NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

79 Lumen/Watt

Light quality:

CRI: 70.4

Color temperature:

6004 K

Output: 636 lm
Peak: 966 cd

Power: 8.0 W
PF: 1.0

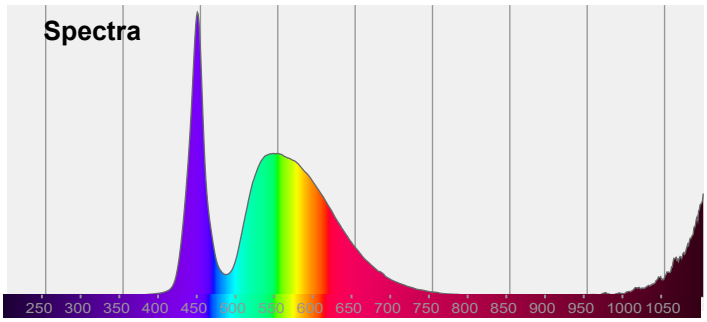
Tracking number: VT250729-002486

Product name:
GRZ Blk 15x60 24 57

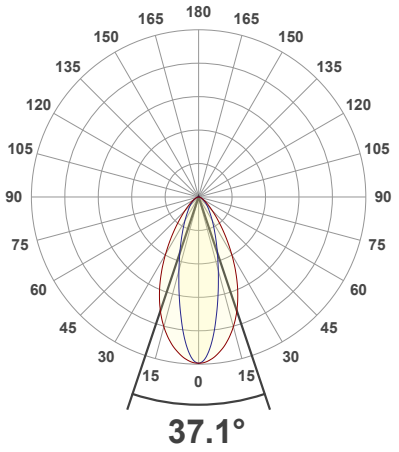
Item number:
1 foot Flex Grazer Black 5700K 15°x60° Optic

Date and time:
7/29/25 11:06:24 AM

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

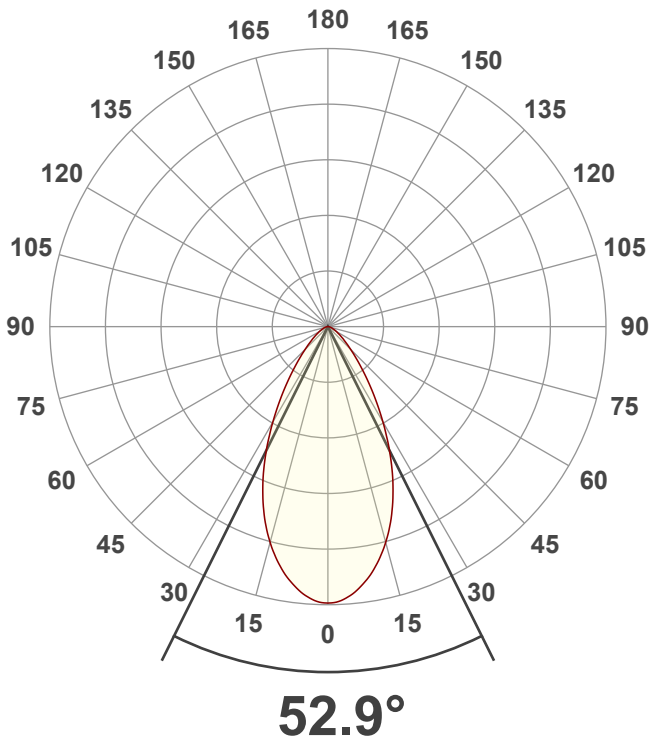


Average Beam Angle

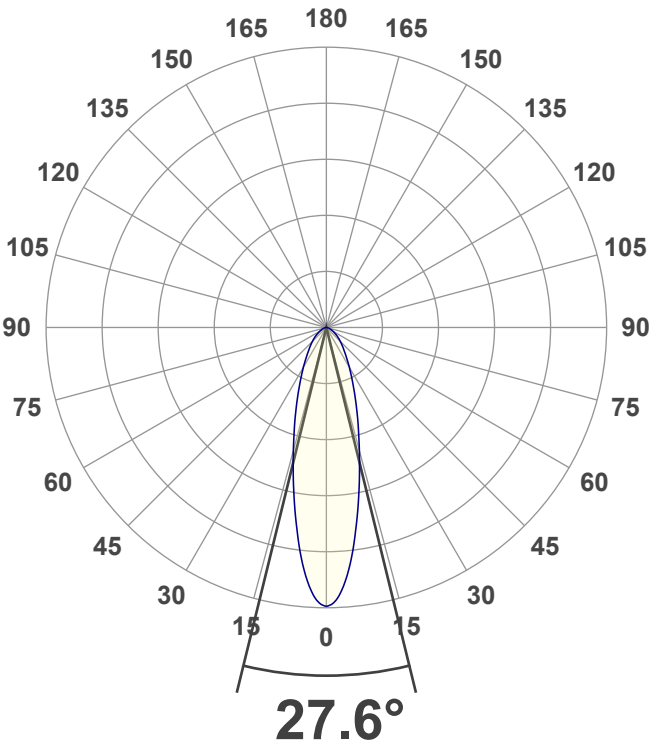


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

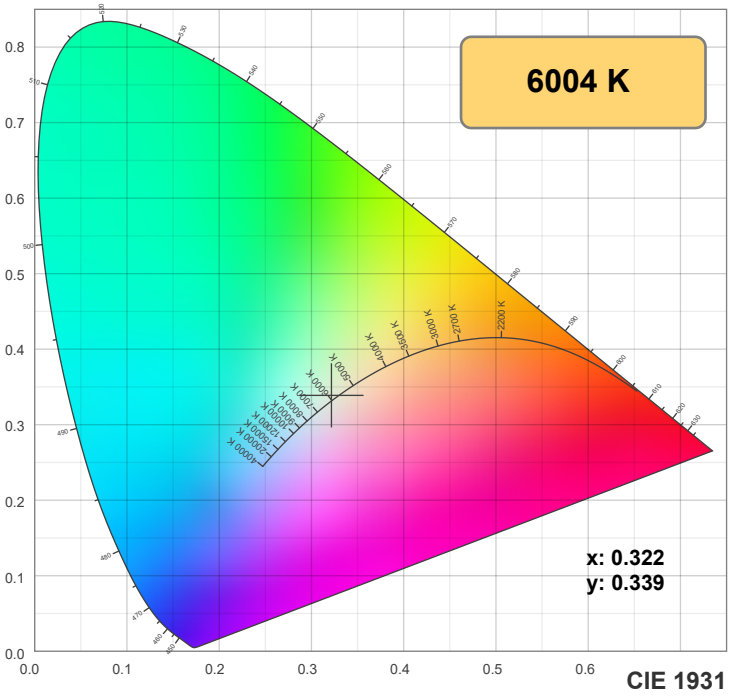


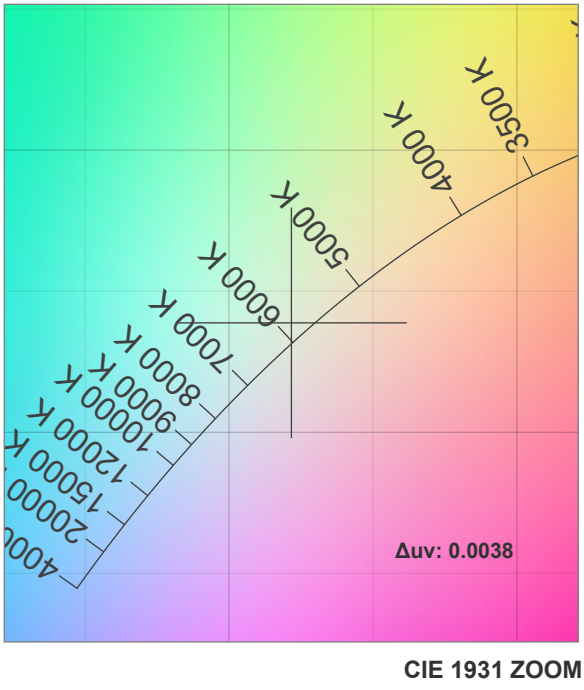
Angular Distribution 90 ° Plane



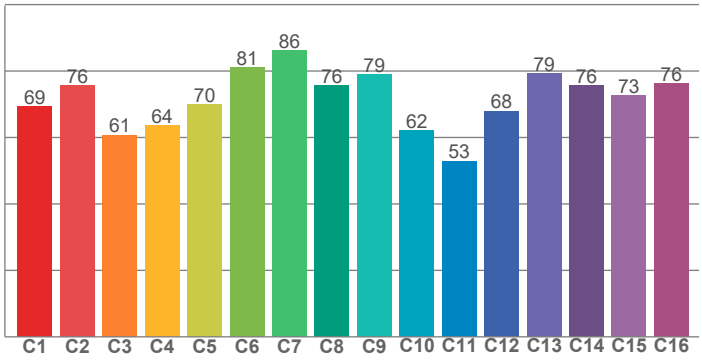
NOVA FLEX

Color details

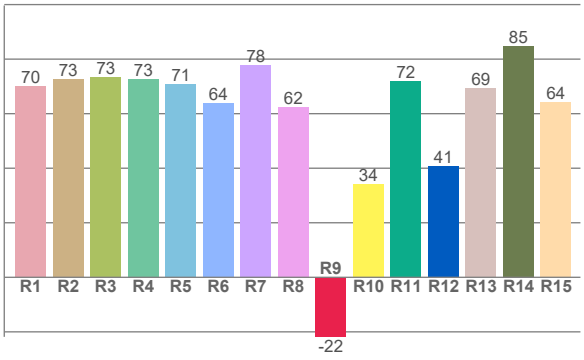




TM-30: 71.0



CRI: (R1-R8): 70.4



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
69.9	72.6	73.3	72.8	70.8	63.7	77.8	62.4	-21.8	34.3	71.9	40.6	69.2	84.9	64.1

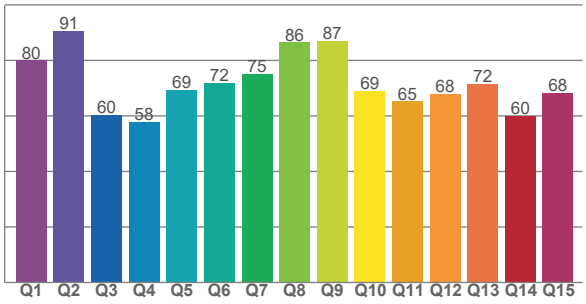
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
69.4	75.7	60.8	63.8	69.8	81.2	86.1	75.6	78.9	62.0	52.9	68.0	79.3	75.5	72.8	76.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80.0	90.6	60.4	57.9	69.4	72.0	75.2	86.4	87.0	69.0	65.2	68.0	71.7	60.0	68.4

CQS: 70.4



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
6004 K	70.4	-21.8	71.0	96.2	70.4	0.322	0.339	0.200	0.317	0.0038

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TM-30 details

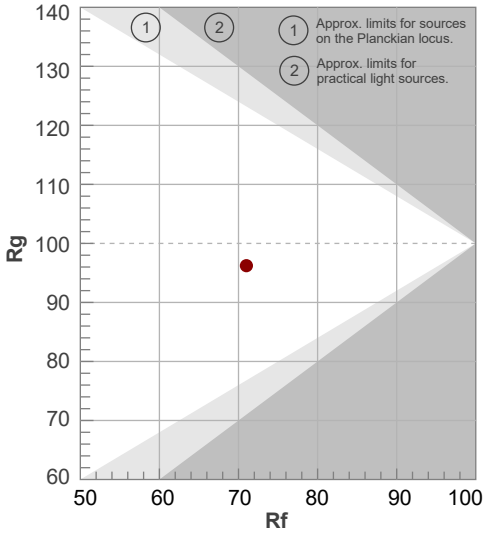
Rf 71.0

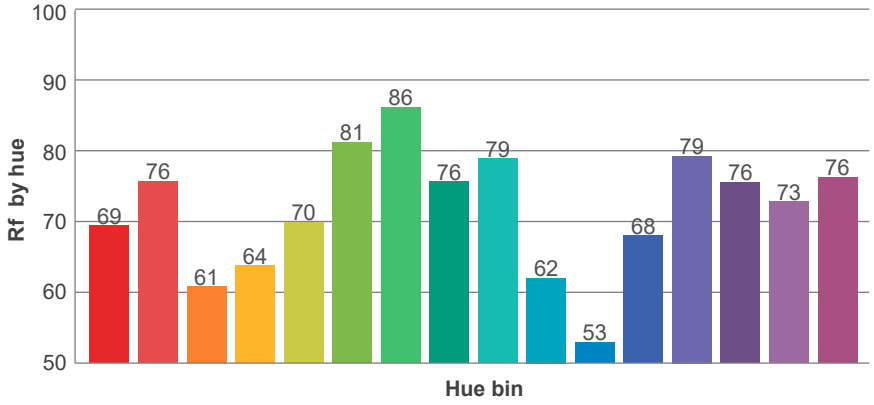
Fidelity index Rf

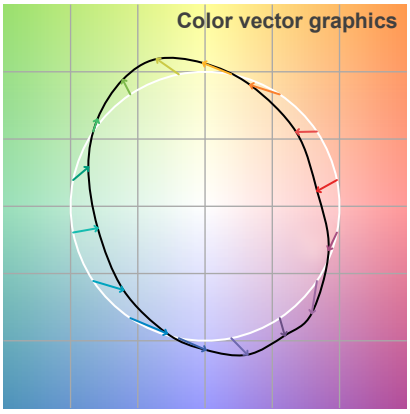
Rg 96.2

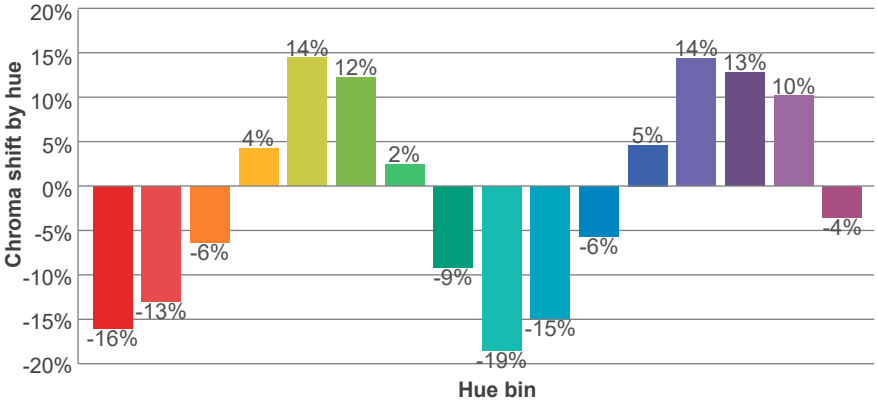
Gamut index Rg

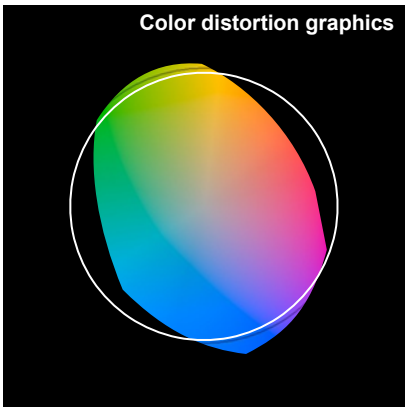
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	69	-16%	-5%
2	76	-13%	8%
3	61	-6%	22%
4	64	4%	22%
5	70	14%	14%
6	81	12%	-1%
7	86	2%	-9%
8	76	-9%	-12%
9	79	-19%	0%
10	62	-15%	18%
11	53	-6%	29%
12	68	5%	21%
13	79	14%	9%
14	76	13%	-4%
15	73	10%	-22%
16	76	-4%	-14%

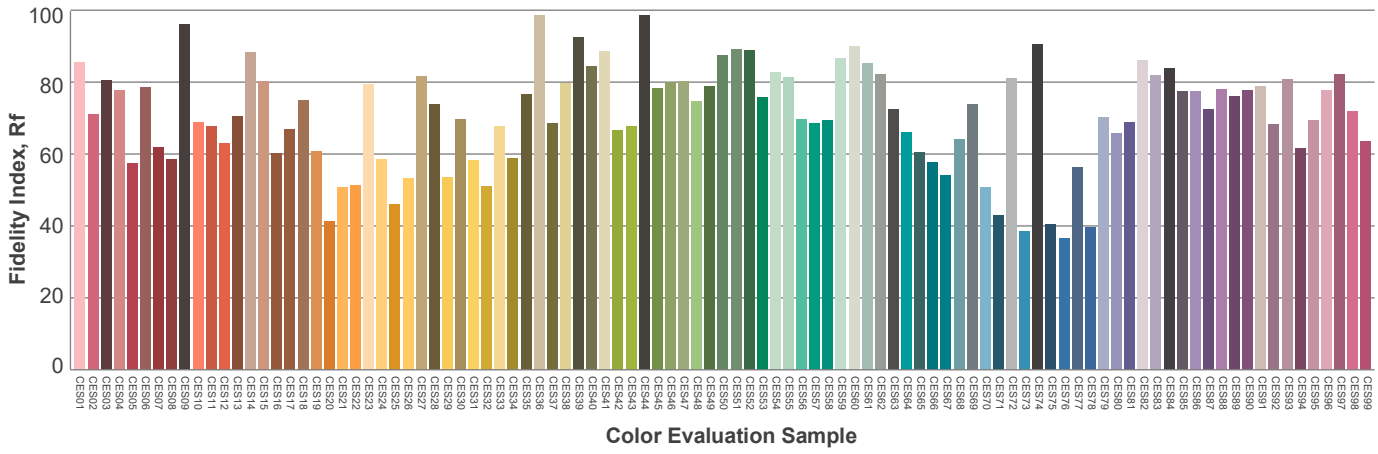






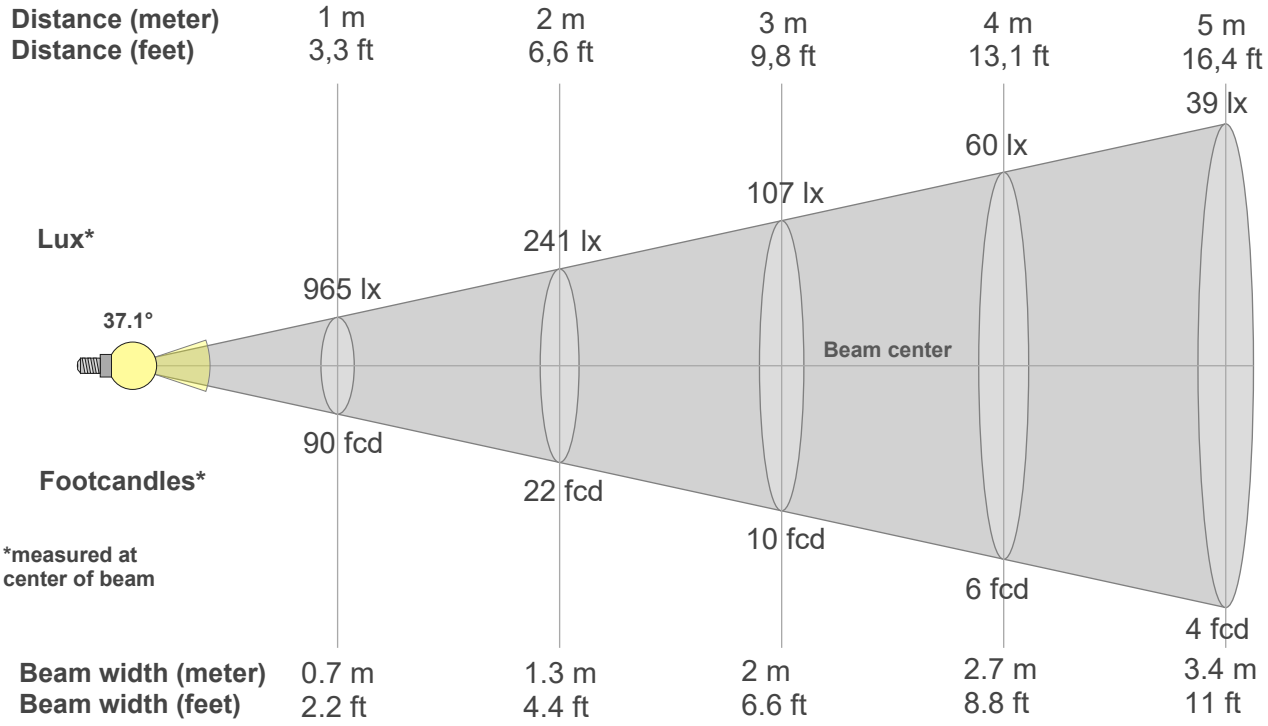






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Beam details



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
965lx	241lx	107lx	60lx	39lx	27lx	20lx	15lx	12lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
89.7fcd	22.4fcd	10fcd	5.6fcd	3.6fcd	2.5fcd	1.8fcd	1.4fcd	1.1fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	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°
965	962	949	930	905	876	841	802	759	712	661	608	552	495	439	385	333	286	243	205
100%	100%	98%	96%	94%	91%	87%	83%	79%	74%	68%	63%	57%	51%	45%	40%	35%	30%	25%	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°
965	946	891	813	721	632	550	475	411	357	310	269	235	206	180	160	140	124	110	99
100%	98%	92%	84%	75%	65%	57%	49%	43%	37%	32%	28%	24%	21%	19%	17%	15%	13%	11%	10%

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°
965	962	949	930	905	876	841	802	759	712	661	608	552	495	439	385	333	286	243	205
100%	100%	98%	96%	94%	91%	87%	83%	79%	74%	68%	63%	57%	51%	45%	40%	35%	30%	25%	21%

Intensities in 270° c-plane

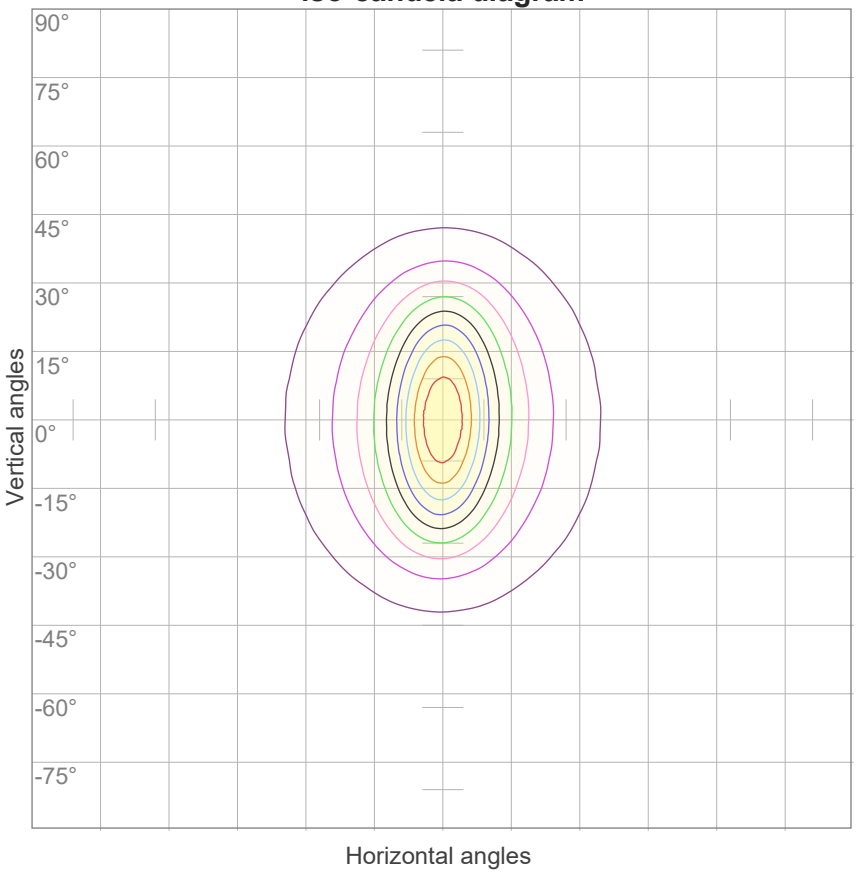
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
965	946	891	813	721	632	550	475	411	357	310	269	235	206	180	160	140	124	110	99
100%	98%	92%	84%	75%	65%	57%	49%	43%	37%	32%	28%	24%	21%	19%	17%	15%	13%	11%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37.1°	84.4°	125.8°	94.6%	84.0%

NOVA FLEX

Iso Diagrams

iso-candela diagram



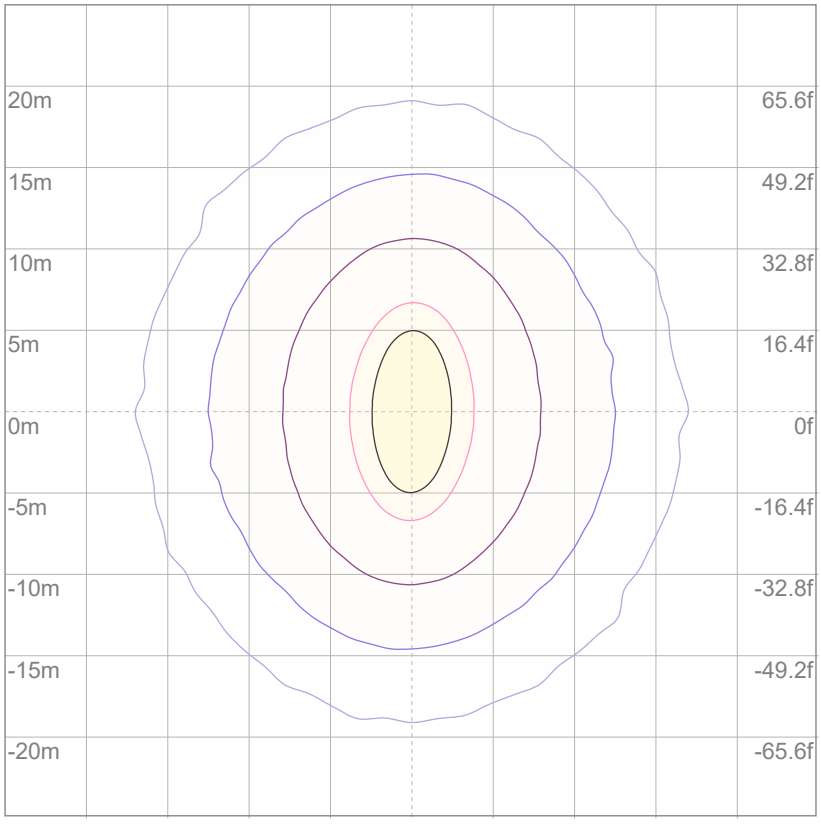
10%	97 cd
20%	193 cd
30%	290 cd
40%	386 cd
50%	483 cd
60%	579 cd
70%	676 cd
80%	772 cd
90%	869 cd

Conditions:

Number of c-planes: 72

Candela at center: 965 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.290 lx
5%	0.483 lx
10%	0.965 lx
30%	2.90 lx
50%	4.83 lx

Conditions:

Number of c-planes: 72

Lux at center: 9.65 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 636 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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56
8	76	66	59	55	75	65	59	55	64	58	55	63	58	54	62	57	54	53
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
80.5 lm	161 lm	150 lm	105 lm	65.8 lm	38.9 lm	20.8 lm	9.81 lm	3.24 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.092 lm	0.076 lm	0.071 lm	0.064 lm	0.026 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):	195.8	30.8%
Medium(30-60):	105	16.5%
High(60-80):	15.3	2.4%
Very high(80-90):	1.6	0.3%
Back light		
Low(0-30):	195.8	30.8%
Medium(30-60):	105	16.5%
High(60-80):	15.3	2.4%
Very high(80-90):	1.6	0.3%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

