NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

74 Lumen/Watt

Light quality:

CRI: 85.7

Color temperature:

3003 K

Output: 586 lm
Peak: 704 cd

Power: 8.0 W
PF: 1.0

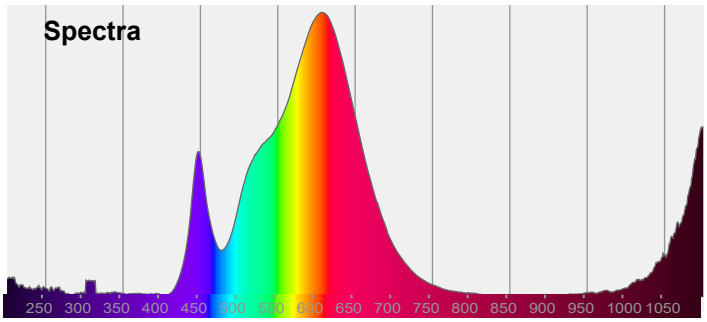
Tracking number: VT250722-004135

Product name:
GRZ White 15x60 24 30

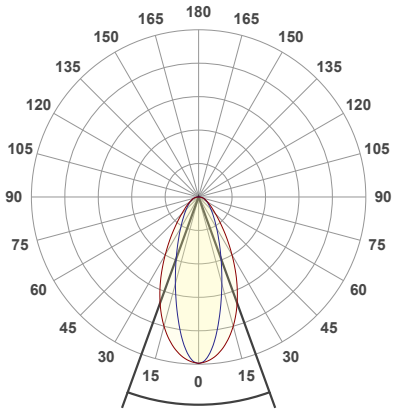
Item number:
1 foot Flex Grazer White 3000K 15°x60°

Date and time:
7/22/25 11:55:06 AM

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



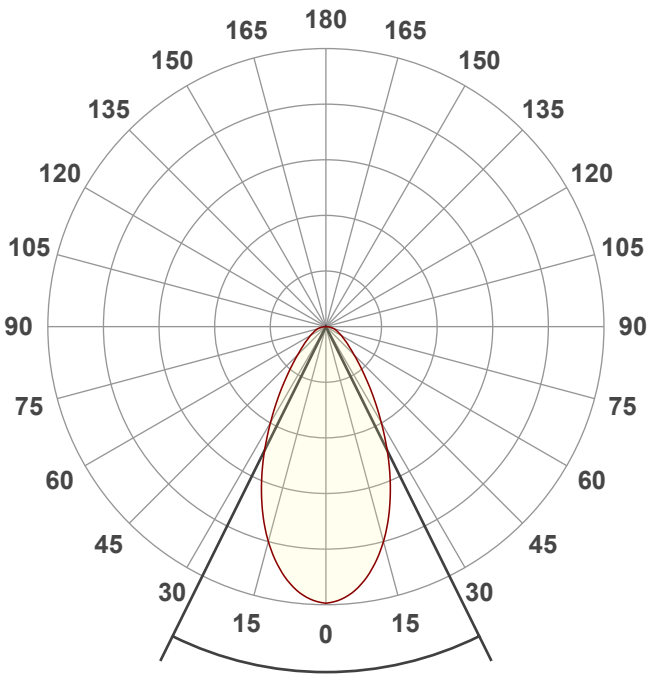
Average Beam Angle



39.9°

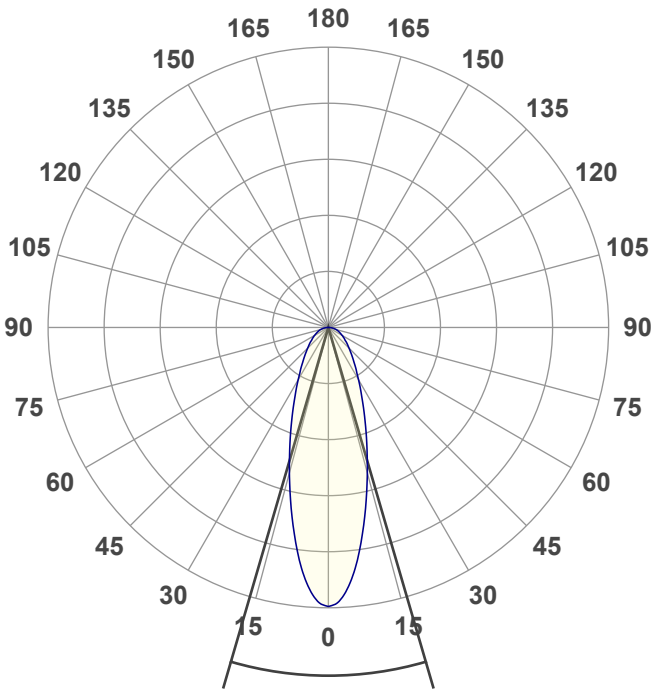
C Plane Resolution: 5°

Angular Distribution 0 ° Plane



52.7°

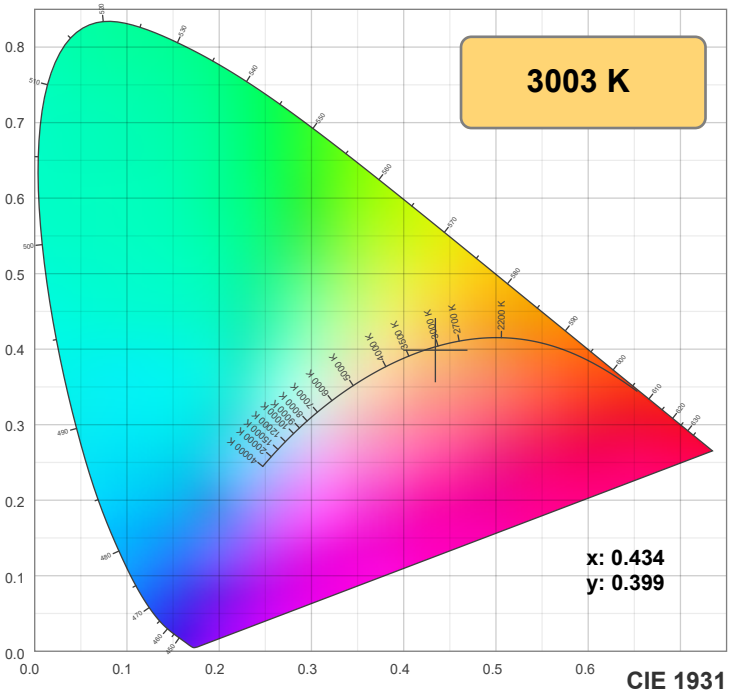
Angular Distribution 90 ° Plane



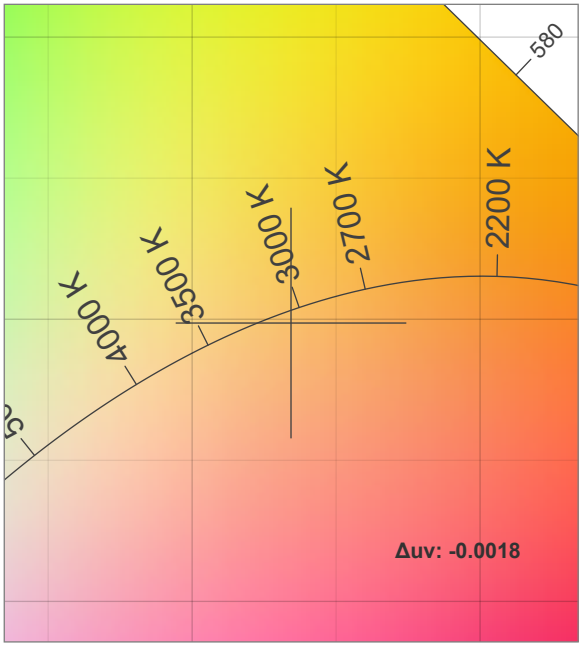
32.5°

NOVA FLEX

Color details

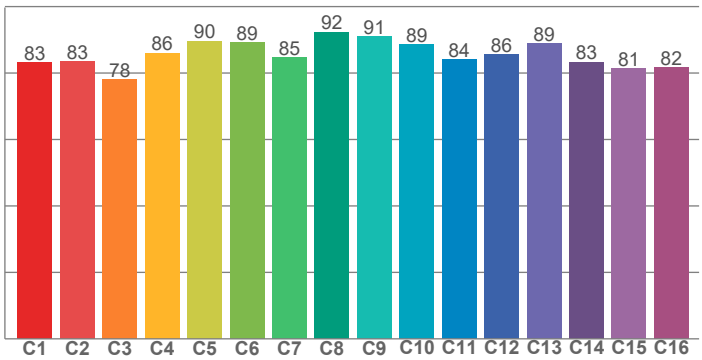


CIE 1931

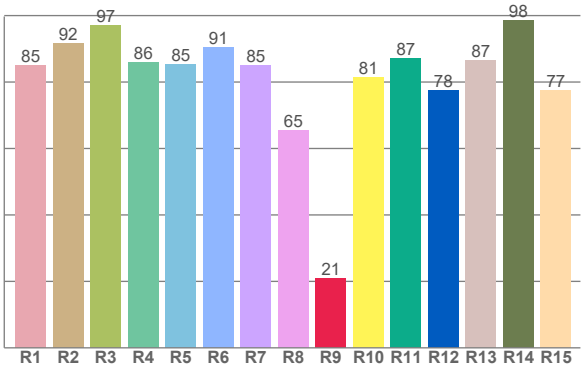


CIE 1931 ZOOM

TM-30: 85.7



CRI: (R1-R8): 85.7



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
84.9	91.7	97.0	85.8	85.2	90.6	85.1	65.4	20.9	81.3	87.1	77.5	86.6	98.5	77.5

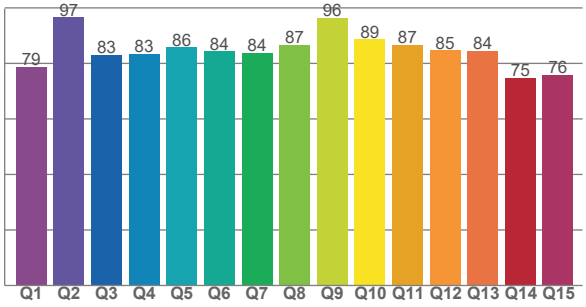
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
83.3	83.4	78.1	86.1	89.7	89.1	84.8	92.4	90.9	88.6	84.0	85.6	88.8	83.3	81.3	81.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.6	96.6	83.1	83.4	85.8	84.4	83.7	86.7	96.4	88.7	86.8	84.7	84.4	74.9	75.9

CQS: 83.7



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
3003 K	85.7	20.9	85.7	99.7	83.7	0.434	0.399	0.251	0.346	-0.0018

NOVA FLEX

TM-30 details

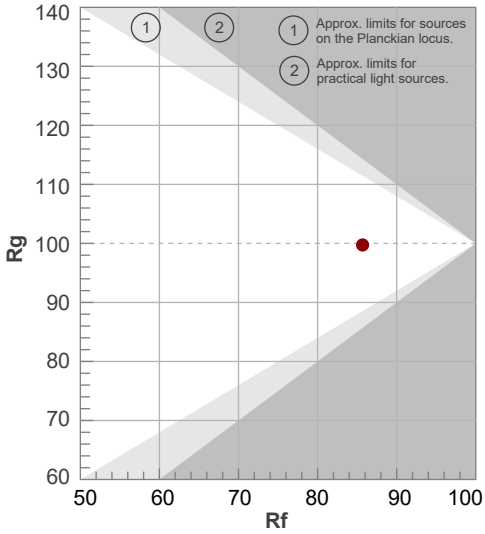
Rf 85.7

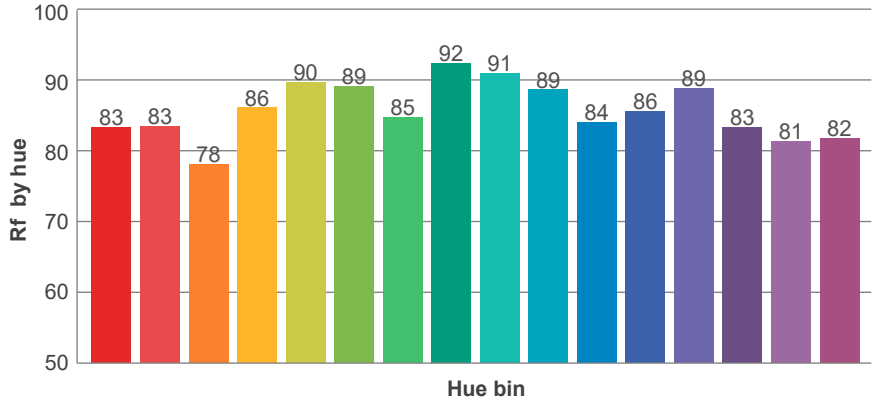
Fidelity index Rf

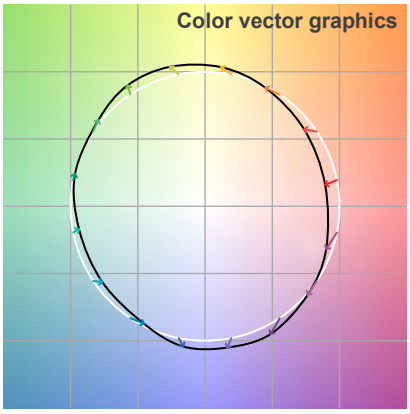
Rg 99.7

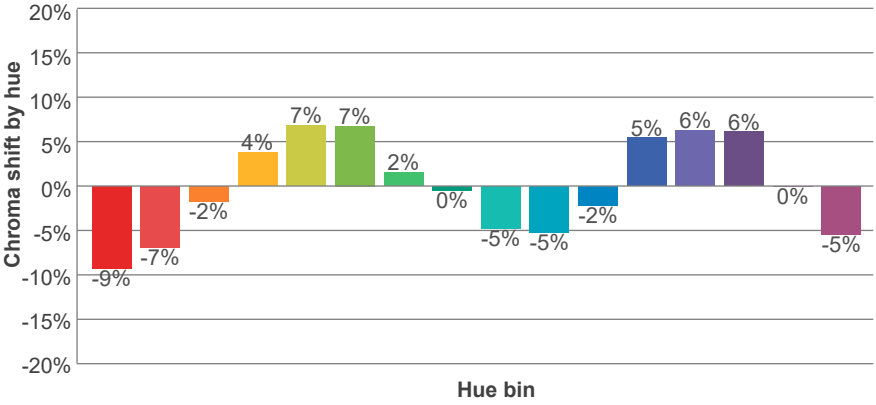
Gamut index Rg

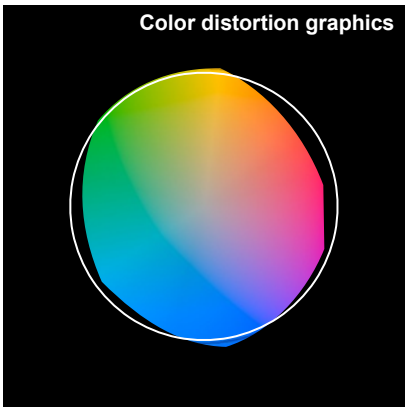
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	83	-9%	-2%
2	83	-7%	7%
3	78	-2%	12%
4	86	4%	8%
5	90	7%	5%
6	89	7%	-2%
7	85	2%	-9%
8	92	0%	-5%
9	91	-5%	-2%
10	89	-5%	4%
11	84	-2%	11%
12	86	5%	4%
13	89	6%	-4%
14	83	6%	-12%
15	81	0%	-12%
16	82	-5%	-14%

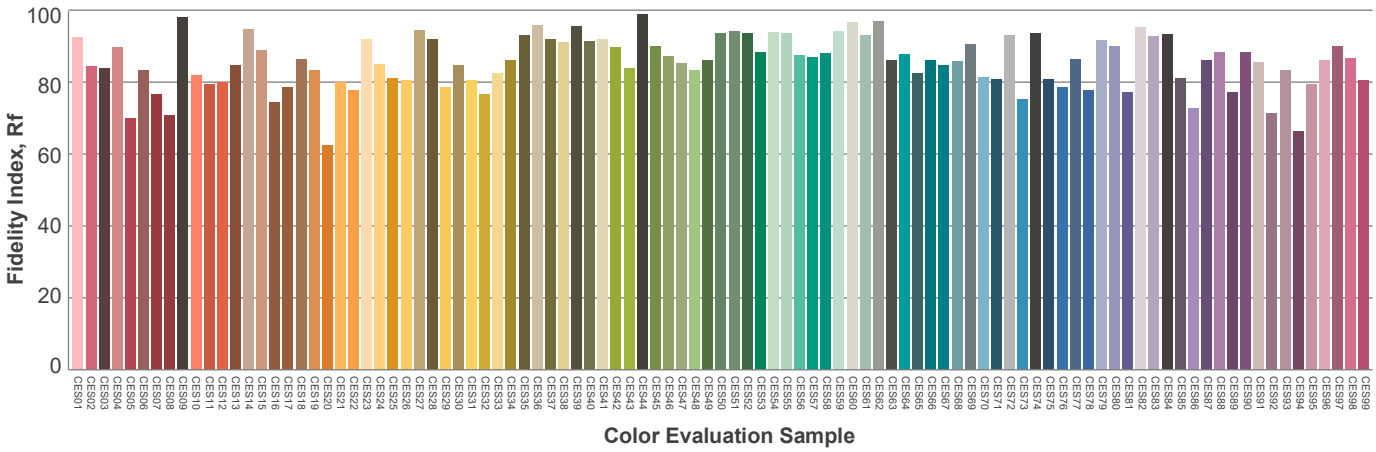






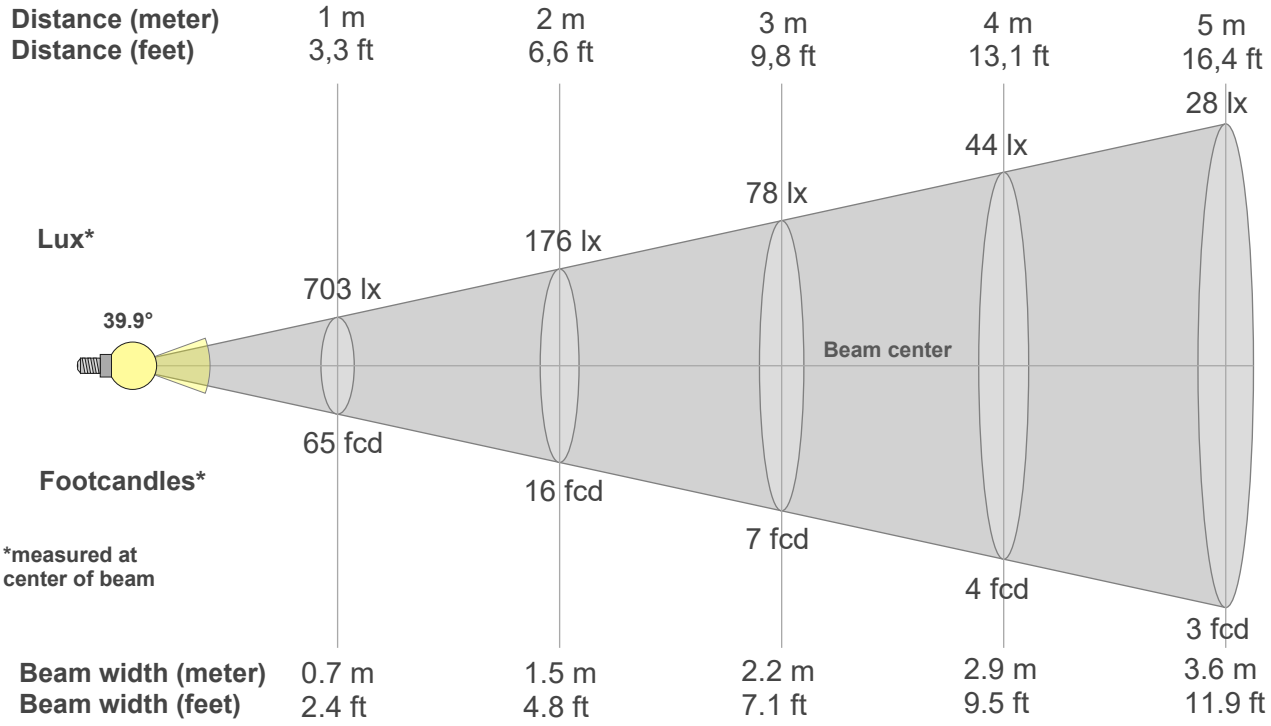






NOVA FLEX

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
703lx	176lx	78lx	44lx	28lx	20lx	14lx	11lx	9lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx
65.3fcd	16.3fcd	7.3fcd	4.1fcd	2.6fcd	1.8fcd	1.3fcd	1fcd	0.8fcd	0.7fcd	0.5fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd

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°
703	699	690	677	659	637	611	581	549	514	476	437	398	358	319	282	248	217	189	163
100%	99%	98%	96%	94%	91%	87%	83%	78%	73%	68%	62%	57%	51%	45%	40%	35%	31%	27%	23%

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°
703	693	663	620	567	510	455	404	357	315	278	245	216	191	171	152	136	124	111	101
100%	99%	94%	88%	81%	73%	65%	57%	51%	45%	39%	35%	31%	27%	24%	22%	19%	18%	16%	14%

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°
703	699	690	677	659	637	611	581	549	514	476	437	398	358	319	282	248	217	189	163
100%	99%	98%	96%	94%	91%	87%	83%	78%	73%	68%	62%	57%	51%	45%	40%	35%	31%	27%	23%

Intensities in 270° c-plane

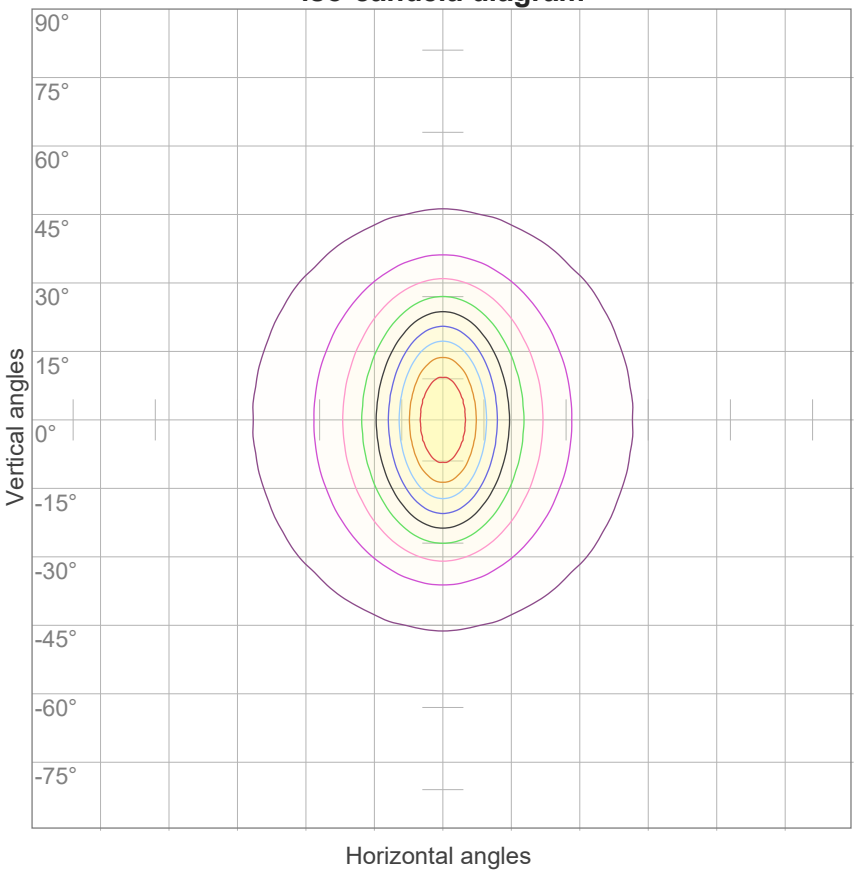
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
703	693	663	620	567	510	455	404	357	315	278	245	216	191	171	152	136	124	111	101
100%	99%	94%	88%	81%	73%	65%	57%	51%	45%	39%	35%	31%	27%	24%	22%	19%	18%	16%	14%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.9°	96.8°	154.8°	88.5%	75.1%

NOVA FLEX

Iso Diagrams

iso-candela diagram



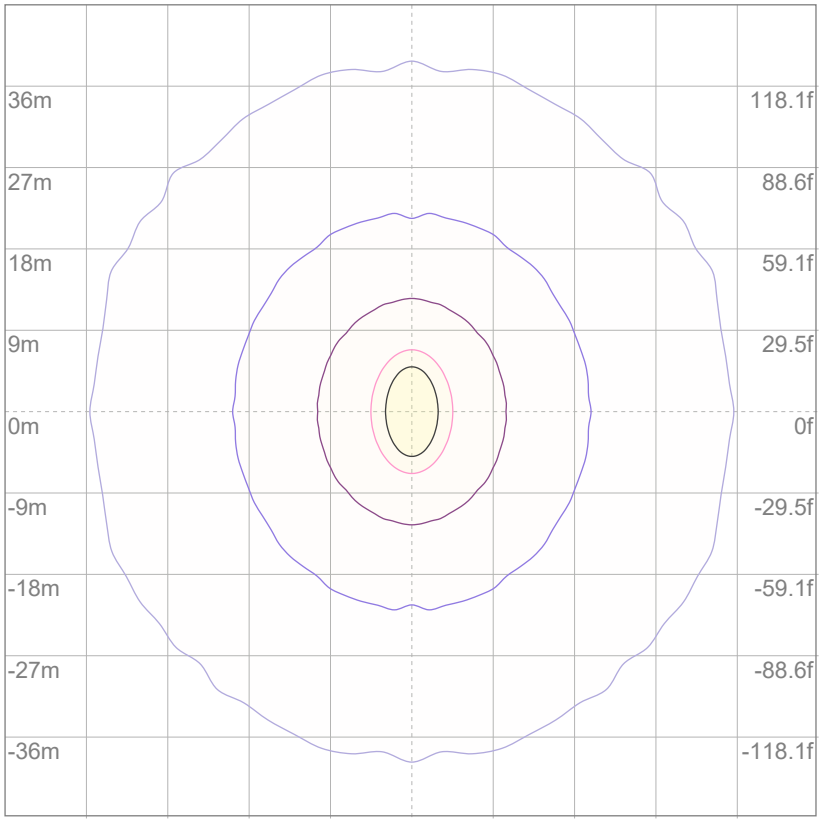
10%	70 cd
20%	141 cd
30%	211 cd
40%	281 cd
50%	352 cd
60%	422 cd
70%	492 cd
80%	563 cd
90%	633 cd

Conditions:

Number of c-planes: 72

Candela at center: 703 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.211 lx
5%	0.352 lx
10%	0.703 lx
30%	2.11 lx
50%	3.52 lx

Conditions:

Number of c-planes: 72

Lux at center: 7.03 lx

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

NOVA FLEX

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				
2H	2H	20.8	21.7	20.9	21.9	22.1	20.3	21.1	20.4	21.4	21.6
	3H	21.6	22.5	21.9	22.8	23.0	21.5	22.4	21.9	22.7	22.9
	4H	22.0	22.9	22.4	23.2	23.4	22.1	23.1	22.5	23.3	23.6
	6H	22.3	23.1	22.6	23.4	23.8	22.8	23.6	23.1	23.9	24.2
	8H	22.4	23.2	22.7	23.5	23.9	23.0	23.8	23.3	24.1	24.5
	12H	22.4	23.2	22.8	23.6	24.0	23.2	23.9	23.5	24.3	24.7
4H	2H	21.0	21.9	21.4	22.2	22.4	20.6	21.5	21.0	21.8	22.0
	3H	22.2	22.9	22.5	23.3	23.7	22.2	22.9	22.5	23.3	23.7
	4H	22.7	23.4	23.1	23.8	24.3	22.9	23.6	23.3	24.0	24.5
	6H	23.1	23.8	23.6	24.1	24.5	23.6	24.3	24.1	24.6	25.0
	8H	23.2	23.9	23.7	24.2	24.6	23.9	24.5	24.4	24.9	25.2
	12H	23.3	23.8	23.8	24.2	24.7	24.1	24.6	24.6	25.0	25.5
8H	4H	22.9	23.5	23.4	23.9	24.2	23.1	23.7	23.6	24.1	24.5
	6H	23.4	23.9	23.9	24.4	24.9	23.9	24.4	24.4	24.9	25.4
	8H	23.7	24.1	24.2	24.6	25.2	24.3	24.7	24.8	25.2	25.9
	12H	23.8	24.1	24.4	24.6	25.3	24.6	25.0	25.2	25.5	26.1
12H	4H	22.9	23.4	23.4	23.8	24.3	23.1	23.6	23.6	24.0	24.5
	6H	23.5	23.9	24.0	24.4	25.1	24.0	24.4	24.5	24.9	25.5
	8H	23.8	24.1	24.3	24.6	25.2	24.4	24.7	25.0	25.2	25.8
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.5 / -0.4					0.1 / -0.1				
S = 1.5H		1.3 / -0.7					0.3 / -0.4				
S = 2.0H		2.2 / -1.0					0.6 / -0.7				
CIE 117-1995. Corrected glare indices referring to 586 lm total luminous flux											

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	99
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	97	92	87	101	95	90	86	92	88	84	88	85	82	85	83	80	78
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	57	78	68	61	57	67	61	56	65	60	56	64	59	55	53
7	76	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	44	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
56.7 lm	126 lm	128 lm	92.2 lm	66.7 lm	49.3 lm	33.4 lm	21.6 lm	9.52 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.307 lm	0.428 lm	0.894 lm	0.149 lm	0.093 lm	0.060 lm	0.044 lm	0.027 lm	0.990 lm

LCS table

BUG rating:	B1 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	156.6	26.7%
Medium(30-60):	104.2	17.8%
High(60-80):	28.1	4.8%
Very high(80-90):	4	0.7%
Back light		
Low(0-30):	156.6	26.7%
Medium(30-60):	104.2	17.8%
High(60-80):	28.1	4.8%
Very high(80-90):	3.9	0.7%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

