NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

102 Lumen/Watt

Light quality:

CRI: 70.0

Color temperature:

5872 K

Output: 814 lm
Peak: 2527 cd

Power: 8.0 W
PF: 1.0

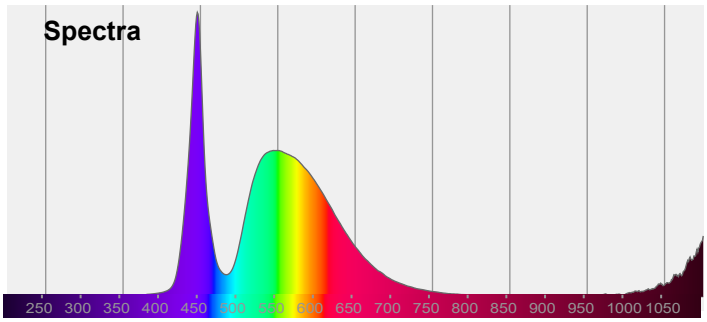
Tracking number: VT250728-005292

Product name:
GRZ Blk15x25 24 57

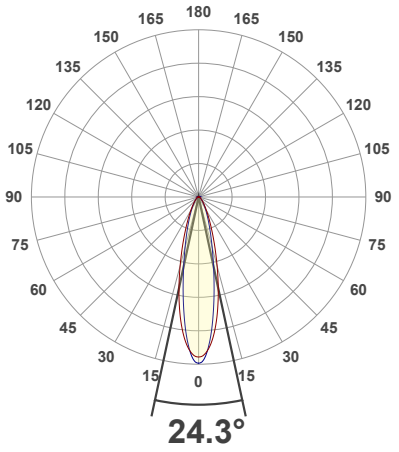
Item number:
1 foot Flex Grazer Black 5700K 15°x25° Optic

Date and time:
7/28/25 2:17:00 PM

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

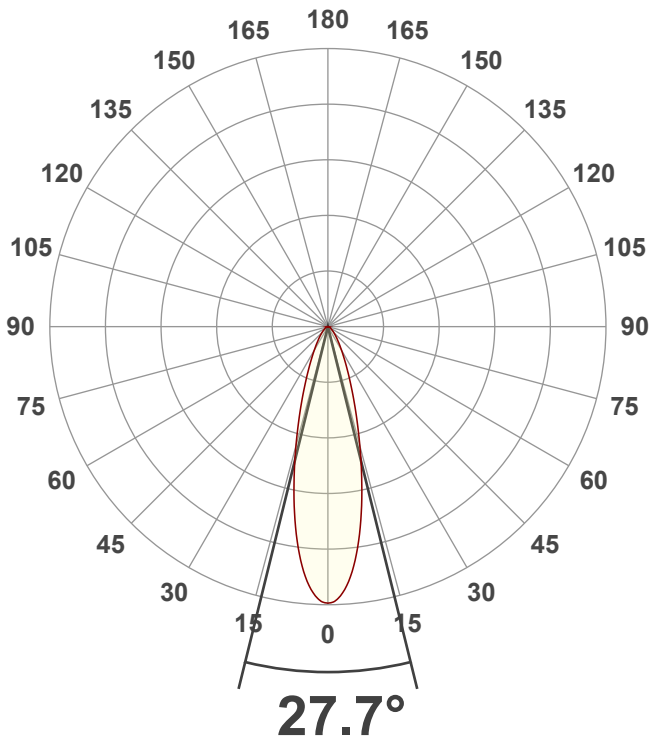


Average Beam Angle

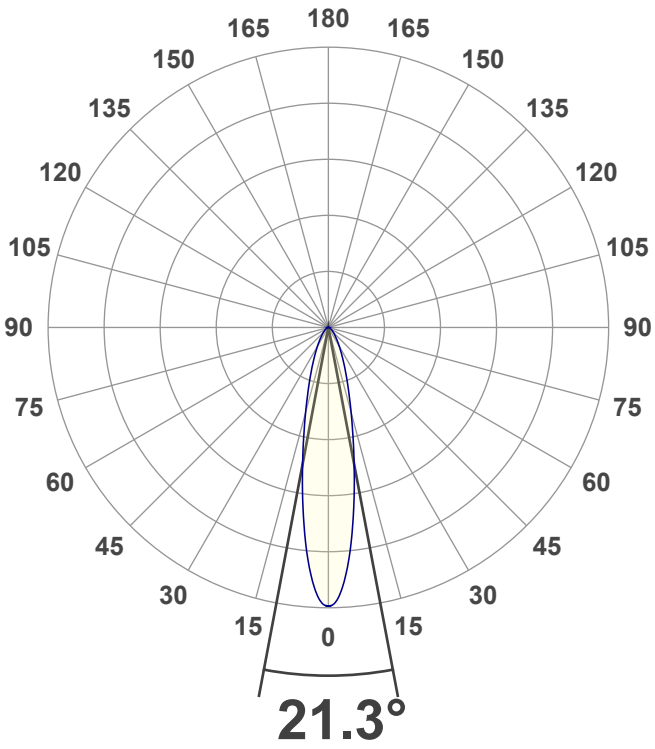


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

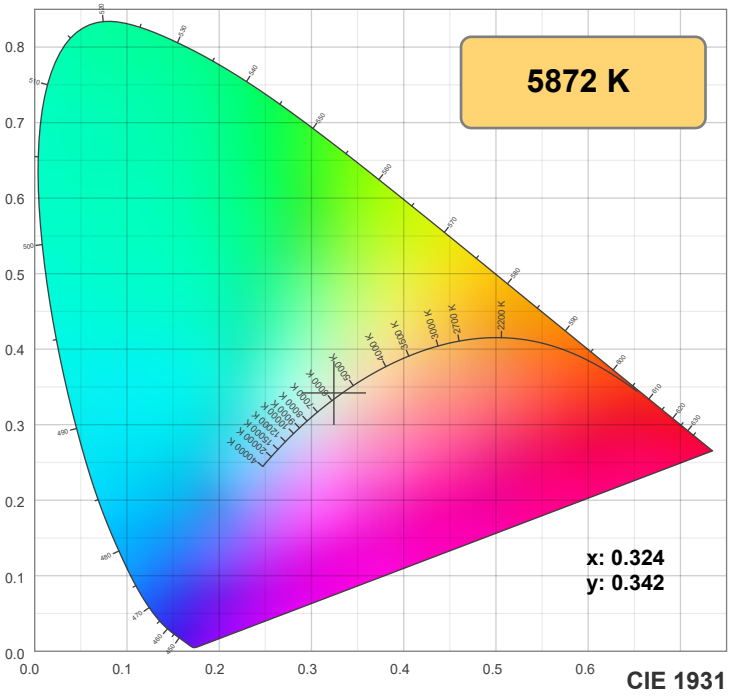


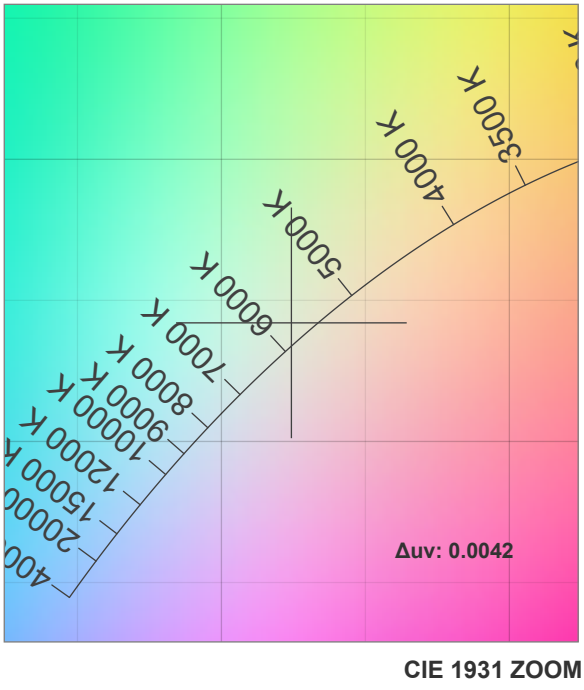
Angular Distribution 90 ° Plane



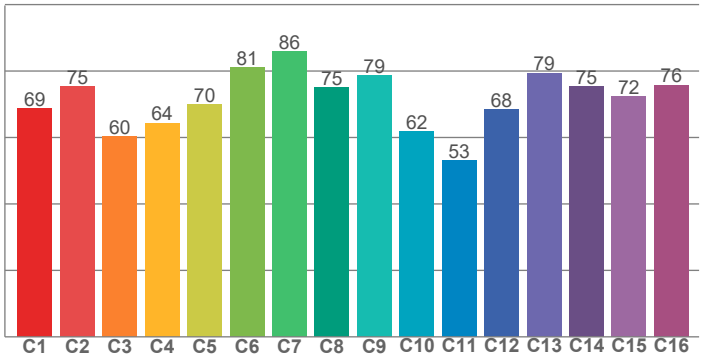
NOVA FLEX

Color details

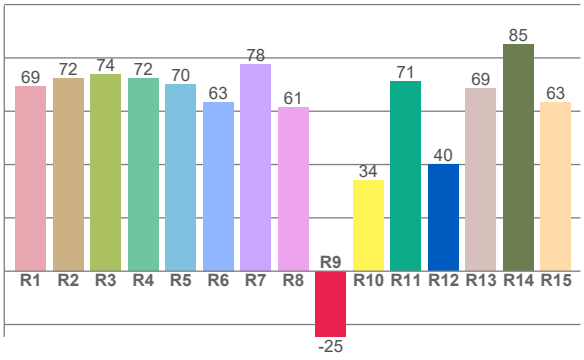




TM-30: 70.8



CRI: (R1-R8): 70.0



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
69.3	72.4	73.7	72.3	70.1	63.4	77.7	61.3	-24.6	34.0	71.2	40.1	68.6	85.1	63.2

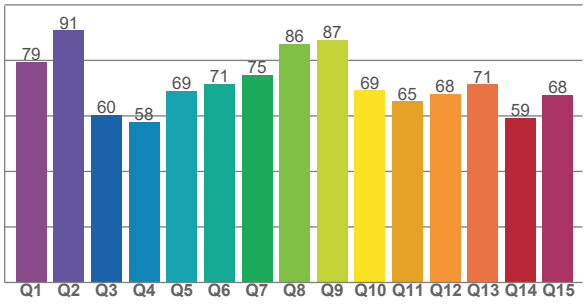
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
68.8	75.4	60.4	64.4	69.9	81.1	85.8	75.2	78.6	61.8	53.1	68.3	79.4	75.4	72.5	75.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79.3	90.8	60.3	57.8	69.0	71.4	74.7	85.9	87.3	69.2	65.3	68.0	71.4	59.2	67.6

CQS: 70.1



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
5872 K	70.0	-24.6	70.8	96.0	70.1	0.324	0.342	0.201	0.318	0.0042

NOVA FLEX

TM-30 details

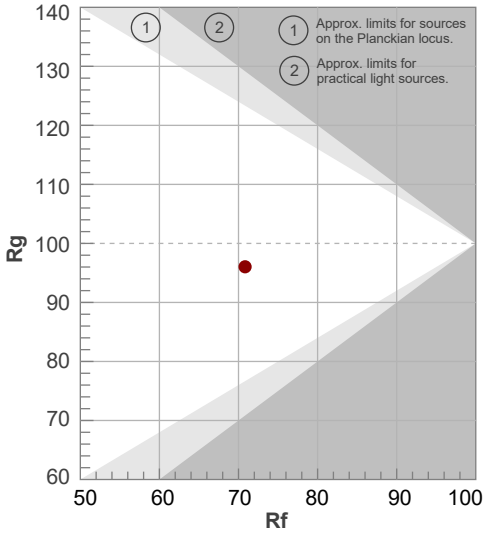
Rf 70.8

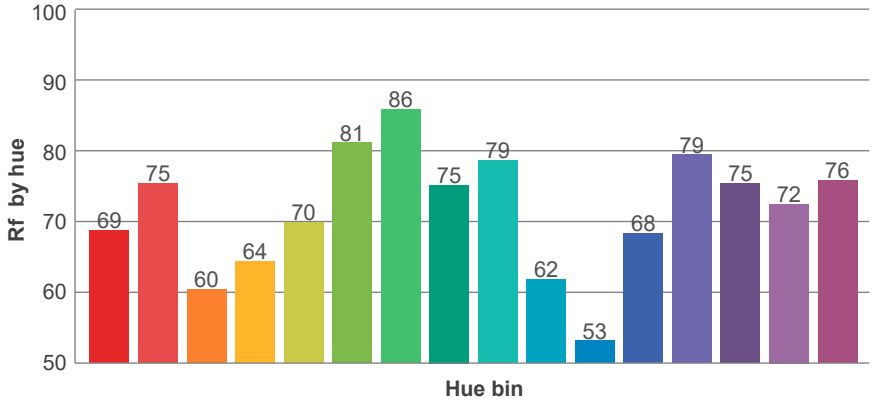
Fidelity index Rf

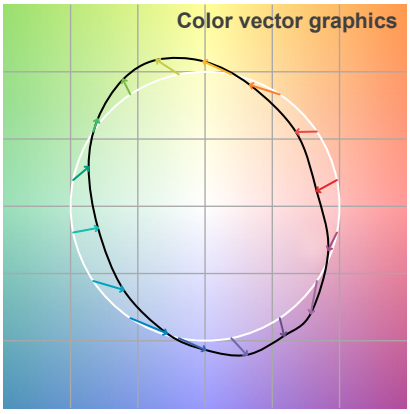
Rg 96.0

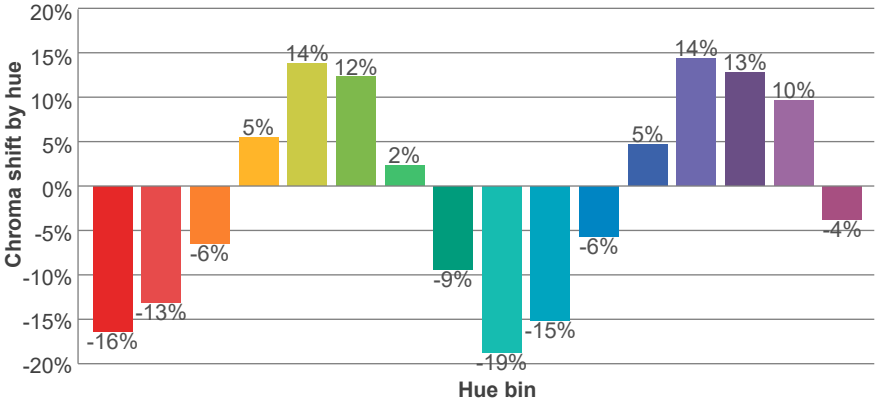
Gamut index Rg

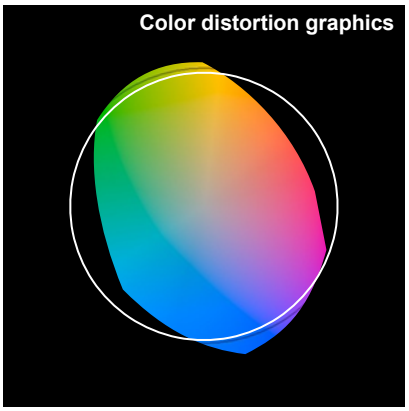
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	69	-16%	-5%
2	75	-13%	8%
3	60	-6%	22%
4	64	5%	22%
5	70	14%	14%
6	81	12%	-2%
7	86	2%	-9%
8	75	-9%	-12%
9	79	-19%	0%
10	62	-15%	18%
11	53	-6%	29%
12	68	5%	21%
13	79	14%	9%
14	75	13%	-5%
15	72	10%	-22%
16	76	-4%	-14%

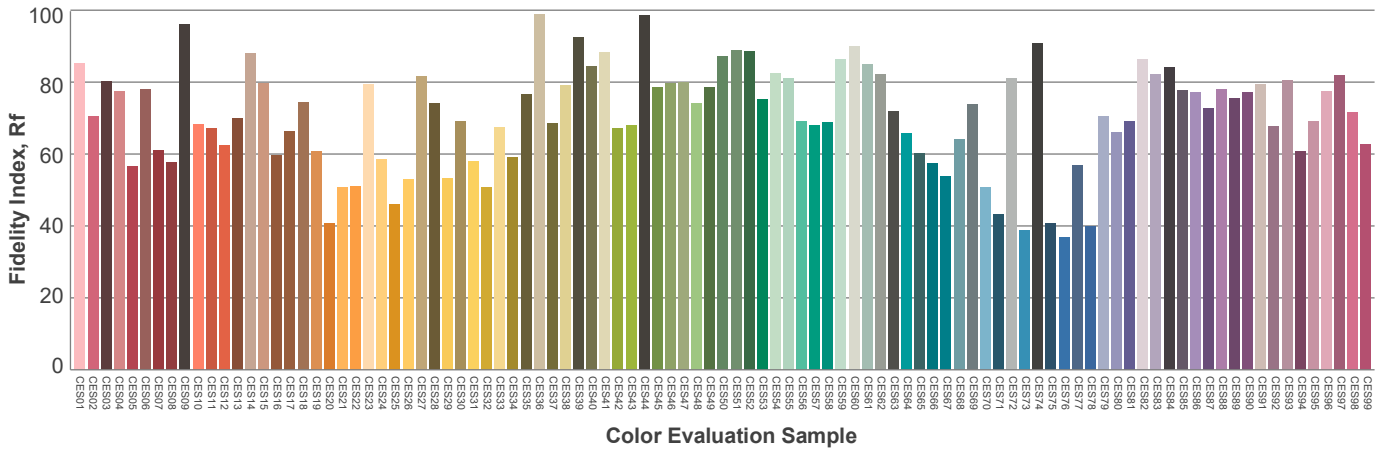






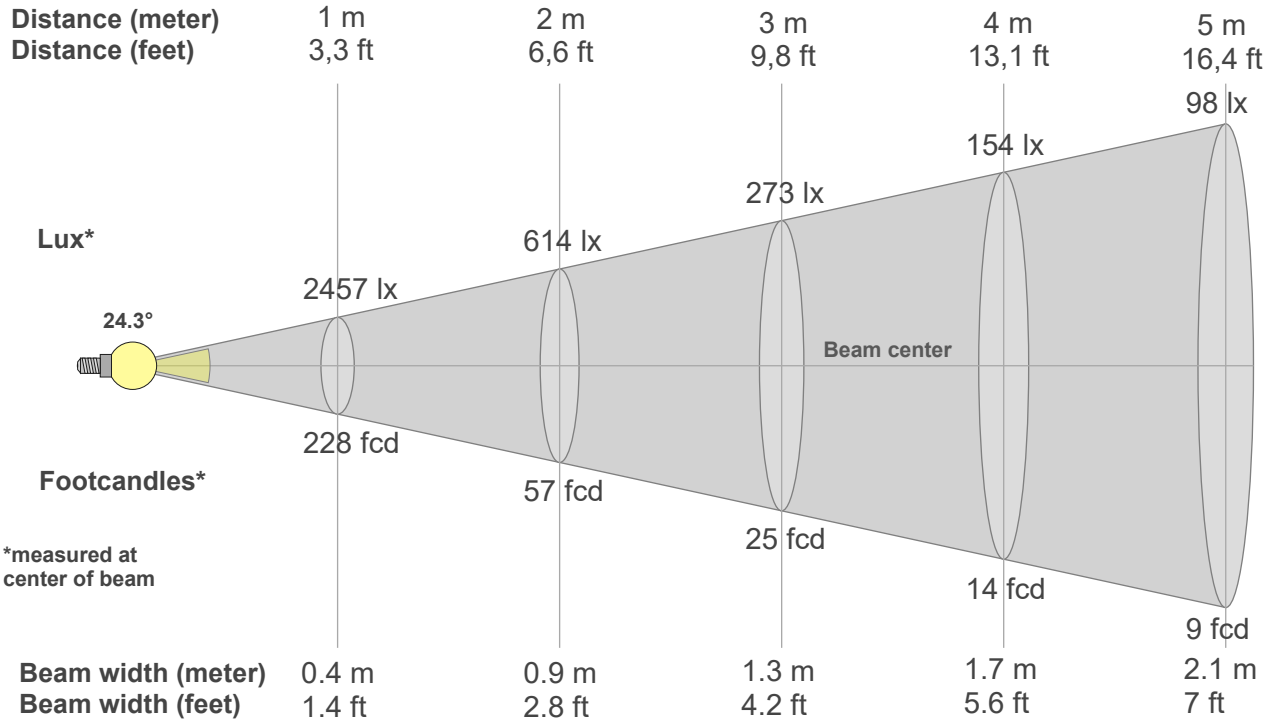






NOVA FLEX

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
2457lx	614lx	273lx	154lx	98lx	68lx	50lx	38lx	30lx	25lx	20lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx
228.3fc	57.1fcd	25.4fcd	14.3fcd	9.1fcd	6.3fcd	4.7fcd	3.6fcd	2.8fcd	2.3fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd

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°
2457	2399	2296	2133	1923	1685	1436	1199	982	800	647	523	426	350	288	240	202	170	144	123
100%	98%	93%	87%	78%	69%	58%	49%	40%	33%	26%	21%	17%	14%	12%	10%	8%	7%	6%	5%

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°
2457	2461	2253	1969	1653	1355	1098	887	719	588	484	402	333	279	234	200	171	144	123	106
100%	100%	92%	80%	67%	55%	45%	36%	29%	24%	20%	16%	14%	11%	10%	8%	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°
2457	2399	2296	2133	1923	1685	1436	1199	982	800	647	523	426	350	288	240	202	170	144	123
100%	98%	93%	87%	78%	69%	58%	49%	40%	33%	26%	21%	17%	14%	12%	10%	8%	7%	6%	5%

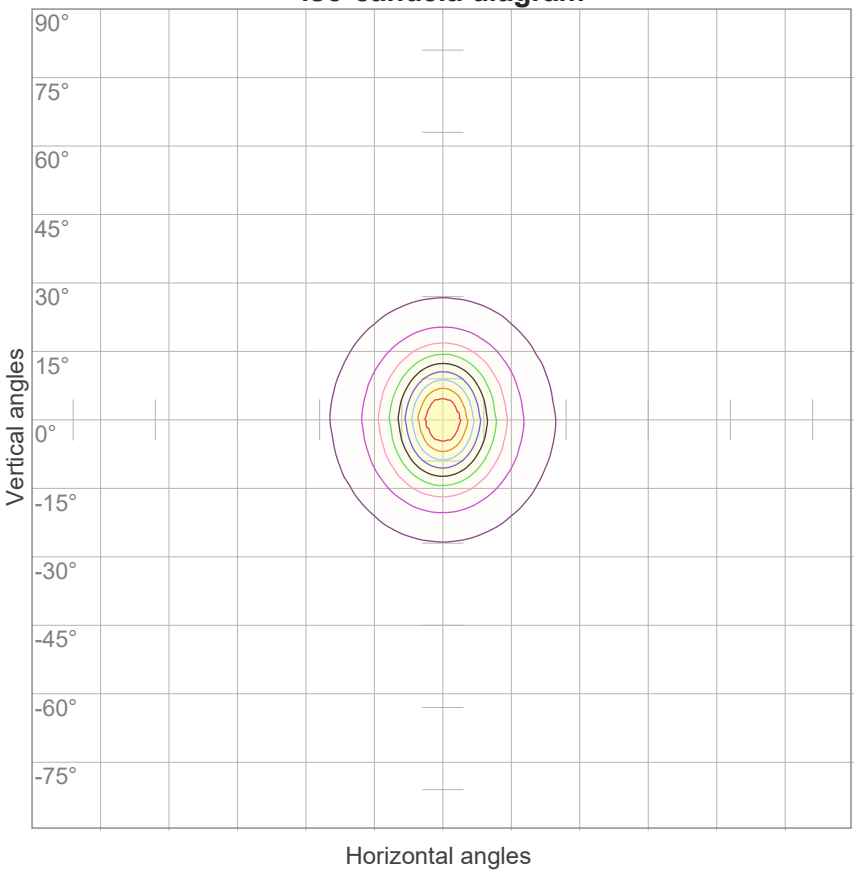
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2457	2461	2253	1969	1653	1355	1098	887	719	588	484	402	333	279	234	200	171	144	123	106
100%	100%	92%	80%	67%	55%	45%	36%	29%	24%	20%	16%	14%	11%	10%	8%	7%	6%	5%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.3°	56.9°	93.4°	95.2%	88.3%

Iso Diagrams

iso-candela diagram



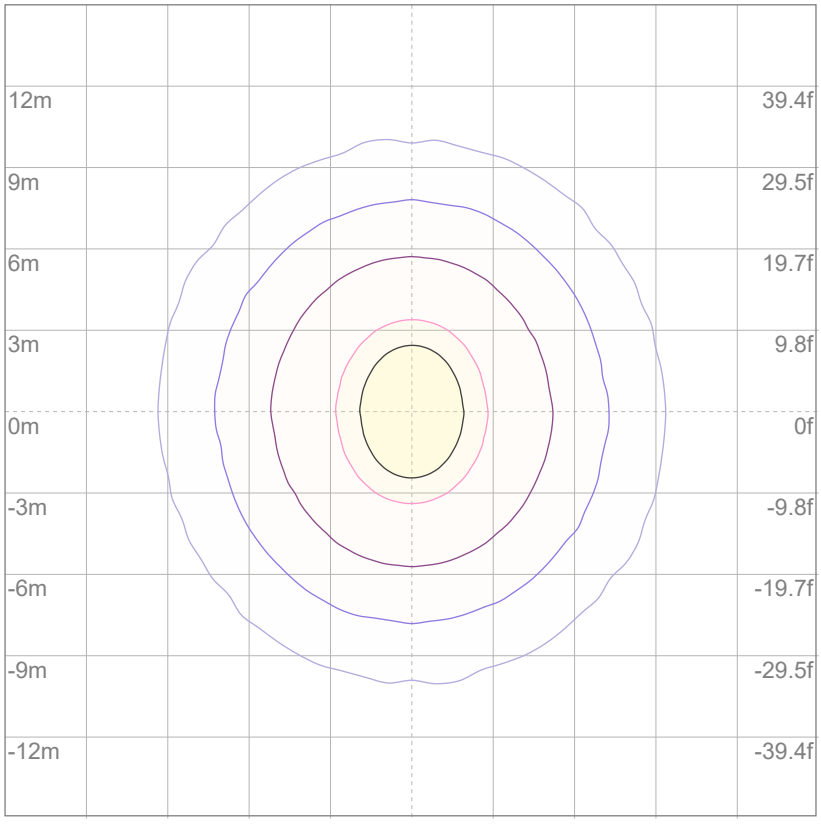
10%	246 cd
20%	491 cd
30%	737 cd
40%	983 cd
50%	1228 cd
60%	1474 cd
70%	1720 cd
80%	1966 cd
90%	2211 cd

Conditions:

Number of c-planes: 72

Candela at center: 2457 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.737 lx
5%	1.23 lx
10%	2.46 lx
30%	7.37 lx
50%	12.3 lx

Conditions:

Number of c-planes: 72

Lux at center: 24.6 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 814 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	110	108	105	111	108	106	104	104	102	100	100	99	97	97	95	94	93
2	108	103	98	95	105	101	97	94	98	94	92	94	92	90	92	90	88	86
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	84	82	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	80	76	92	84	79	75	83	78	74	81	77	74	79	76	73	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	86	77	71	67	84	76	71	67	75	70	67	74	70	66	73	69	66	65
8	82	73	68	64	81	73	68	64	72	67	64	71	66	63	70	66	63	62
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59
10	76	67	62	59	75	67	62	58	66	61	58	65	61	58	65	61	58	57

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
183 lm	256 lm	158 lm	90.9 lm	54.2 lm	32.2 lm	18.5 lm	11.2 lm	6.21 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.912 lm	0.699 lm	0.656 lm	0.593 lm	0.250 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):	299.9	36.8%
Medium(30-60):	89	10.9%
High(60-80):	14.9	1.8%
Very high(80-90):	3.1	0.4%
Back light		
Low(0-30):	299.9	36.8%
Medium(30-60):	89	10.9%
High(60-80):	14.9	1.8%
Very high(80-90):	3.1	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

