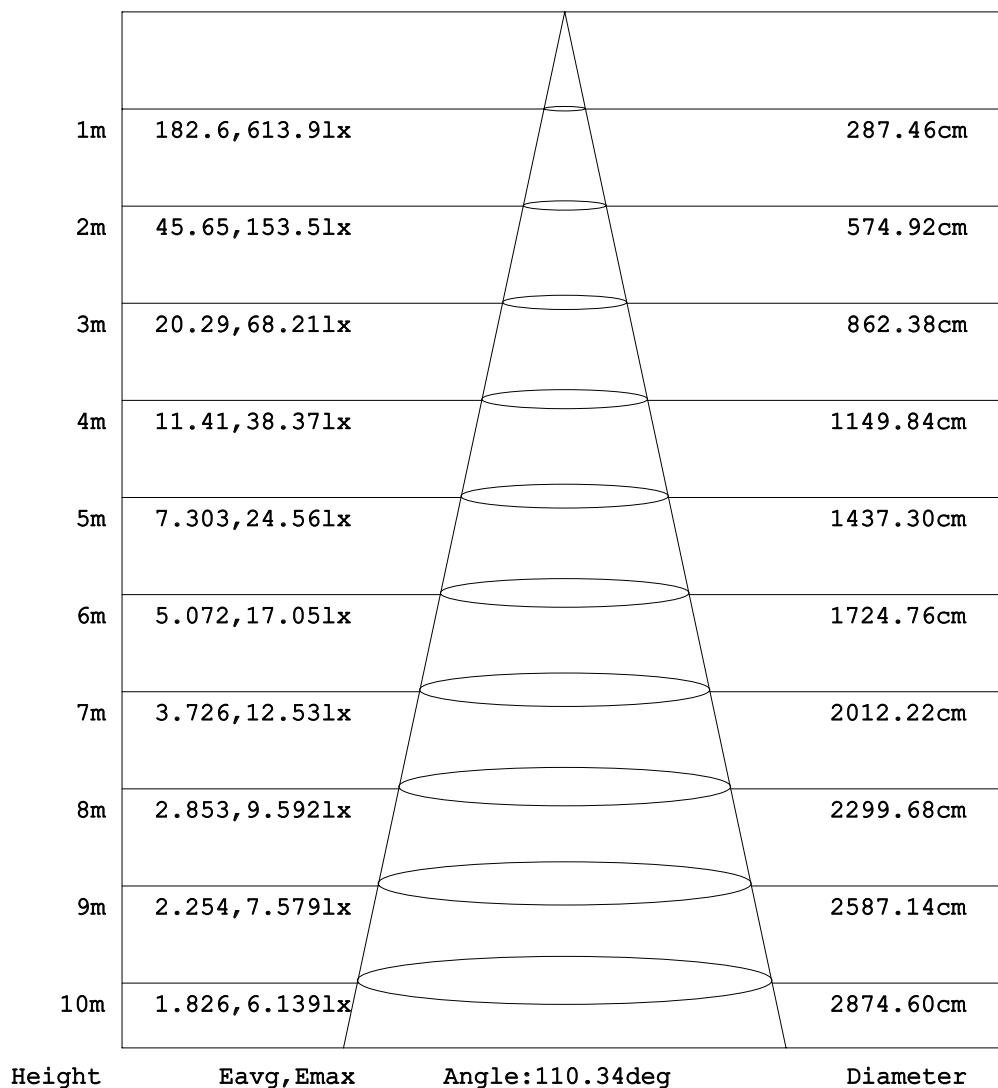
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.864m [K=1.0000]  
Remarks:

# SERIE GIRO

## INFORMACIÓN FOTOMÉTRICA:

### AAI Figure

Flux out:1261 lm



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-04-14

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.864m [K=1.0000]  
Remarks: