NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

86 Lumen/Watt

Light quality:

CRI: 70.8

Color temperature:

6102 K

Output: 700 lm
Peak: 1029 cd

Power: 8.1 W
PF: 1.0

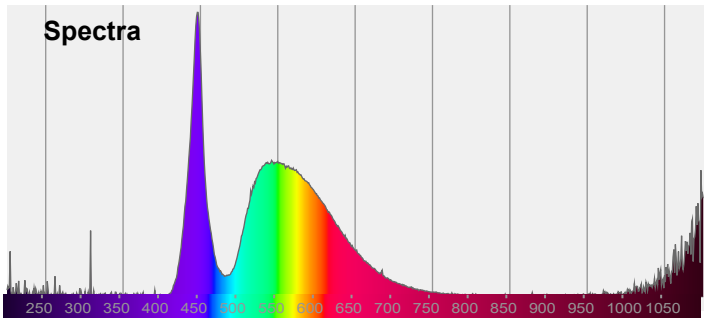
Tracking number: VT250723-003696

Product name:
GRZ White15x60 24 57

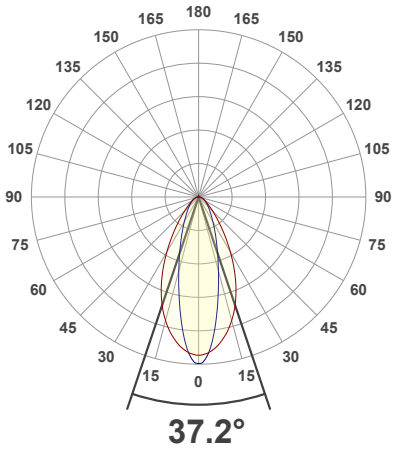
Item number:
1 foot Flex Grazer White 5700K 15°x60° Optic

Date and time:
7/23/25 3:39:27 PM

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

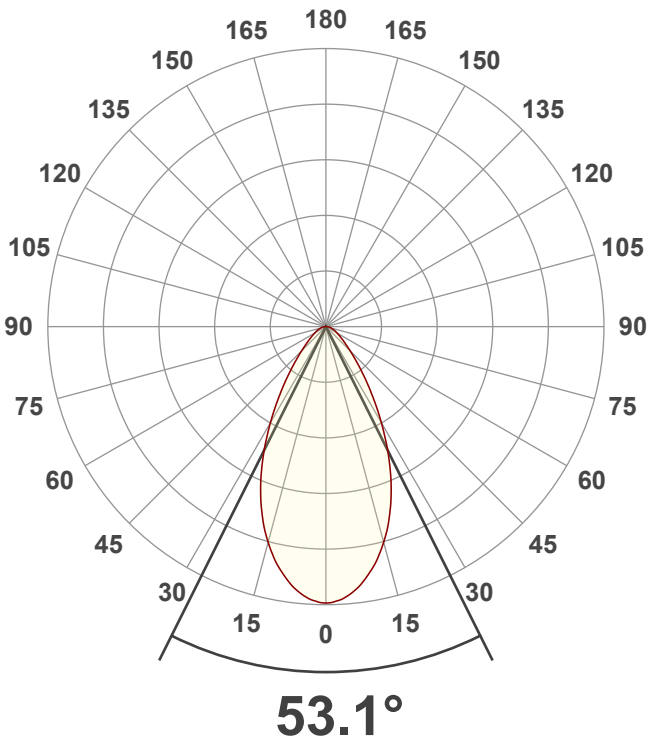


Average Beam Angle

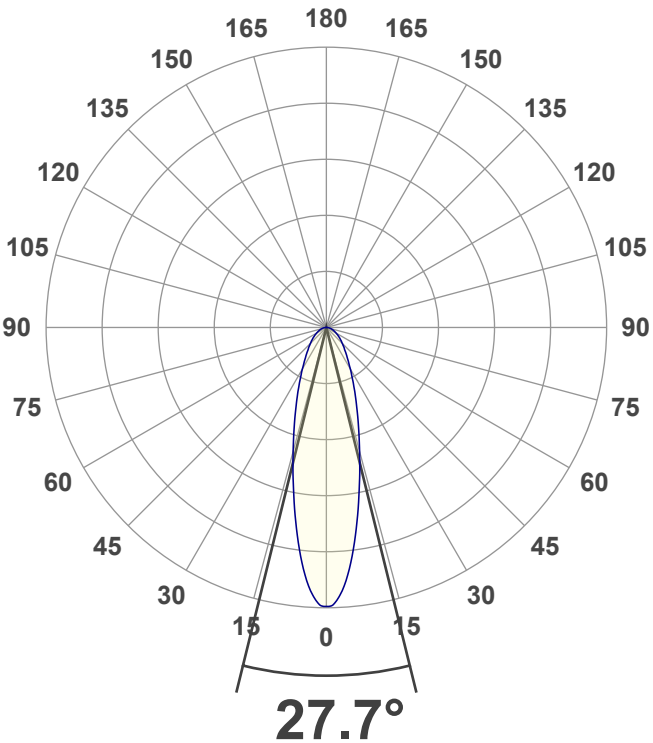


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

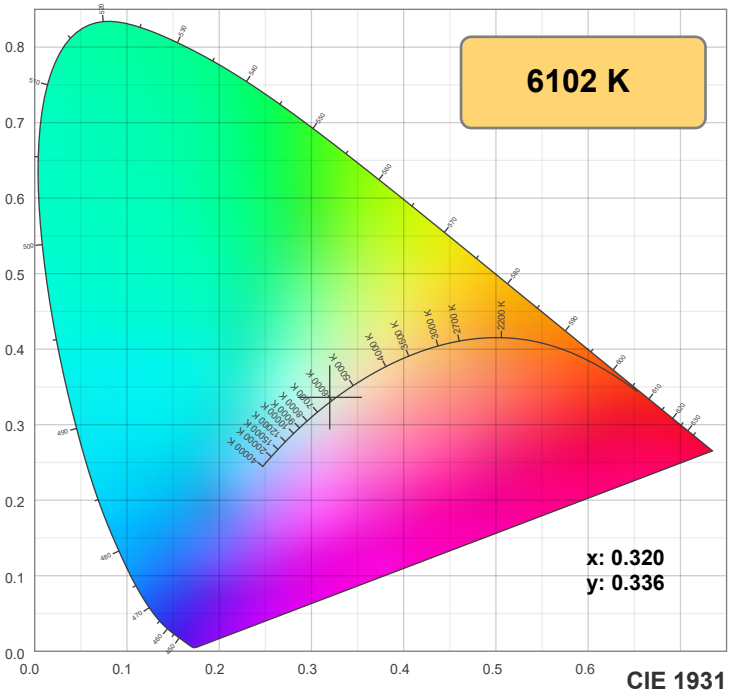


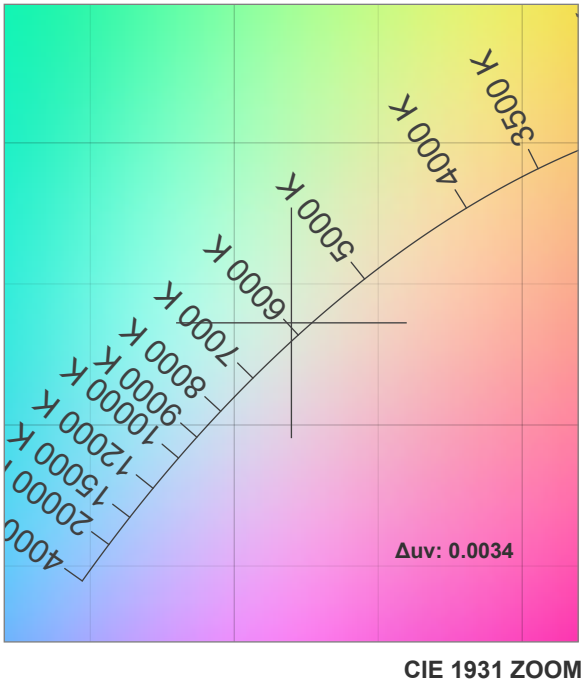
Angular Distribution 90 ° Plane



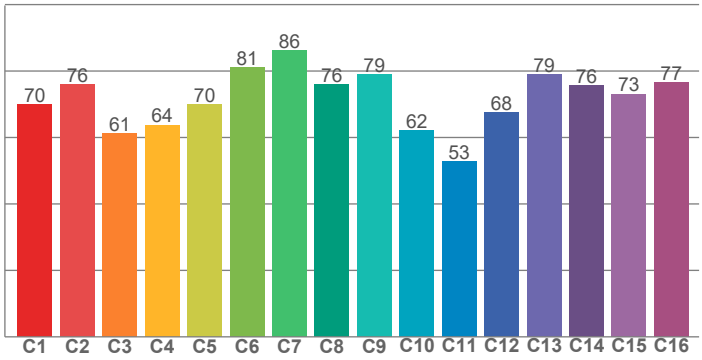
NOVA FLEX

Color details

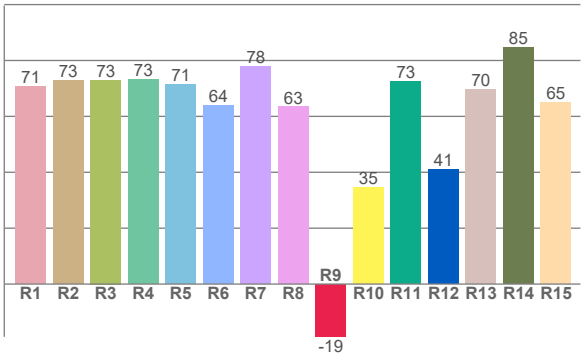




TM-30: 71.2



CRI: (R1-R8): 70.8



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
70.7	72.8	73.0	73.2	71.4	64.0	77.9	63.4	-18.9	34.6	72.5	41.1	69.8	84.7	65.1

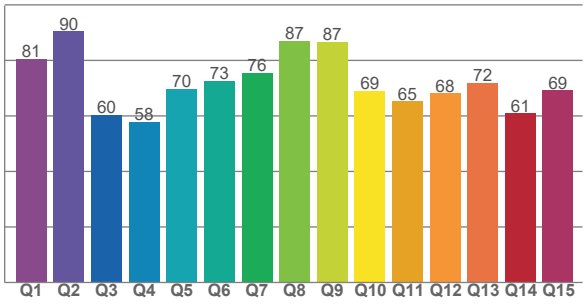
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
70.0	76.0	61.1	63.8	69.9	81.2	86.3	76.1	79.1	62.2	52.7	67.7	79.1	75.7	73.1	76.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80.7	90.5	60.4	57.9	69.7	72.5	75.6	86.9	86.7	69.0	65.2	68.2	72.0	60.9	69.2

CQS: 70.7



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
6102 K	70.8	-18.9	71.2	96.5	70.7	0.320	0.336	0.200	0.315	0.0034

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TM-30 details

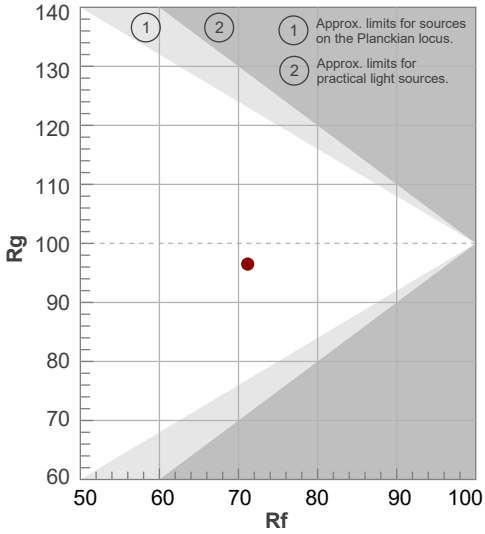
Rf 71.2

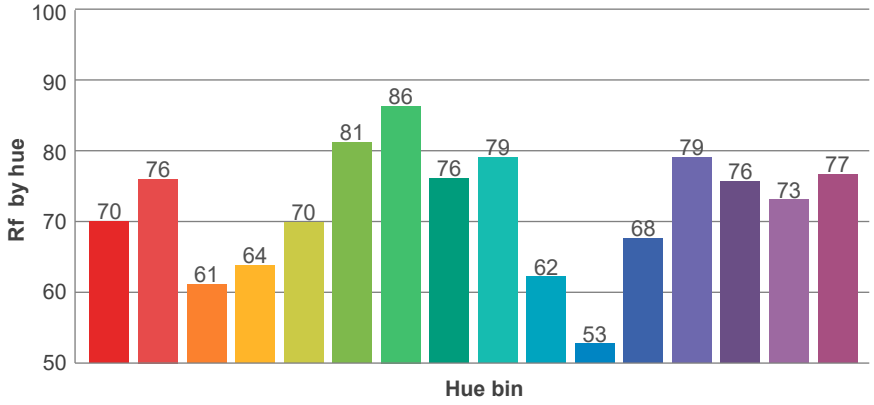
Fidelity index Rf

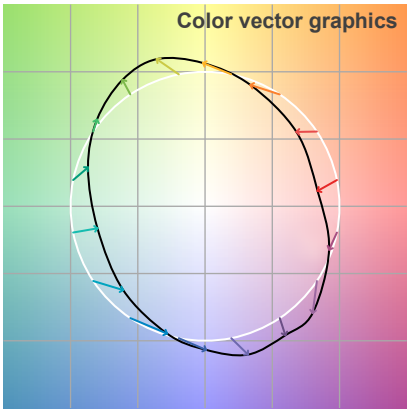
Rg 96.5

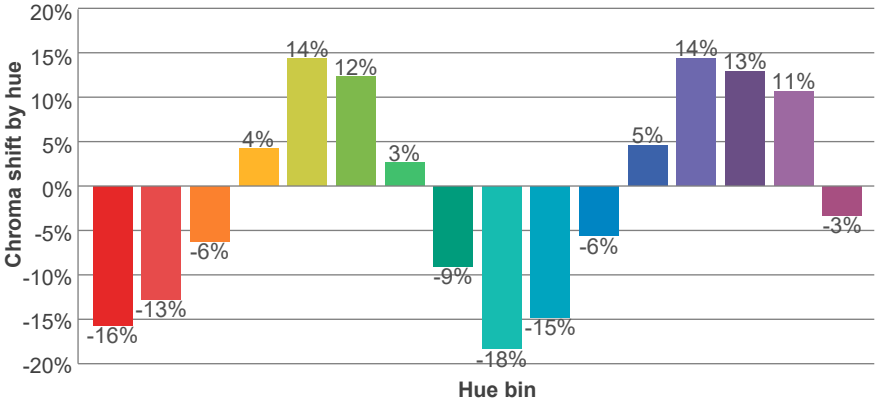
Gamut index Rg

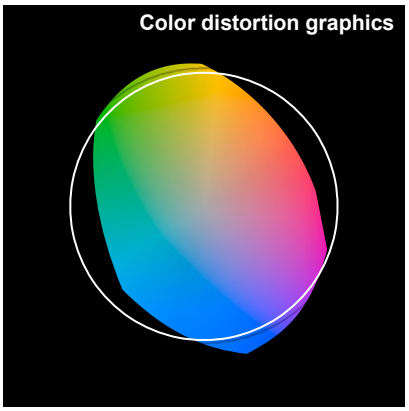
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	70	-16%	-5%
2	76	-13%	8%
3	61	-6%	22%
4	64	4%	22%
5	70	14%	14%
6	81	12%	-1%
7	86	3%	-9%
8	76	-9%	-11%
9	79	-18%	0%
10	62	-15%	18%
11	53	-6%	29%
12	68	5%	22%
13	79	14%	10%
14	76	13%	-4%
15	73	11%	-22%
16	77	-3%	-14%

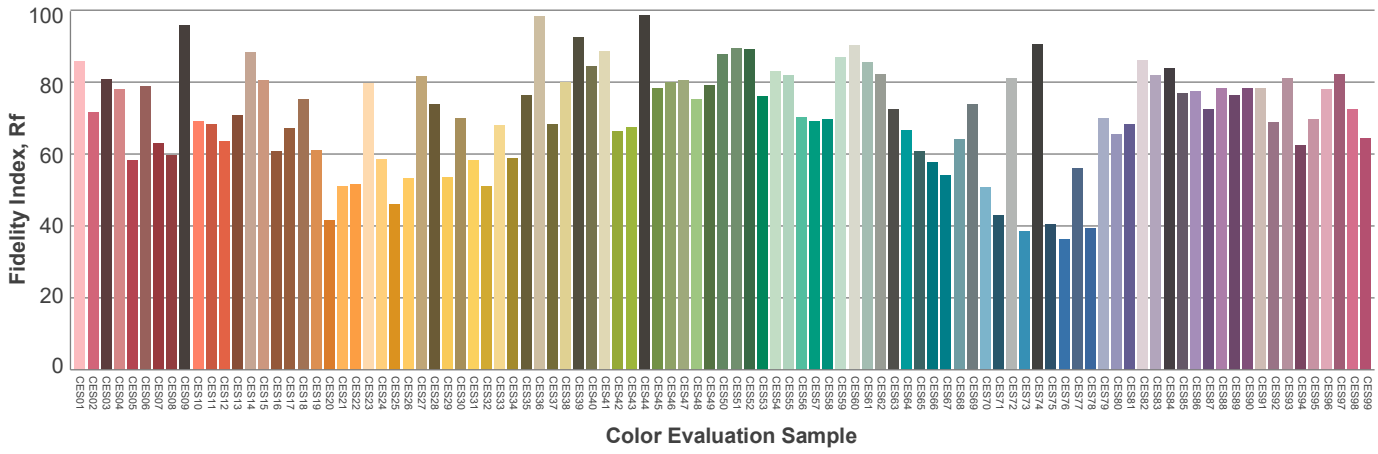






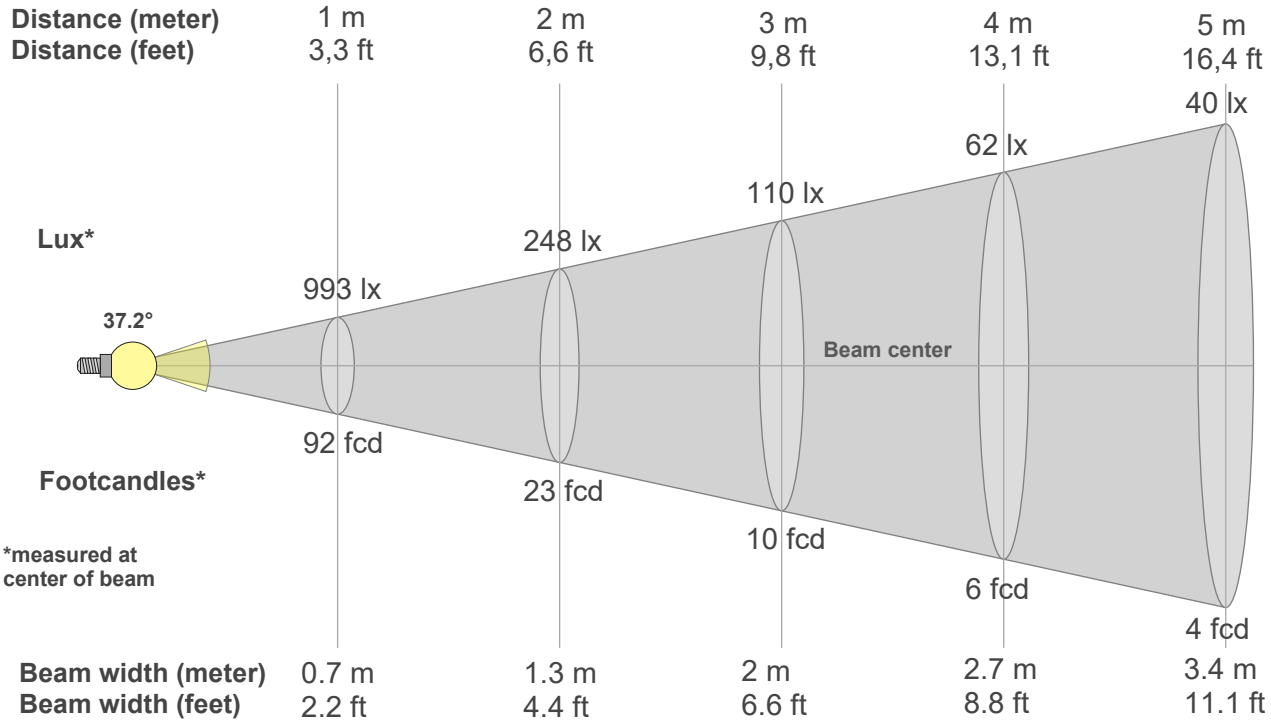






NOVA FLEX

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
993lx	248lx	110lx	62lx	40lx	28lx	20lx	16lx	12lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
92.2fcd	23.1fcd	10.2fcd	5.8fcd	3.7fcd	2.6fcd	1.9fcd	1.4fcd	1.1fcd	0.9fcd	0.8fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	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°
993	975	963	944	919	887	853	813	770	722	672	618	562	505	448	394	342	294	252	214
100%	98%	97%	95%	93%	89%	86%	82%	78%	73%	68%	62%	57%	51%	45%	40%	34%	30%	25%	22%

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°
993	1013	955	870	774	678	588	509	442	384	335	293	258	226	199	177	157	141	128	115
100%	102%	96%	88%	78%	68%	59%	51%	44%	39%	34%	30%	26%	23%	20%	18%	16%	14%	13%	12%

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°
993	975	963	944	919	887	853	813	770	722	672	618	562	505	448	394	342	294	252	214
100%	98%	97%	95%	93%	89%	86%	82%	78%	73%	68%	62%	57%	51%	45%	40%	34%	30%	25%	22%

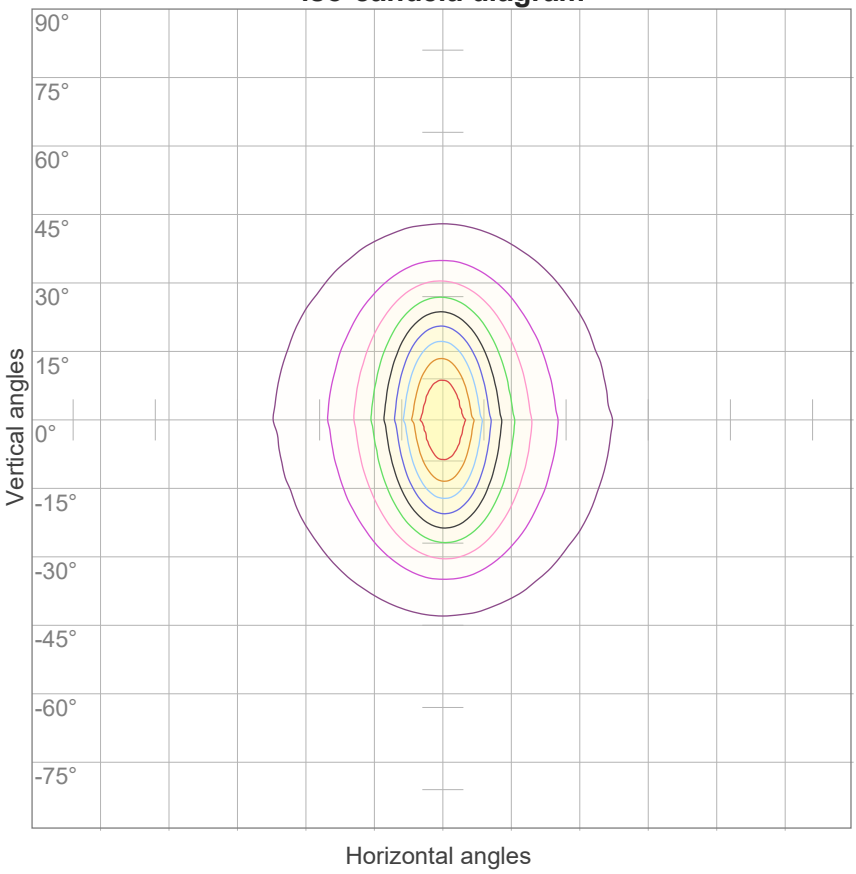
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
993	1013	955	870	774	678	588	509	442	384	335	293	258	226	199	177	157	141	128	115
100%	102%	96%	88%	78%	68%	59%	51%	44%	39%	34%	30%	26%	23%	20%	18%	16%	14%	13%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37.2°	87.3°	139.8°	91.6%	79.6%

Iso Diagrams

iso-candela diagram



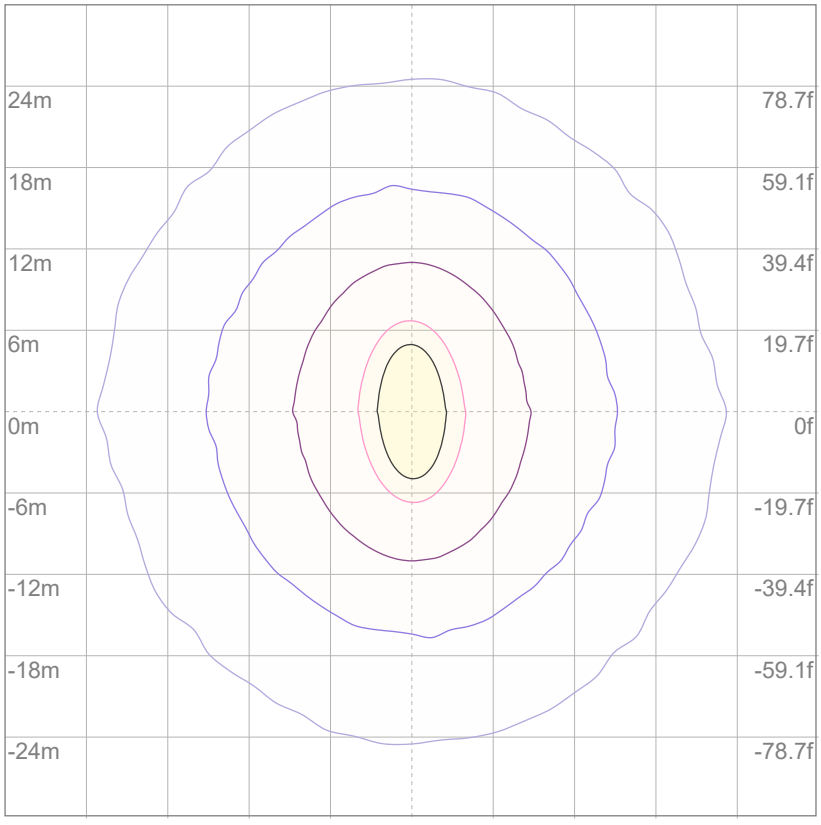
10%	99 cd
20%	199 cd
30%	298 cd
40%	397 cd
50%	496 cd
60%	596 cd
70%	695 cd
80%	794 cd
90%	894 cd

Conditions:

Number of c-planes: 72

Candela at center: 993 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.298 lx
5%	0.496 lx
10%	0.993 lx
30%	2.98 lx
50%	4.96 lx

Conditions:

Number of c-planes: 72

Lux at center: 9.93 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 700 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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53
8	74	63	57	52	73	63	56	52	62	56	52	61	55	52	60	55	51	50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
82.8 lm	166 lm	156 lm	112 lm	74.7 lm	50.3 lm	33.1 lm	18.9 lm	6.28 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.100 lm	0.052 lm	0.049 lm	0.044 lm	0.018 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):	202.3	28.9%
Medium(30-60):	118.6	16.9%
High(60-80):	25.9	3.7%
Very high(80-90):	3.2	0.5%
Back light		
Low(0-30):	202.3	28.9%
Medium(30-60):	118.6	16.9%
High(60-80):	25.9	3.7%
Very high(80-90):	3.2	0.5%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

