NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

81 Lumen/Watt

Light quality:

CRI: 85.8

Color temperature:

4089 K

Output: 656 lm
Peak: 1792 cd

Power: 8.1 W
PF: 1.0

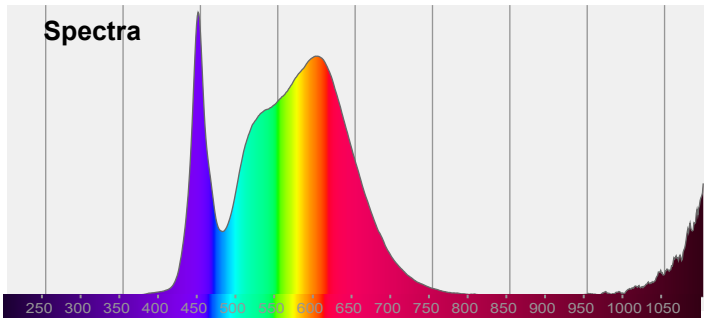
Tracking number: VT250729-000618

Product name:
GRZ Blk 25 24 40

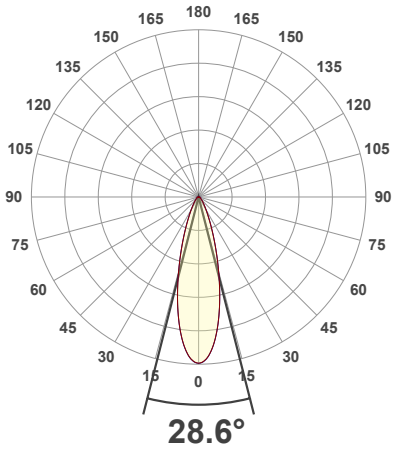
Item number:
1 foot Flex Grazer Black 4000K 25° Optic

Date and time:
7/29/25 12:06:59 PM

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

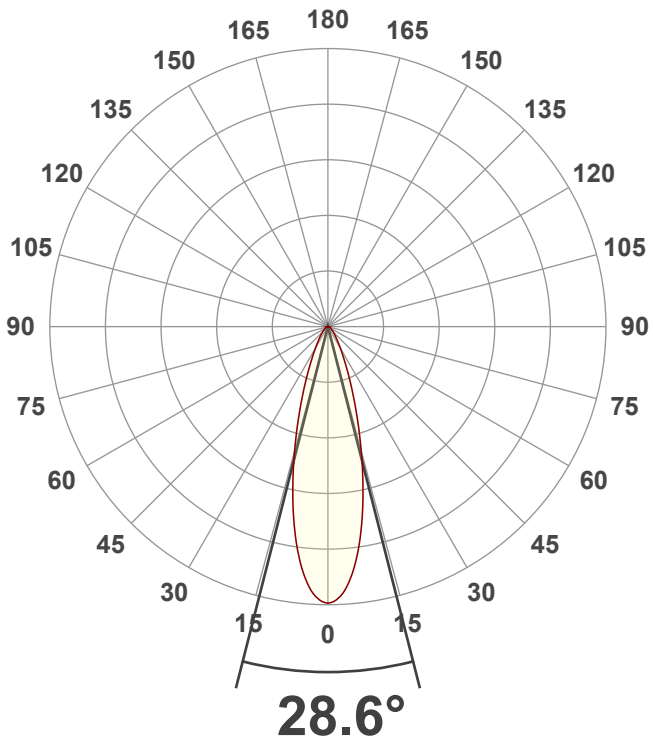


Average Beam Angle

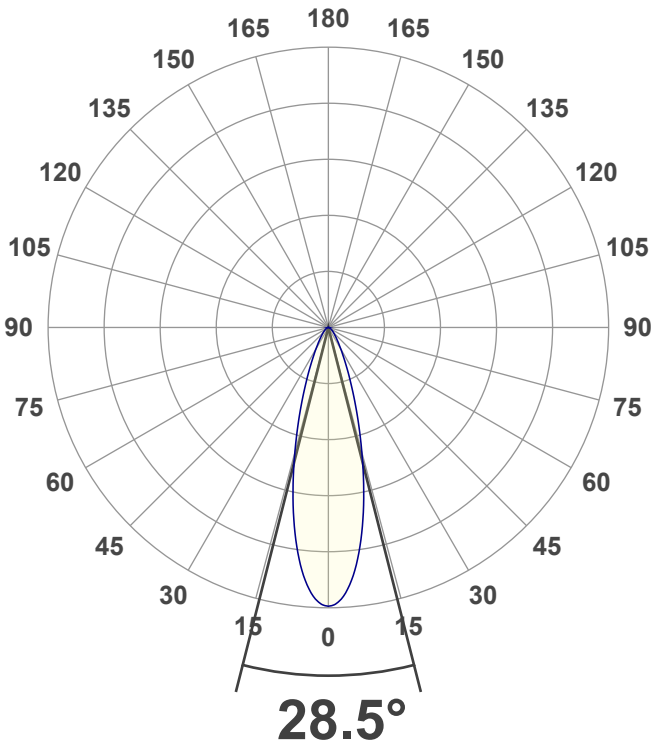


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

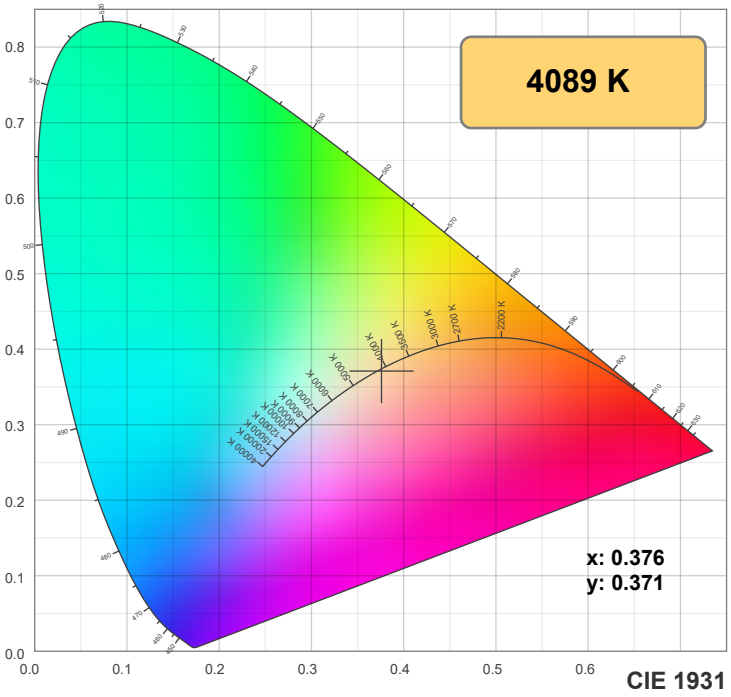


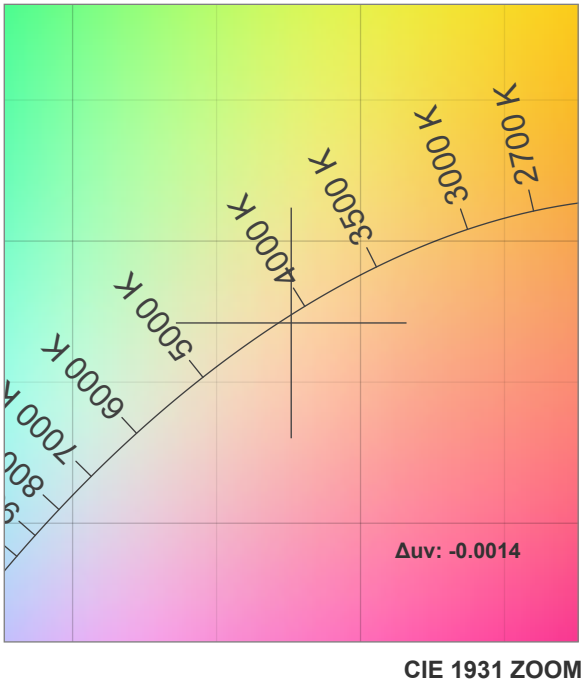
Angular Distribution 90 ° Plane



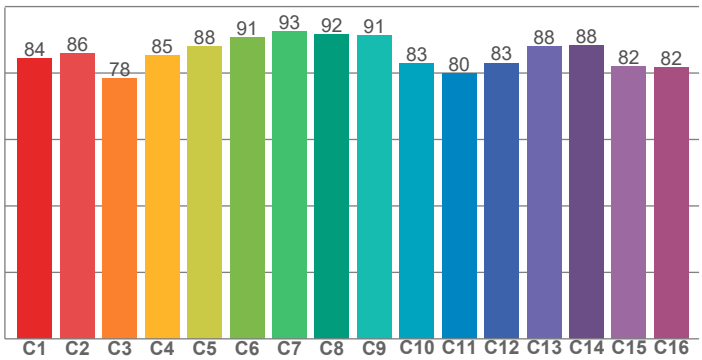
NOVA FLEX

Color details

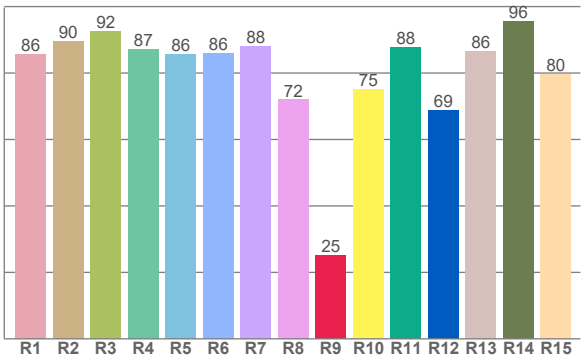




TM-30: 85.5



CRI: (R1-R8): 85.8



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
85.6	89.5	92.5	87.2	85.7	86.0	88.1	71.9	25.1	75.1	87.8	68.7	86.4	95.7	79.7

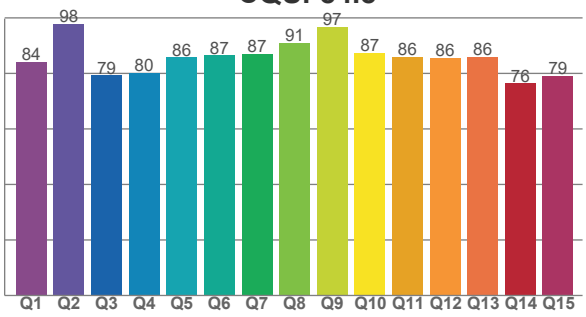
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
84.4	86.0	78.3	85.4	88.1	90.6	92.6	91.7	91.2	82.8	80.0	83.1	87.9	88.3	81.9	81.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84.3	97.8	79.3	80.1	85.7	86.5	86.9	91.1	96.8	87.4	85.9	85.5	86.0	76.4	79.2

CQS: 84.8



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
4089 K	85.8	25.1	85.5	99.3	84.8	0.376	0.371	0.224	0.332	-0.0014

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TM-30 details

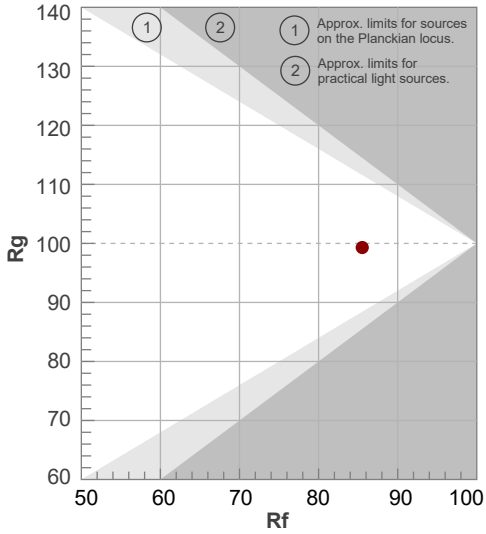
Rf 85.5

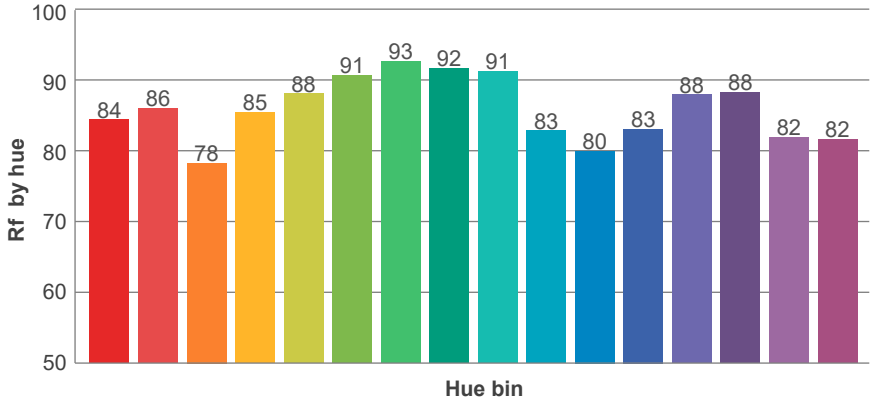
Fidelity index Rf

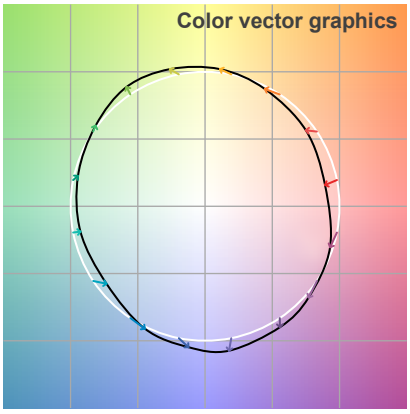
Rg 99.3

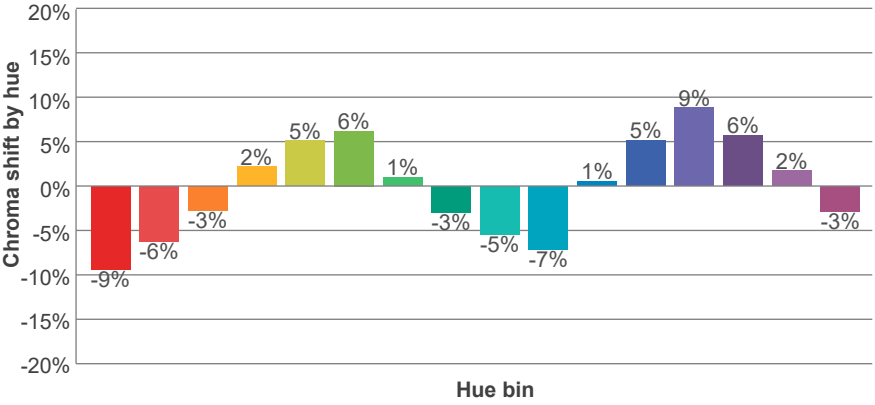
Gamut index Rg

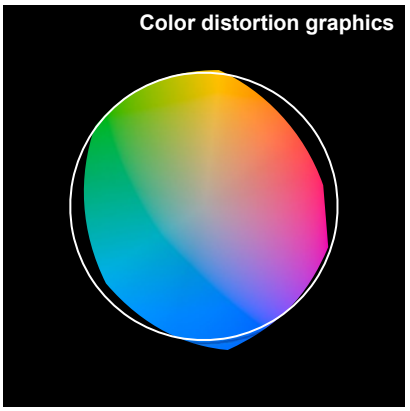
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	84	-9%	-2%
2	86	-6%	5%
3	78	-3%	11%
4	85	2%	9%
5	88	5%	6%
6	91	6%	-1%
7	93	1%	-5%
8	92	-3%	-4%
9	91	-5%	0%
10	83	-7%	7%
11	80	1%	13%
12	83	5%	8%
13	88	9%	-3%
14	88	6%	-4%
15	82	2%	-14%
16	82	-3%	-12%

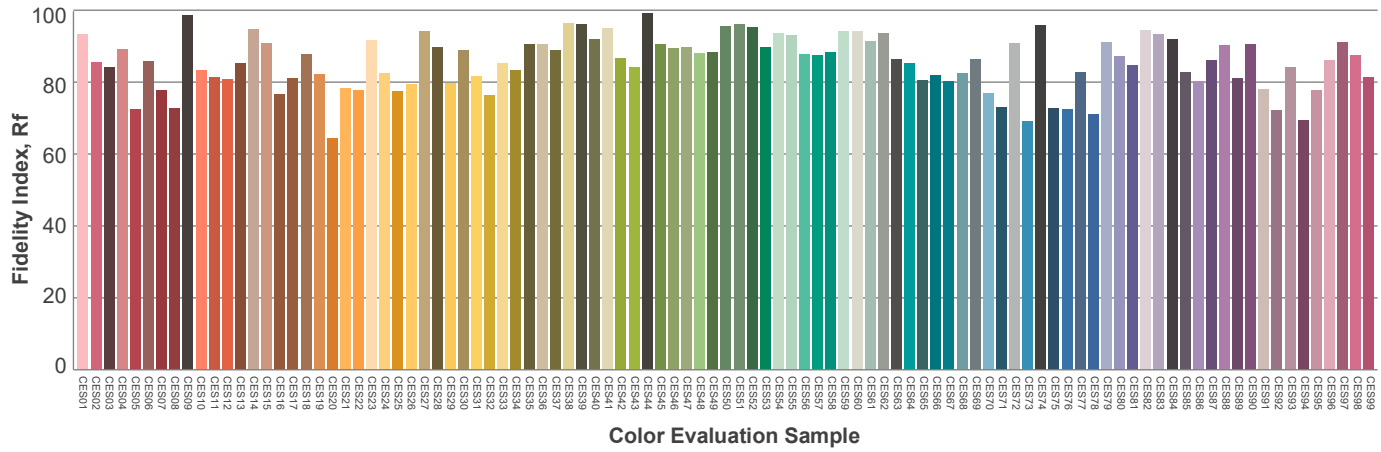






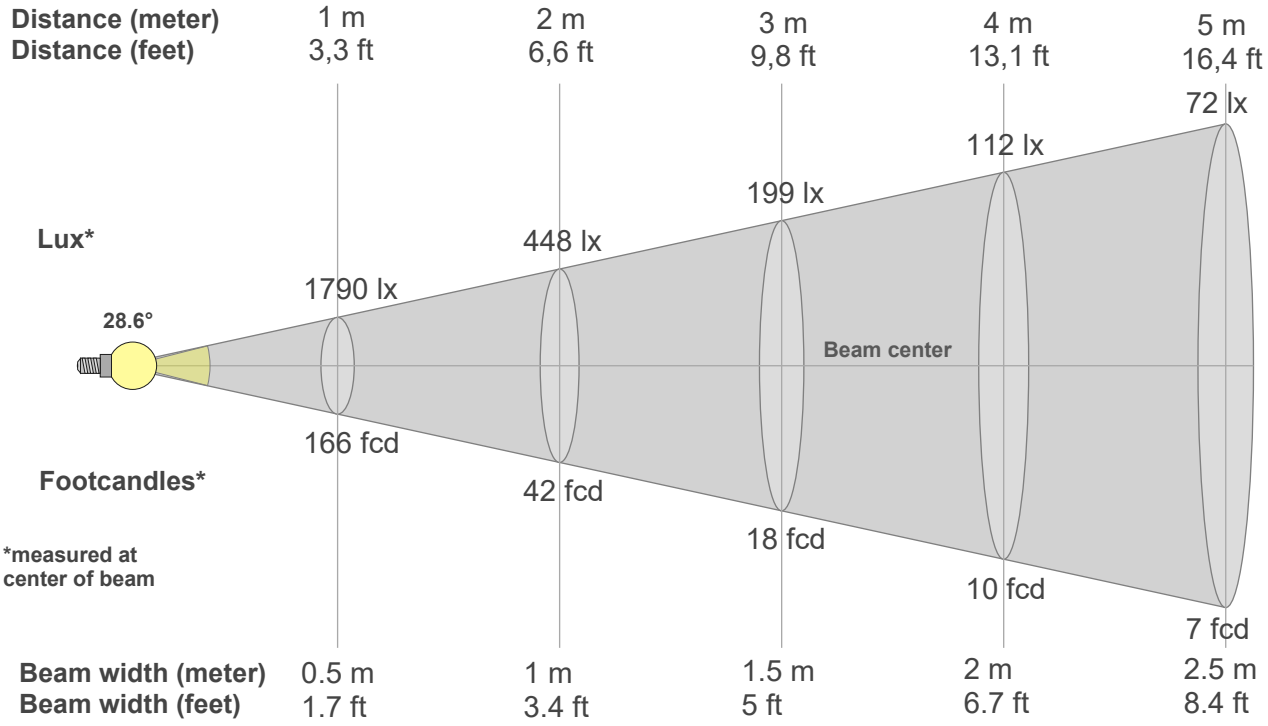






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Beam details



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
1790lx	448lx	199lx	112lx	72lx	50lx	37lx	28lx	22lx	18lx	15lx	12lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	4lx
166.3fc	41.6fcd	18.5fcd	10.4fcd	6.7fcd	4.6fcd	3.4fcd	2.6fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

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°
1790	1765	1696	1584	1440	1272	1094	919	754	609	487	387	307	245	199	162	133	111	94	80
100%	99%	95%	88%	80%	71%	61%	51%	42%	34%	27%	22%	17%	14%	11%	9%	7%	6%	5%	4%

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°
1790	1768	1697	1585	1439	1272	1094	917	753	610	486	385	307	244	196	160	130	109	92	79
100%	99%	95%	89%	80%	71%	61%	51%	42%	34%	27%	21%	17%	14%	11%	9%	7%	6%	5%	4%

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°
1790	1765	1696	1584	1440	1272	1094	919	754	609	487	387	307	245	199	162	133	111	94	80
100%	99%	95%	88%	80%	71%	61%	51%	42%	34%	27%	22%	17%	14%	11%	9%	7%	6%	5%	4%

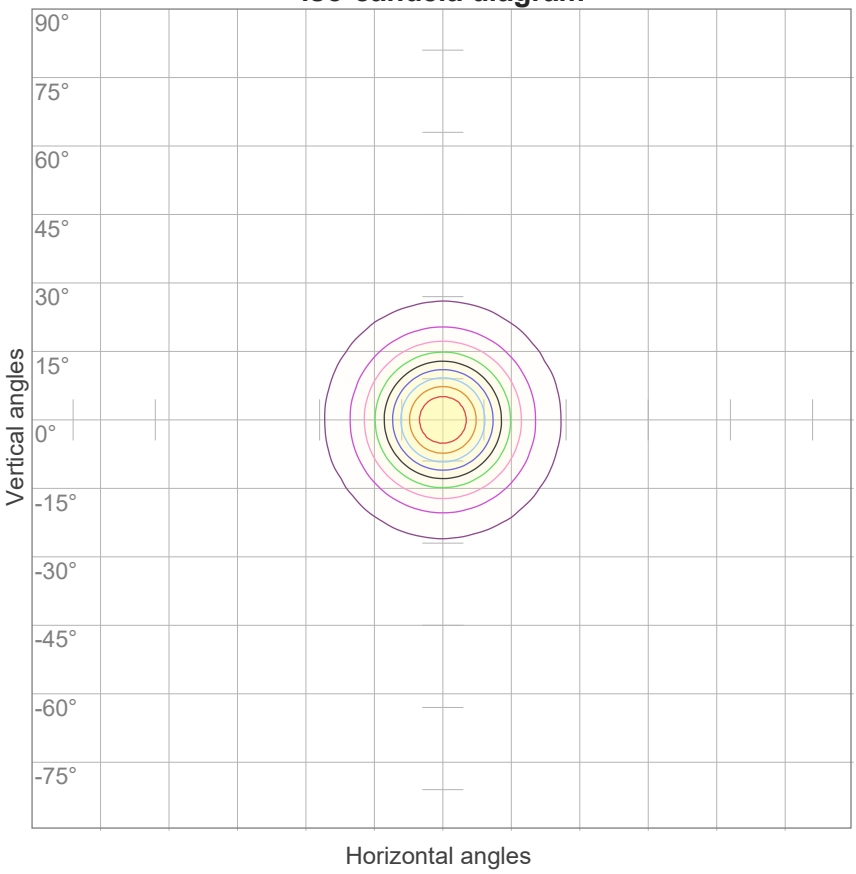
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1790	1768	1697	1585	1439	1272	1094	917	753	610	486	385	307	244	196	160	130	109	92	79
100%	99%	95%	89%	80%	71%	61%	51%	42%	34%	27%	21%	17%	14%	11%	9%	7%	6%	5%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28.6°	57.9°	92.4°	96.1%	90.0%

Iso Diagrams

iso-candela diagram



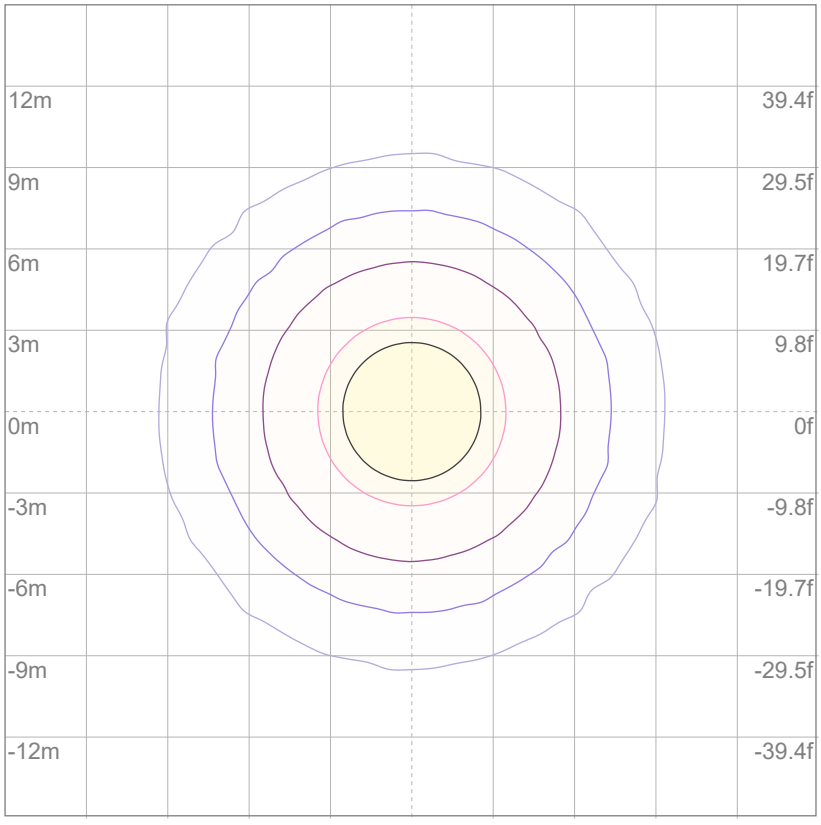
10%	179 cd
20%	358 cd
30%	537 cd
40%	716 cd
50%	895 cd
60%	1074 cd
70%	1253 cd
80%	1432 cd
90%	1611 cd

Conditions:

Number of c-planes: 72

Candela at center: 1790 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.537 lx
5%	0.895 lx
10%	1.79 lx
30%	5.37 lx
50%	8.95 lx

Conditions:

Number of c-planes: 72

Lux at center: 17.9 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 656 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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	92	91	89	87
3	103	97	92	88	101	95	91	88	93	89	86	90	87	85	88	86	83	82
4	98	91	86	82	97	90	85	82	88	84	81	86	82	80	84	81	79	77
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73
6	90	82	77	73	89	81	76	72	80	75	72	78	74	71	77	74	71	70
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66
8	83	75	69	66	82	74	69	65	73	68	65	72	68	65	71	67	65	63
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	59	58

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
145 lm	229 lm	130 lm	65.2 lm	38.1 lm	23.1 lm	13.1 lm	7.37 lm	3.37 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.531 lm	0.445 lm	0.418 lm	0.377 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):	252.5	38.5%
Medium(30-60):	63.3	9.7%
High(60-80):	10.3	1.6%
Very high(80-90):	1.7	0.3%
Back light		
Low(0-30):	252.5	38.5%
Medium(30-60):	63.3	9.7%
High(60-80):	10.3	1.6%
Very high(80-90):	1.7	0.3%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

