

Arty PAR 2700K 90 CRI @ 12V DC

500lm, interchangeable lenses, dimmer

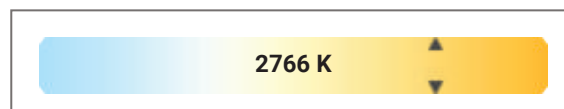
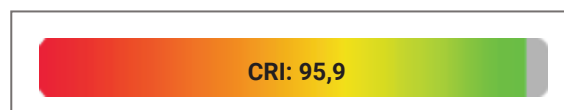
Applies to following luminaires:

ARTPAR30C-MT-*

ARTPAR30C-PT-*

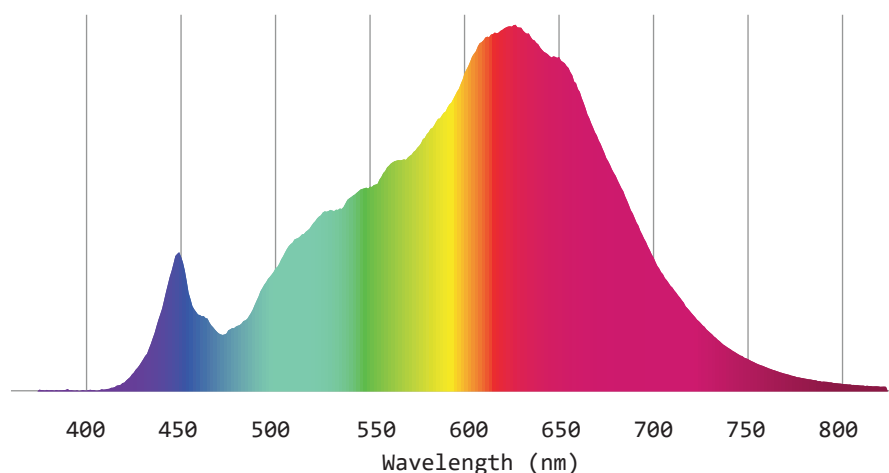
ARTPAR30C-LVS-*

ARTPAR30C-HV-*



Color fidelity TM-30-15 Rf	94,1
Color Gamut TM-30-15 Rg	101,6
Color quality scale CQS	93,0
Color diviation from black body Δuv	-0,0002
Red component CRI R9	72,5

Light spectrum

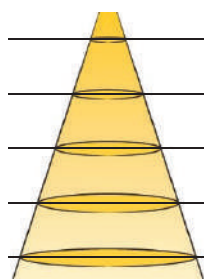


Photometrics and Optical data

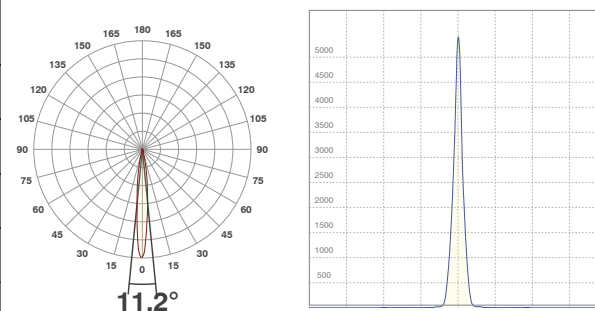
LENS:
**VERY
NARROW**

Beam Angle 50% **11,2°**
Field angle 10% **25,7°**
Cut off angle **32,1°**

Lumen output: **340 lm**
Light efficiency: **43 lm/W**
Peak candela: **5394 cd**



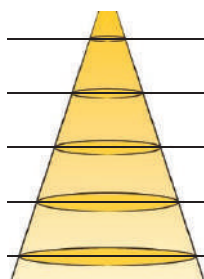
Distance	Ø	lux
1	0,2	5368
2	0,4	1342
3	0,6	596
4	0,8	336
5	1	215



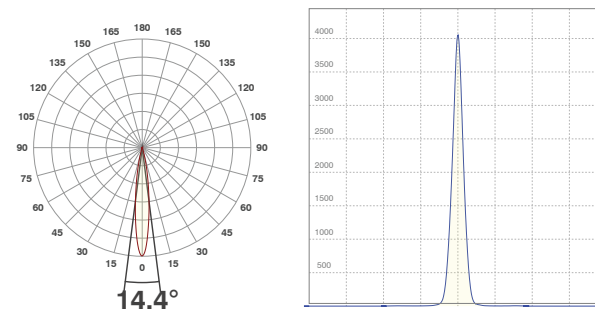
LENS:
**NARROW
(Default)**

Beam Angle 50% **14,4°**
Field angle 10% **28,5°**
Cut off angle **36,4°**

Lumen output: **345 lm**
Light efficiency: **43 lm/W**
Peak candela: **4042 cd**



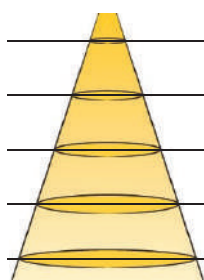
Distance	Ø	lux
1	0,3	4035
2	0,5	1009
3	0,8	448
4	1	252
5	1,3	161



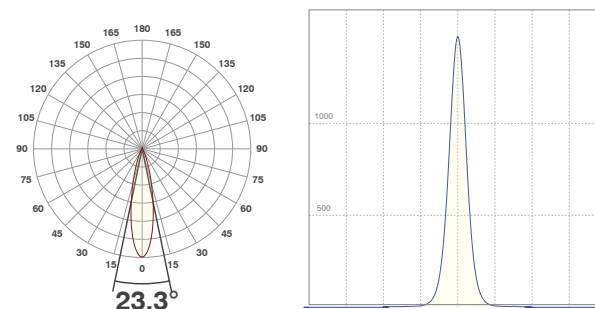
LENS:
MEDIUM

Beam Angle 50% **23,3°**
Field angle 10% **46°**
Cut off angle **64,2°**

Lumen output: **333 lm**
Light efficiency: **42 lm/W**
Peak candela: **1471 cd**



Distance	Ø	lux
1	0,4	1467
2	0,8	367
3	1,2	163
4	1,6	92
5	2,1	59

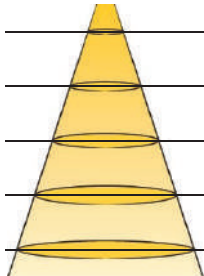


Photometrics and Optical data

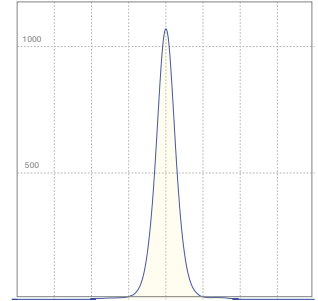
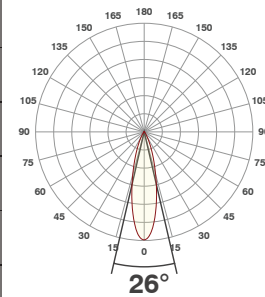
LENS:
WIDE

Beam Angle 50% **26°**
Field angle 10% **53°**
Cut off angle **73,2°**

Lumen output: **315 lm**
Light efficiency: **39 lm/W**
Peak candela: **1070 cd**



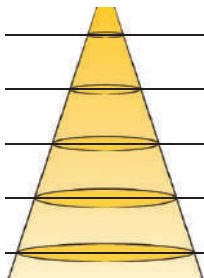
Distance	Ø	lux
1	0,5	1069
2	0,9	267
3	1,4	119
4	1,8	67
5	2,3	43



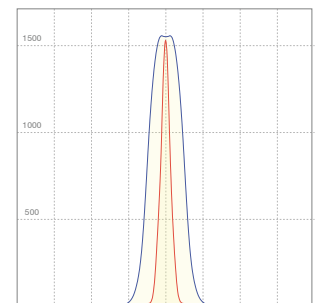
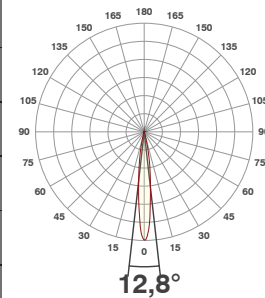
LENS:
ELLIPTICAL

Beam Angle 50% **45,9 x 12,8°**

Lumen output: **514 lm**
Light efficiency: **64 lm/W**
Peak candela: **1556 cd**



Distance	Ø	lux
1	0,5	1522
2	1	381
3	1,6	169
4	2,1	95
5	2,6	61



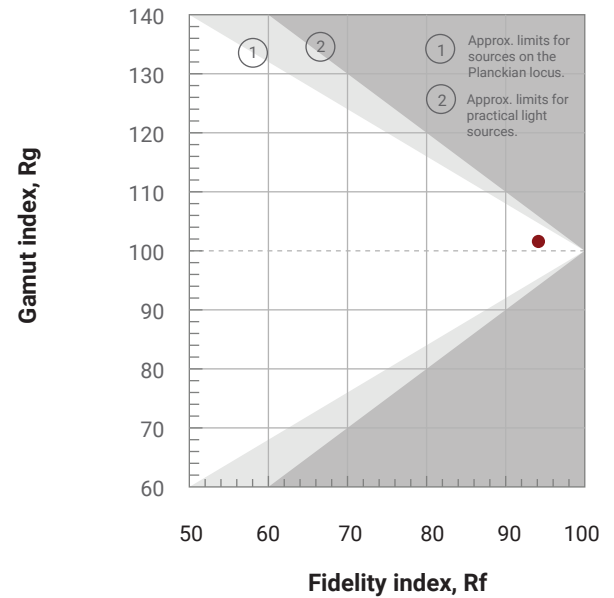
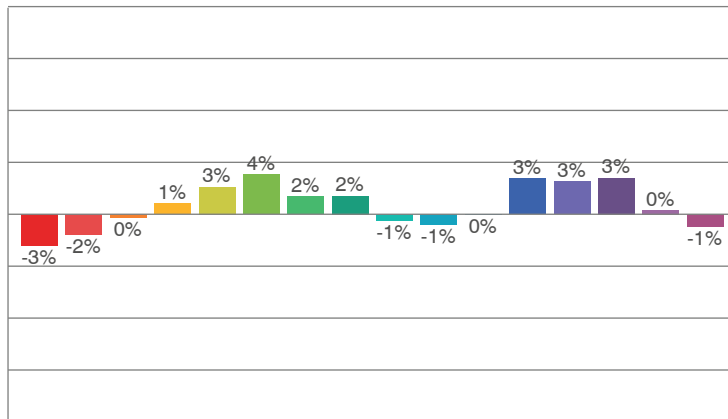
TM30 details

Rf 94,1

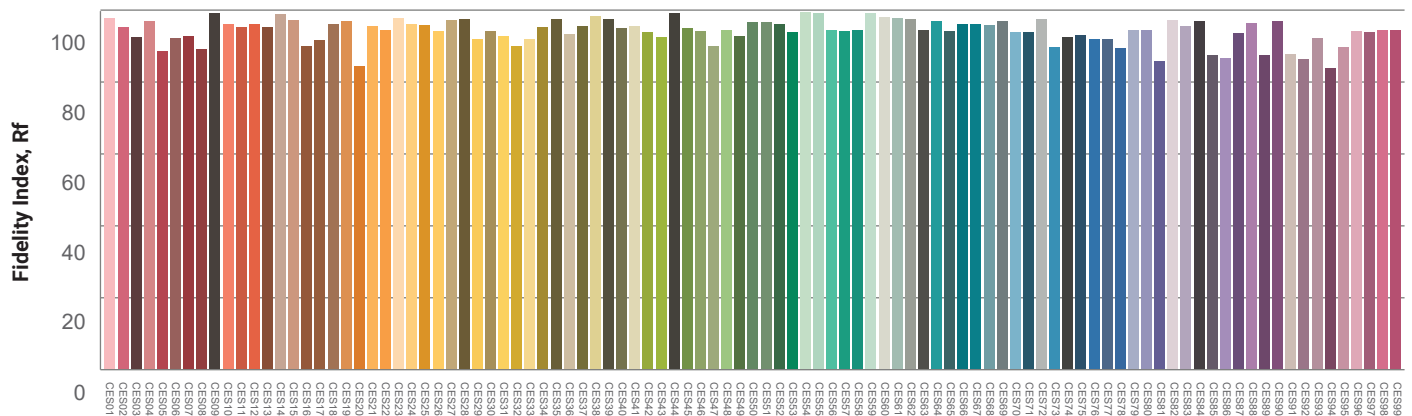
Fidelity index Rf

Rg 101,6

Gamut index Rg



Color Fidelity Sample

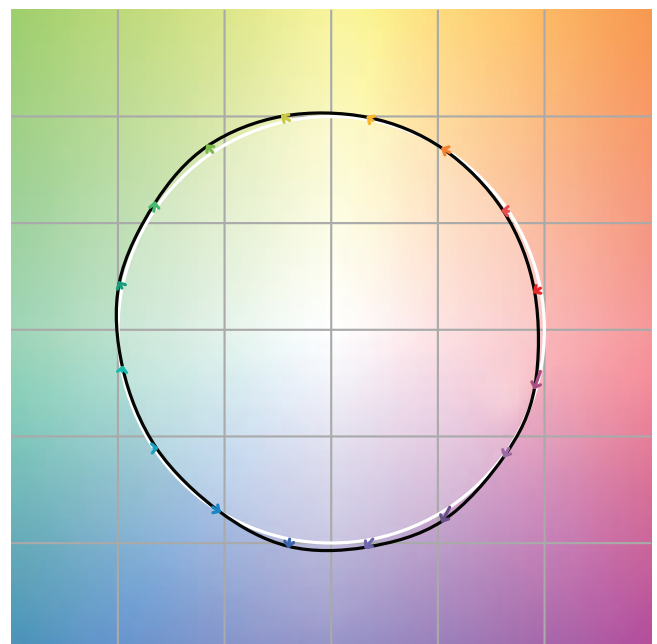


Color Distortion Graphic



Black areas within the white circle indicates desaturation.

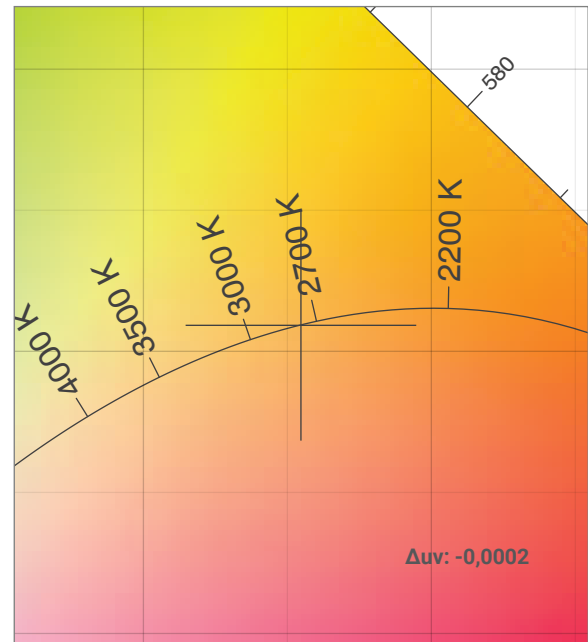
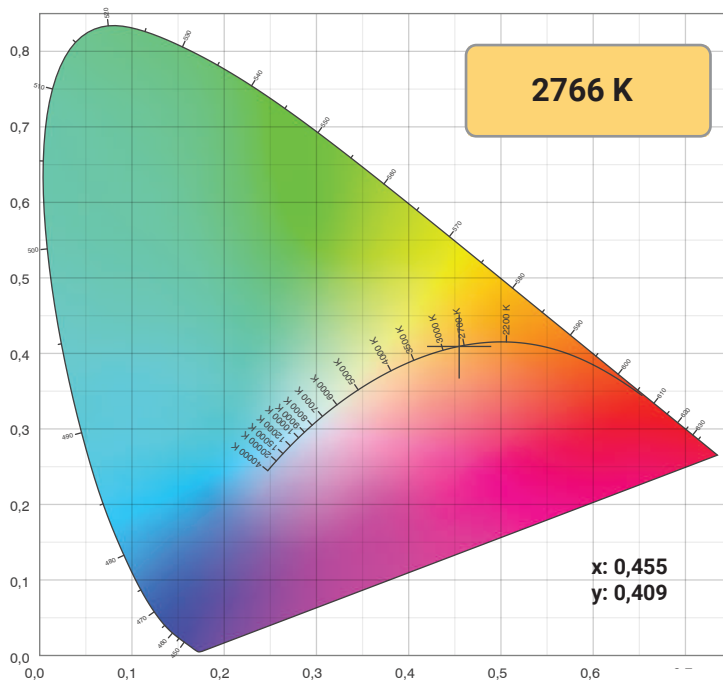
Color Vector Graphic



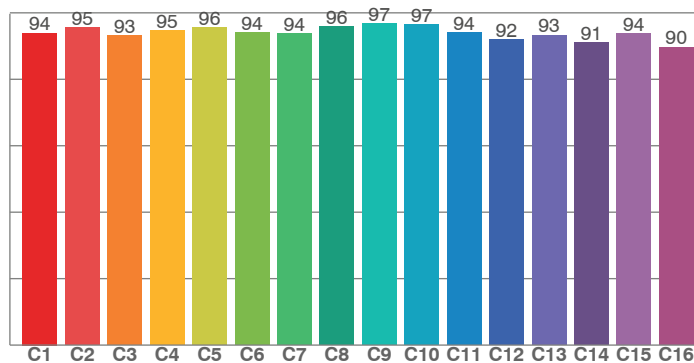
The arrows show how colors are distorted from their natural colors which lie on the white circle.

Color details

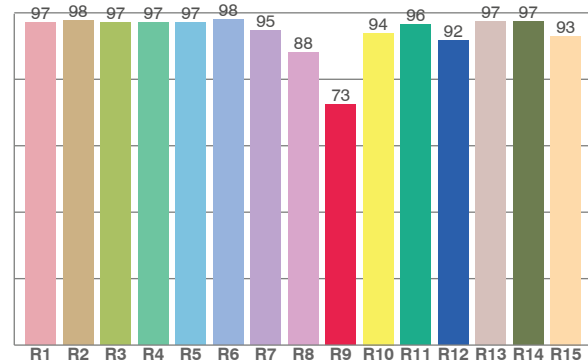
CIE 1931



TM30: 94,1



CRI: 95,9



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
97,1	97,7	97,2	97,2	97,0	97,9	94,8	88,1	72,5	93,9	96,5	91,7	97,4	97,5	93,0

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
93,9	95,5	93,1	94,8	95,5	94,1	93,7	95,8	96,8	96,5	94,2	92,0	93,3	91,1	93,7	89,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,8	96,2	92,4	94,6	93,7	91,2	92,1	94,7	97,6	95,0	95,9	95,8	95,5	90,3	90,0

CQS: 93,0

