NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

94 Lumen/Watt

Light quality:

CRI: 69.7

Color temperature:

5796 K

Output: 763 lm
Peak: 2107 cd

Power: 8.1 W
PF: 1.0

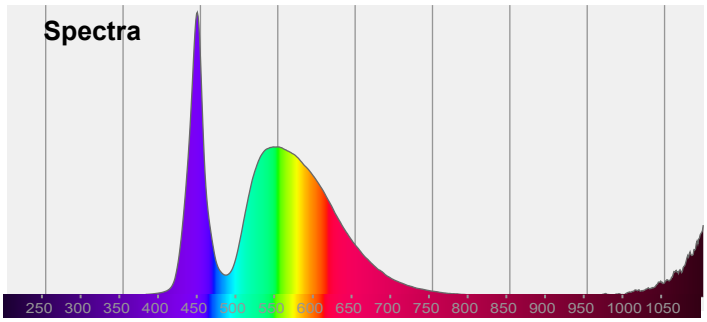
Tracking number: VT250728-004245

Product name:
GRZ Blk25 24 57

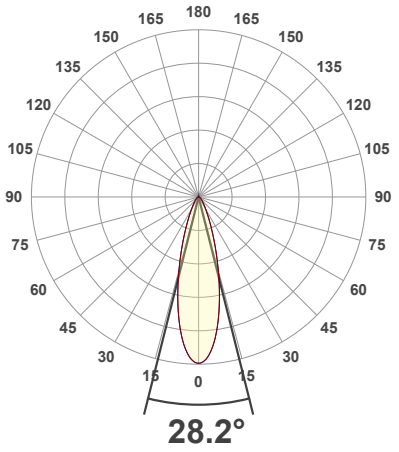
Item number:
1 foot Flex Grazer Black 5700K 25° Optic

Date and time:
7/28/25 4:19:44 PM

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

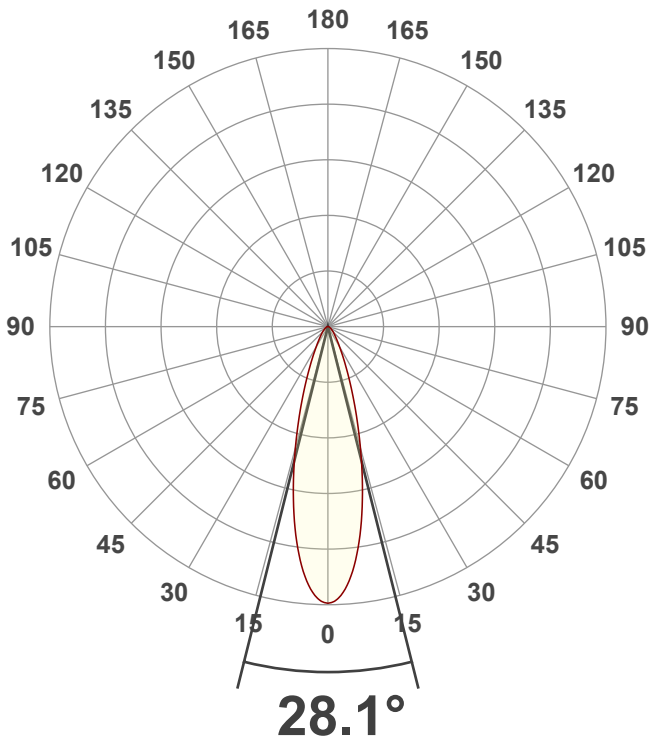


Average Beam Angle

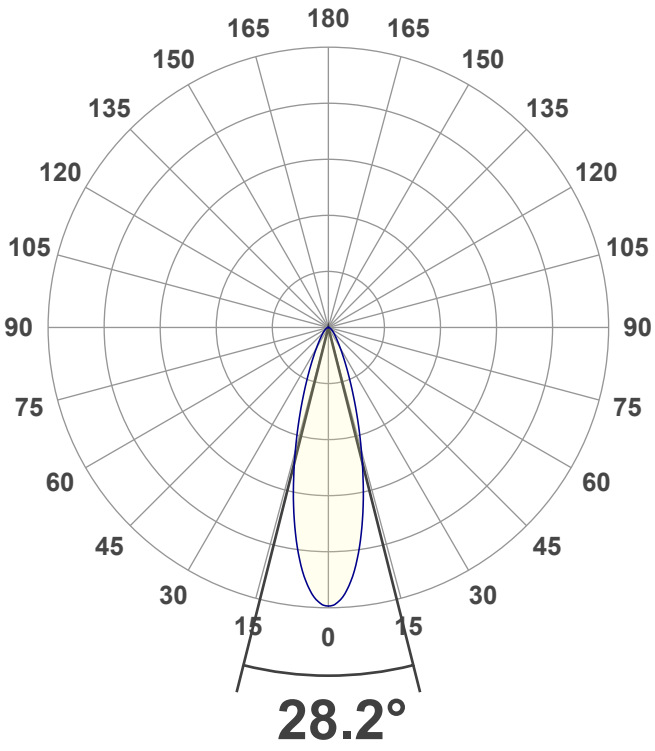


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

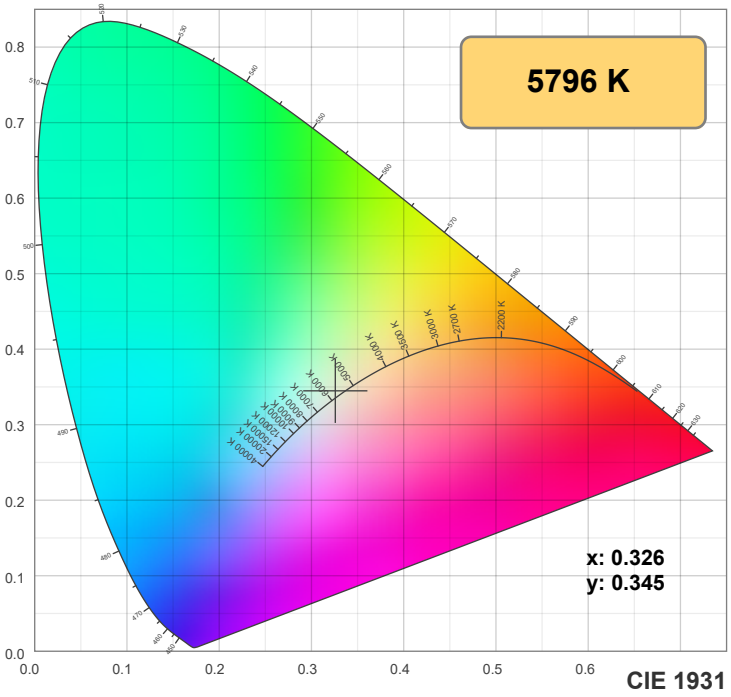


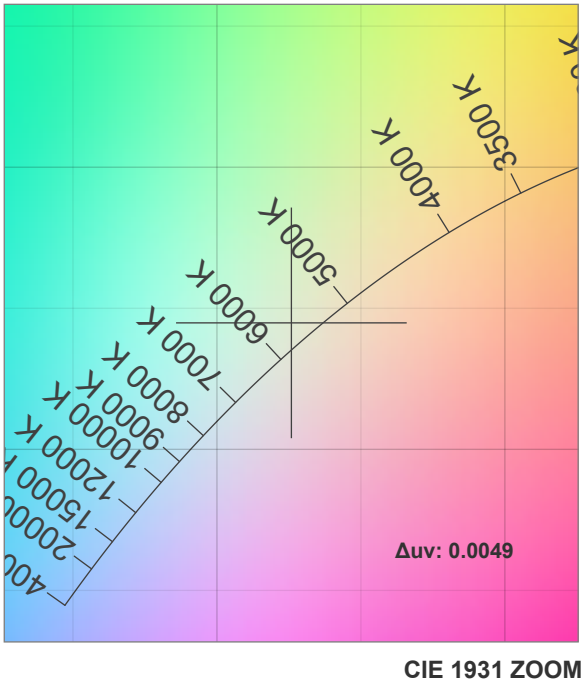
Angular Distribution 90 ° Plane



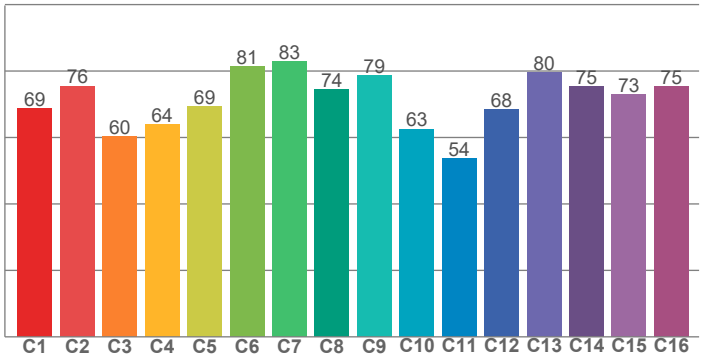
NOVA FLEX

Color details

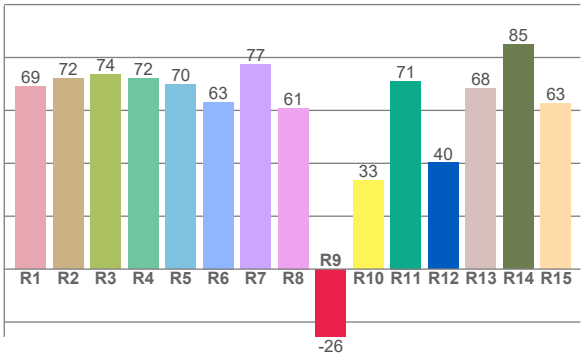




TM-30: 70.7



CRI: (R1-R8): 69.7



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
69.0	72.1	73.6	72.0	69.8	63.2	77.3	60.9	-25.6	33.5	71.1	40.2	68.2	85.0	62.6

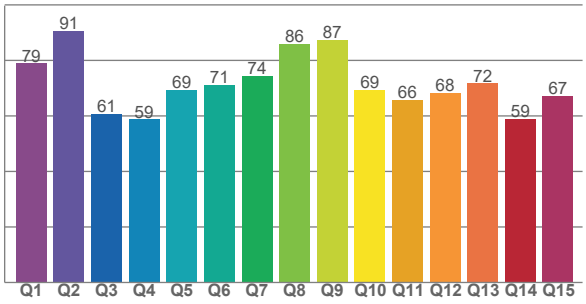
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
68.7	75.5	60.3	64.0	69.3	81.4	82.9	74.5	78.6	62.6	53.6	68.4	79.5	75.3	72.9	75.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.9	90.7	60.7	58.8	69.5	71.3	74.4	85.9	87.4	69.3	65.7	68.4	71.7	59.0	67.3

CQS: 70.3



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
5796 K	69.7	-25.6	70.7	96.1	70.3	0.326	0.345	0.201	0.319	0.0049

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TM-30 details

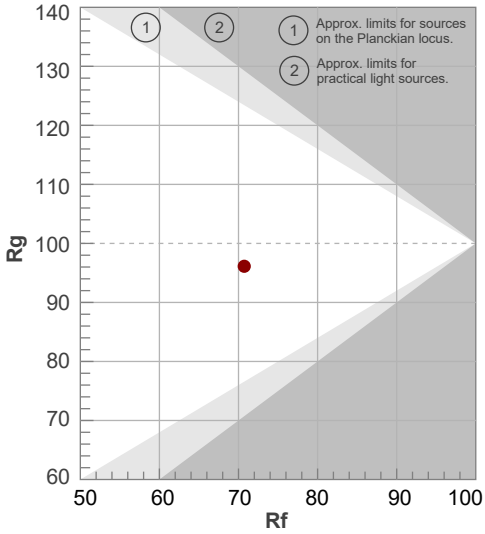
Rf 70.7

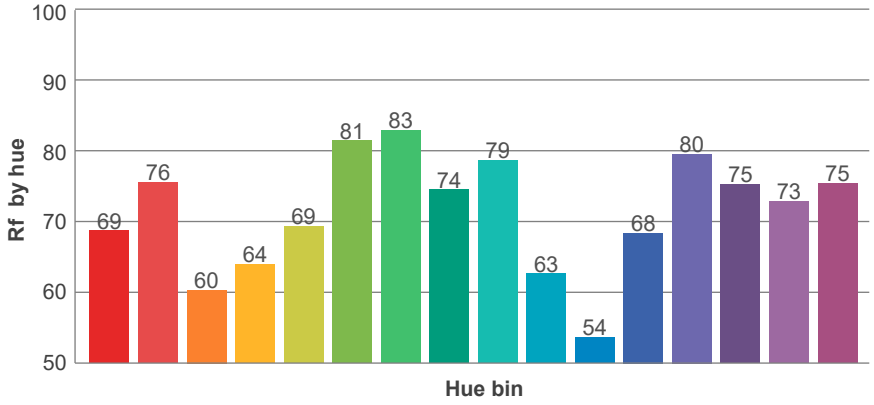
Fidelity index Rf

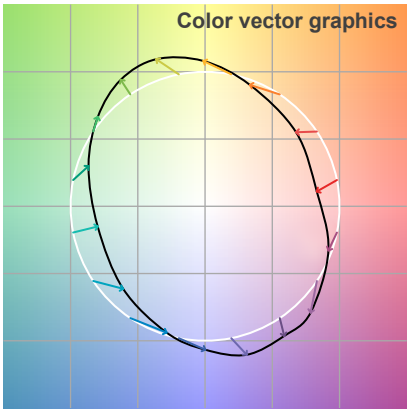
Rg 96.1

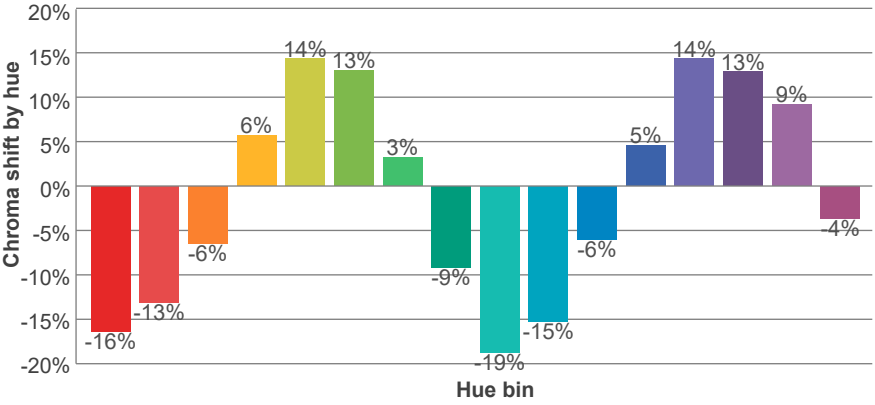
Gamut index Rg

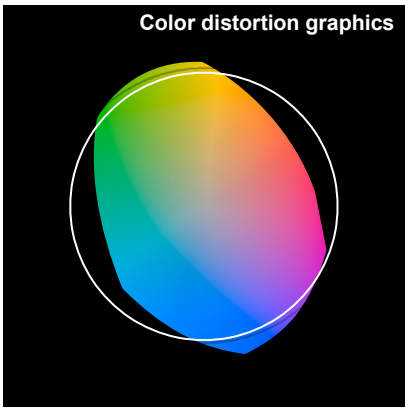
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	69	-16%	-5%
2	76	-13%	8%
3	60	-6%	22%
4	64	6%	22%
5	69	14%	14%
6	81	13%	0%
7	83	3%	-11%
8	74	-9%	-12%
9	79	-19%	-1%
10	63	-15%	17%
11	54	-6%	28%
12	68	5%	21%
13	80	14%	9%
14	75	13%	-5%
15	73	9%	-22%
16	75	-4%	-14%

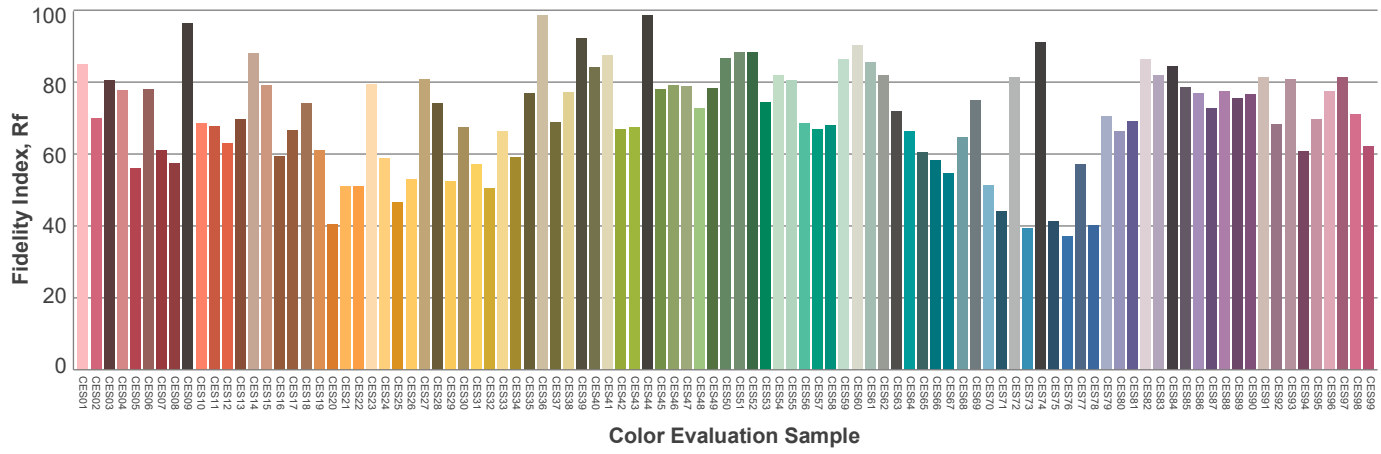






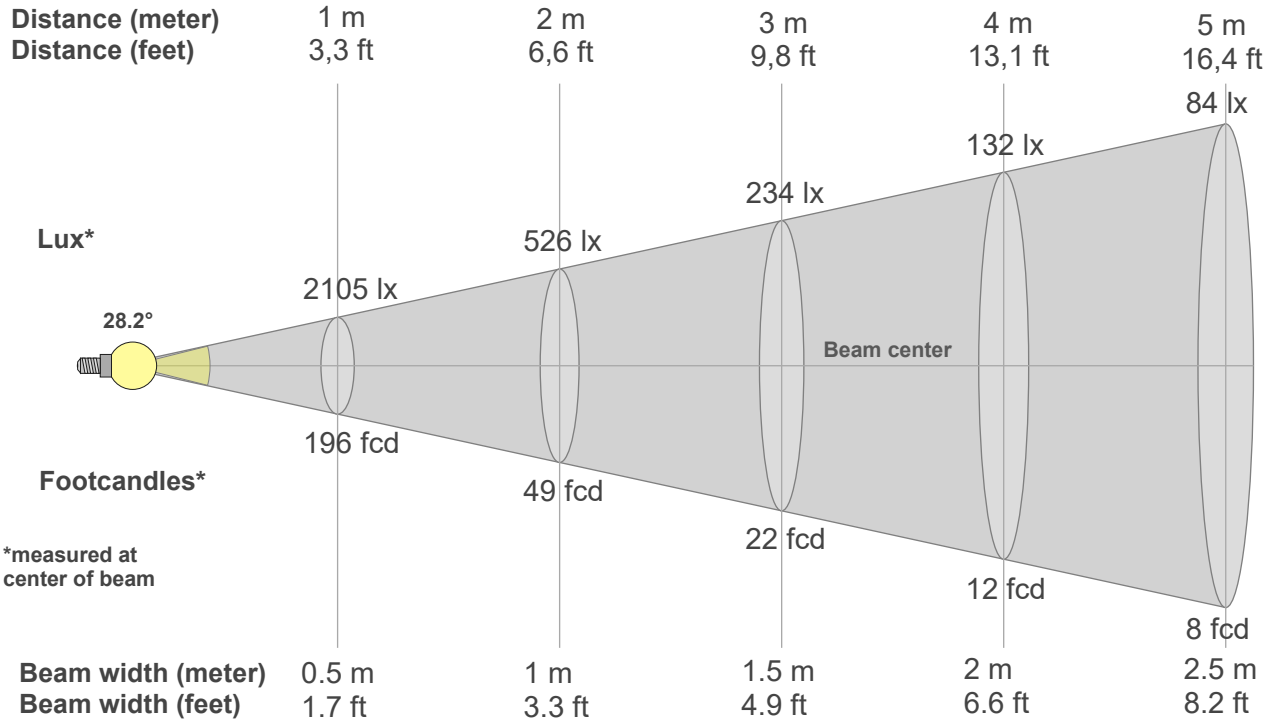






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Beam details



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
2105lx	526lx	234lx	132lx	84lx	58lx	43lx	33lx	26lx	21lx	17lx	15lx	12lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx
195.6fc	48.9fcd	21.7fcd	12.2fcd	7.8fcd	5.4fcd	4fcd	3.1fcd	2.4fcd	2fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd

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°
2105	2075	1989	1853	1678	1478	1266	1058	864	695	552	435	343	274	219	178	149	124	104	90
100%	99%	94%	88%	80%	70%	60%	50%	41%	33%	26%	21%	16%	13%	10%	8%	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°
2105	2076	1991	1857	1681	1481	1272	1064	872	701	557	440	349	277	223	180	149	124	104	90
100%	99%	95%	88%	80%	70%	60%	51%	41%	33%	26%	21%	17%	13%	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°
2105	2075	1989	1853	1678	1478	1266	1058	864	695	552	435	343	274	219	178	149	124	104	90
100%	99%	94%	88%	80%	70%	60%	50%	41%	33%	26%	21%	16%	13%	10%	8%	7%	6%	5%	4%

Intensities in 270° c-plane

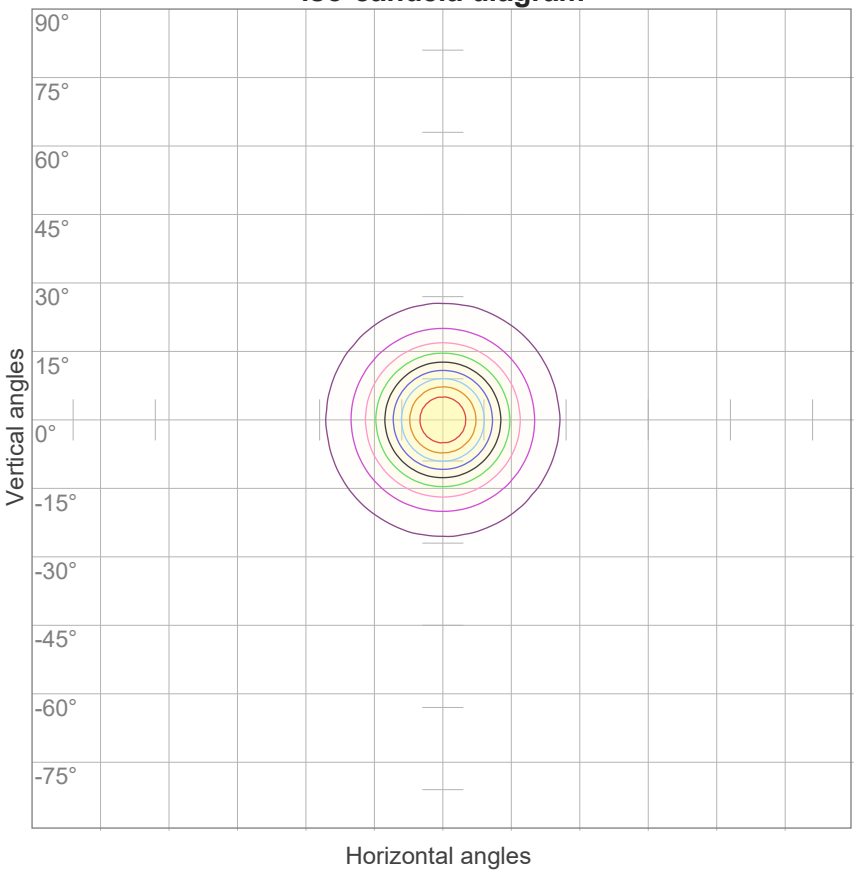
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2105	2076	1991	1857	1681	1481	1272	1064	872	701	557	440	349	277	223	180	149	124	104	90
100%	99%	95%	88%	80%	70%	60%	51%	41%	33%	26%	21%	17%	13%	11%	9%	7%	6%	5%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28.2°	56.9°	92.1°	94.9%	88.7%

NOVA FLEX

Iso Diagrams

iso-candela diagram



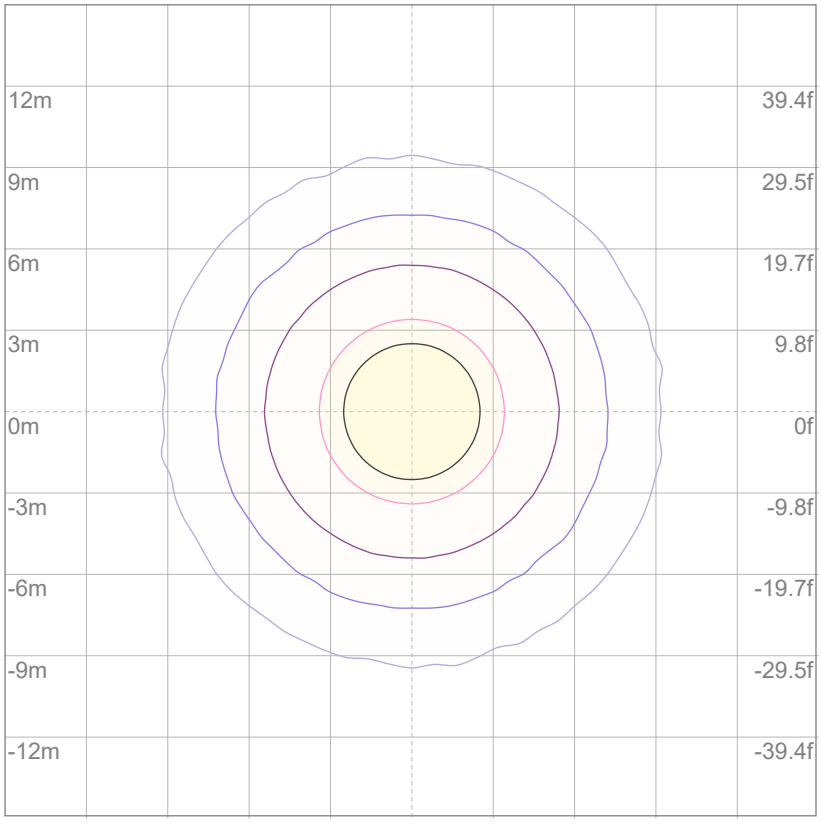
10%	210 cd
20%	421 cd
30%	631 cd
40%	842 cd
50%	1052 cd
60%	1263 cd
70%	1473 cd
80%	1684 cd
90%	1894 cd

Conditions:

Number of c-planes: 72

Candela at center: 2105 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.631 lx
5%	1.05 lx
10%	2.10 lx
30%	6.31 lx
50%	10.5 lx

Conditions:

Number of c-planes: 72

Lux at center: 21.0 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 763 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	101	101	101	99
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	96	95	94	92
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	103	96	91	88	101	95	90	87	92	88	85	90	87	84	87	85	83	81
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	83	80	78	76
5	94	86	80	76	92	85	80	76	83	79	75	81	78	74	80	76	74	72
6	90	82	76	72	88	81	76	72	79	75	71	78	74	71	76	73	70	69
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	73	70	67	66
8	83	74	69	65	82	74	68	65	73	68	65	72	67	64	71	67	64	63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	60	76	68	63	60	67	62	59	66	62	59	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°
170 lm	263 lm	146 lm	73.1 lm	43.9 lm	27.6 lm	17.2 lm	11.0 lm	6.45 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.21 lm	1.06 lm	0.997 lm	0.902 lm	0.383 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):	291.1	38.1%
Medium(30-60):	72.7	9.5%
High(60-80):	14.2	1.9%
Very high(80-90):	3.2	0.4%
Back light		
Low(0-30):	291.1	38.1%
Medium(30-60):	72.7	9.5%
High(60-80):	14.2	1.9%
Very high(80-90):	3.2	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

