NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

77 Lumen/Watt

Light quality:

CRI: 86.7

Color temperature:

4190 K

Output: 618 lm
Peak: 918 cd

Power: 8.0 W
PF: 1.0

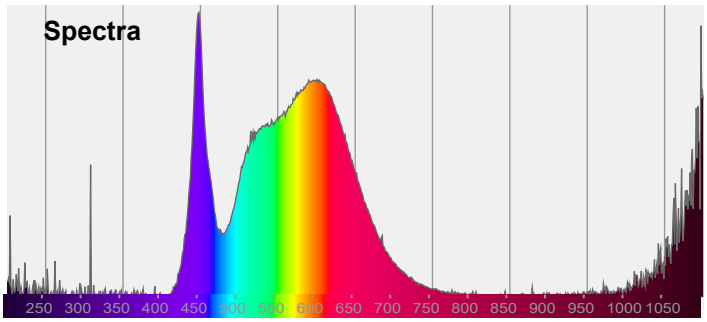
Tracking number: VT250722-006779

Product name:
GRZ White 15x60 24 40

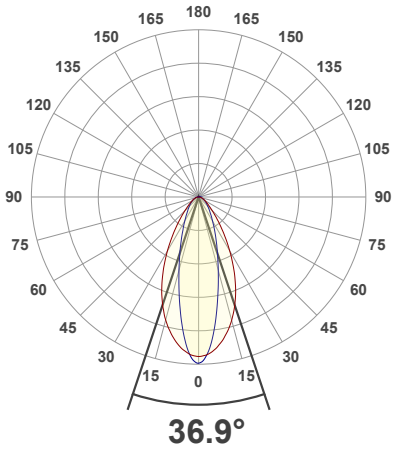
Item number:
1 foot Flex Grazer White 4000K 15° x 60° Optic

Date and time:
7/22/25 4:23:50 PM

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

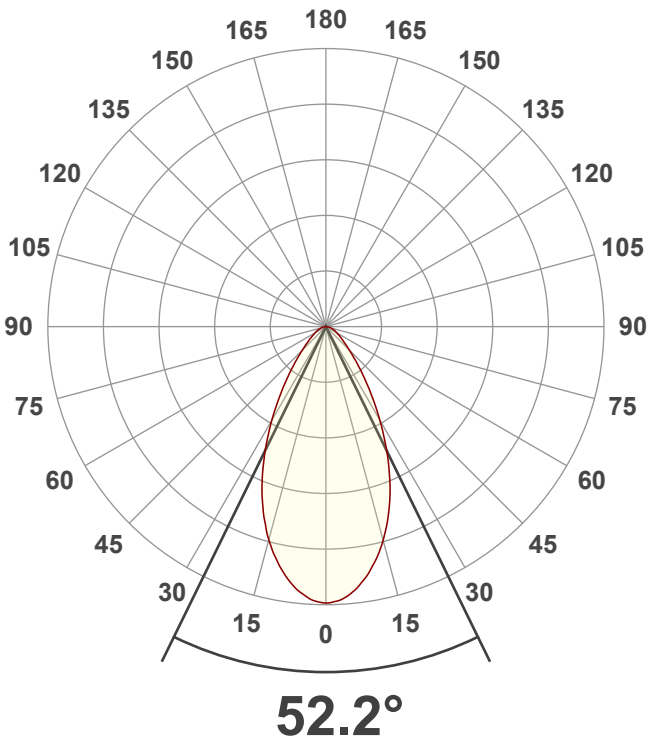


Average Beam Angle

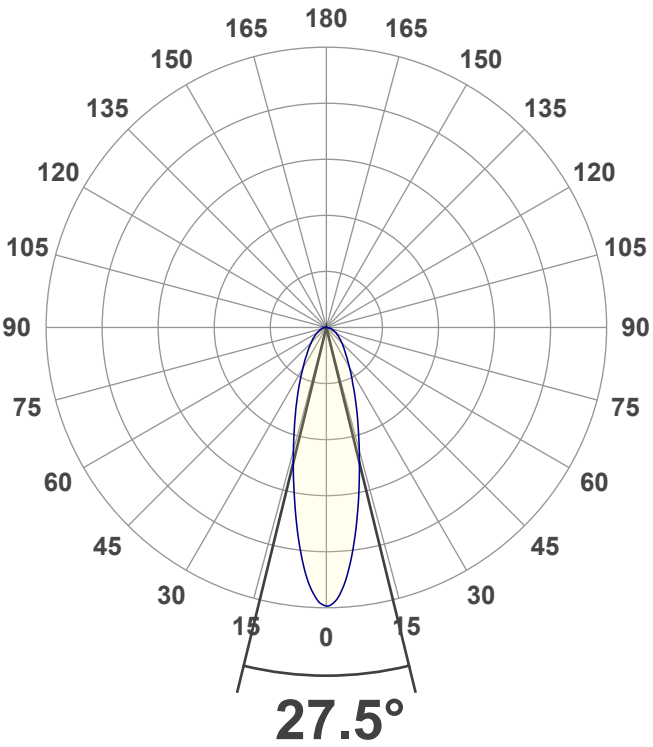


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

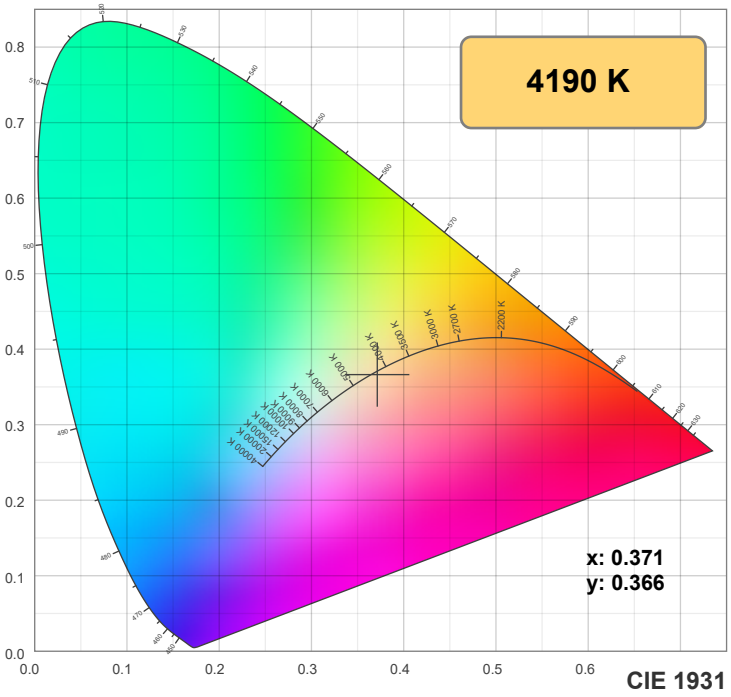


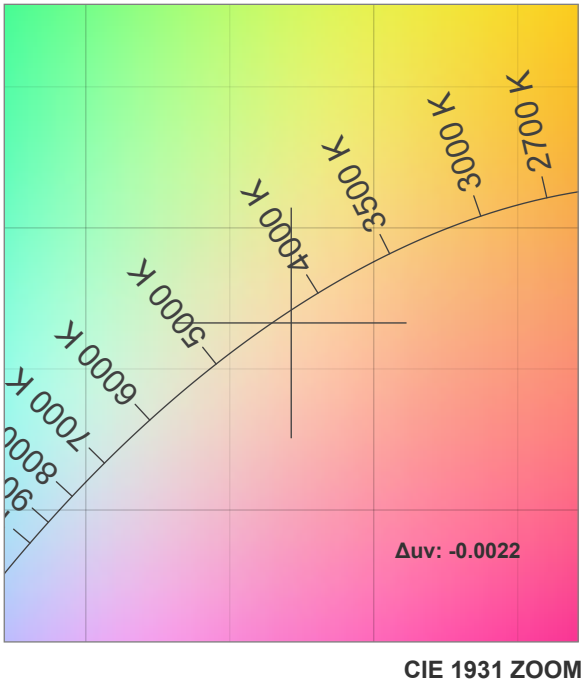
Angular Distribution 90 ° Plane



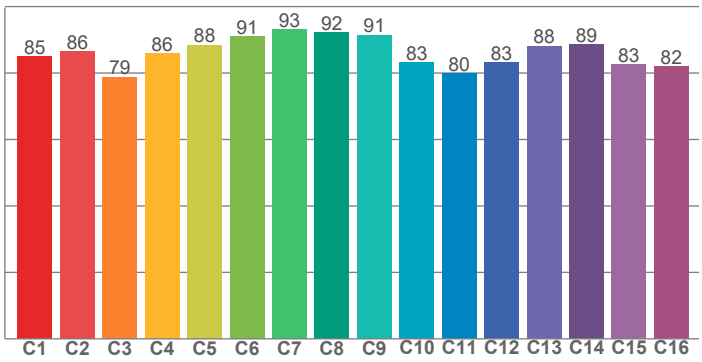
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Color details

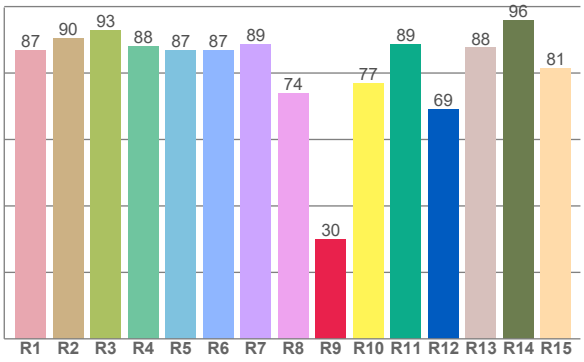




TM-30: 85.9



CRI: (R1-R8): 86.7



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
86.8	90.3	92.8	88.0	86.8	86.8	88.6	73.8	30.0	77.0	88.6	69.2	87.6	95.9	81.4

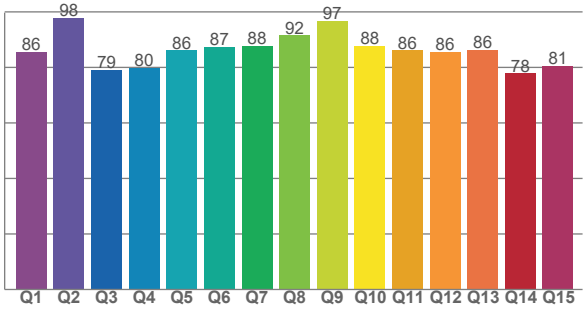
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
85.1	86.4	78.8	85.9	88.4	91.0	93.2	92.3	91.5	83.1	79.9	83.1	88.2	88.7	82.5	82.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85.5	97.8	79.2	80.0	86.1	87.4	87.7	91.5	96.8	87.7	86.1	85.7	86.3	77.8	80.6

CQS: 85.3



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
4190 K	86.7	30.0	85.9	99.5	85.3	0.371	0.366	0.223	0.330	-0.0022

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TM-30 details

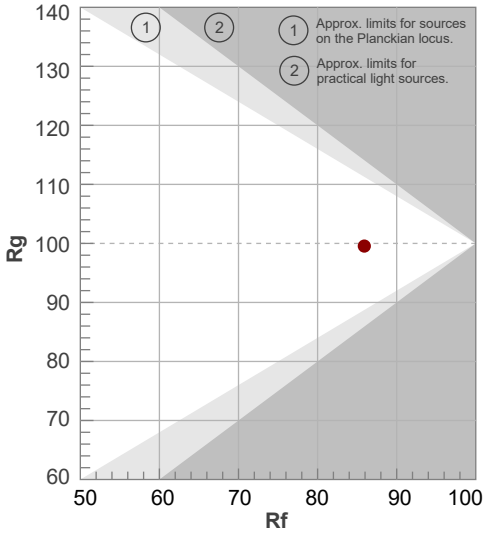
Rf 85.9

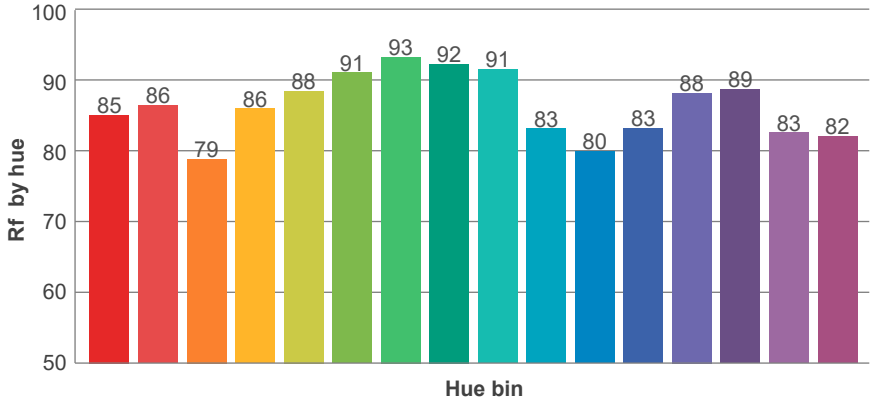
Fidelity index Rf

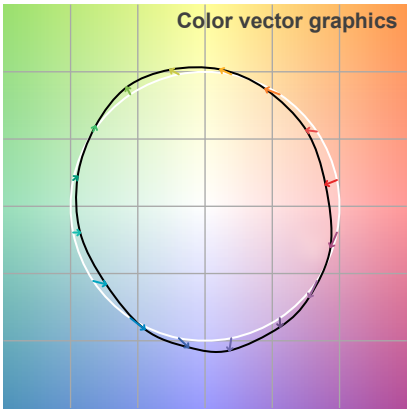
Rg 99.5

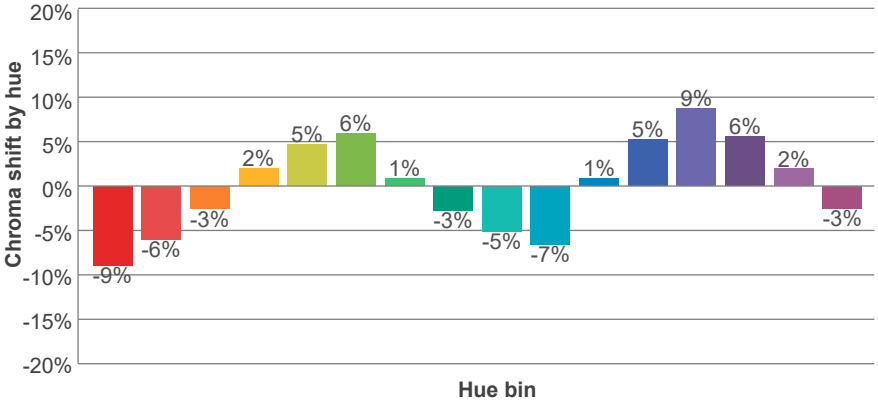
Gamut index Rg

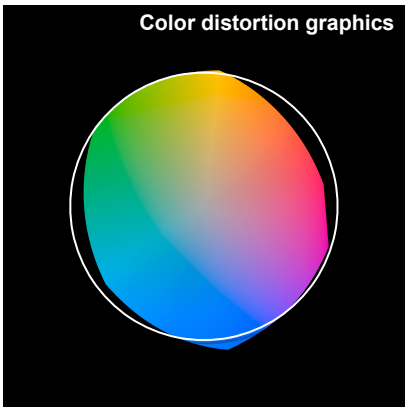
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	85	-9%	-2%
2	86	-6%	5%
3	79	-3%	11%
4	86	2%	9%
5	88	5%	6%
6	91	6%	-1%
7	93	1%	-4%
8	92	-3%	-3%
9	91	-5%	1%
10	83	-7%	7%
11	80	1%	13%
12	83	5%	8%
13	88	9%	-3%
14	89	6%	-3%
15	83	2%	-13%
16	82	-3%	-11%

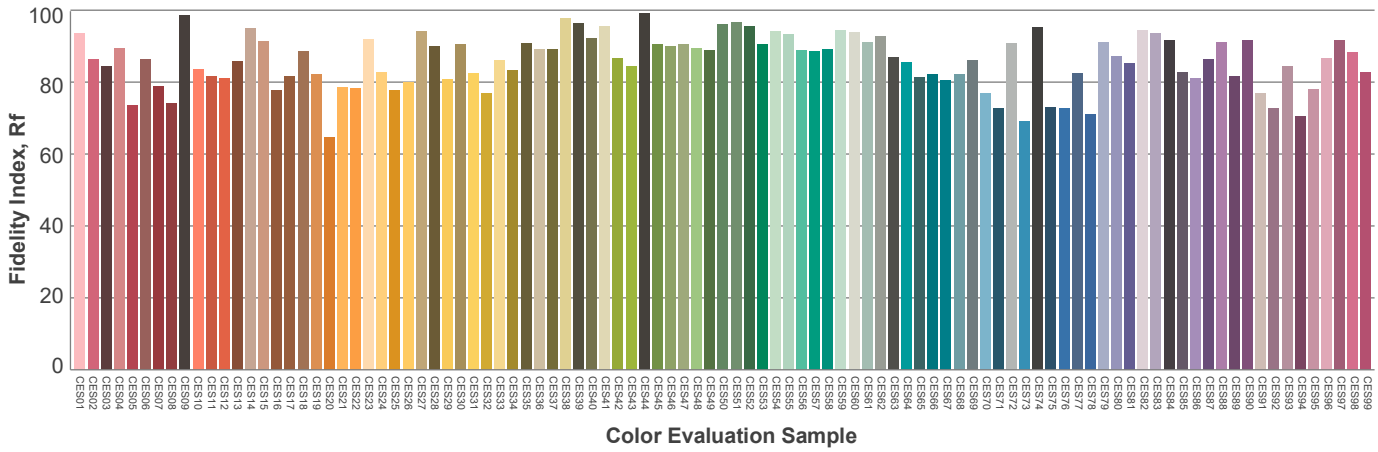






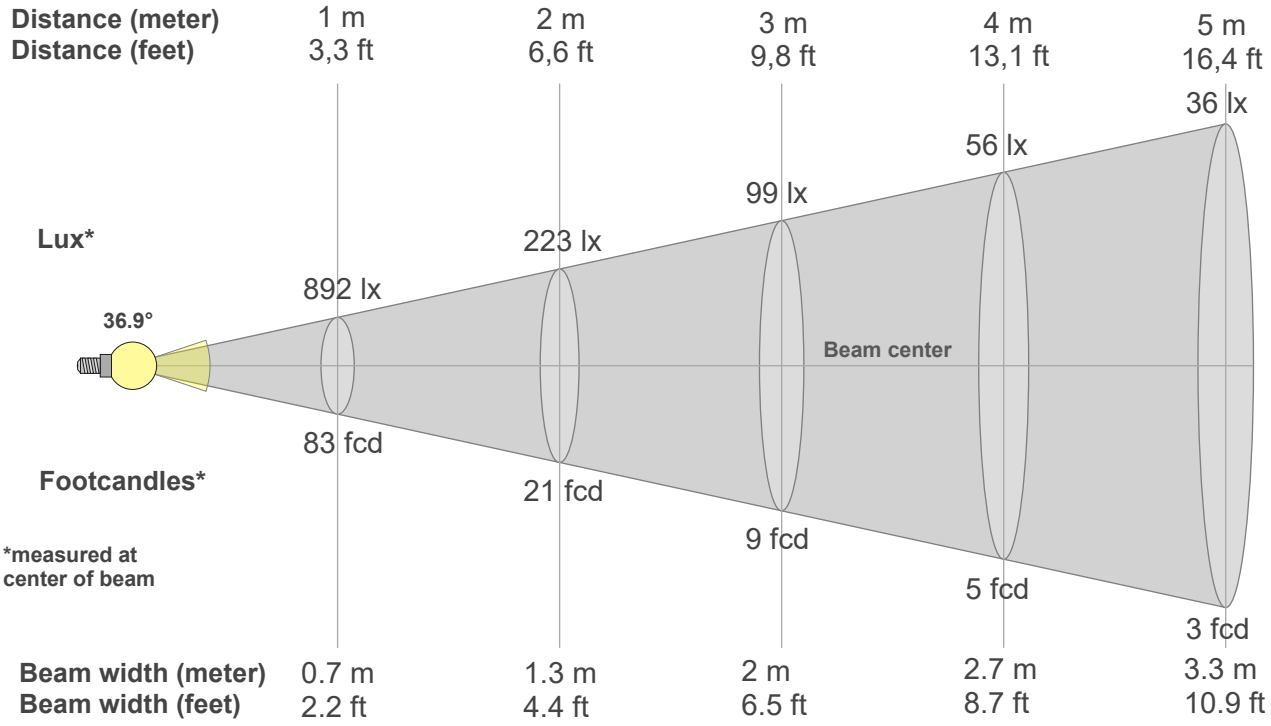






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Beam details



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
892lx	223lx	99lx	56lx	36lx	25lx	18lx	14lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx
82.8fcd	20.7fcd	9.2fcd	5.2fcd	3.3fcd	2.3fcd	1.7fcd	1.3fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	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°
892	876	866	847	822	795	761	725	684	640	594	546	494	443	392	343	298	256	218	186
100%	98%	97%	95%	92%	89%	85%	81%	77%	72%	67%	61%	55%	50%	44%	38%	33%	29%	24%	21%

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°
892	895	842	766	681	596	519	450	391	340	297	259	227	199	175	155	138	123	109	99
100%	100%	94%	86%	76%	67%	58%	51%	44%	38%	33%	29%	25%	22%	20%	17%	15%	14%	12%	11%

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°
892	876	864	846	821	792	758	722	683	639	591	543	493	443	392	345	299	257	220	188
100%	98%	97%	95%	92%	89%	85%	81%	77%	72%	66%	61%	55%	50%	44%	39%	33%	29%	25%	21%

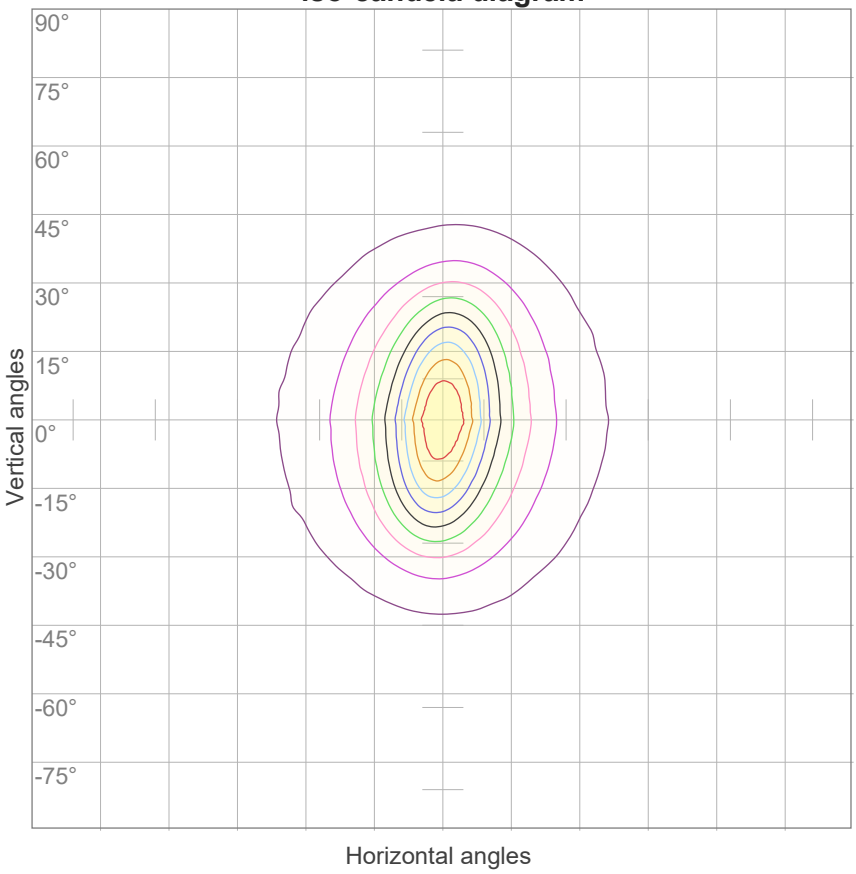
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
892	899	847	771	686	601	521	450	390	338	294	255	223	195	173	153	136	122	109	99
100%	101%	95%	86%	77%	67%	58%	50%	44%	38%	33%	29%	25%	22%	19%	17%	15%	14%	12%	11%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36.9°	86.3°	138.3°	91.9%	80.0%

Iso Diagrams

iso-candela diagram



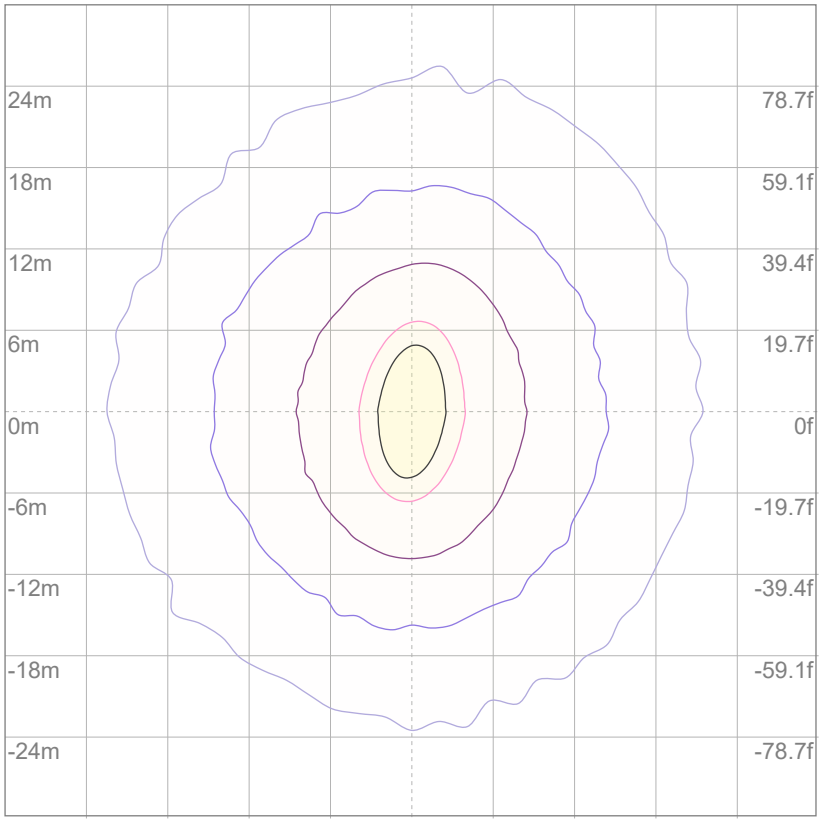
10%	89 cd
20%	178 cd
30%	268 cd
40%	357 cd
50%	446 cd
60%	535 cd
70%	624 cd
80%	713 cd
90%	803 cd

Conditions:

Number of c-planes: 72

Candela at center: 892 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.268 lx
5%	0.446 lx
10%	0.892 lx
30%	2.68 lx
50%	4.46 lx

Conditions:

Number of c-planes: 72

Lux at center: 8.92 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 618 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	103	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62
6	83	72	66	61	81	72	65	60	70	64	60	69	63	60	67	63	59	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	71	60	54	49	69	60	53	49	59	53	49	58	52	49	57	52	49	47
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
74.1 lm	148 lm	138 lm	98.6 lm	65.2 lm	43.9 lm	28.7 lm	16.2 lm	5.20 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.012 lm	0.000 lm	0.000 lm	0.000 lm	0.000 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):	179.7	29.1%
Medium(30-60):	104	16.8%
High(60-80):	22.9	3.7%
Very high(80-90):	2.8	0.5%
Back light		
Low(0-30):	180.1	29.2%
Medium(30-60):	103.7	16.8%
High(60-80):	22	3.6%
Very high(80-90):	2.4	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

