NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

87 Lumen/Watt

Light quality:

CRI: 84.5

Color temperature:

2987 K

Output: 708 lm
Peak: 1485 cd

Power: 8.1 W
PF: 1.0

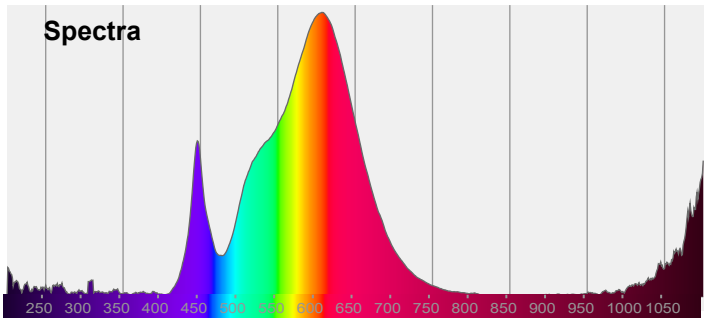
Tracking number: VT250721-000234

Product name:
GRZ White 15x25 24 30

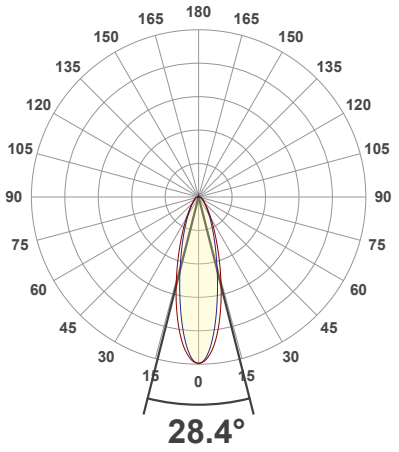
Item number:
1 foot Flex Grazer White 3000K 15°x25°

Date and time:
7/21/25 1:00:16 PM

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

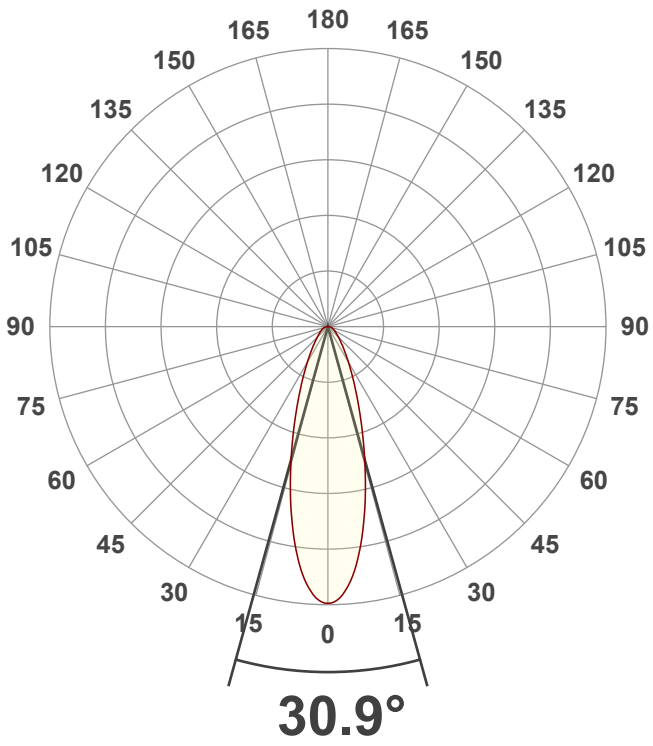


Average Beam Angle

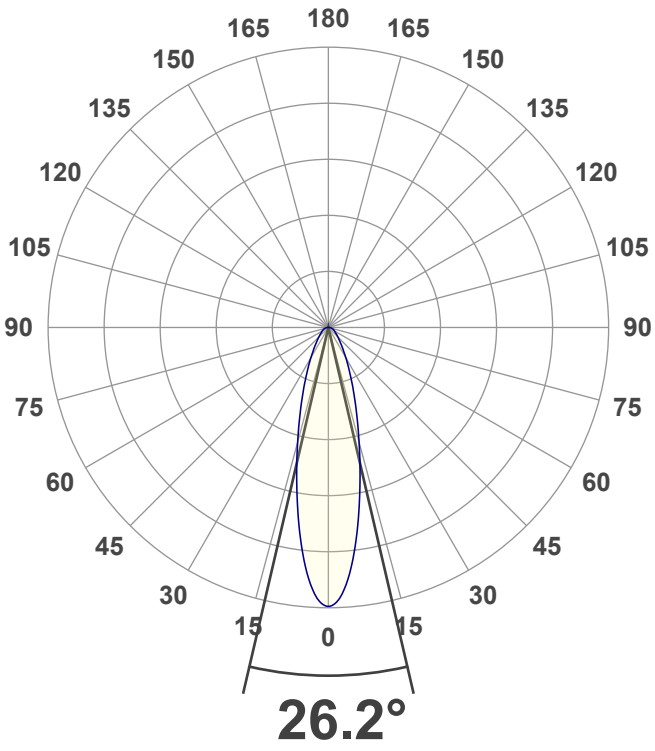


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

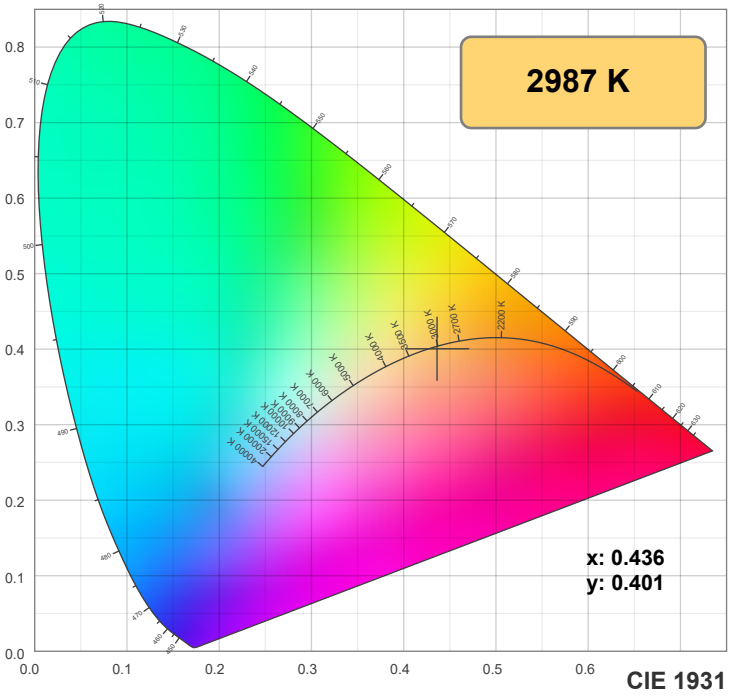


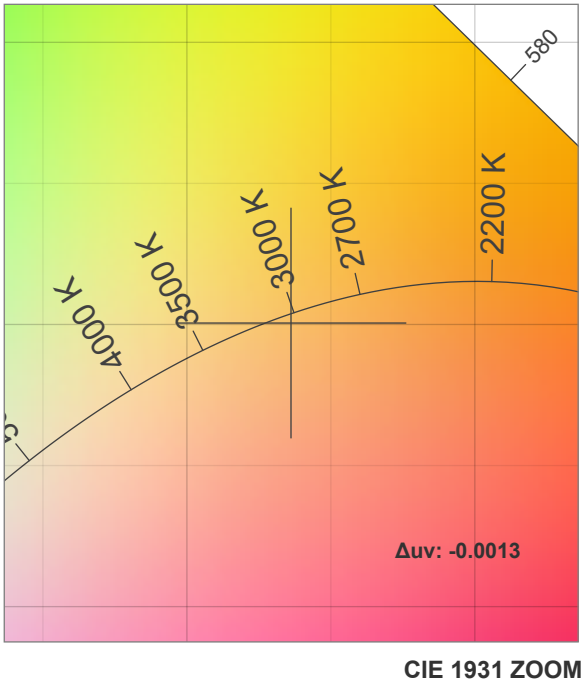
Angular Distribution 90 ° Plane



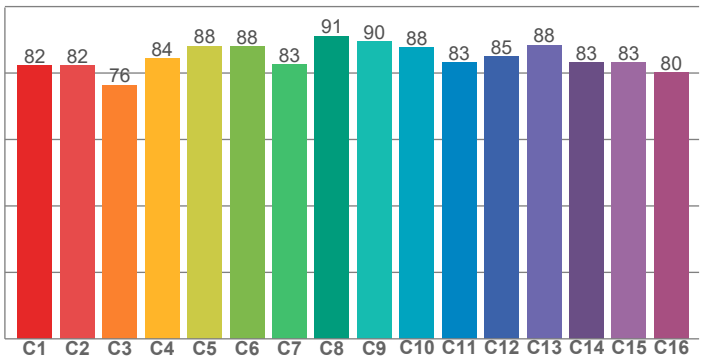
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Color details

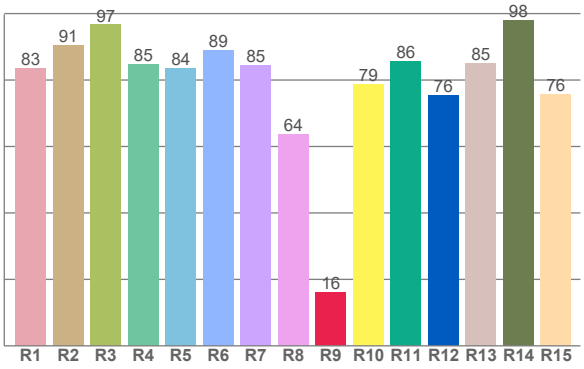




TM-30: 84.6



CRI: (R1-R8): 84.5



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
83.5	90.6	96.6	84.7	83.6	89.1	84.6	63.6	16.1	78.7	85.7	75.5	85.1	98.1	75.7

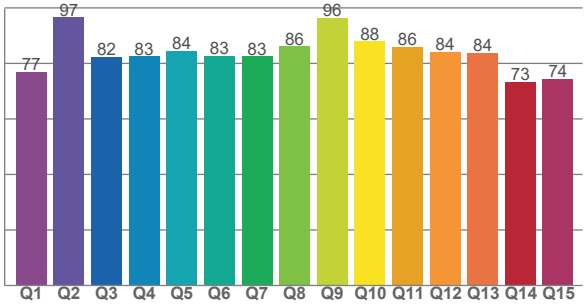
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.2	82.2	76.4	84.4	88.2	88.0	82.6	91.2	89.6	87.6	83.2	84.9	88.4	83.1	83.2	80.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.0	96.6	82.5	82.6	84.5	82.7	82.6	86.1	96.3	87.9	86.0	84.0	83.7	73.3	74.4

CQS: 82.7



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
2987 K	84.5	16.1	84.6	99.6	82.7	0.436	0.401	0.252	0.347	-0.0013

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TM-30 details

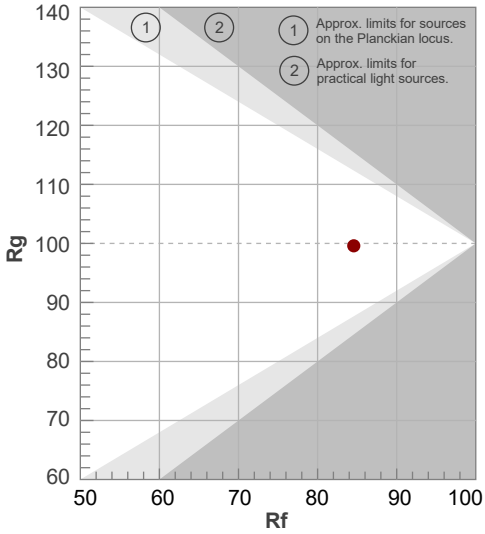
Rf 84.6

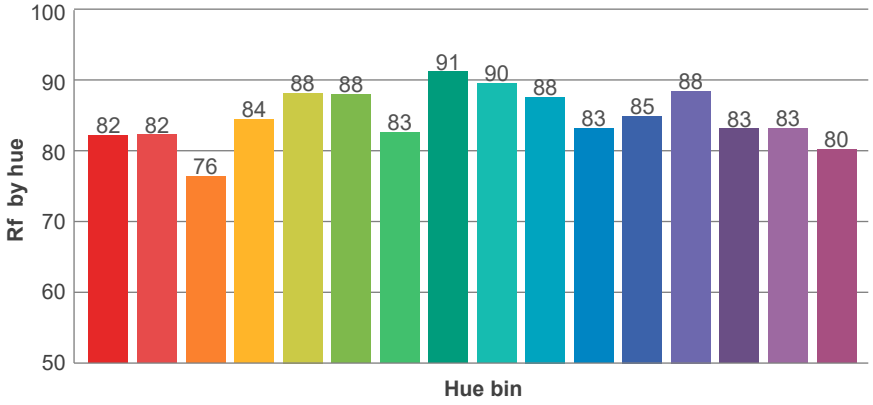
Fidelity index Rf

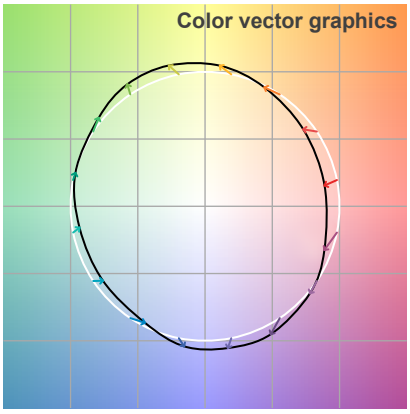
Rg 99.6

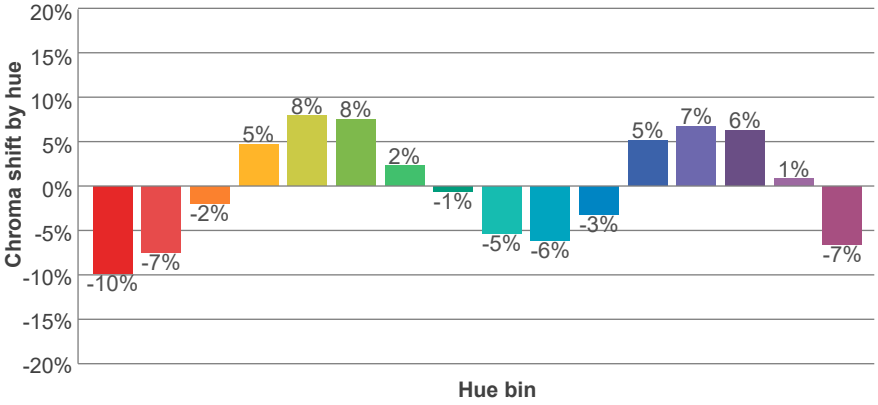
Gamut index Rg

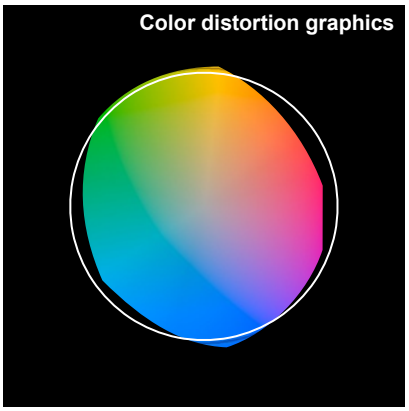
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	82	-10%	-2%
2	82	-7%	7%
3	76	-2%	12%
4	84	5%	10%
5	88	8%	6%
6	88	8%	-2%
7	83	2%	-11%
8	91	-1%	-6%
9	90	-5%	-3%
10	88	-6%	4%
11	83	-3%	11%
12	85	5%	5%
13	88	7%	-4%
14	83	6%	-12%
15	83	1%	-10%
16	80	-7%	-15%

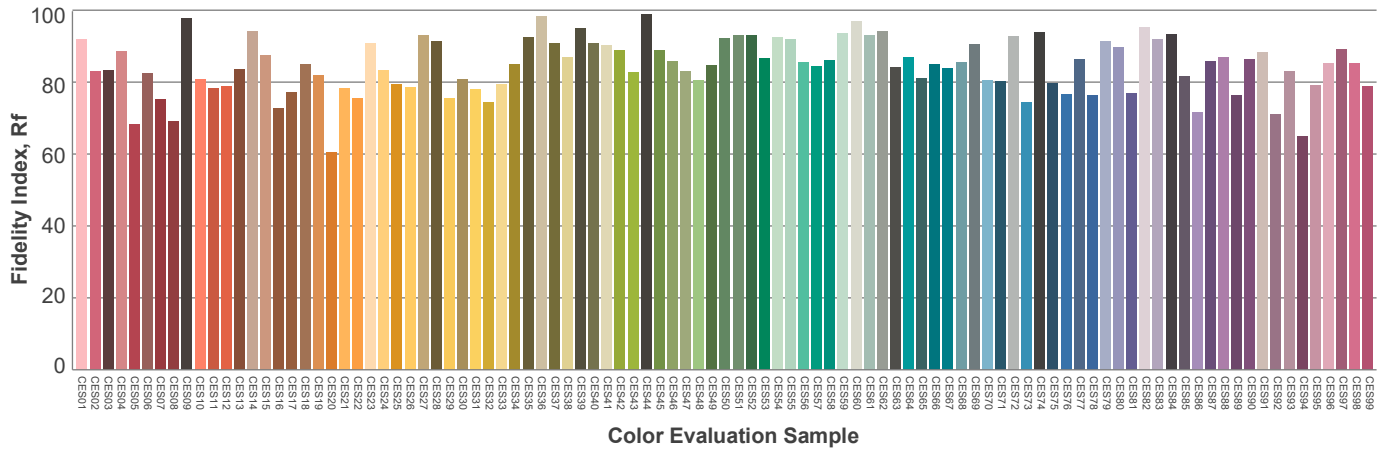






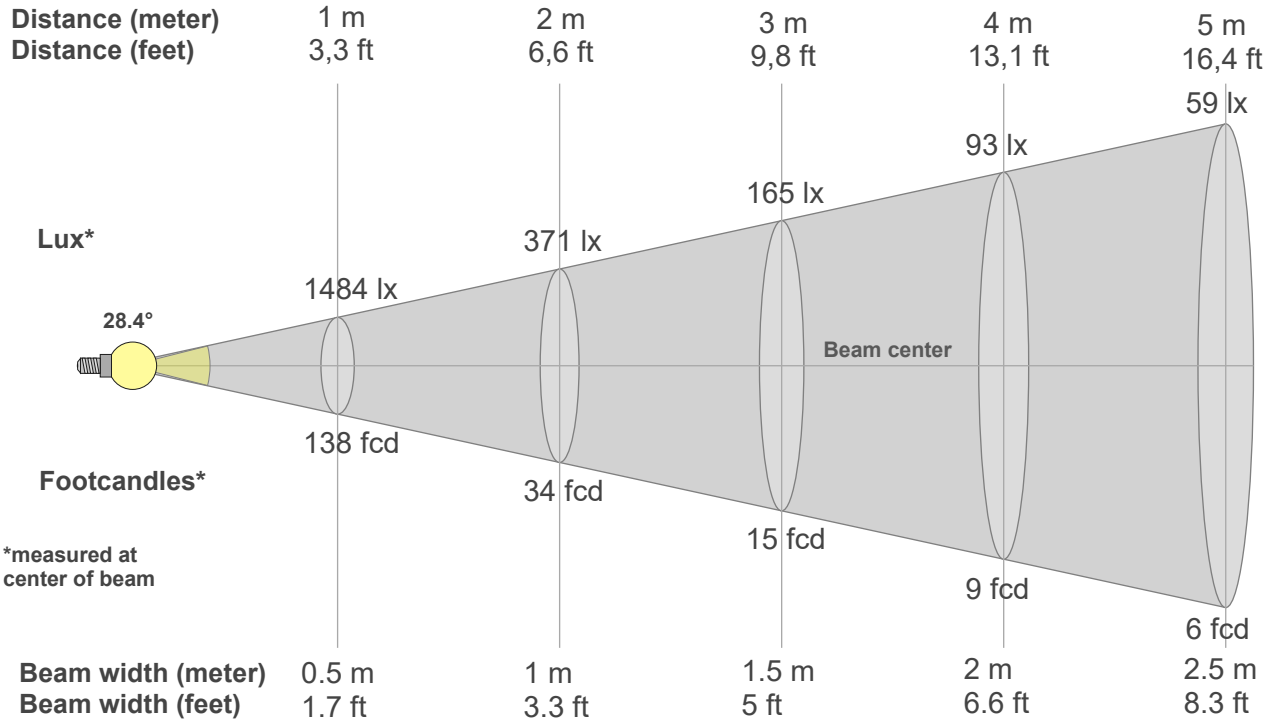






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Beam details



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
1484lx	371lx	165lx	93lx	59lx	41lx	30lx	23lx	18lx	15lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
137.8fc	34.5fcd	15.3fcd	8.6fcd	5.5fcd	3.8fcd	2.8fcd	2.2fcd	1.7fcd	1.4fcd	1.1fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd

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°
1484	1467	1412	1328	1217	1092	962	831	711	601	507	427	359	305	258	221	189	163	141	124
100%	99%	95%	90%	82%	74%	65%	56%	48%	41%	34%	29%	24%	21%	17%	15%	13%	11%	10%	8%

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°
1484	1455	1370	1245	1100	951	813	690	582	491	415	352	297	254	217	187	159	140	121	106
100%	98%	92%	84%	74%	64%	55%	46%	39%	33%	28%	24%	20%	17%	15%	13%	11%	9%	8%	7%

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°
1484	1467	1412	1328	1217	1092	962	831	711	601	507	427	359	305	258	221	189	163	141	124
100%	99%	95%	90%	82%	74%	65%	56%	48%	41%	34%	29%	24%	21%	17%	15%	13%	11%	10%	8%

Intensities in 270° c-plane

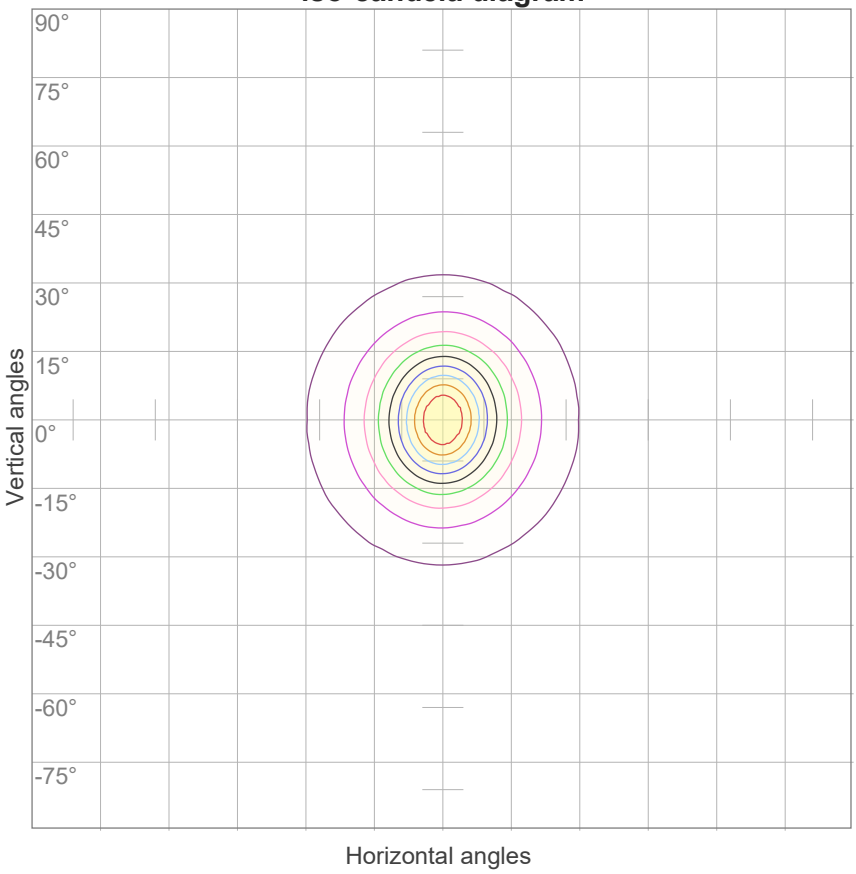
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1484	1455	1370	1245	1100	951	813	690	582	491	415	352	297	254	217	187	159	140	121	106
100%	98%	92%	84%	74%	64%	55%	46%	39%	33%	28%	24%	20%	17%	15%	13%	11%	9%	8%	7%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28.4°	68.4°	123.7°	90.7%	80.7%

NOVA FLEX

Iso Diagrams

iso-candela diagram



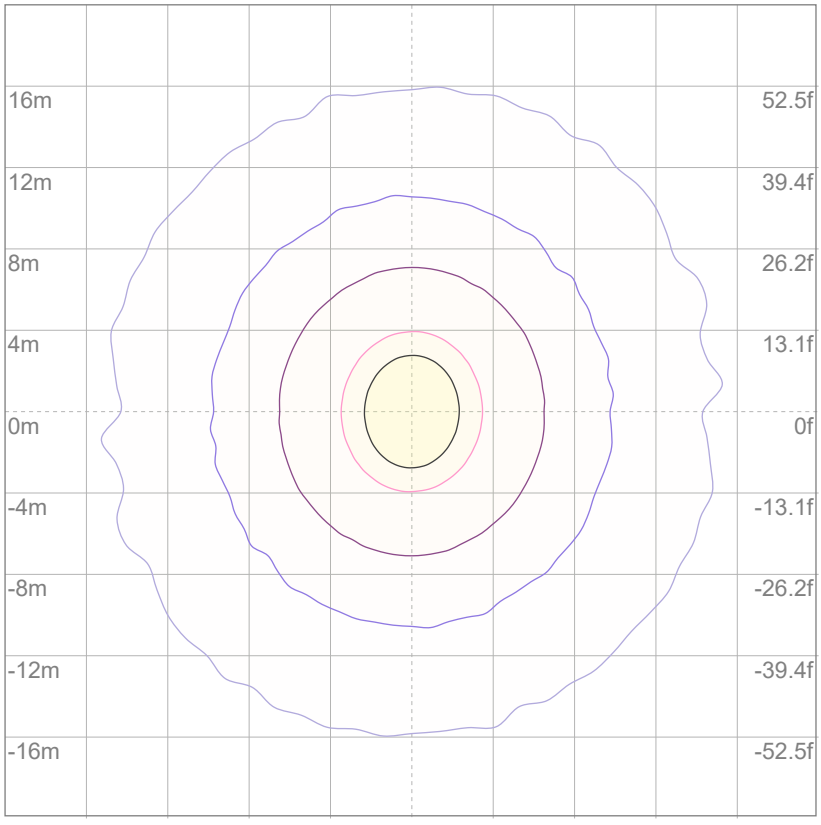
10%	148 cd
20%	297 cd
30%	445 cd
40%	593 cd
50%	742 cd
60%	890 cd
70%	1039 cd
80%	1187 cd
90%	1335 cd

Conditions:

Number of c-planes: 72

Candela at center: 1484 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.445 lx
5%	0.742 lx
10%	1.48 lx
30%	4.45 lx
50%	7.42 lx

Conditions:

Number of c-planes: 72

Lux at center: 14.8 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 708 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	112	108	105	103	109	106	104	101	102	100	98	98	96	95	95	93	92	90
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	92	86	82	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	69
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	65	62	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54
9	74	64	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51
10	71	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
117 lm	193 lm	140 lm	89.3 lm	59.7 lm	43.8 lm	32.6 lm	21.9 lm	9.07 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.545 lm	0.463 lm	0.434 lm	0.393 lm	0.158 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):	225.3	31.8%
Medium(30-60):	96.5	13.6%
High(60-80):	27.3	3.9%
Very high(80-90):	4.6	0.7%
Back light		
Low(0-30):	225.3	31.8%
Medium(30-60):	96.5	13.6%
High(60-80):	27.3	3.9%
Very high(80-90):	4.6	0.7%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

