NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

86 Lumen/Watt

Light quality:

CRI: 84.0

Color temperature:

2706 K

Output: 697 lm
Peak: 1959 cd

Power: 8.1 W
PF: 1.0

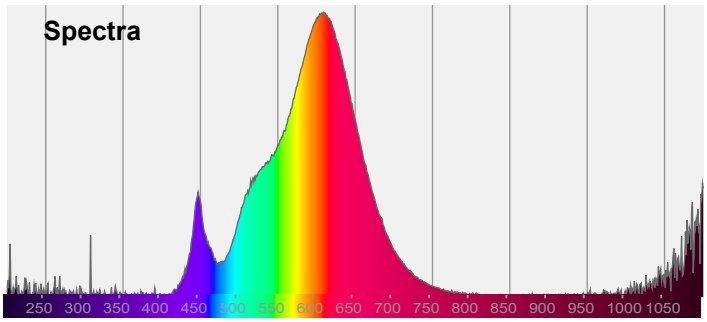
Tracking number: VT250721-002990

Product name:
GRZ White 15x25 24 27

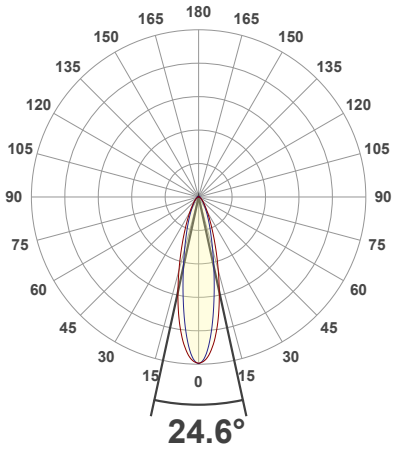
Item number:
1 foot Flex Grazer White 2700K 15°x25°

Date and time:
7/21/25 3:41:54 PM

All values scaled to 1 foot
From 0.75 M sample tested @ 11 M

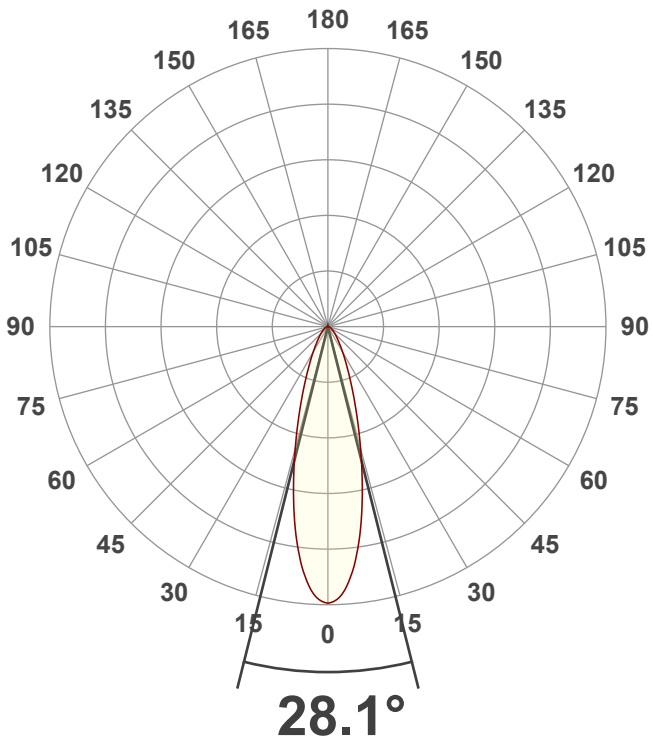


Average Beam Angle

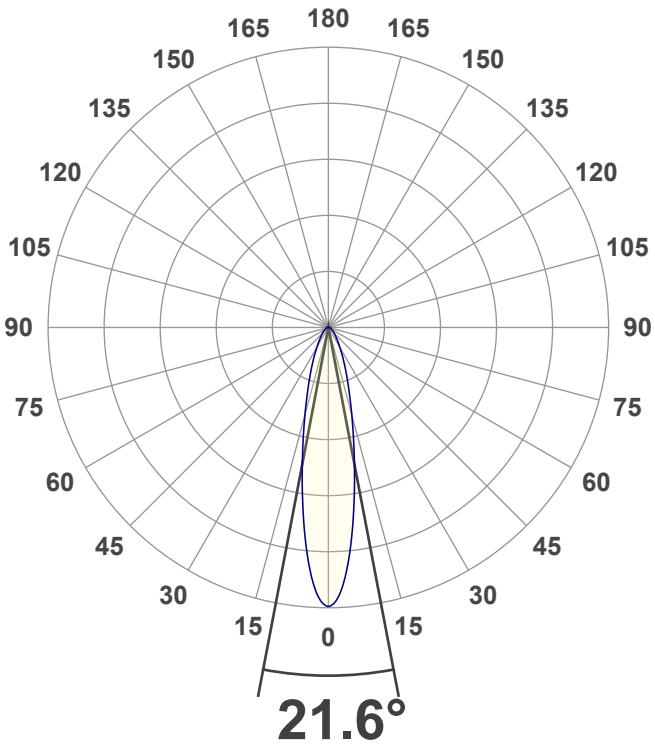


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

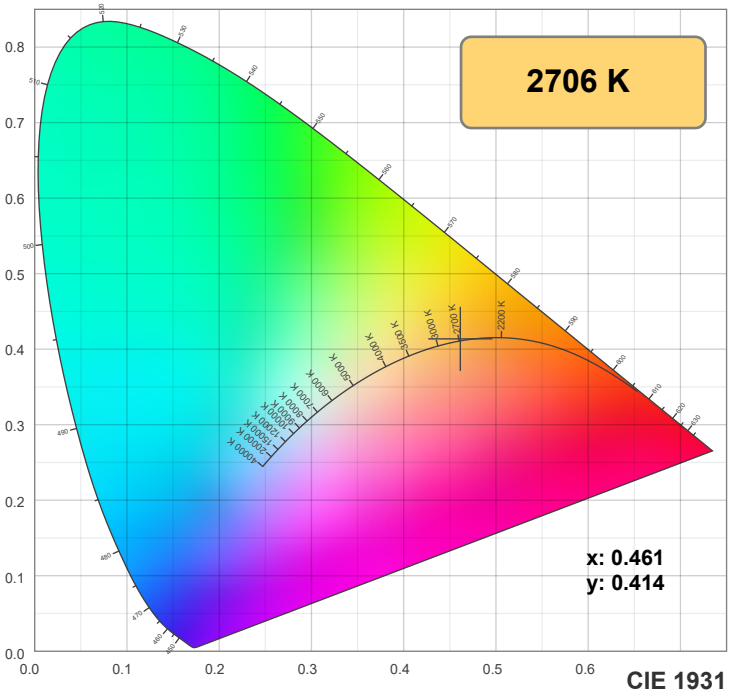


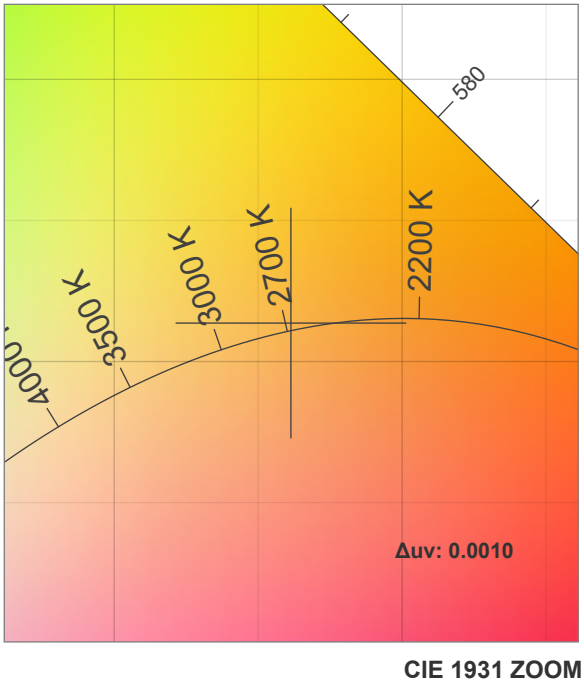
Angular Distribution 90 ° Plane



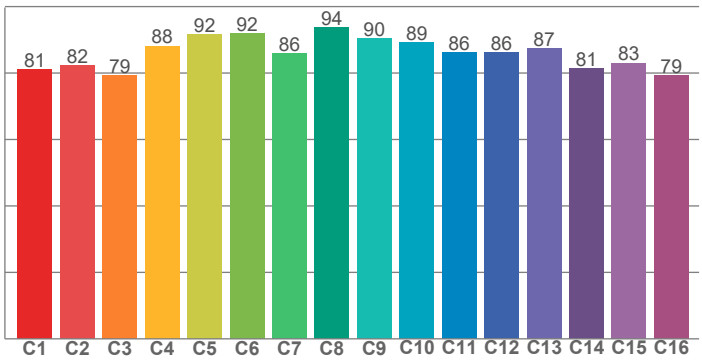
NOVA FLEX

Color details

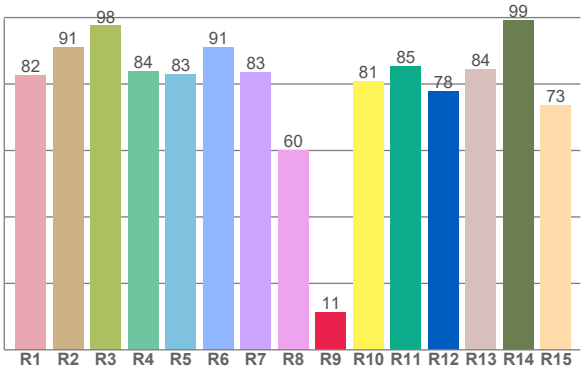




TM-30: 86.0



CRI: (R1-R8): 84.0



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
82.5	91.1	97.5	83.9	82.8	90.9	83.4	60.0	11.4	80.7	85.2	77.7	84.5	99.2	73.5

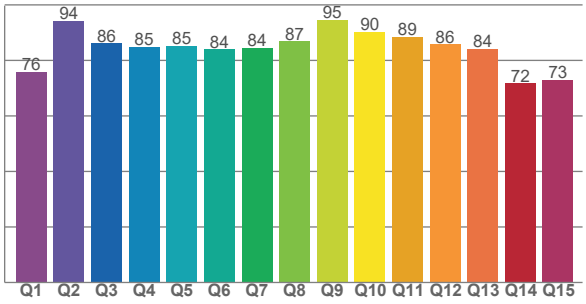
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.1	82.3	79.2	88.2	91.7	92.0	85.9	93.6	90.4	89.3	86.1	86.3	87.4	81.5	83.1	79.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.8	94.2	86.1	84.9	85.2	84.0	84.4	86.9	94.7	90.3	88.5	85.8	84.0	71.8	73.1

CQS: 83.1



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2706 K	84.0	11.4	86.0	97.5	83.1	0.461	0.414	0.262	0.352	0.0010

NOVA FLEX

TM-30 details

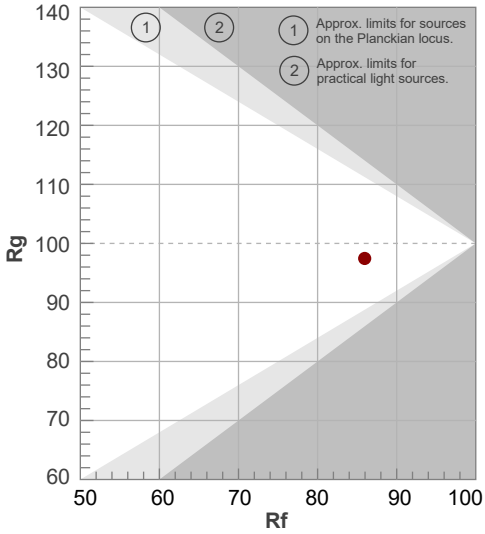
Rf 86.0

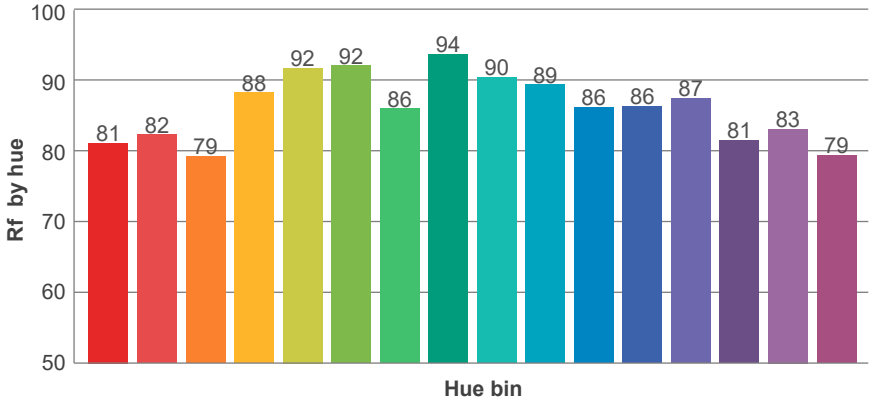
Fidelity index Rf

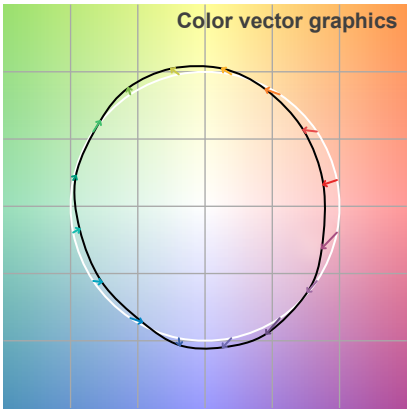
Rg 97.5

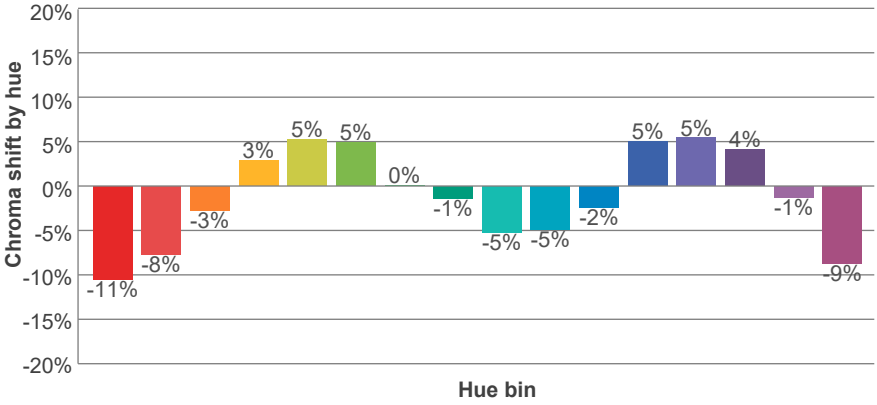
Gamut index Rg

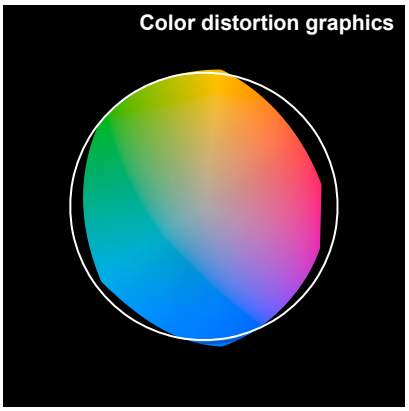
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	81	-11%	-1%
2	82	-8%	7%
3	79	-3%	11%
4	88	3%	7%
5	92	5%	5%
6	92	5%	-1%
7	86	0%	-9%
8	94	-1%	-4%
9	90	-5%	-2%
10	89	-5%	4%
11	86	-2%	9%
12	86	5%	2%
13	87	5%	-7%
14	81	4%	-15%
15	83	-1%	-11%
16	79	-9%	-14%

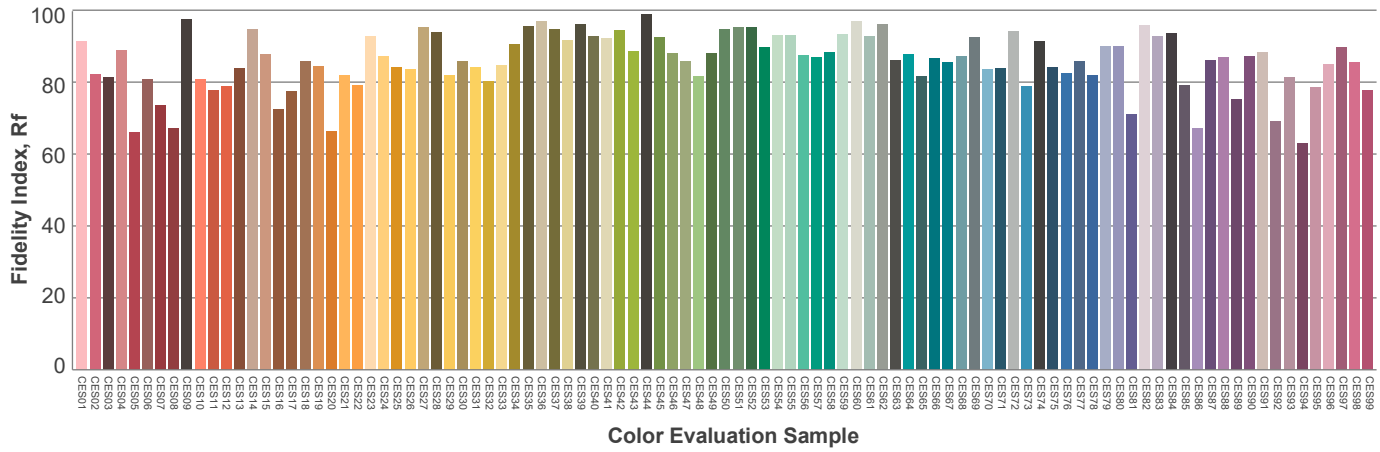






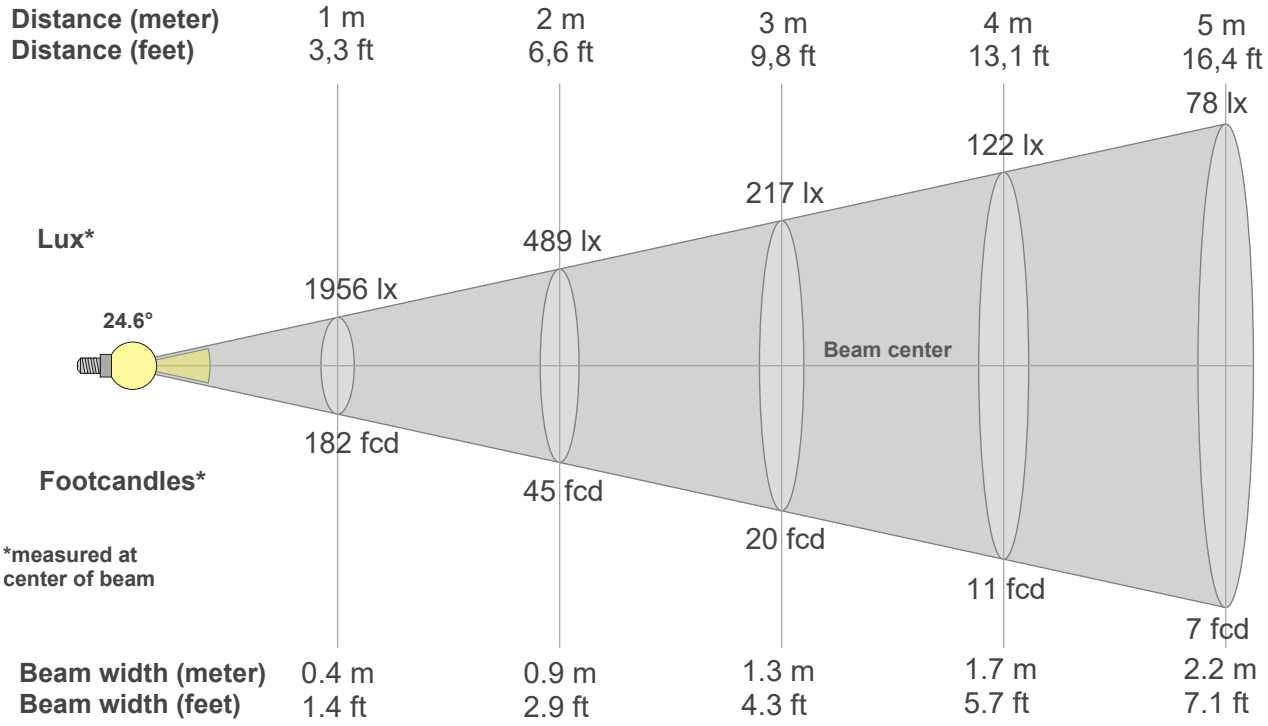






NOVA FLEX

Beam details



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
1956lx	489lx	217lx	122lx	78lx	54lx	40lx	31lx	24lx	20lx	16lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx
181.7fc	45.4fcd	20.2fcd	11.4fcd	7.3fcd	5fcd	3.7fcd	2.8fcd	2.2fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.5fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1956	1931	1851	1723	1558	1370	1173	984	813	666	543	442	364	300	250	210	176	149	129	110
100%	99%	95%	88%	80%	70%	60%	50%	42%	34%	28%	23%	19%	15%	13%	11%	9%	8%	7%	6%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1956	1900	1742	1523	1284	1061	866	706	576	472	391	326	272	229	191	163	139	119	103	89
100%	97%	89%	78%	66%	54%	44%	36%	29%	24%	20%	17%	14%	12%	10%	8%	7%	6%	5%	5%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1956	1931	1851	1723	1558	1370	1173	984	813	666	543	442	364	300	250	210	176	149	129	110
100%	99%	95%	88%	80%	70%	60%	50%	42%	34%	28%	23%	19%	15%	13%	11%	9%	8%	7%	6%

Intensities in 270° c-plane

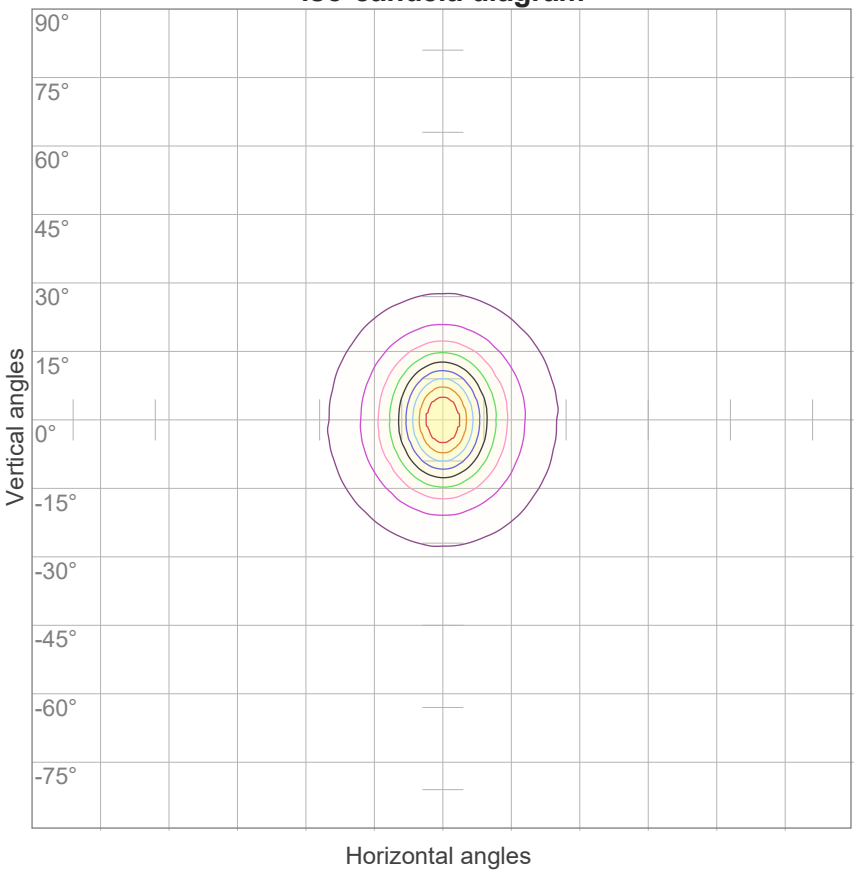
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1956	1900	1742	1523	1284	1061	866	706	576	472	391	326	272	229	191	163	139	119	103	89
100%	97%	89%	78%	66%	54%	44%	36%	29%	24%	20%	17%	14%	12%	10%	8%	7%	6%	5%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.6°	58.6°	99.1°	93.6%	85.7%

NOVA FLEX

Iso Diagrams

iso-candela diagram



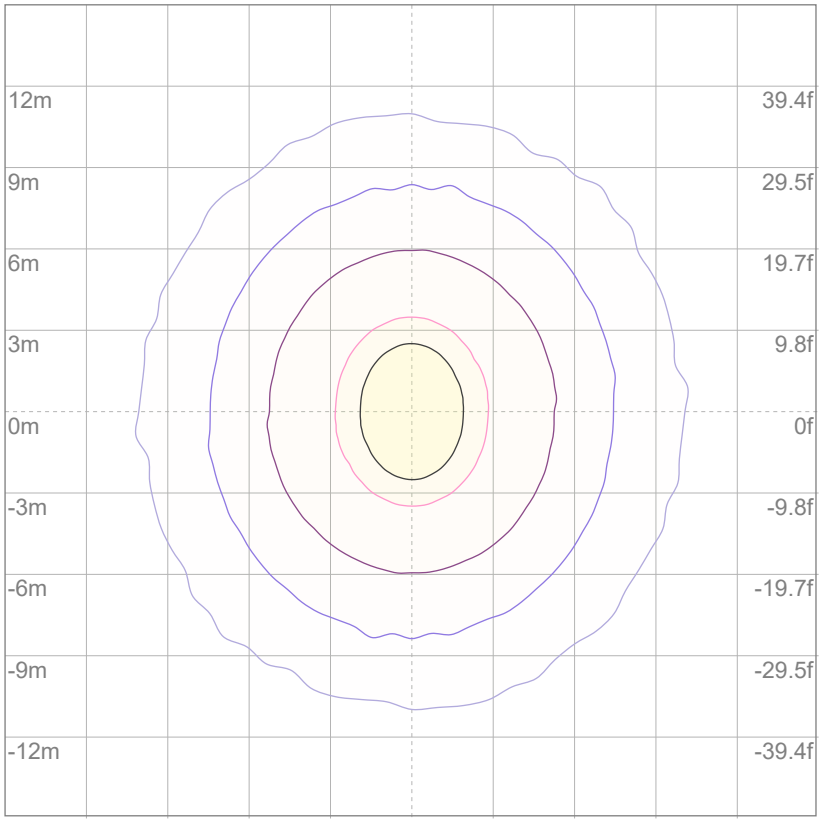
10%	196 cd
20%	391 cd
30%	587 cd
40%	782 cd
50%	978 cd
60%	1173 cd
70%	1369 cd
80%	1565 cd
90%	1760 cd

Conditions:

Number of c-planes: 72

Candela at center: 1956 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.587 lx
5%	0.978 lx
10%	1.96 lx
30%	5.87 lx
50%	9.78 lx

Conditions:

Number of c-planes: 72

Lux at center: 19.6 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

NOVAFLEX

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
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 697 lm total luminous flux										

UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry (UGR not defined for asymmetrical distributions)..

Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio)				Room Values are expressed as percentage of Lumens delivered to the task surface													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	107	102	97	94	105	100	96	93	97	93	90	93	91	88	91	88	87	85
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	81	71	66	62	79	71	65	62	70	65	61	69	64	61	68	64	61	59
9	77	68	63	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
147 lm	209 lm	134 lm	79.3 lm	49.8 lm	33.4 lm	22.3 lm	14.0 lm	5.90 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.572 lm	0.473 lm	0.444 lm	0.401 lm	0.168 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

LCS table

BUG rating:	B1 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	245.5	35.2%
Medium(30-60):	81.4	11.7%
High(60-80):	18.2	2.6%
Very high(80-90):	3	0.4%
Back light		
Low(0-30):	245.5	35.2%
Medium(30-60):	81.4	11.7%
High(60-80):	18.2	2.6%
Very high(80-90):	3	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

