

## Light efficiency:

**145 Lumen/Watt****Output: 1945 lm**

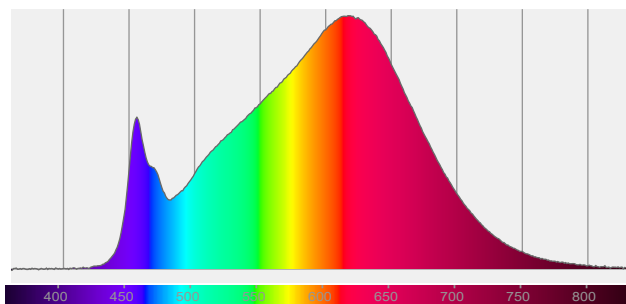
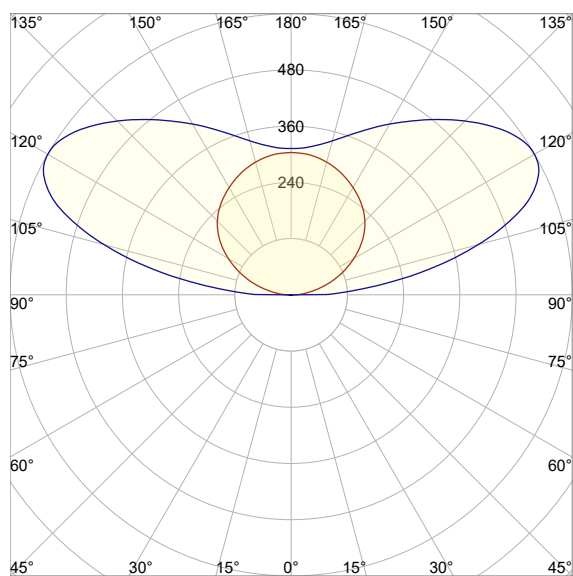
## Light quality:

**CRI: 91.6****Peak: 599 cd**

## Color temperature:

**3037 K****Power: 13.5 W****PF: 1.0**

No photo



## Product name:

**NANOBeam Cosine 120°**

## Item number:

**NBE9545**

## Configuration:

**NBE9545-4FT-3090-WT-IC120-500LPF**

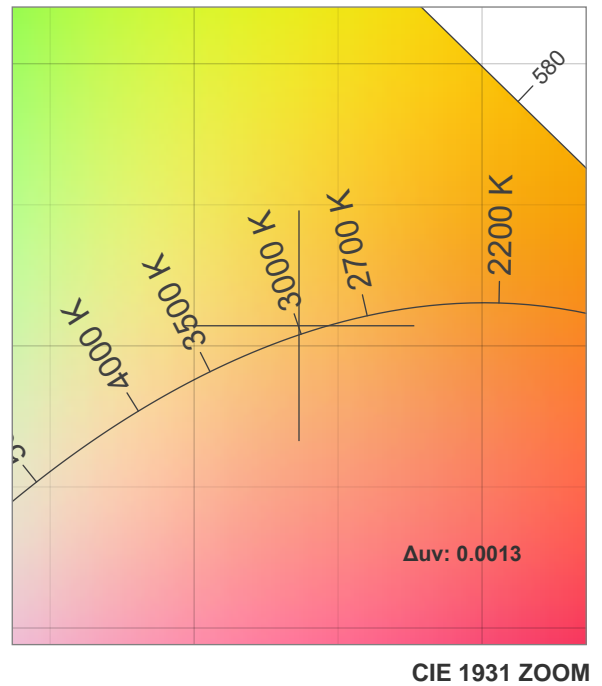
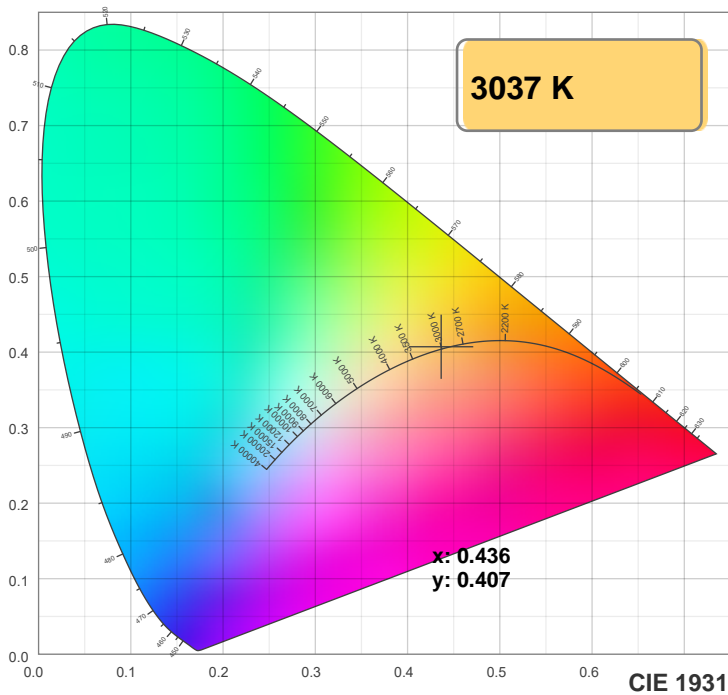
## Date and time:

**11/8/2021 10:12:32 AM**

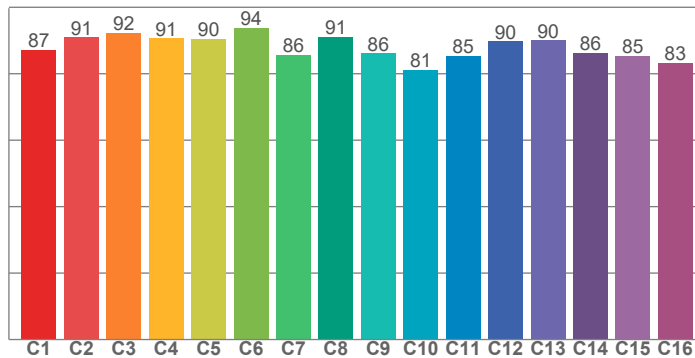
## Description:

**Power Supply @ 370 mA**

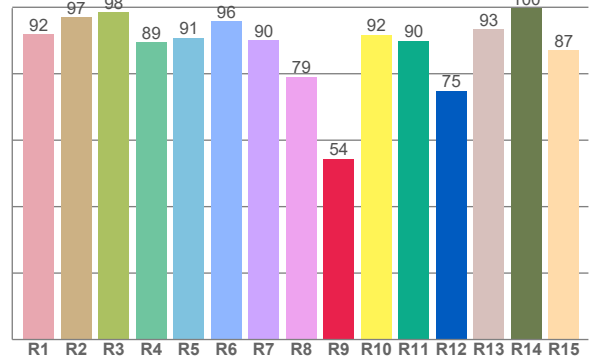
## Color Details



TM-30: 88.2



CRI: 91.6 (R1-R8)



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
91.8	97.1	98.4	89.5	90.8	95.9	90.0	79.1	54.5	91.8	90.0	74.8	93.4	99.7	87.1

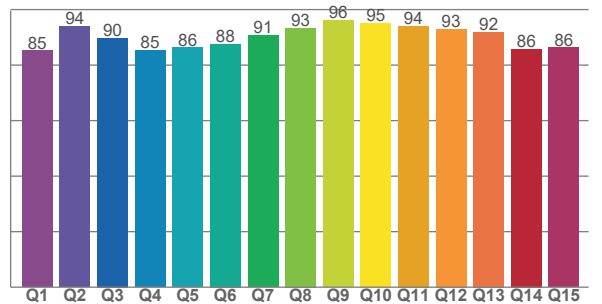
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87.1	90.9	92.3	90.6	90.5	93.7	85.7	91.1	86.1	81.1	85.3	89.8	90.1	86.2	85.5	83.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85.2	94.0	89.8	85.3	86.3	87.6	90.8	93.4	96.2	95.1	94.0	93.0	92.0	85.8	86.2

CQS: 89.5



## Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3037 K	91.6	54.5	88.2	95.1	89.5	0.436	0.407	0.249	0.348	0.0013

## TM-30 Details

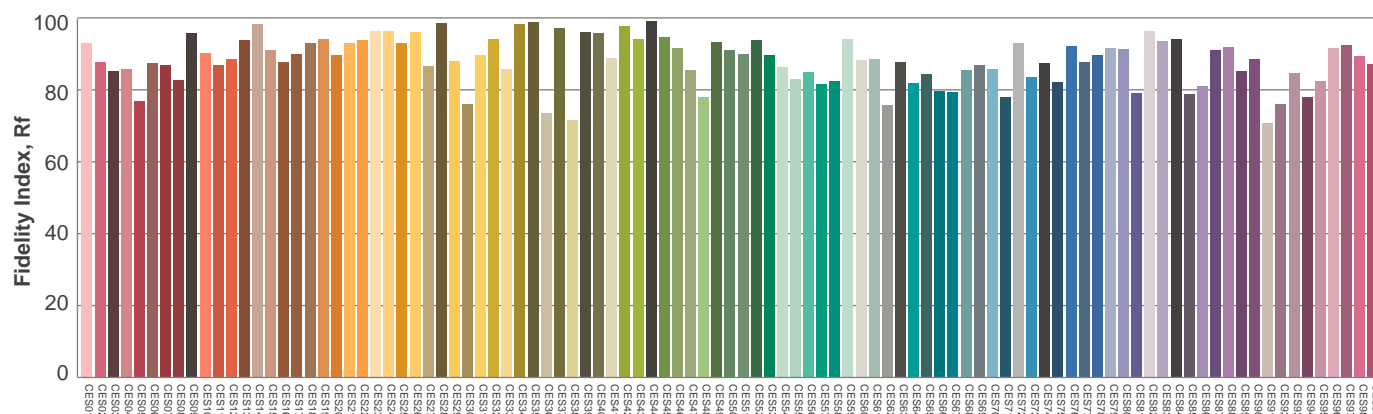
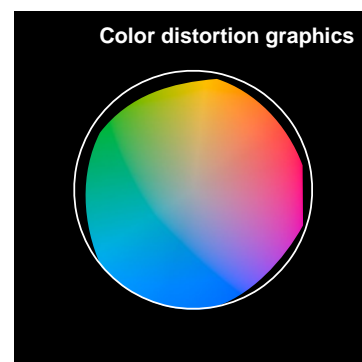
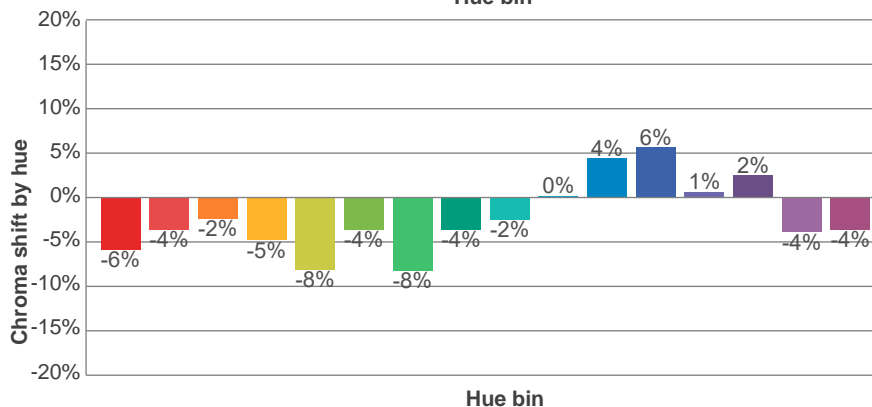
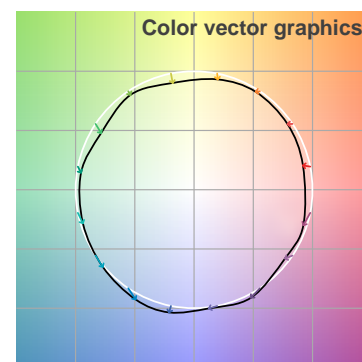
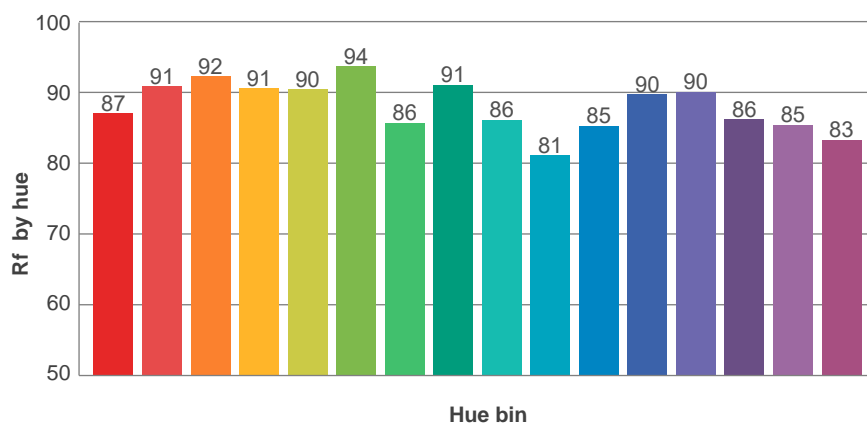
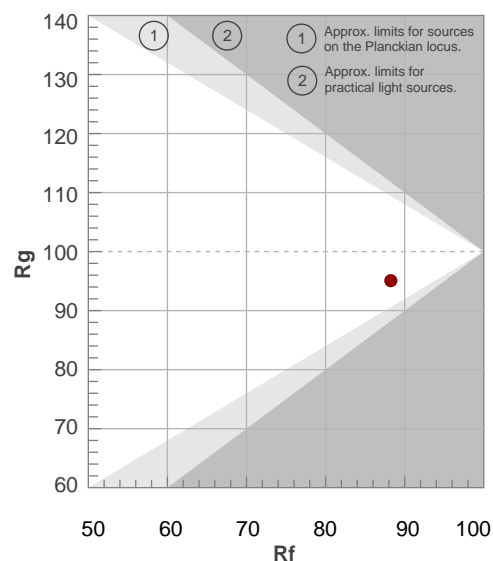
**Rf 88.2**

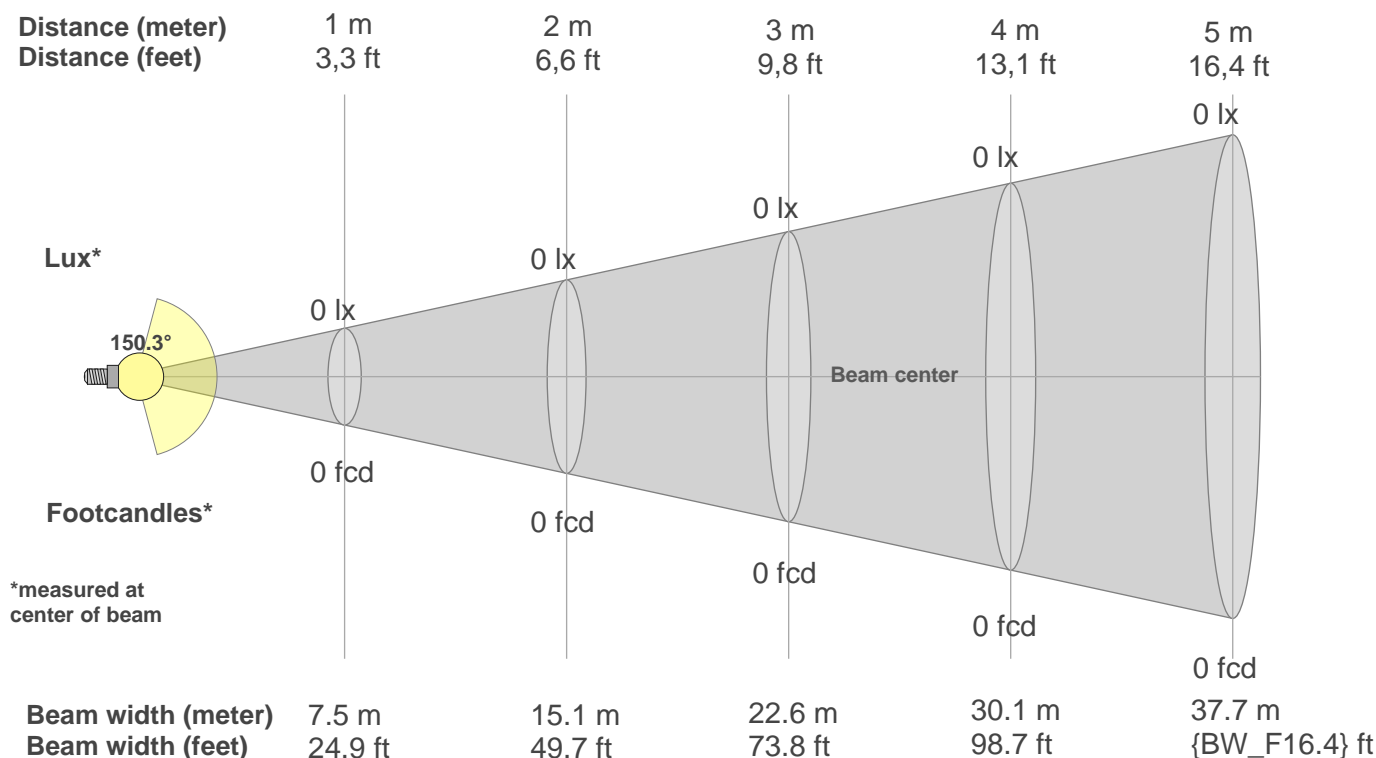
Fidelity index Rf

**Rg 95.1**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	87	-6%	2%
2	91	-4%	2%
3	92	-2%	3%
4	91	-5%	-1%
5	90	-8%	0%
6	94	-4%	0%
7	86	-8%	4%
8	91	-4%	4%
9	86	-2%	9%
10	81	0%	11%
11	85	4%	10%
12	90	6%	0%
13	90	1%	-7%
14	86	2%	-11%
15	85	-4%	-6%
16	83	-4%	-11%



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UGR

## Glare evaluation according to UGR

p Ceiling	70	70	50	50	30	70	70	50	50	30
p Walls	50	30	50	30	30	50	30	50	30	30
p Floor	20	20	20	20	20	20	20	20	20	20
Room size X      Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
CIE 117-1995. Corrected glare indices referring to 1945 lm total luminous flux										