NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

76 Lumen/Watt

Light quality:

CRI: 84.4

Color temperature:

2972 K

Output: 622 lm
Peak: 1422 cd

Power: 8.1 W
PF: 1.0

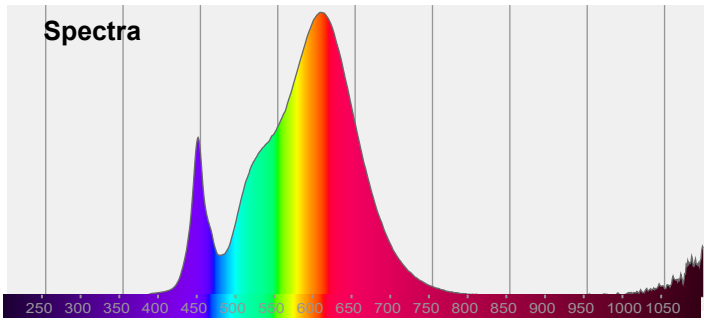
Tracking number: VT250717-004611

Product name:
GRZ BLK 15x40 24 30

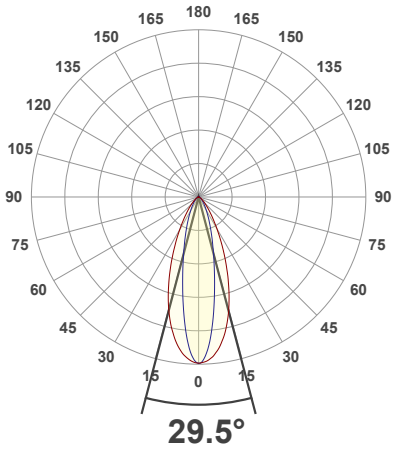
Item number:
1 foot Flex Grazer Black 3000K 15°x40°

Date and time:
7/17/25 11:29:21 AM

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

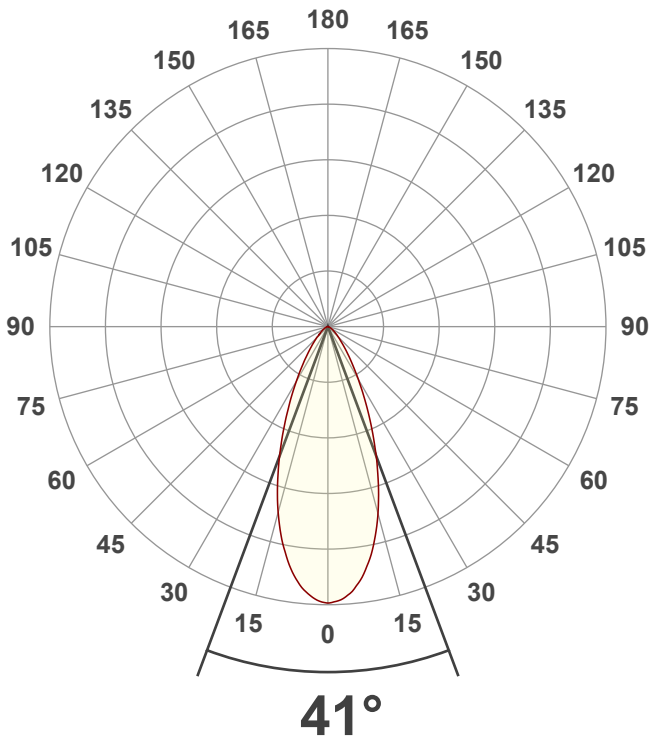


Average Beam Angle

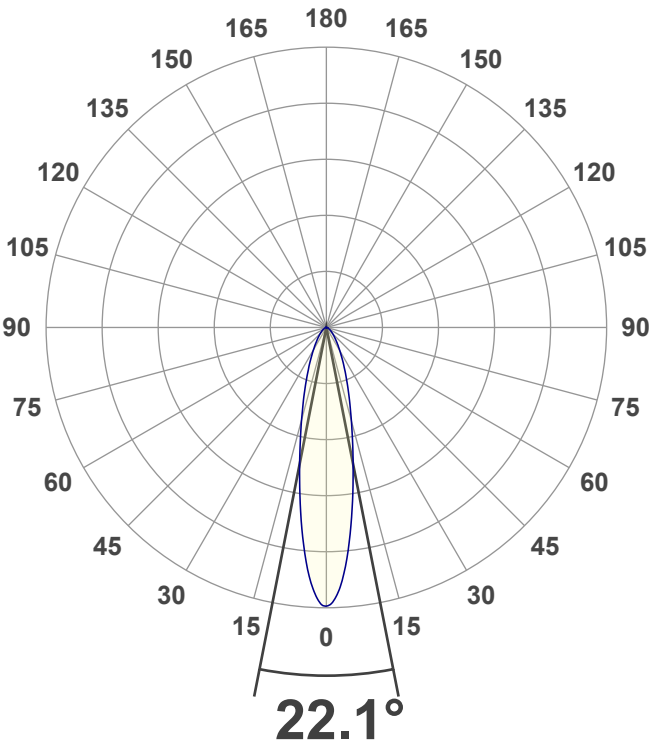


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

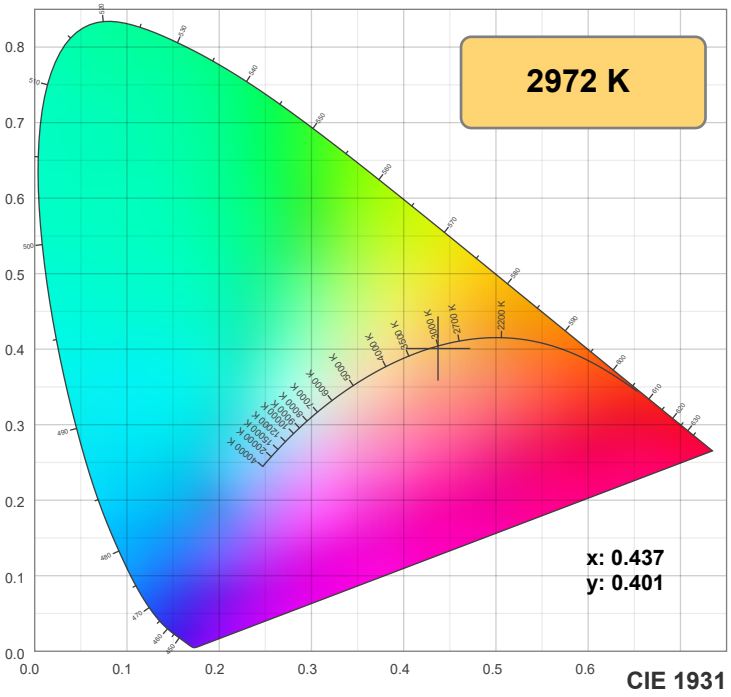


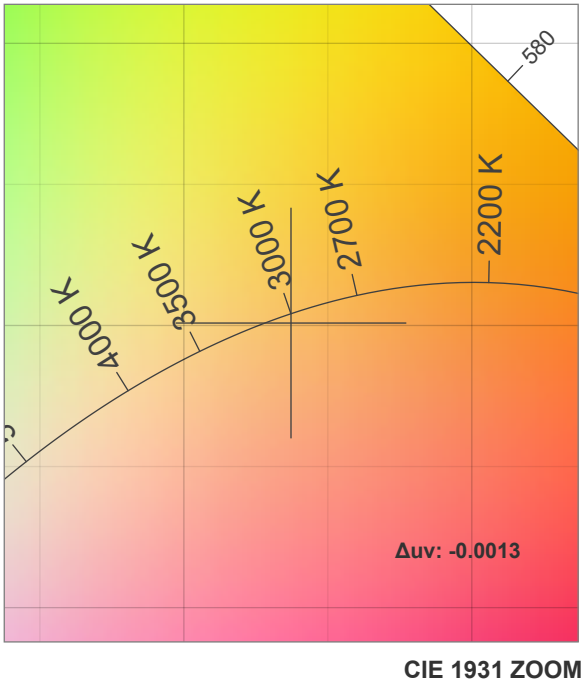
Angular Distribution 90 ° Plane



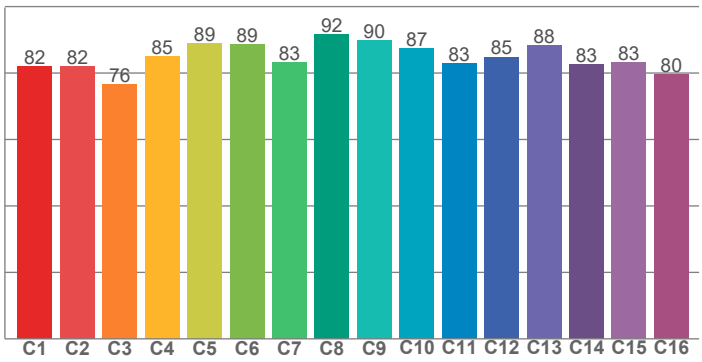
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Color details

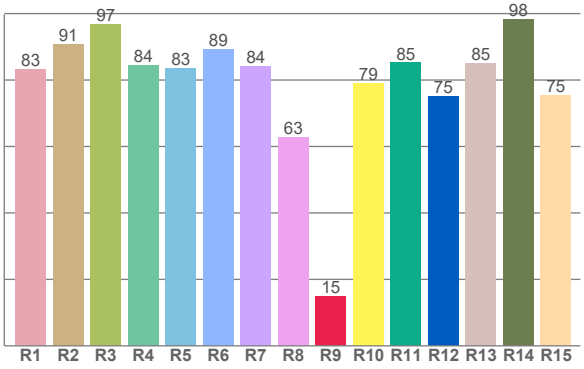




TM-30: 84.7



CRI: (R1-R8): 84.4



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
83.3	90.7	96.8	84.3	83.4	89.2	84.3	62.9	14.9	78.9	85.2	75.2	85.0	98.3	75.4

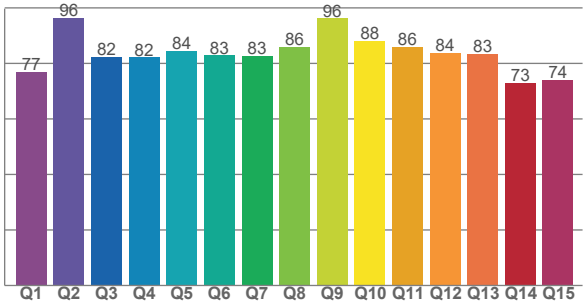
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.9	82.1	76.5	84.9	88.8	88.5	83.3	91.6	89.9	87.5	83.0	84.9	88.3	82.6	83.3	79.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.0	96.4	82.3	82.2	84.4	82.9	82.6	85.9	96.2	88.0	86.0	83.9	83.5	73.0	74.2

CQS: 82.6



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
2972 K	84.4	14.9	84.7	99.3	82.6	0.437	0.401	0.252	0.347	-0.0013

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TM-30 details

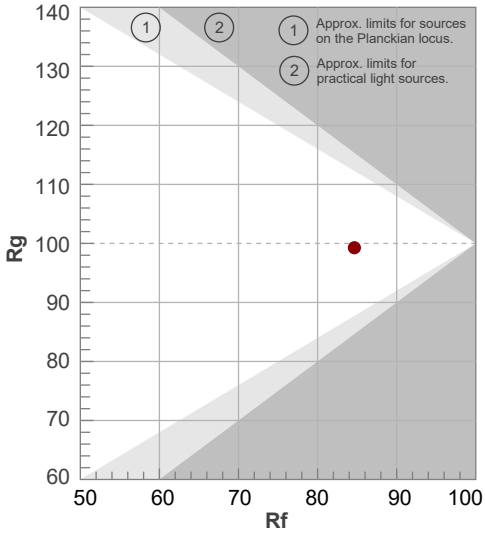
Rf 84.7

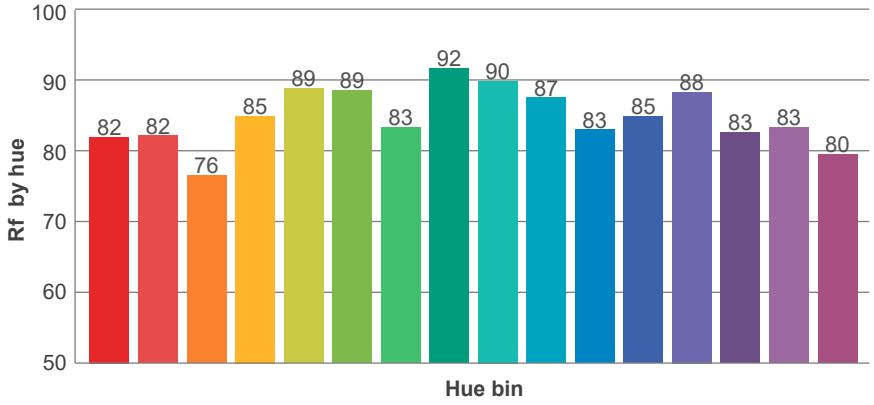
Fidelity index Rf

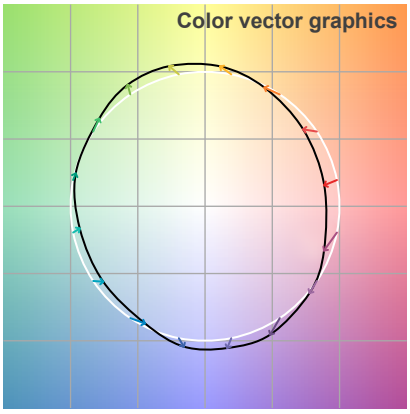
Rg 99.3

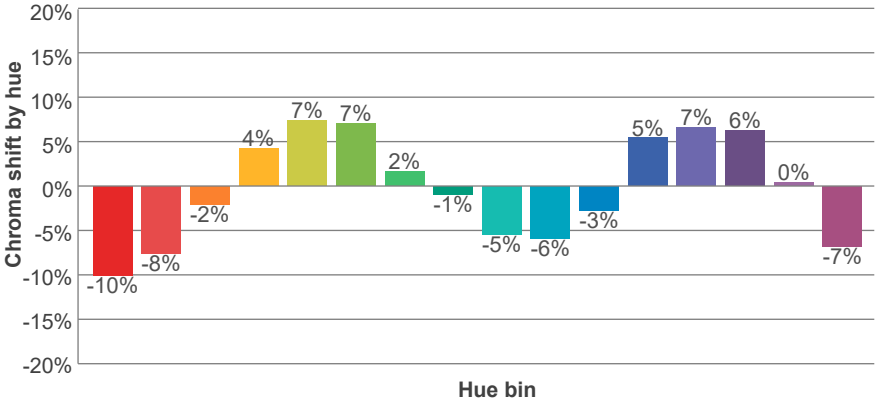
Gamut index Rg

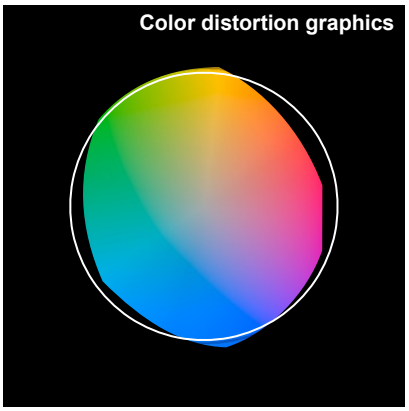
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	82	-10%	-2%
2	82	-8%	7%
3	76	-2%	12%
4	85	4%	9%
5	89	7%	6%
6	89	7%	-2%
7	83	2%	-10%
8	92	-1%	-5%
9	90	-5%	-2%
10	87	-6%	5%
11	83	-3%	11%
12	85	5%	5%
13	88	7%	-4%
14	83	6%	-13%
15	83	0%	-10%
16	80	-7%	-15%

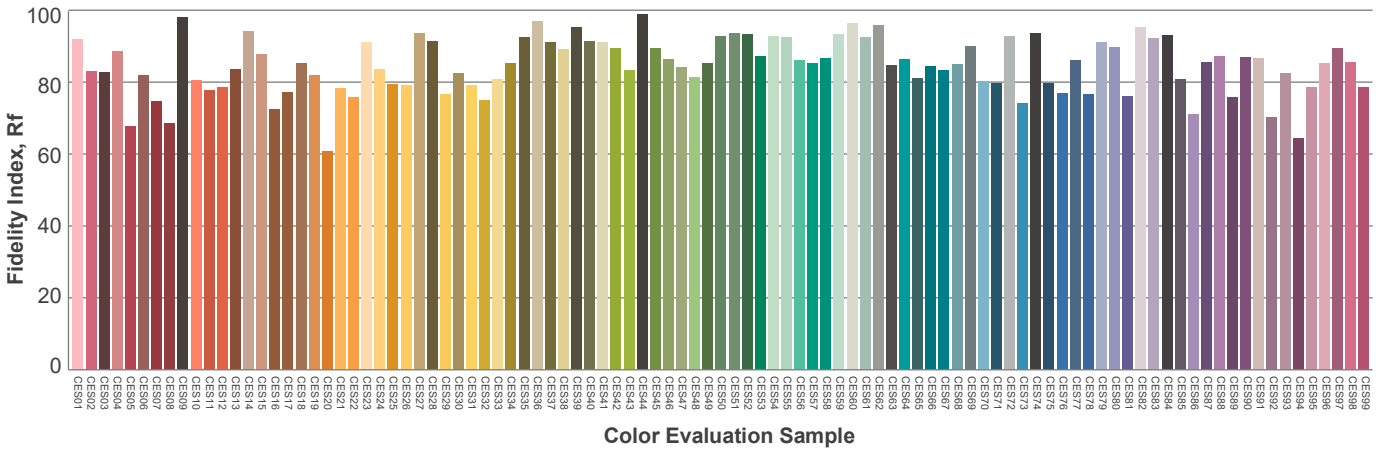






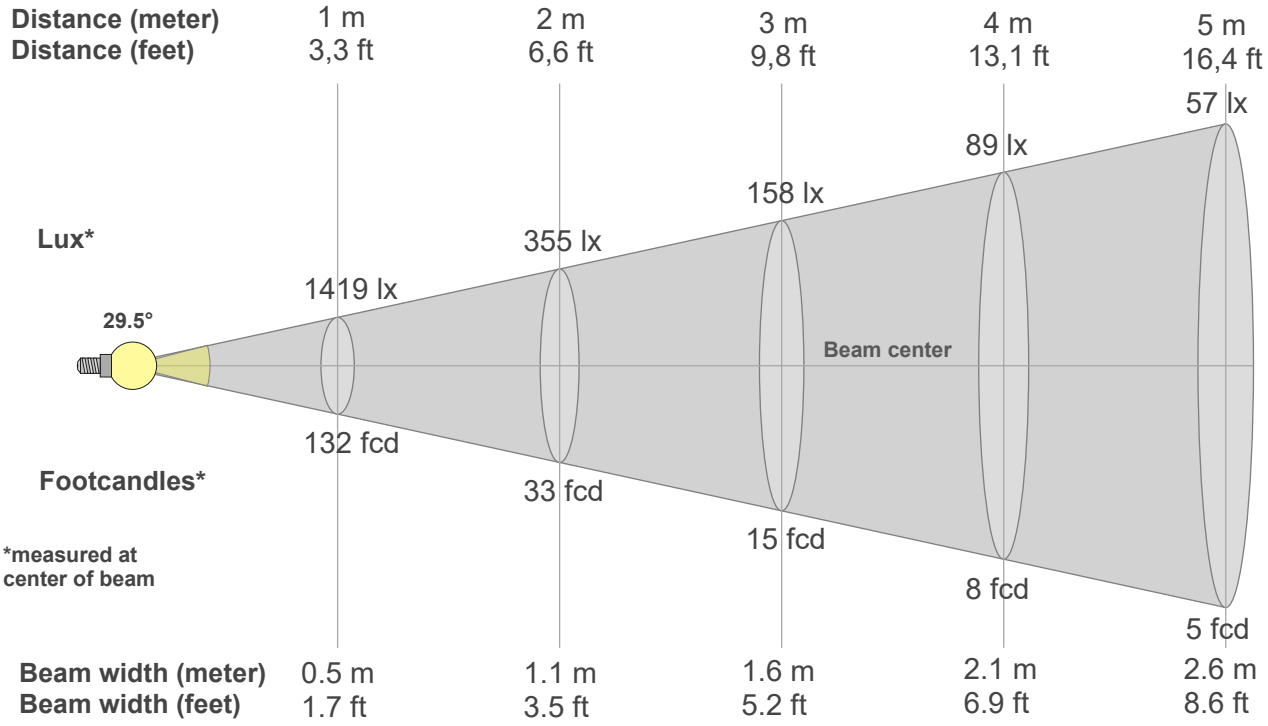






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Beam details



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
1419lx	355lx	158lx	89lx	57lx	39lx	29lx	22lx	18lx	14lx	12lx	10lx	8lx	7lx	6lx	6lx	5lx	4lx	4lx	4lx
131.9fc	33fcd	14.7fcd	8.2fcd	5.3fcd	3.7fcd	2.7fcd	2.1fcd	1.6fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd

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°
1419	1410	1387	1347	1292	1221	1137	1044	942	837	735	632	539	453	378	313	257	212	174	144
100%	99%	98%	95%	91%	86%	80%	74%	66%	59%	52%	45%	38%	32%	27%	22%	18%	15%	12%	10%

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°
1419	1379	1267	1111	944	785	649	537	443	372	310	259	219	184	155	131	113	96	82	71
100%	97%	89%	78%	67%	55%	46%	38%	31%	26%	22%	18%	15%	13%	11%	9%	8%	7%	6%	5%

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°
1419	1409	1380	1340	1282	1209	1128	1036	938	835	734	636	544	460	389	324	270	224	185	155
100%	99%	97%	94%	90%	85%	79%	73%	66%	59%	52%	45%	38%	32%	27%	23%	19%	16%	13%	11%

Intensities in 270° c-plane

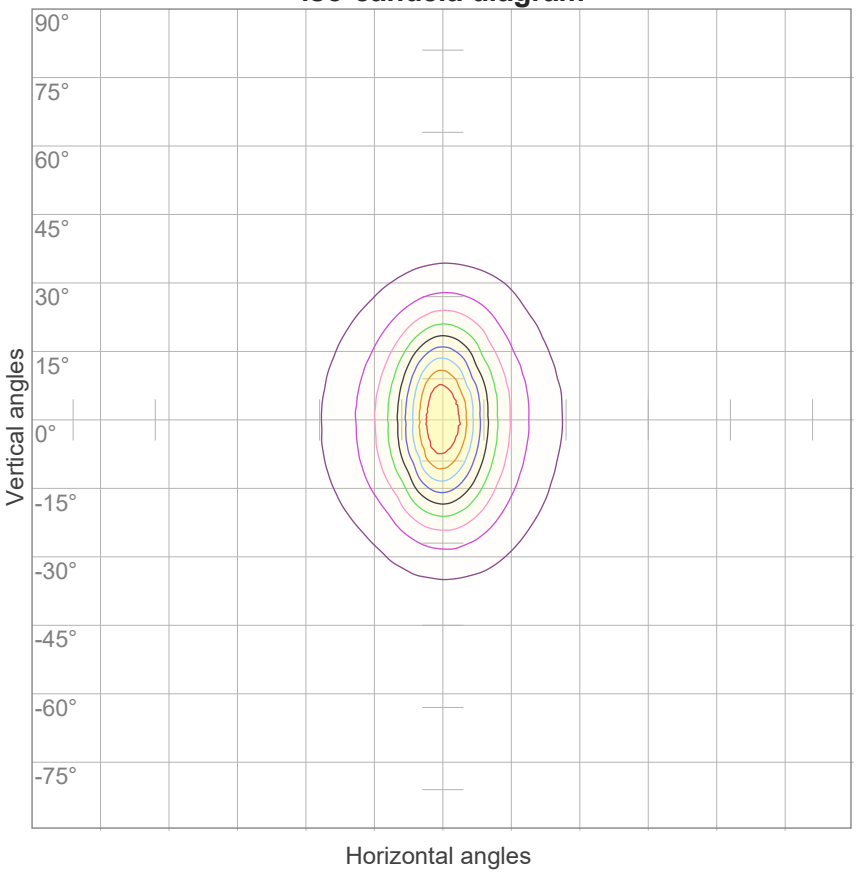
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1419	1375	1262	1106	940	785	652	540	449	377	317	266	224	191	161	137	117	101	86	74
100%	97%	89%	78%	66%	55%	46%	38%	32%	27%	22%	19%	16%	13%	11%	10%	8%	7%	6%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29.5°	66.4°	103°	96.2%	88.9%

NOVA FLEX

Iso Diagrams

iso-candela diagram



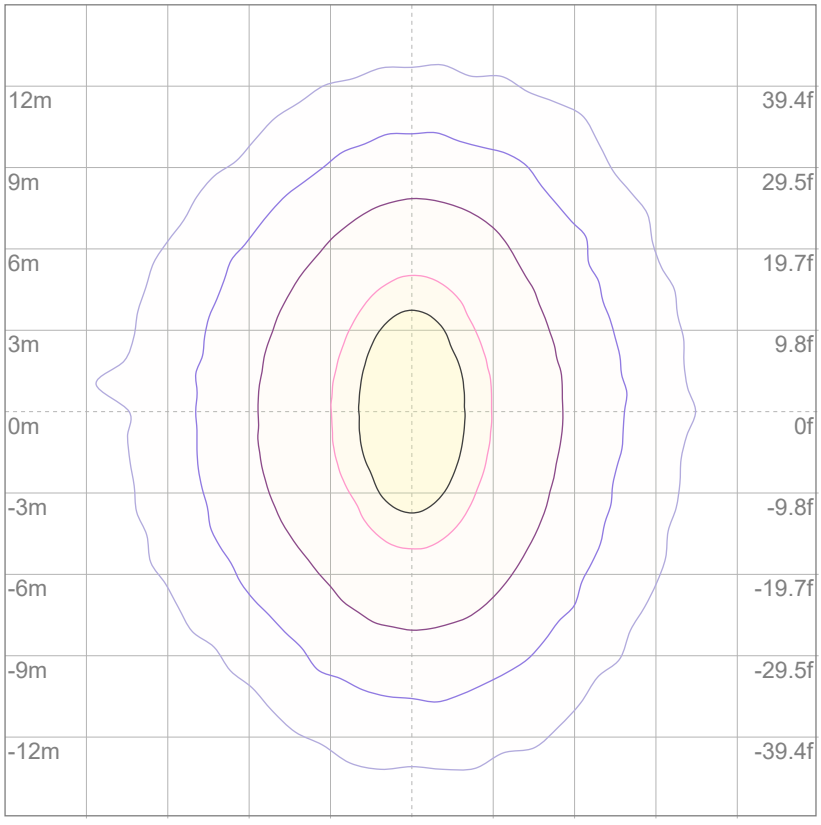
10%	142 cd
20%	284 cd
30%	426 cd
40%	568 cd
50%	710 cd
60%	852 cd
70%	994 cd
80%	1136 cd
90%	1278 cd

Conditions:

Number of c-planes: 72

Candela at center: 1419 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.426 lx
5%	0.710 lx
10%	1.42 lx
30%	4.26 lx
50%	7.10 lx

Conditions:

Number of c-planes: 72

Lux at center: 14.2 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 622 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	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	67	62	58	66	61	58	65	61	58	56
10	74	65	59	56	73	64	59	56	64	59	55	63	58	55	62	58	55	54

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
112 lm	191 lm	142 lm	82.4 lm	46.0 lm	25.6 lm	13.4 lm	6.82 lm	3.06 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.120 lm	0.000 lm	0.000 lm	0.000 lm	0.000 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):	221.8	35.7%
Medium(30-60):	75.7	12.2%
High(60-80):	9.8	1.6%
Very high(80-90):	1.6	0.3%
Back light		
Low(0-30):	222.6	35.8%
Medium(30-60):	78.3	12.6%
High(60-80):	10.4	1.7%
Very high(80-90):	1.4	0.2%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

