NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

82 Lumen/Watt

Light quality:

CRI: 84.2

Color temperature:

2708 K

Output: 667 lm
Peak: 1369 cd

Power: 8.1 W
PF: 1.0

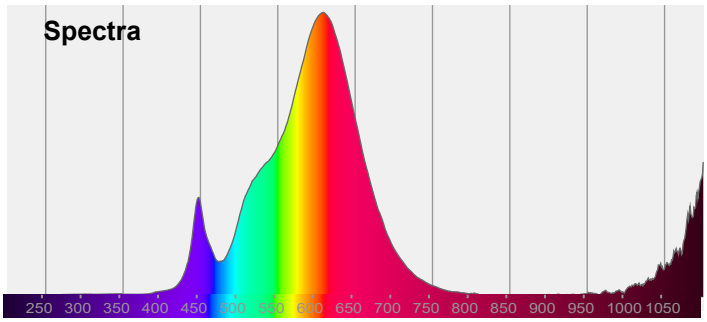
Tracking number: VT250721-005200

Product name:
GRZ White 15x40 24 27

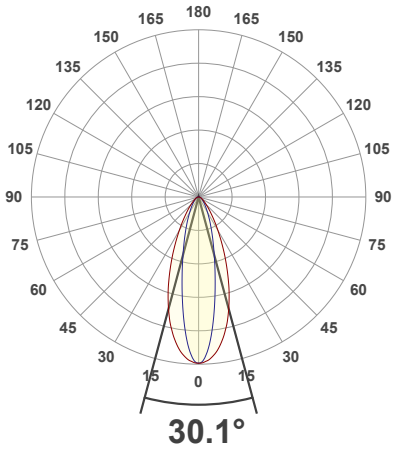
Item number:
1 foot Flex Grazer White 2700K 15°x40°

Date and time:
7/21/25 3:04:42 PM

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

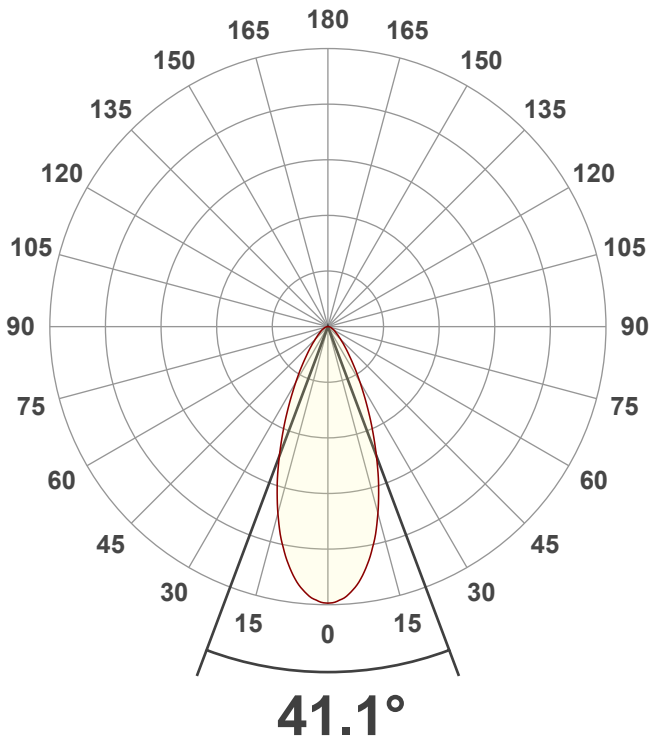


Average Beam Angle

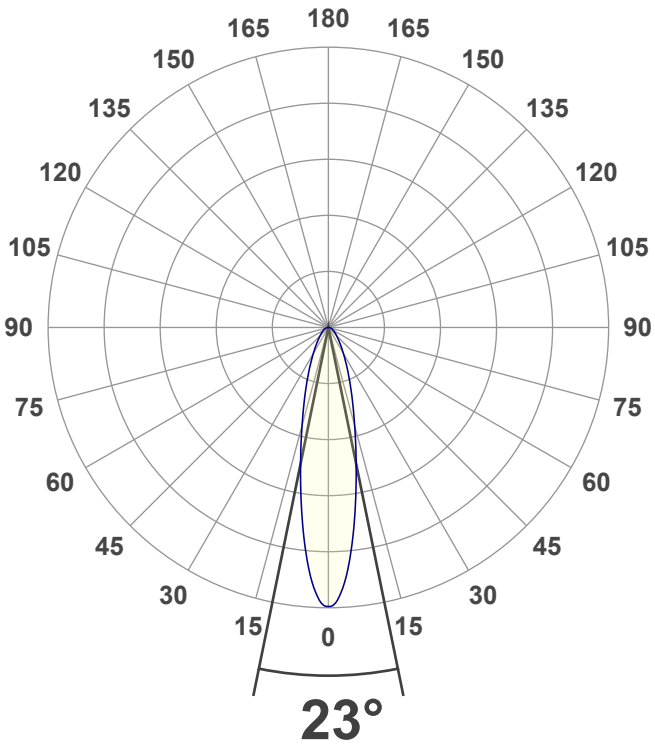


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

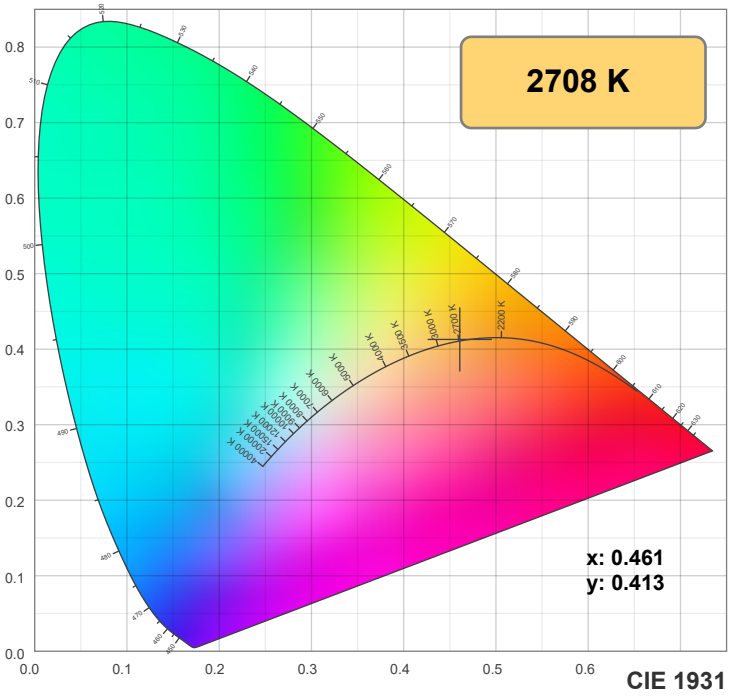


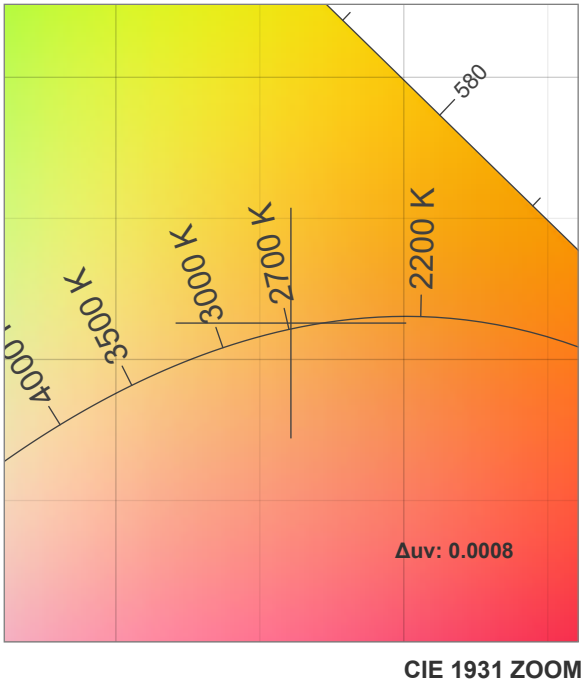
Angular Distribution 90 ° Plane



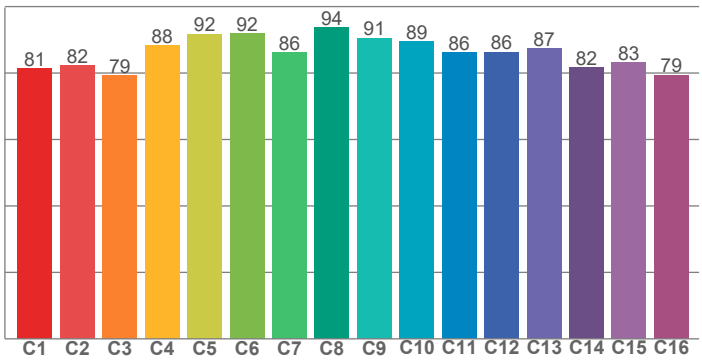
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Color details

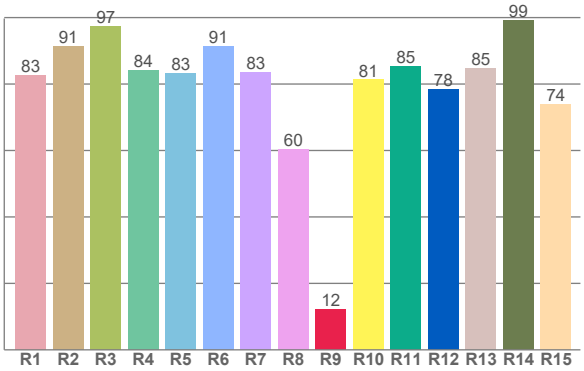




TM-30: 86.1



CRI: (R1-R8): 84.2



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
82.7	91.4	97.4	84.0	83.1	91.3	83.4	60.3	12.2	81.3	85.4	78.3	84.7	99.2	73.8

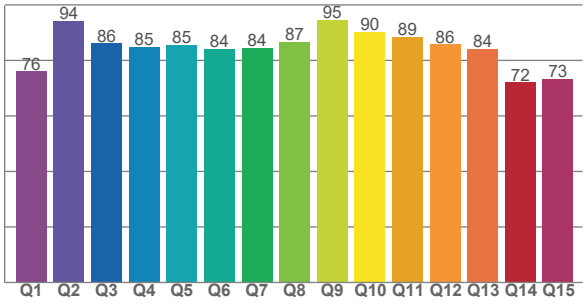
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.3	82.4	79.3	88.3	91.8	92.0	86.1	93.7	90.6	89.5	86.3	86.4	87.4	81.6	83.2	79.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.0	94.2	86.2	85.0	85.5	84.2	84.5	86.8	94.6	90.3	88.5	85.8	84.1	72.1	73.3

CQS: 83.3



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
2708 K	84.2	12.2	86.1	97.5	83.3	0.461	0.413	0.262	0.352	0.0008

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TM-30 details

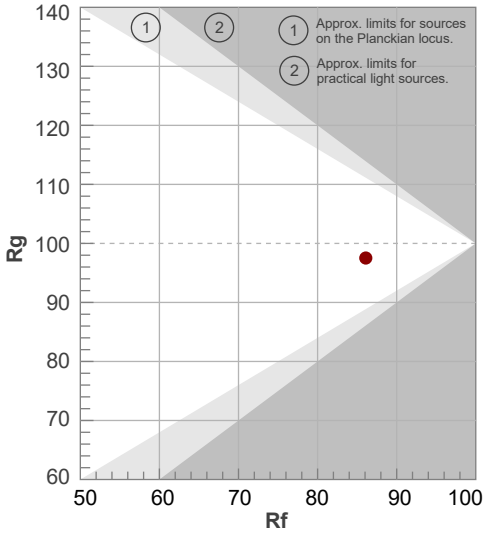
Rf 86.1

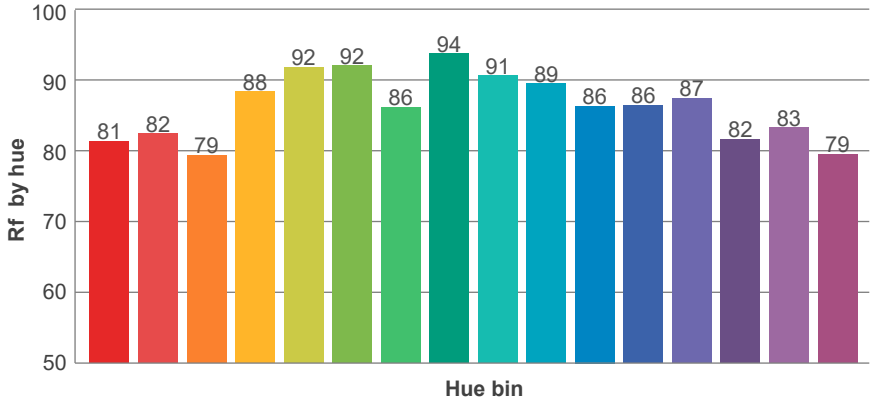
Fidelity index Rf

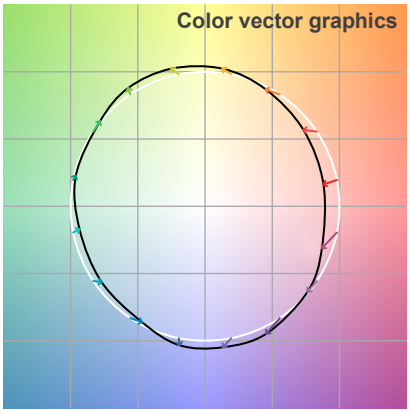
Rg 97.5

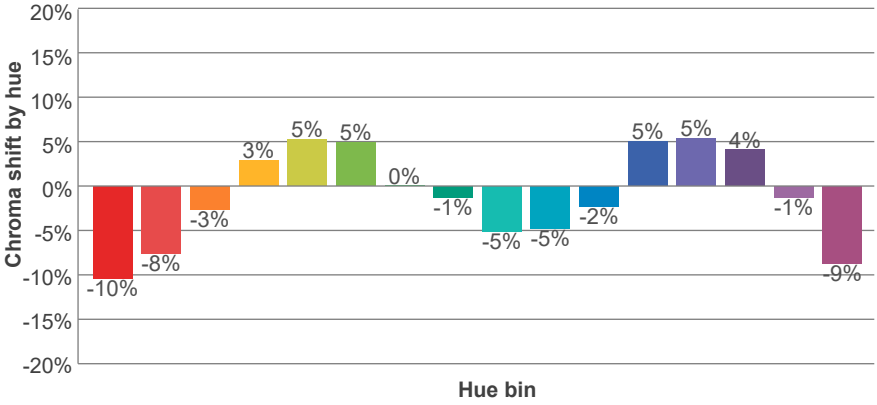
Gamut index Rg

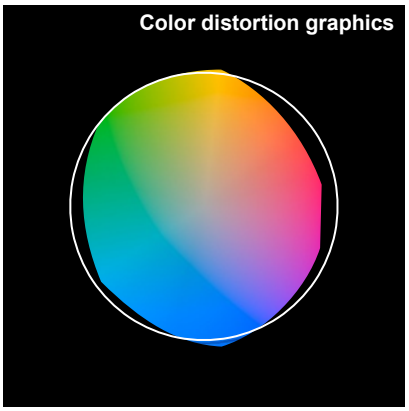
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	81	-10%	-1%
2	82	-8%	7%
3	79	-3%	11%
4	88	3%	7%
5	92	5%	5%
6	92	5%	-1%
7	86	0%	-9%
8	94	-1%	-4%
9	91	-5%	-2%
10	89	-5%	4%
11	86	-2%	9%
12	86	5%	2%
13	87	5%	-8%
14	82	4%	-15%
15	83	-1%	-10%
16	79	-9%	-14%

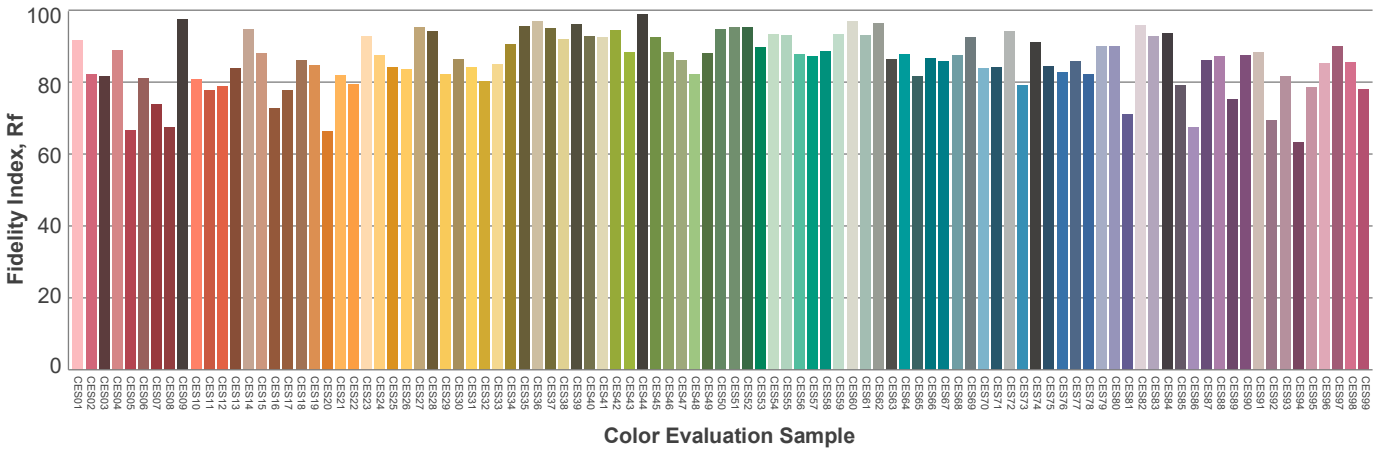






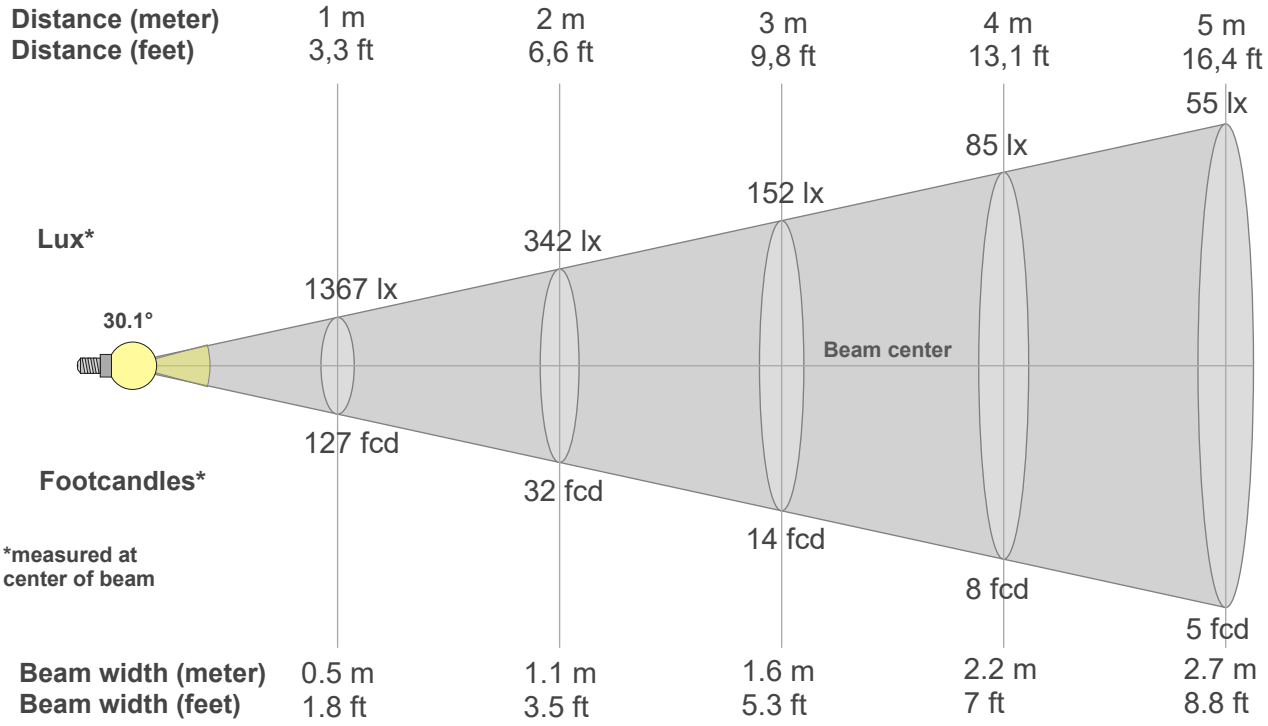






NOVA FLEX

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
1367lx	342lx	152lx	85lx	55lx	38lx	28lx	21lx	17lx	14lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
127fcd	31.8fcd	14.1fcd	7.9fcd	5.1fcd	3.5fcd	2.6fcd	2fcd	1.6fcd	1.3fcd	1fcd	0.9fcd	0.8fcd	0.6fcd	0.6fcd	0.5fcd	0.4fcd	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°
1367	1360	1337	1297	1242	1173	1094	1004	909	812	712	617	530	449	378	318	267	223	186	157
100%	99%	98%	95%	91%	86%	80%	73%	66%	59%	52%	45%	39%	33%	28%	23%	20%	16%	14%	12%

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°
1367	1332	1229	1085	931	783	654	546	456	384	325	276	235	200	171	148	127	112	97	86
100%	97%	90%	79%	68%	57%	48%	40%	33%	28%	24%	20%	17%	15%	13%	11%	9%	8%	7%	6%

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°
1367	1360	1337	1297	1242	1173	1094	1004	909	812	712	617	530	449	378	318	267	223	186	157
100%	99%	98%	95%	91%	86%	80%	73%	66%	59%	52%	45%	39%	33%	28%	23%	20%	16%	14%	12%

Intensities in 270° c-plane

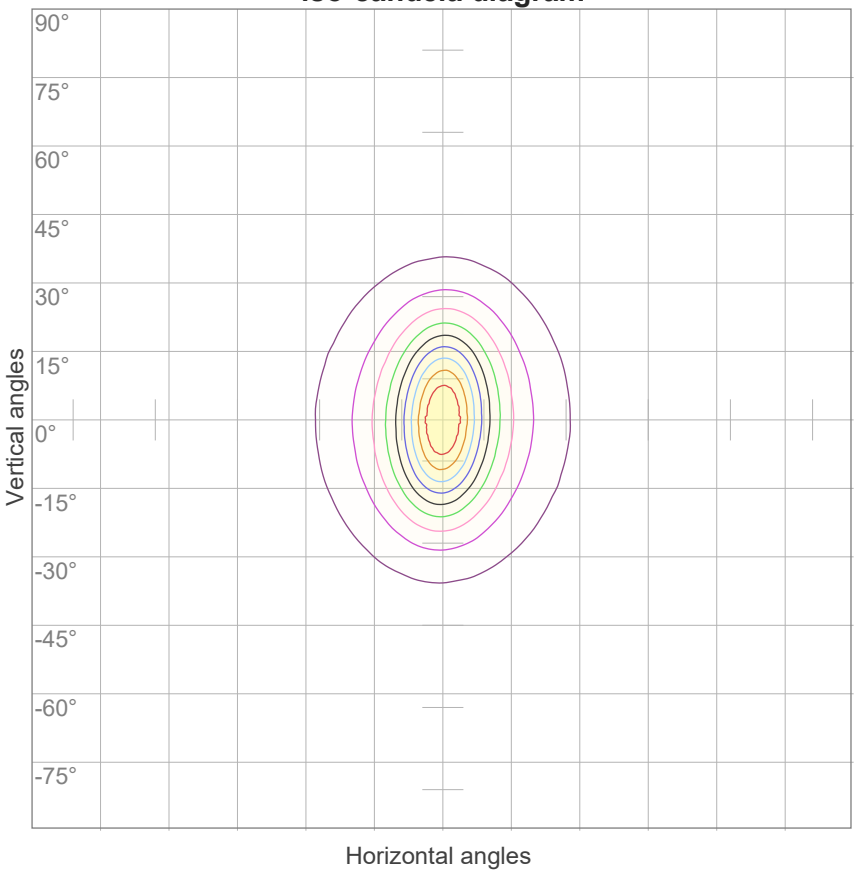
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1367	1332	1229	1085	931	783	654	546	456	384	325	276	235	200	171	148	127	112	97	86
100%	97%	90%	79%	68%	57%	48%	40%	33%	28%	24%	20%	17%	15%	13%	11%	9%	8%	7%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30.1°	69.4°	115.3°	93.2%	84.2%

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Iso Diagrams

iso-candela diagram



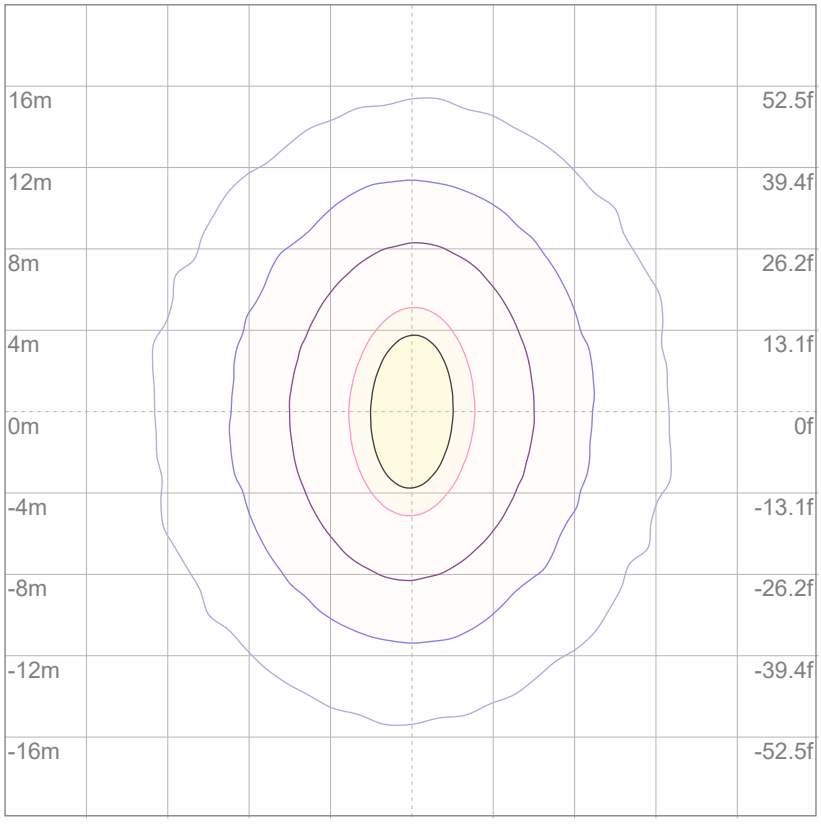
10%	137 cd
20%	273 cd
30%	410 cd
40%	547 cd
50%	684 cd
60%	820 cd
70%	957 cd
80%	1094 cd
90%	1231 cd

Conditions:

Number of c-planes: 72

Candela at center: 1367 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.410 lx
5%	0.684 lx
10%	1.37 lx
30%	4.10 lx
50%	6.84 lx

Conditions:

Number of c-planes: 72

Lux at center: 13.7 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 667 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	97	96	96	94	93	91
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	75	71	89	80	75	70	78	73	70	77	72	69	75	71	68	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
109 lm	189 lm	144 lm	88.9 lm	54.6 lm	36.0 lm	23.4 lm	14.4 lm	5.59 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.580 lm	0.440 lm	0.412 lm	0.373 lm	0.146 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):	221.5	33.2%
Medium(30-60):	89.9	13.5%
High(60-80):	18.9	2.8%
Very high(80-90):	2.8	0.4%
Back light		
Low(0-30):	221.5	33.2%
Medium(30-60):	89.9	13.5%
High(60-80):	18.9	2.8%
Very high(80-90):	2.8	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

