NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

60 Lumen/Watt

Light quality:

CRI: 84.5

Color temperature:

2708 K

Output: 482 lm
Peak: 657 cd

Power: 8.0 W
PF: 1.0

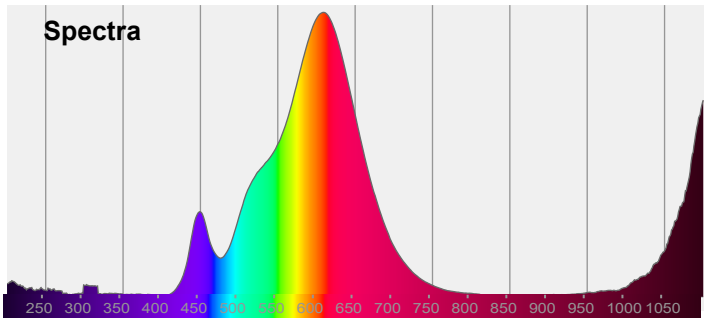
Tracking number: VT250725-009640

Product name:
GRZ Black 15x60 24 27

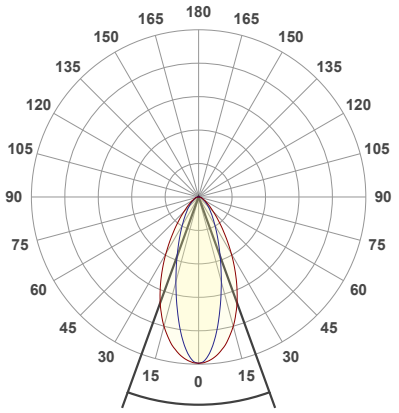
Item number:
1 foot Flex Grazer Black 2700K 15°x60°

Date and time:
7/25/25 1:07:08 PM

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



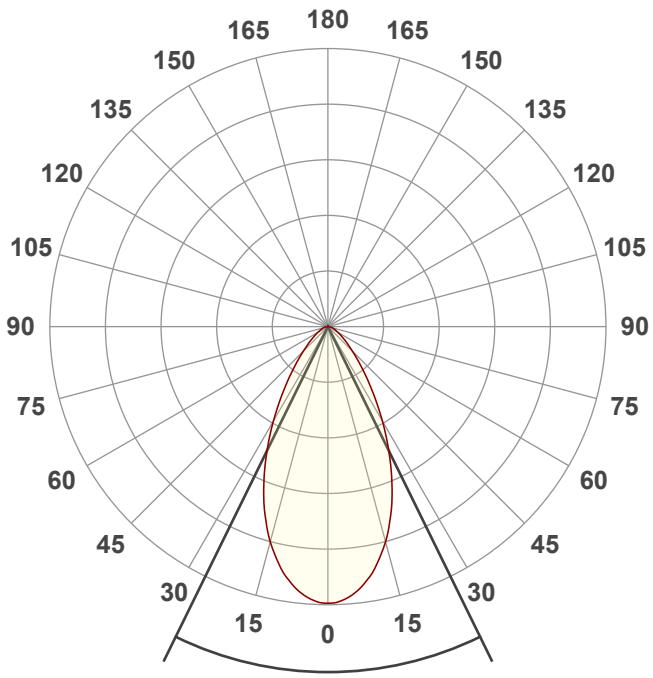
Average Beam Angle



39.9°

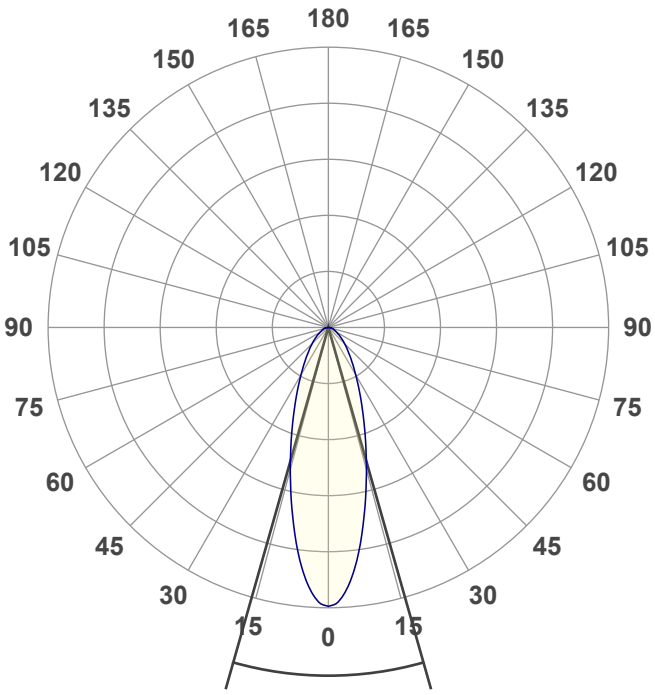
C Plane Resolution: 5°

Angular Distribution 0 ° Plane



52.3°

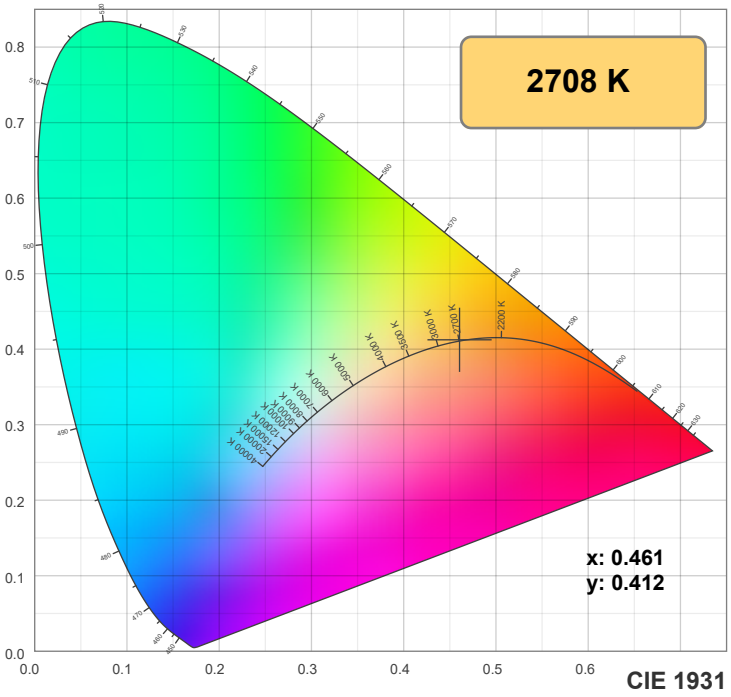
Angular Distribution 90 ° Plane

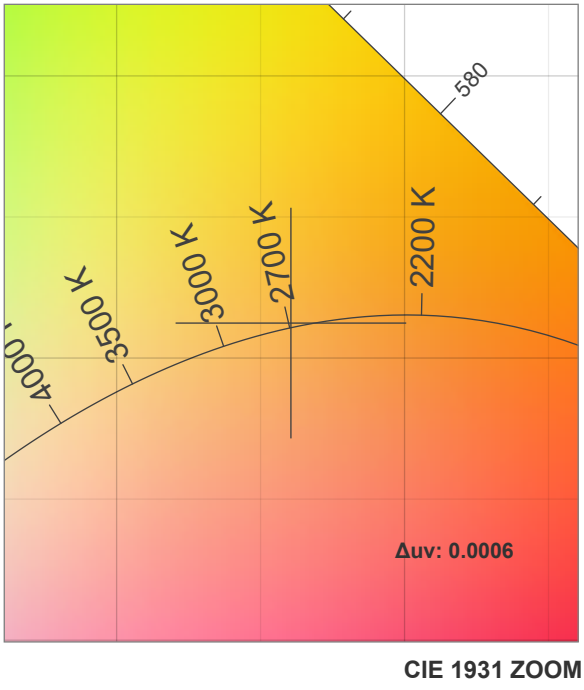


31.7°

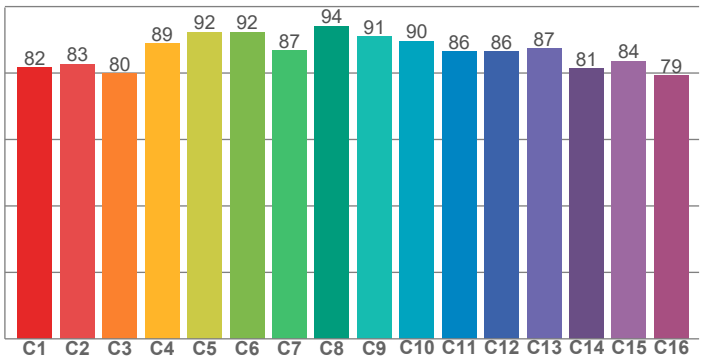
NOVA FLEX

Color details

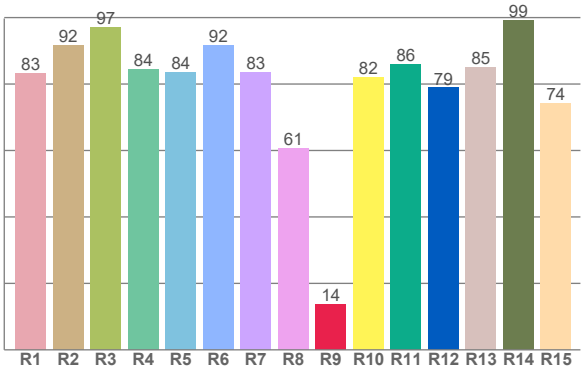




TM-30: 86.4



CRI: (R1-R8): 84.5



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
83.1	91.7	97.2	84.3	83.6	91.8	83.5	60.8	13.6	82.1	85.8	78.9	85.2	99.1	74.3

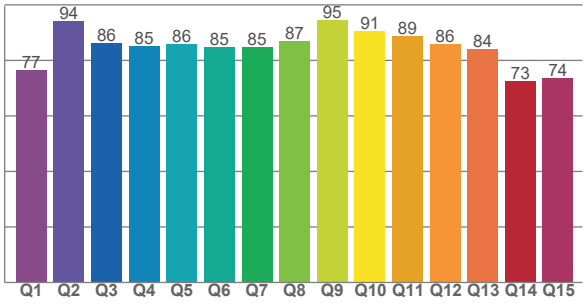
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.6	82.7	79.8	88.9	92.4	92.4	86.8	94.2	91.0	89.6	86.4	86.4	87.4	81.4	83.7	79.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.5	94.1	86.3	85.2	85.9	84.8	84.8	86.9	94.5	90.6	88.7	85.9	84.2	72.6	73.8

CQS: 83.6



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
2708 K	84.5	13.6	86.4	97.5	83.6	0.461	0.412	0.262	0.352	0.0006

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TM-30 details

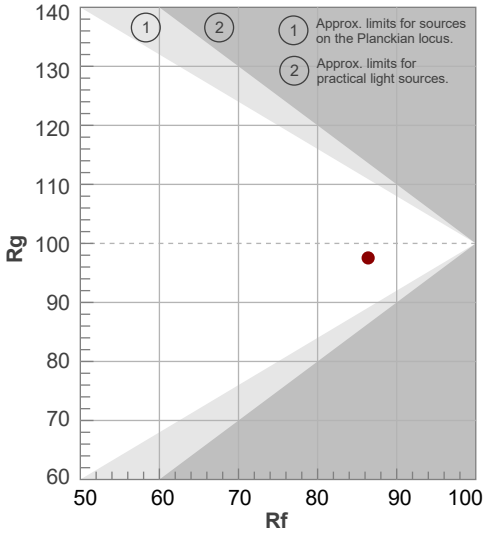
Rf 86.4

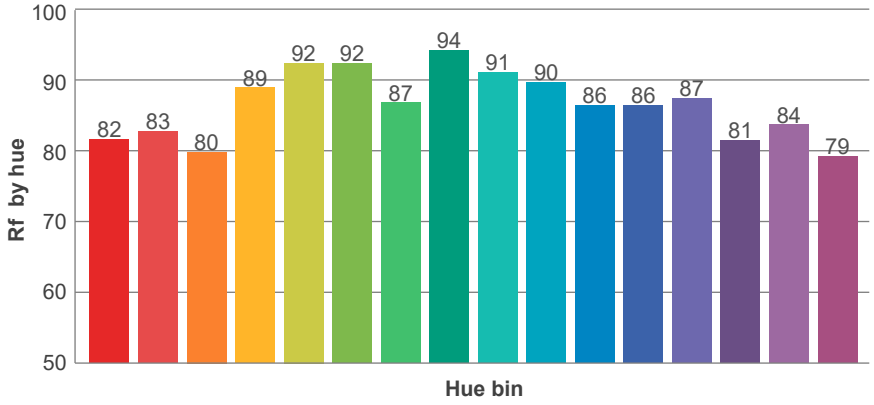
Fidelity index Rf

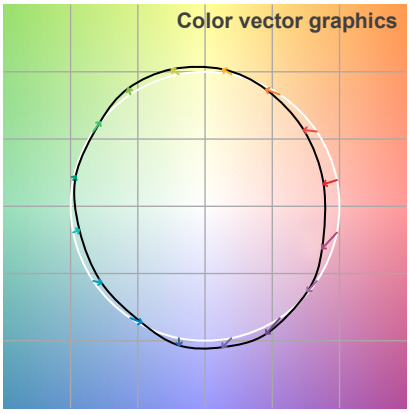
Rg 97.5

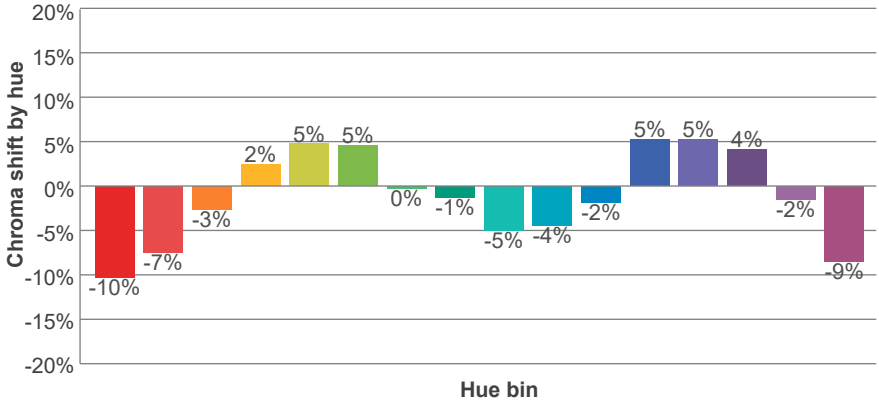
Gamut index Rg

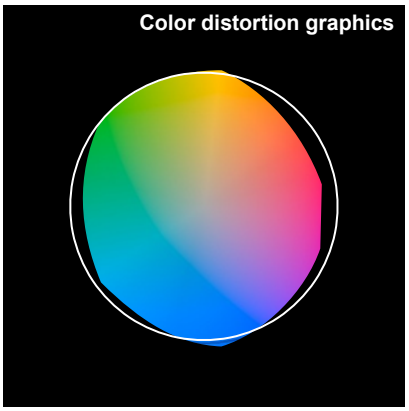
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	82	-10%	-1%
2	83	-7%	6%
3	80	-3%	10%
4	89	2%	7%
5	92	5%	4%
6	92	5%	-1%
7	87	0%	-9%
8	94	-1%	-3%
9	91	-5%	-1%
10	90	-4%	4%
11	86	-2%	9%
12	86	5%	1%
13	87	5%	-8%
14	81	4%	-15%
15	84	-2%	-10%
16	79	-9%	-14%

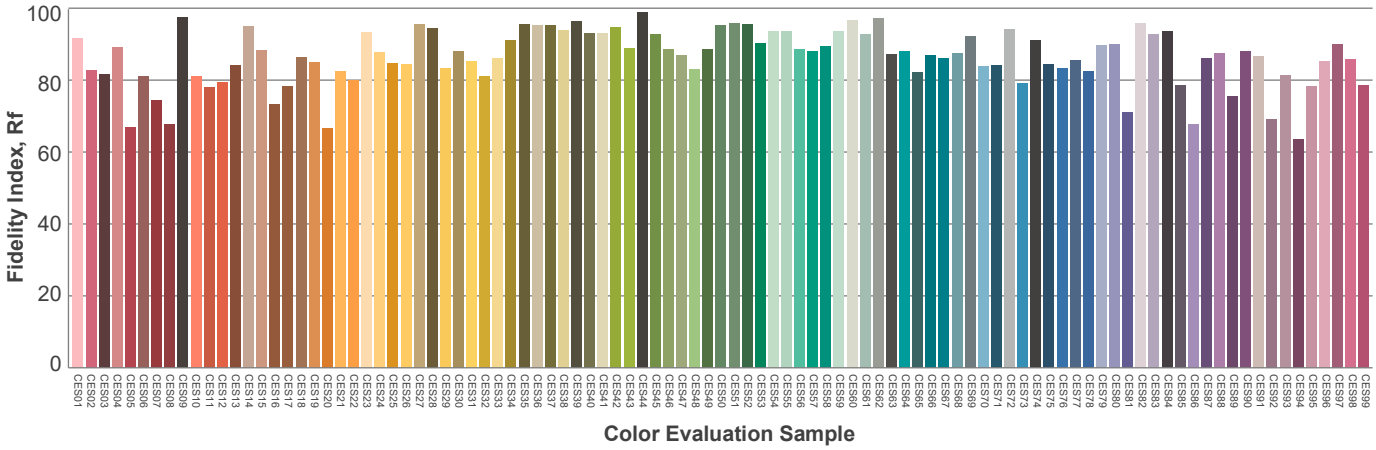






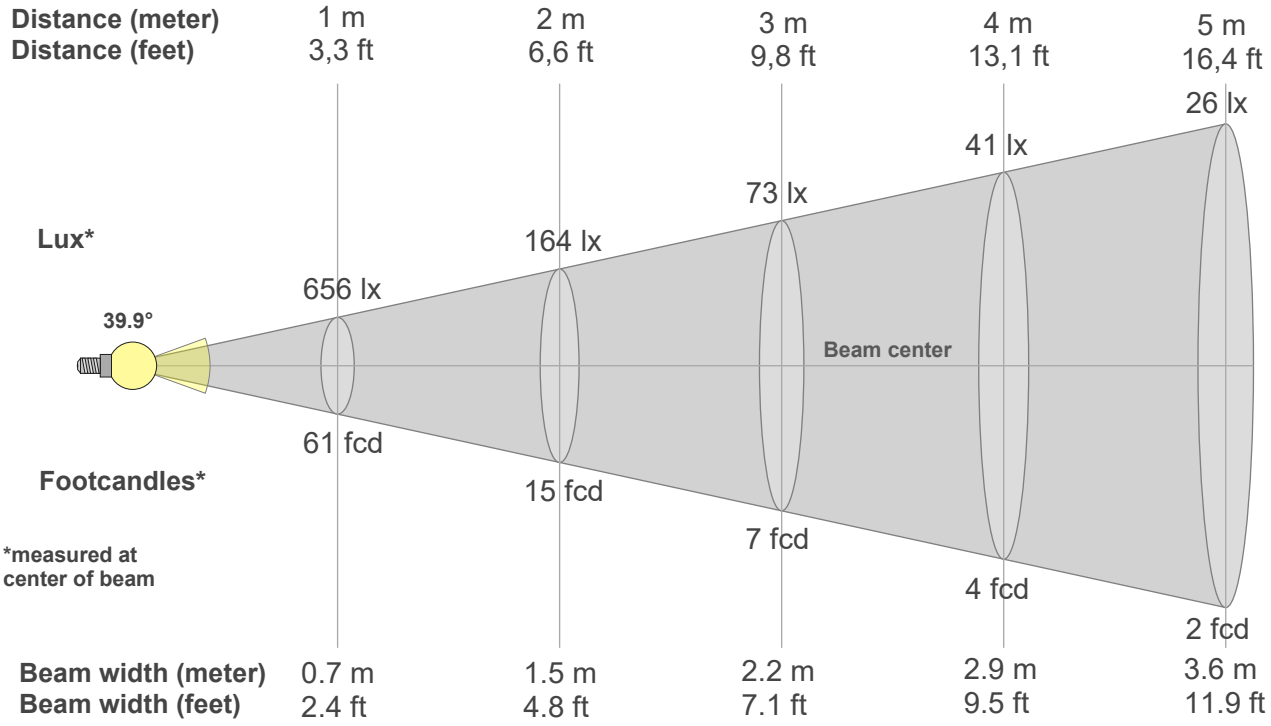






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Beam details



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
656lx	164lx	73lx	41lx	26lx	18lx	13lx	10lx	8lx	7lx	5lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx	2lx
60.9fcd	15.2fcd	6.8fcd	3.8fcd	2.4fcd	1.7fcd	1.2fcd	1fcd	0.8fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	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°
656	654	646	633	616	596	571	543	513	479	444	406	368	331	294	259	225	195	167	143
100%	100%	98%	97%	94%	91%	87%	83%	78%	73%	68%	62%	56%	50%	45%	39%	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°
656	647	618	576	526	472	420	370	325	284	249	217	190	167	147	129	114	101	90	80
100%	99%	94%	88%	80%	72%	64%	56%	50%	43%	38%	33%	29%	25%	22%	20%	17%	15%	14%	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°
656	654	646	633	616	596	571	543	513	479	444	406	368	331	294	259	225	195	167	143
100%	100%	98%	97%	94%	91%	87%	83%	78%	73%	68%	62%	56%	50%	45%	39%	34%	30%	25%	22%

Intensities in 270° c-plane

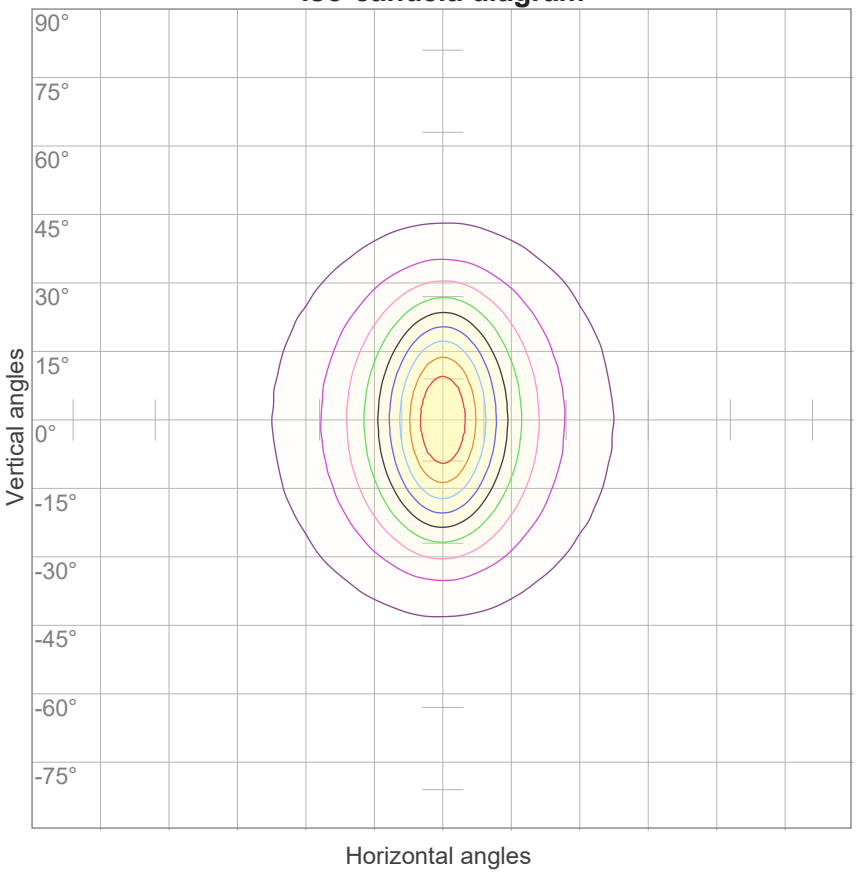
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
656	647	618	576	526	472	420	370	325	284	249	217	190	167	147	129	114	101	90	80
100%	99%	94%	88%	80%	72%	64%	56%	50%	43%	38%	33%	29%	25%	22%	20%	17%	15%	14%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.9°	88.8°	134.4°	92.6%	81.5%

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Iso Diagrams

iso-candela diagram



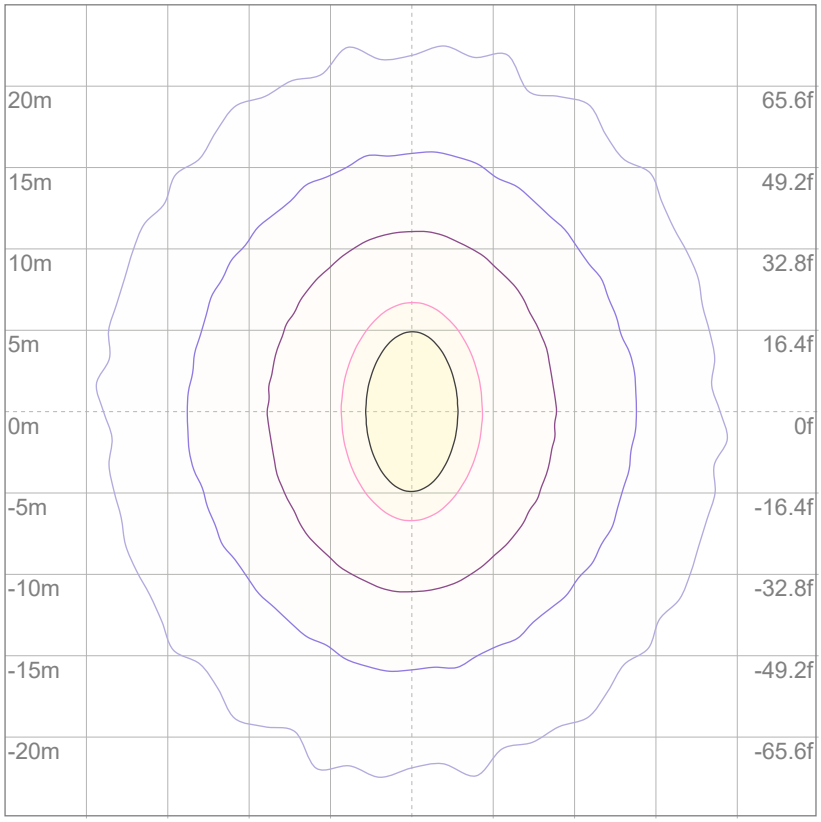
10%	66 cd
20%	131 cd
30%	197 cd
40%	262 cd
50%	328 cd
60%	394 cd
70%	459 cd
80%	525 cd
90%	590 cd

Conditions:

Number of c-planes: 72

Candela at center: 656 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.197 lx
5%	0.328 lx
10%	0.656 lx
30%	1.97 lx
50%	3.28 lx

Conditions:

Number of c-planes: 72

Lux at center: 6.56 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 482 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	109	106	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	98	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	79	68	62	57	77	68	61	57	66	61	56	65	60	56	64	59	56	54
8	75	64	58	53	73	64	57	53	62	57	53	61	56	52	60	56	52	51
9	71	61	54	50	70	60	54	50	59	53	49	58	53	49	57	52	49	48
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
56.2 lm	118 lm	112 lm	79.5 lm	50.7 lm	31.0 lm	18.7 lm	10.8 lm	4.13 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.513 lm	0.494 lm	0.463 lm	0.419 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):	143.2	29.7%
Medium(30-60):	81	16.8%
High(60-80):	14.8	3.1%
Very high(80-90):	2.2	0.4%
Back light		
Low(0-30):	143.2	29.7%
Medium(30-60):	81	16.8%
High(60-80):	14.8	3.1%
Very high(80-90):	2.2	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

