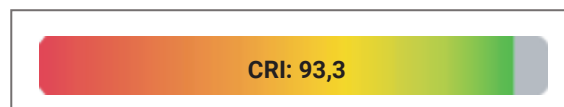


# Arty Profile 3000K 90 CRI @ 12V DC

25–50°, dimmer

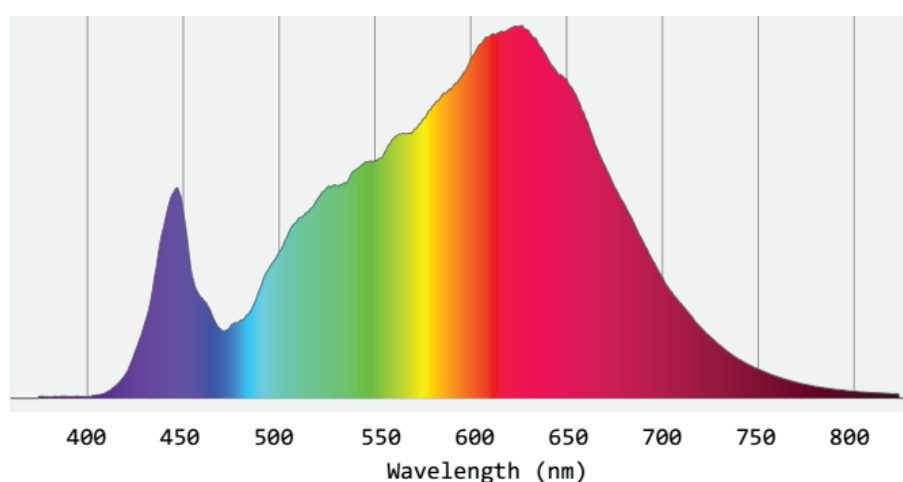
Applies to following luminaires:

ARTPZ30C-\*



|                                                   |         |
|---------------------------------------------------|---------|
| Color fidelity<br>TM-30-15 Rf                     | 90,5    |
| Color Gamut<br>TM-30-15 Rg                        | 103,5   |
| Color quality scale<br>CQS                        | 90,2    |
| Color diviation from<br>black body<br>$\Delta uv$ | -0,0024 |
| Red component<br>CRI R9                           | 66,7    |

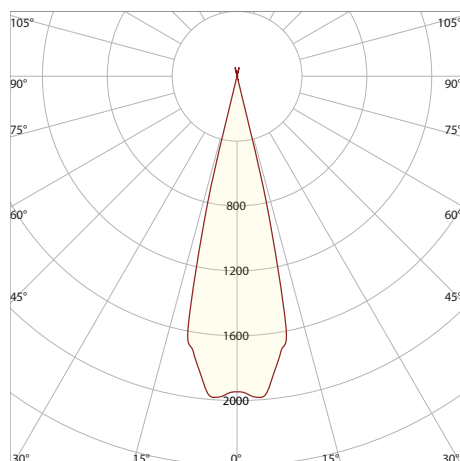
## Light spectrum



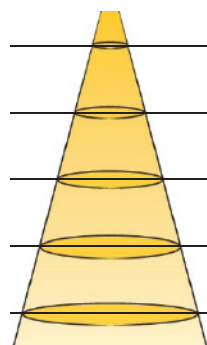
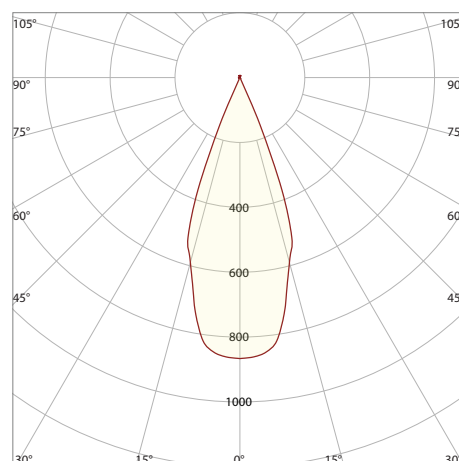
## Cone Diagram

Cone diagram gives the lux output from different distances, with a specific beam angle.

### Narrowest Beam Angle



### Widest Beam Angle



| Cut off Angle <b>29,9°</b>       |     |      | Cut off Angle <b>50,5°</b>       |     |  |
|----------------------------------|-----|------|----------------------------------|-----|--|
| Field angle 10% <b>29,2°</b>     |     |      | Field angle 10% <b>48,4°</b>     |     |  |
| Half peak 50% <b>25,1°</b>       |     |      | Half peak 50% <b>38,8°</b>       |     |  |
| Distance                         | Ø   | lux  | Ø                                | lux |  |
| 1                                | 0,4 | 1949 | 0,7                              | 865 |  |
| 2                                | 0,9 | 487  | 1,4                              | 216 |  |
| 3                                | 1,3 | 217  | 2,1                              | 96  |  |
| 4                                | 1,8 | 122  | 2,8                              | 54  |  |
| 5                                | 2,2 | 78   | 3,5                              | 35  |  |
| Lumen output: <b>287 lm</b>      |     |      | Lumen output: <b>286 lm</b>      |     |  |
| Light efficiency: <b>36 lm/W</b> |     |      | Light efficiency: <b>36 lm/W</b> |     |  |
| Peak candela: <b>1980 cd</b>     |     |      | Peak candela: <b>865 cd</b>      |     |  |

From the diagram above, at **29,9°** you will note that at 2m distance from the luminare you have a lux level of **487** and the coverage area is **0,9 m/diameter**.

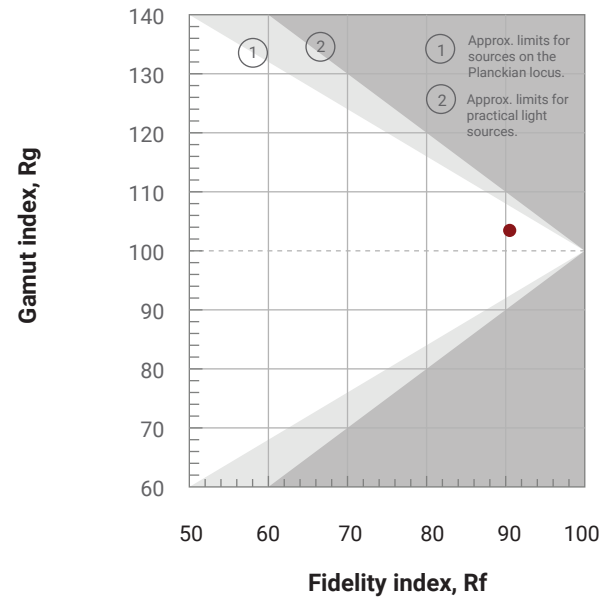
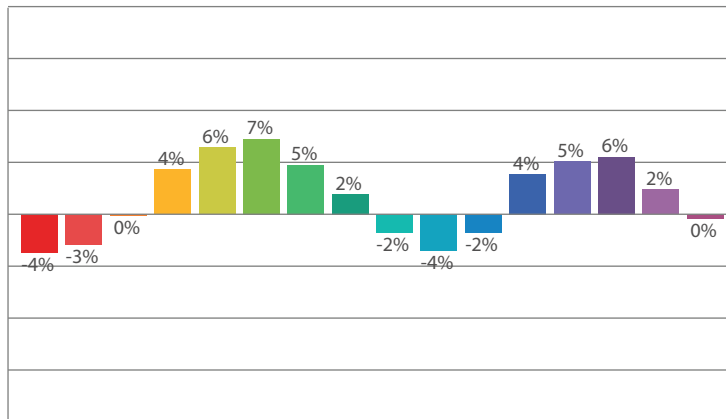
## TM30 details

**Rf 90,5**

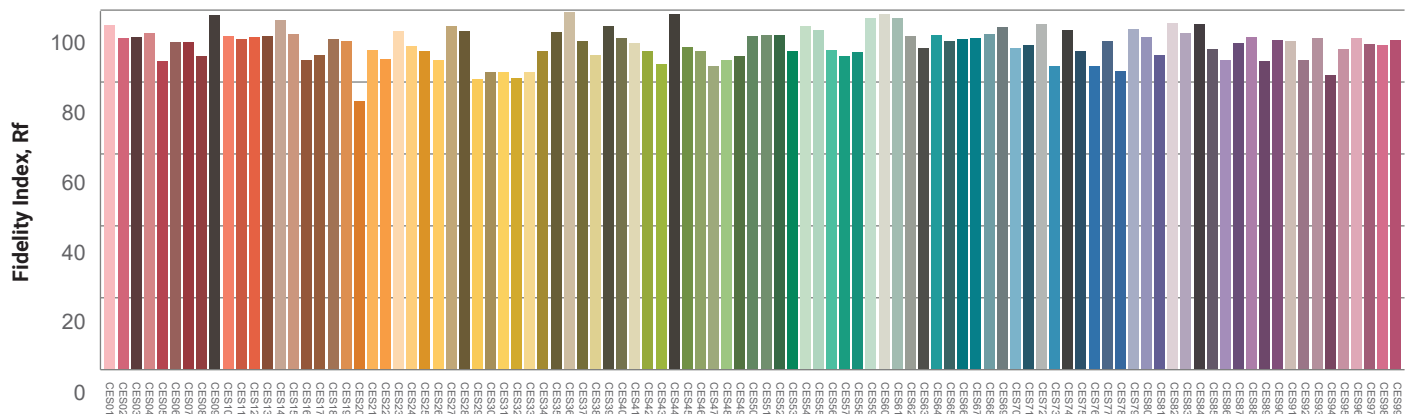
Fidelity index Rf

**Rg 103,5**

Gamut index Rg



## Color Fidelity Sample

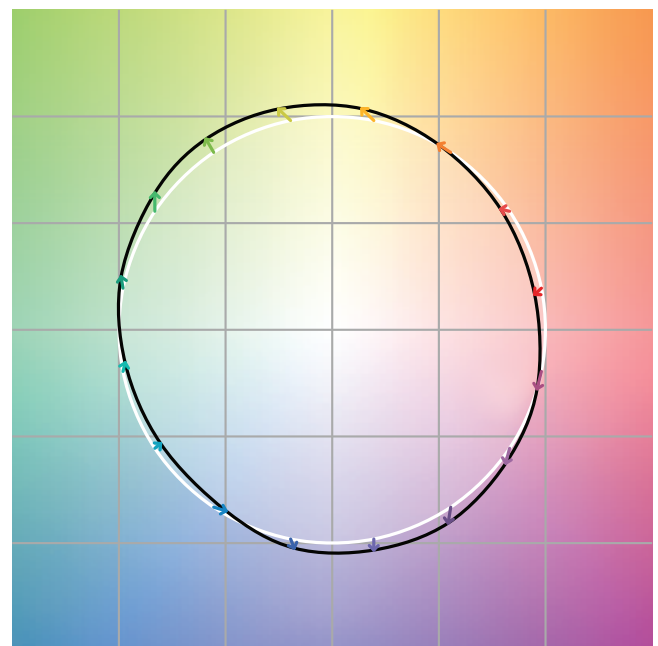


## Color Distortion Graphic



Black areas within the white circle indicates desaturation.

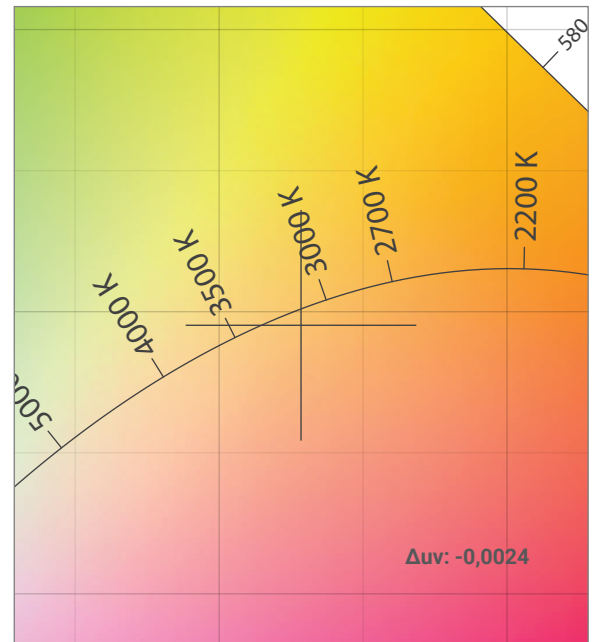
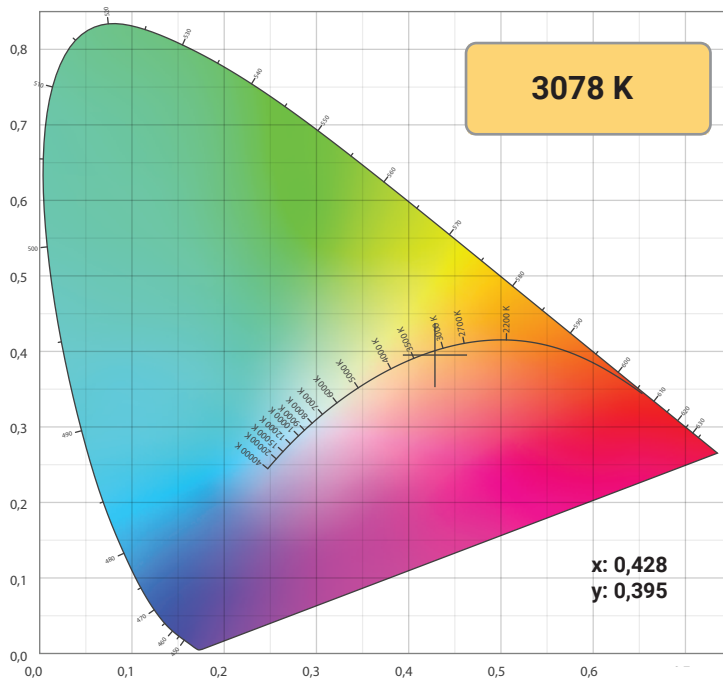
## Color Vector Graphic



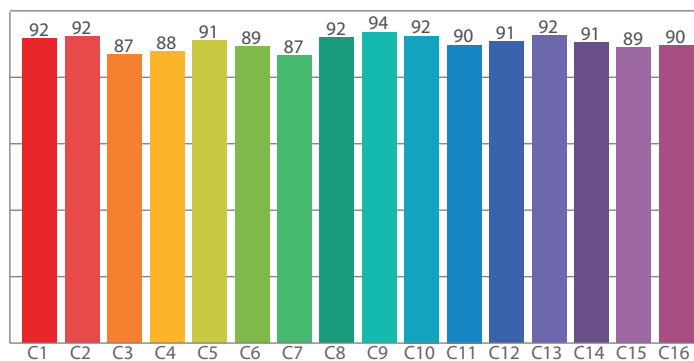
The arrows show how colors are distorted from their natural colors which lie on the white circle.

## Color details

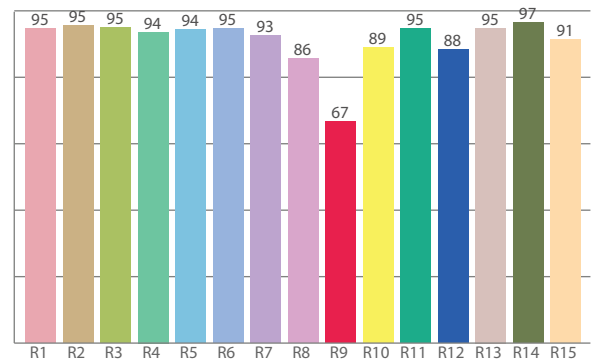
### CIE 1931



### TM30: 90,5



### CRI: 93,3



#### CRI R values, only R1-R8 are used to calculate final CRI value

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,8 | 95,5 | 95,1 | 93,6 | 94,4 | 94,8 | 92,6 | 85,8 | 66,7 | 89,0 | 94,6 | 88,3 | 94,8 | 96,5 | 91,3 |

#### TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,8 | 92,4 | 86,8 | 87,8 | 91,1 | 89,2 | 86,7 | 91,9 | 93,6 | 92,4 | 89,7 | 90,9 | 92,5 | 90,5 | 89,0 | 89,6 |

#### CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 86,8 | 97,5 | 88,2 | 90,7 | 90,6 | 87,1 | 87,7 | 92,4 | 97,2 | 91,6 | 91,9 | 91,9 | 92,7 | 88,6 | 87,8 |

### CQS: 90,2

