

Dinkey 2700K 90 CRI @ 12V DC

250lm, interchangeable lenses

Applies to following luminaires:

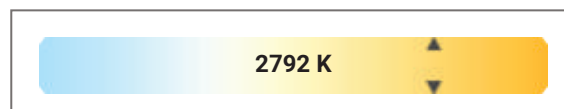
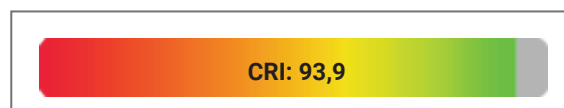
DIN27-MT-*

DIN27-PT-*

DIN27-LVS-*

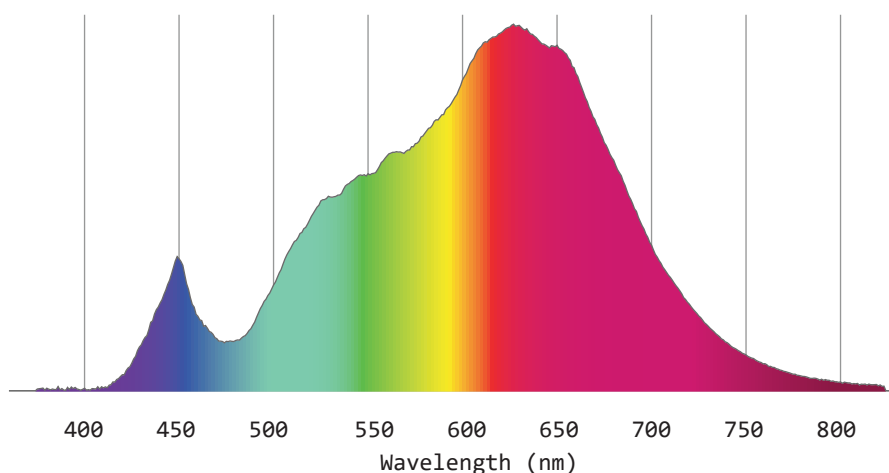
DIN27-CCL-*

DIN27-CCS-*



Color fidelity TM-30-15 Rf	91,9
Color Gamut TM-30-15 Rg	102,8
Color quality scale CQS	91,1
Color diviation from black body Δuv	0,0011
Red component CRI R9	75,0

Light spectrum



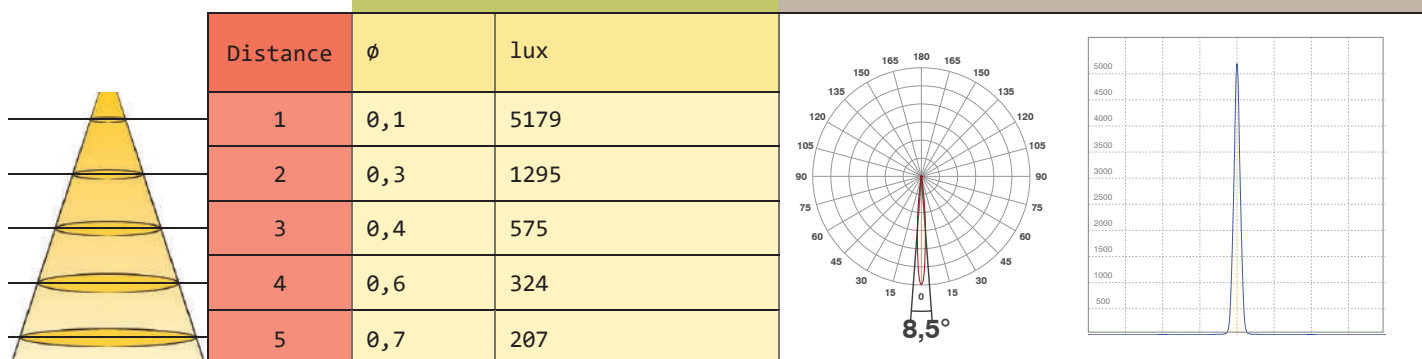
Photometrics and Optical data

LENS:
**VERY
NARROW**

Beam Angle 50%
Field angle 10%
Cut off angle

**8,5°
16,5°
20,6°**

Lumen output: **159 lm**
Light efficiency: **40 lm/W**
Peak candela: **5179 cd**

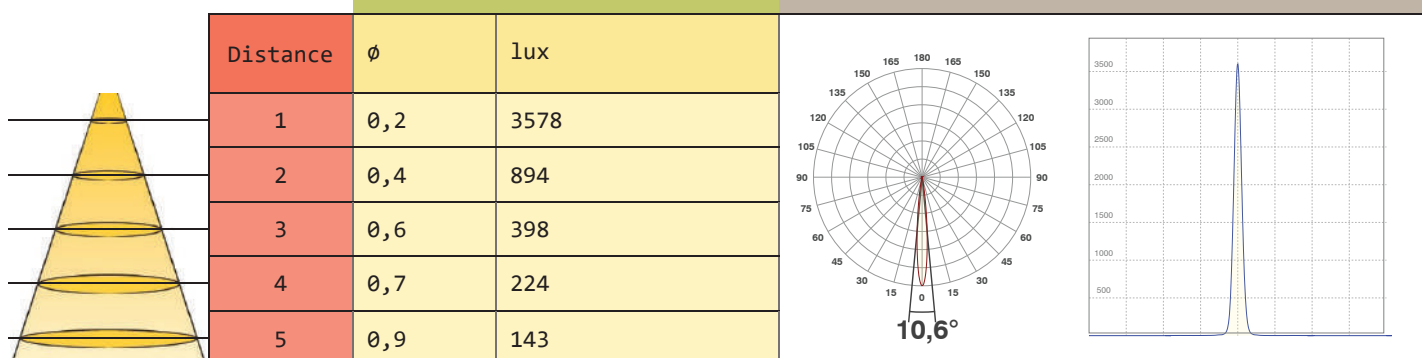


LENS:
**NARROW
(Default)**

Beam Angle 50%
Field angle 10%
Cut off angle

**10,6°
19,8°
26°**

Lumen output: **160 lm**
Light efficiency: **40 lm/W**
Peak candela: **3583 cd**

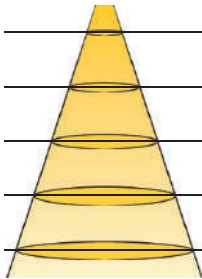


Photometrics and Optical data

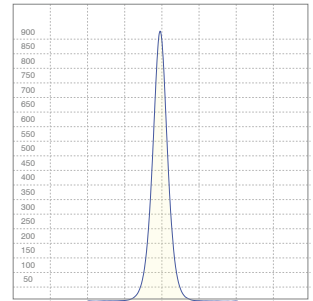
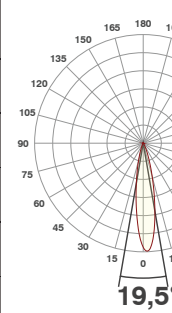
LENS: MEDIUM

Beam Angle 50% **19,5°**
Field angle 10% **40,5°**
Cut off angle **56,9°**

Lumen output: **164 lm**
Light efficiency: **41 lm/W**
Peak candela: **927 cd**



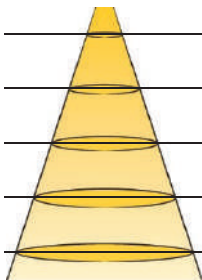
Distance	Ø	lux
1	0,3	891
2	0,7	223
3	1	99
4	1,4	56
5	1,7	36



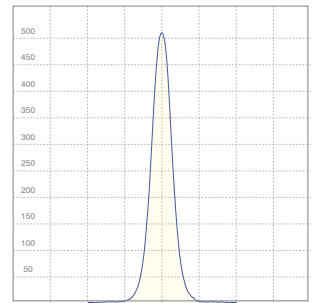
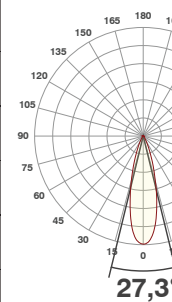
LENS: WIDE

Beam Angle 50% **27,3°**
Field angle 10% **51,8°**
Cut off angle **71,9°**

Lumen output: **153 lm**
Light efficiency: **38 lm/W**
Peak candela: **510 cd**



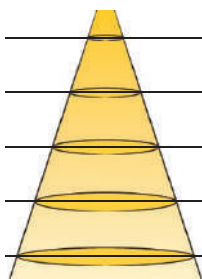
Distance	Ø	lux
1	0,5	508
2	1	127
3	1,5	56
4	1,9	32
5	2,4	20



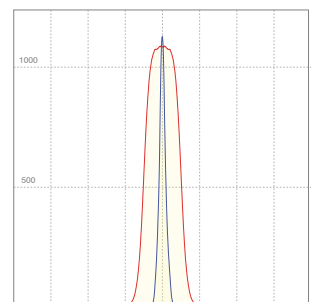
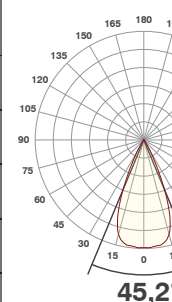
LENS: ELLIPTICAL

Beam Angle 50% **45,2 x 7,8°**

Lumen output: **320 lm**
Light efficiency: **80 lm/W**
Peak candela: **1126 cd**



Distance	Ø	lux
1	0,5	1104
2	0,9	276
3	1,4	123
4	1,9	69
5	2,4	44



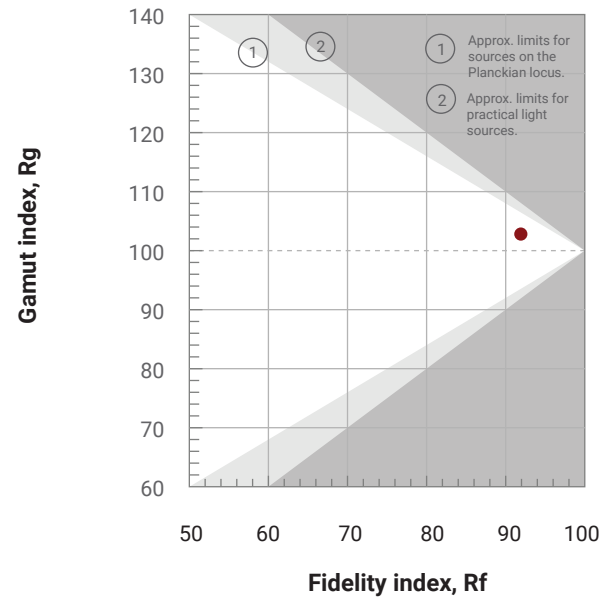
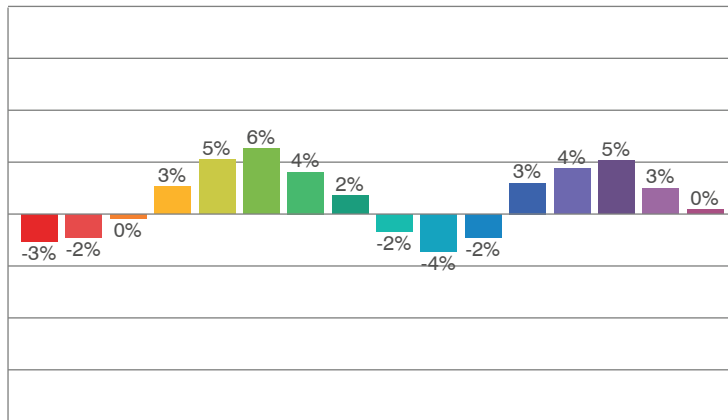
TM30 details

Rf 91,9

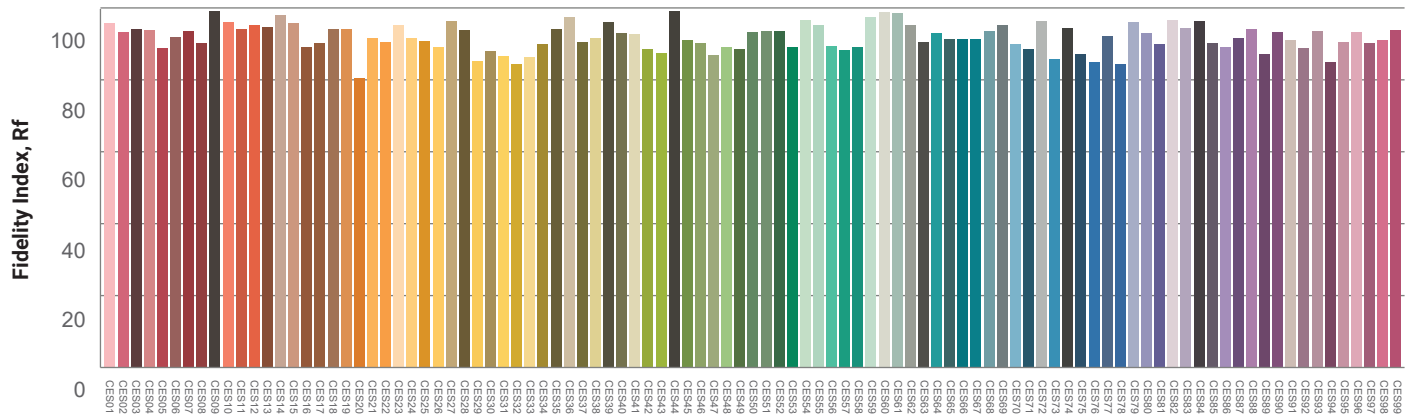
Fidelity index Rf

Rg 102,8

Gamut index Rg



Color Fidelity Sample

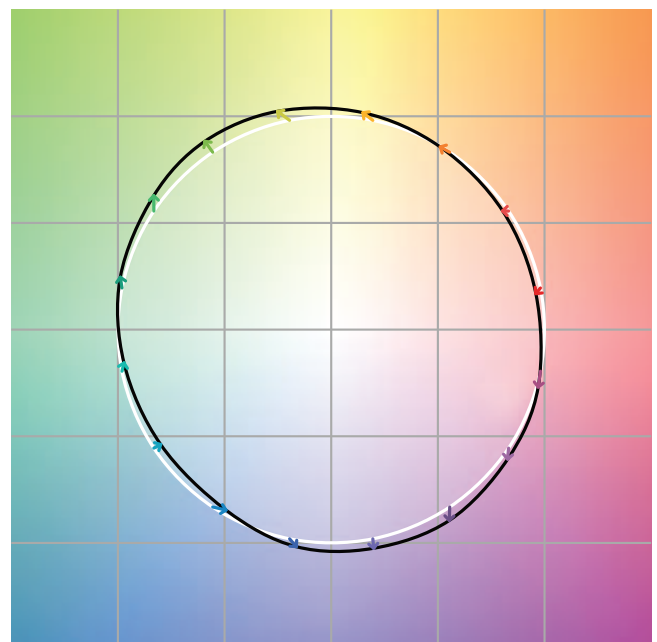


Color Distortion Graphic



Black areas within the white circle indicates desaturation.

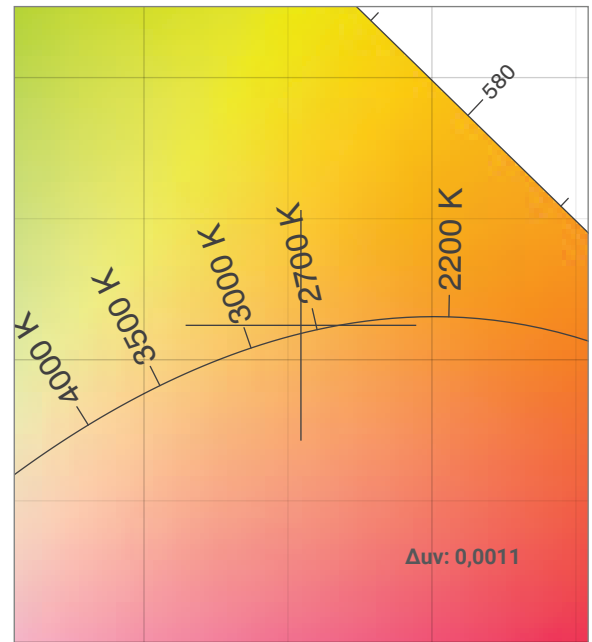
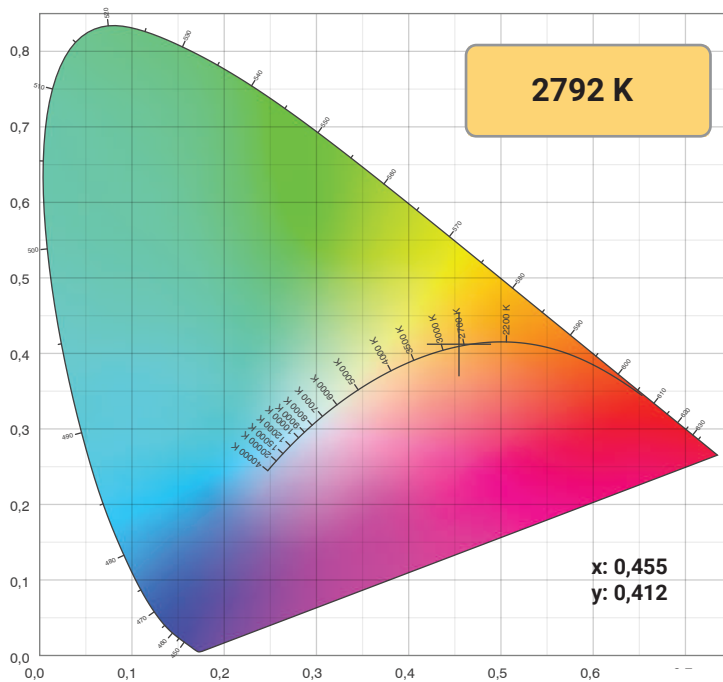
Color Vector Graphic



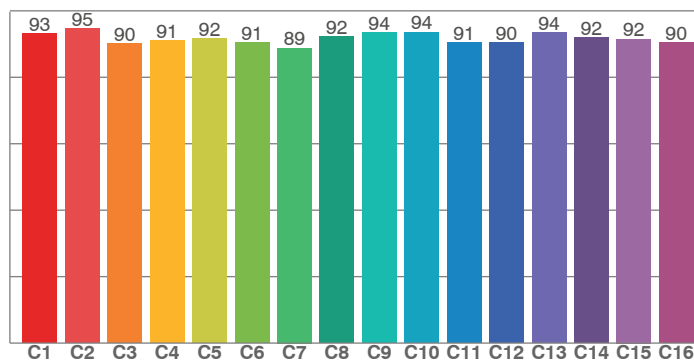
The arrows show how colors are distorted from their natural colors which lie on the white circle.

Color details

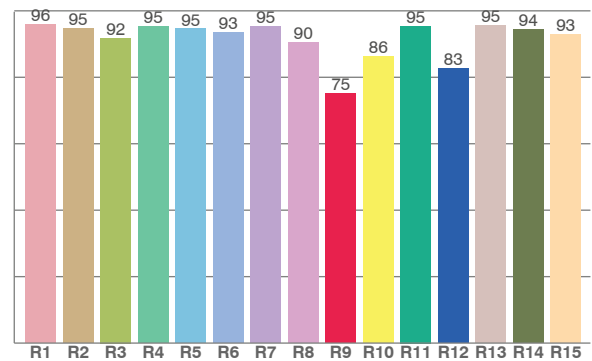
CIE 1931



TM30: 91,9



CRI: 93,9



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
96,0	94,8	91,8	95,2	94,6	93,5	95,3	90,4	75,0	86,4	95,4	82,6	95,5	94,3	92,8

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
93,3	94,8	90,2	91,0	91,6	90,5	88,8	92,4	93,5	93,6	90,5	90,4	93,5	91,9	91,5	90,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88,8	97,0	89,0	91,0	90,0	86,7	88,2	93,9	95,4	92,5	93,9	94,8	95,4	90,6	89,8

CQS: 91,1

