

Gekko LED Module 3000K 90 CRI @ 700 mA

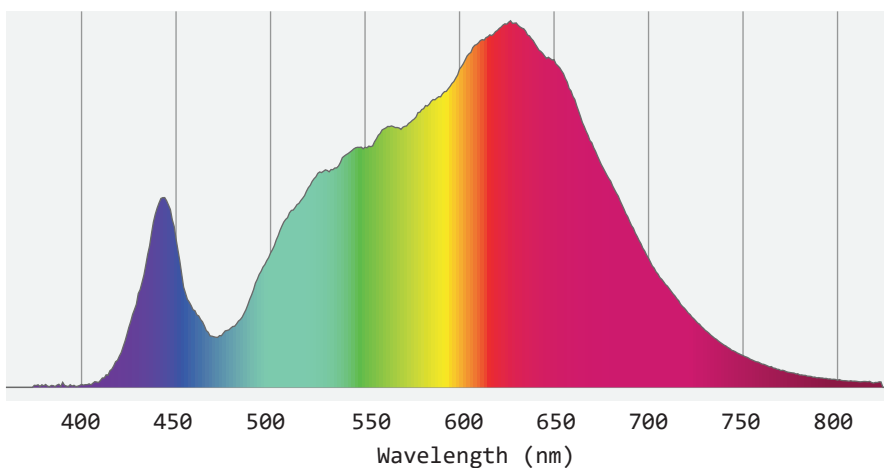
Description

Applies to following luminaires:



Color fidelity TM-30-15 Rf	89,2
Color Gamut TM-30-15 Rg	104,3
Color quality scale CQS	89,7
Color diviation from black body Δuv	-0,0002
Red component CRI R9	72,9

Light spectrum

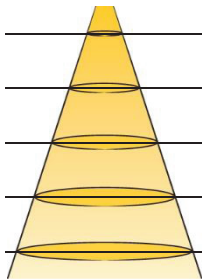


Photometrics and Optical data

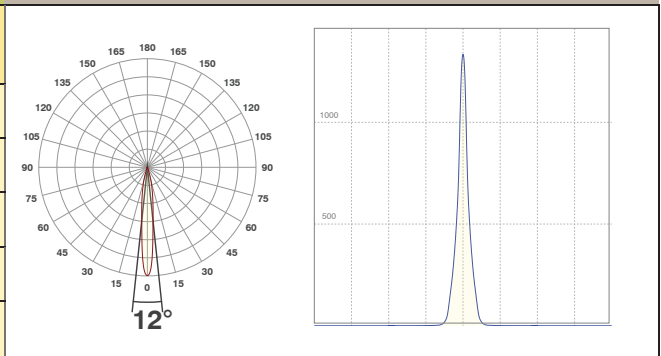
LENS:
NARROW

Beam Angle 50% **12°**
Field angle 10% **32,3°**
Cut off angle **40,8°**

Lumen output: **116 lm**
Light efficiency:
Peak candela: **1329 cd**



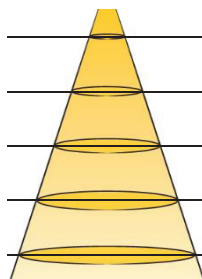
Distance	∅	lux
1	0,2	1329
2	0,4	332
3	0,6	148
4	0,8	83
5	1,1	53



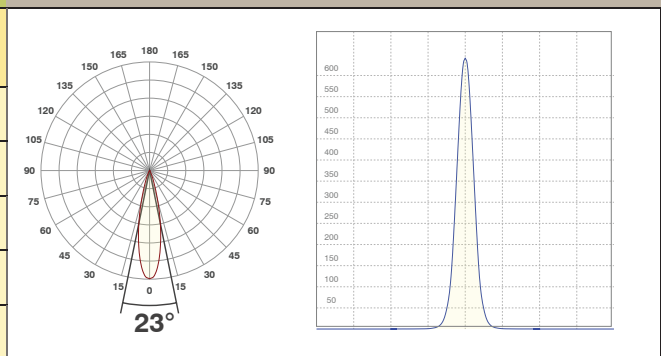
LENS:
MEDIUM

Beam Angle 50% **23°**
Field angle 10% **41,7°**
Cut off angle **55,6°**

Lumen output: **119 lm**
Light efficiency:
Peak candela: **640 cd**



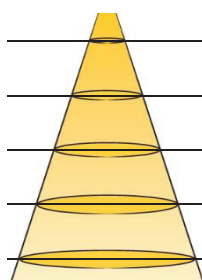
Distance	∅	lux
1	0,4	640
2	0,8	160
3	1,2	71
4	1,6	40
5	2	26



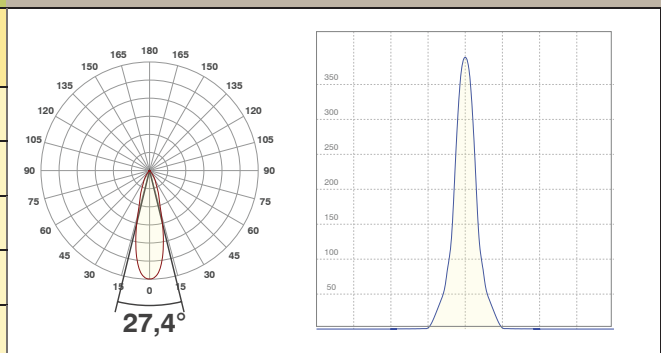
LENS:
WIDE

Beam Angle 50% **27,4°**
Field angle 10% **60,4°**
Cut off angle **80,7°**

Lumen output: **125 lm**
Light efficiency:
Peak candela: **387 cd**



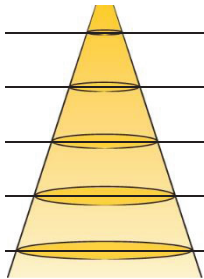
Distance	∅	lux
1	0,5	387
2	1	97
3	1,5	43
4	1,9	24
5	2,4	15



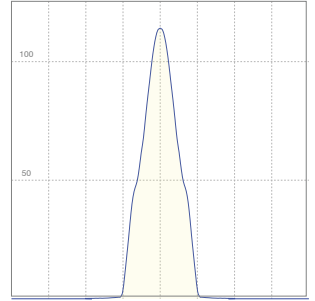
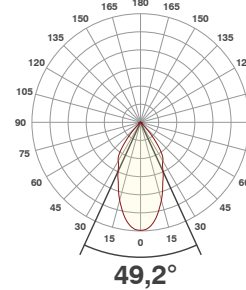
LENS:
VERY WIDE

Beam Angle 50% **49,2°**
Field angle 10% **84,9°**
Cut off angle **91,2°**

Lumen output: **87,6 lm**
Light efficiency:
Peak candela: **114 cd**



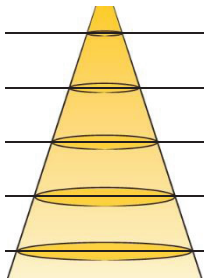
Distance	∅	lux
1	0,9	114
2	1,8	29
3	2,7	13
4	3,7	7
5	4,6	5



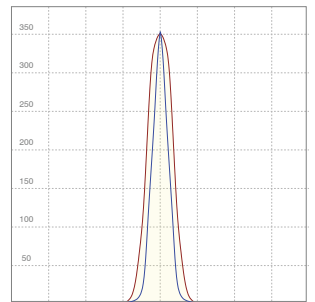
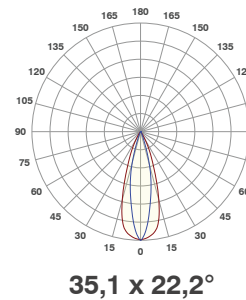
LENS:
ELLIPTICAL

Beam Angle 50% **35,1 x 22,2°**

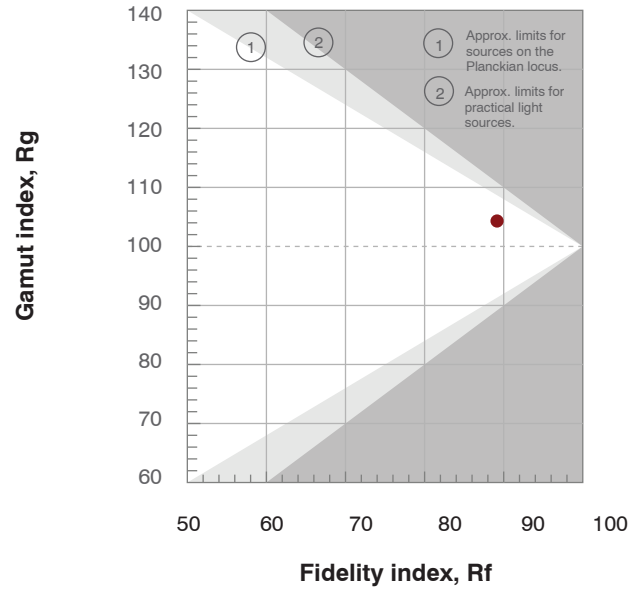
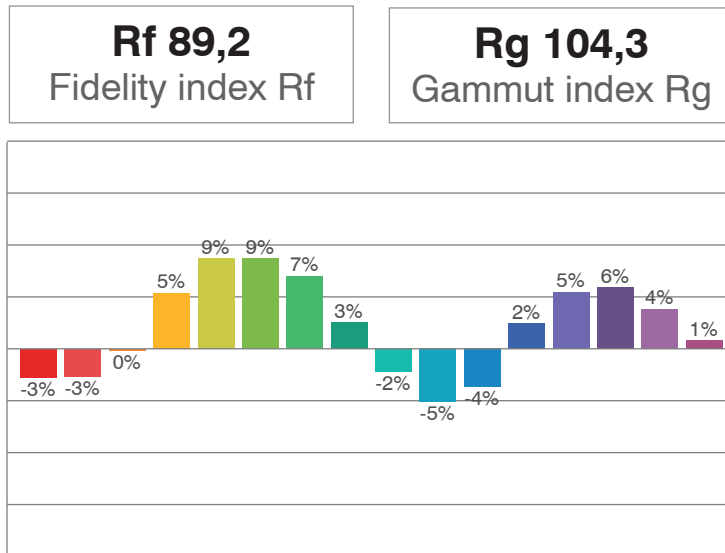
Lumen output: **134 lm**
Light efficiency:
Peak candela: **351 cd**



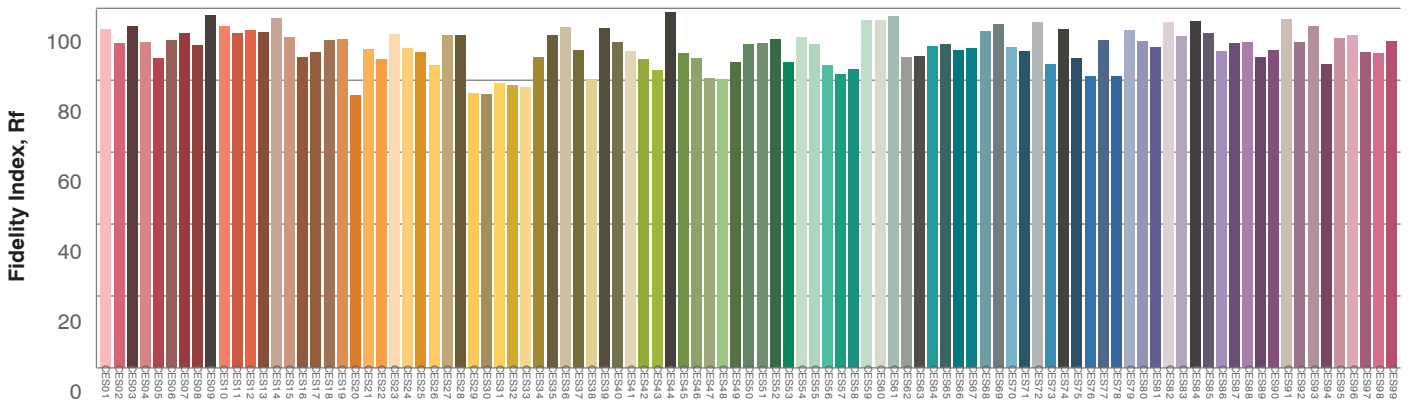
Distance	∅	lux
1	0,6	351
2	1,3	88
3	1,9	39
4	2,5	22
5	3,2	14



TM30 details



Color Fidelity Sample

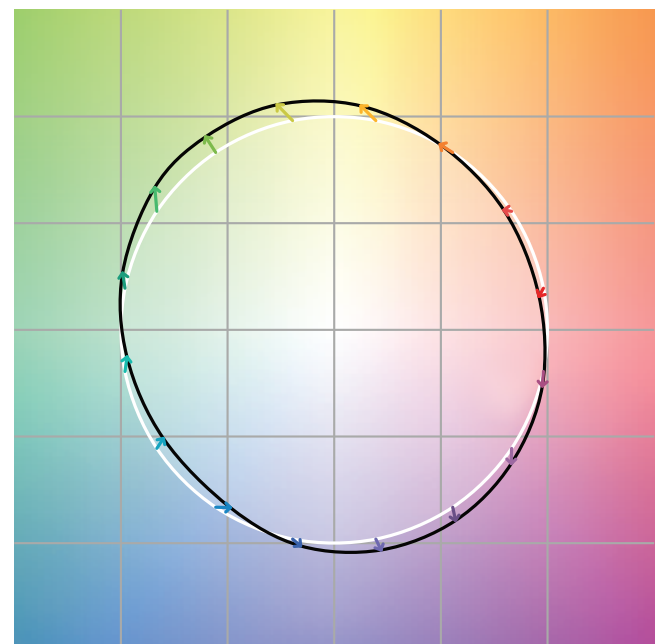


Color Distortion Graphic



Black areas within the white circle indicates desaturation.

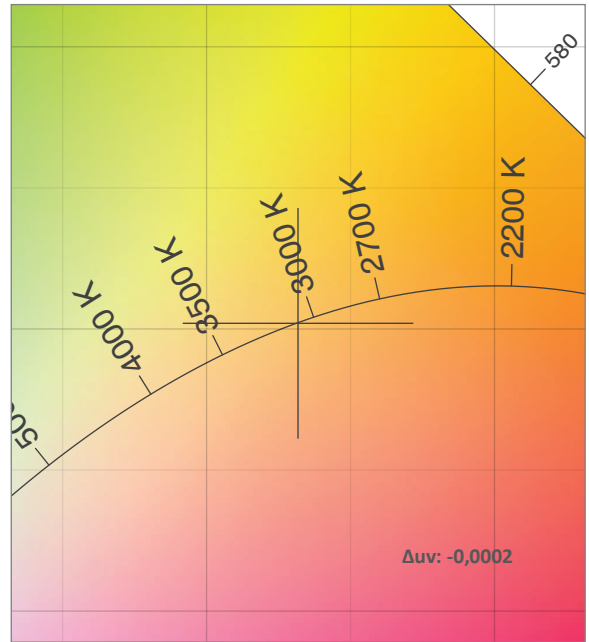
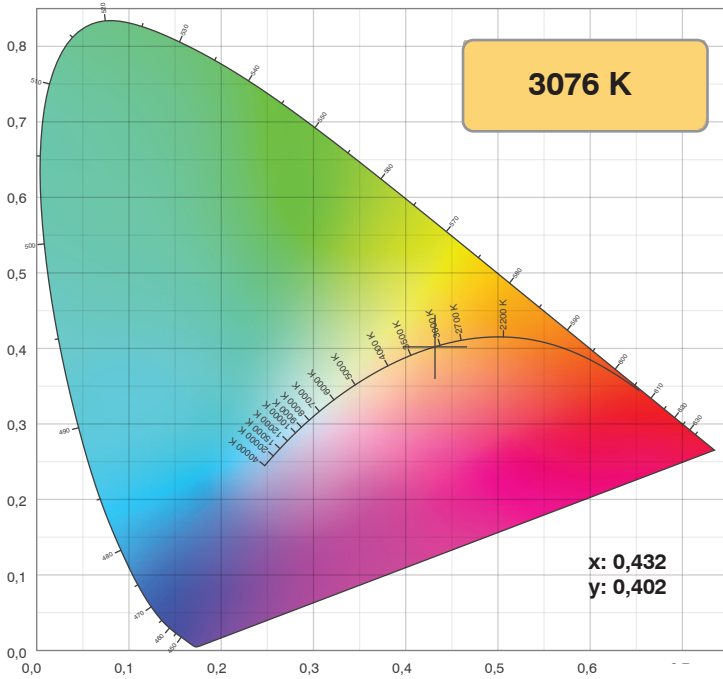
Color Vector Graphic



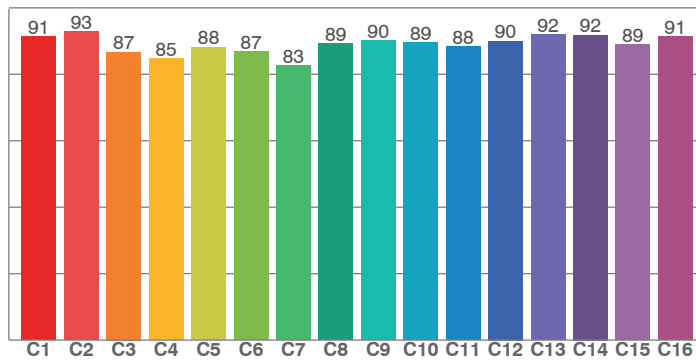
The arrows show how colors are distorted from their natural colors which lie on the white circle.

Color details

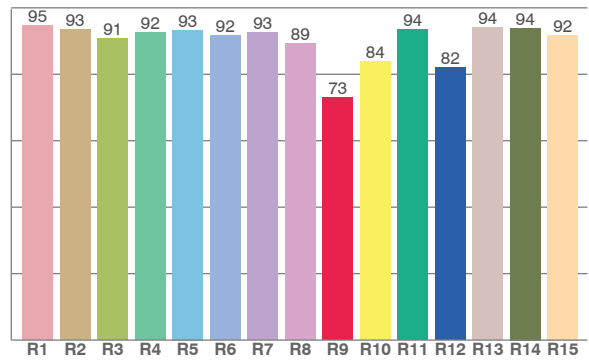
CIE 1931



TM30: 89,2



CRI: 92,3



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	93,4	90,7	92,5	93,3	91,6	92,7	89,1	72,9	83,8	93,6	82,1	94,0	93,9	91,8

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
91,5	93,0	86,7	84,8	88,2	86,9	82,6	89,2	90,2	89,4	88,4	90,0	92,0	91,8	88,9	91,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86,4	96,7	88,1	89,6	87,6	83,6	86,7	93,6	95,5	90,8	92,6	93,8	94,8	90,1	88,4

CQS: 89,7

