NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

79 Lumen/Watt

Light quality:

CRI: 84.8

Color temperature:

2972 K

Output: 643 lm
Peak: 1047 cd

Power: 8.1 W
PF: 1.0

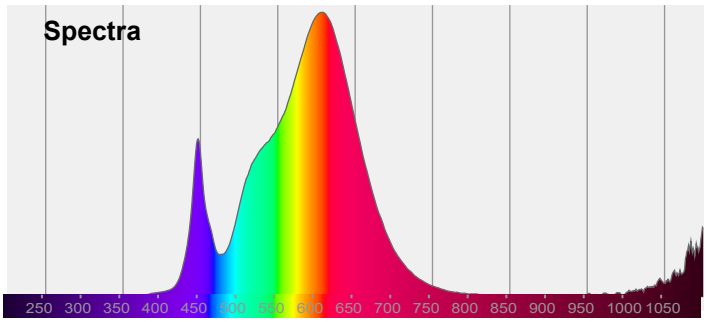
Tracking number: VT250717-000967

Product name:
GRZ White 15x40 24 30

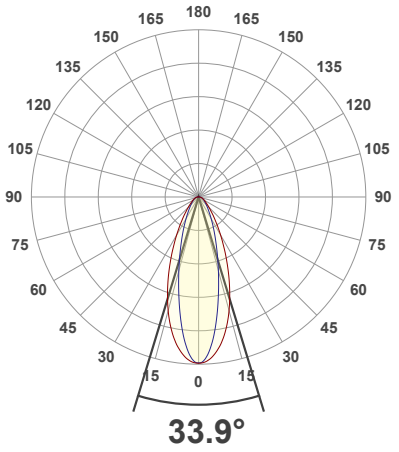
Item number:
1 foot Flex Grazer White 3000K 15°x40°

Date and time:
7/17/25 10:50:45 AM

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

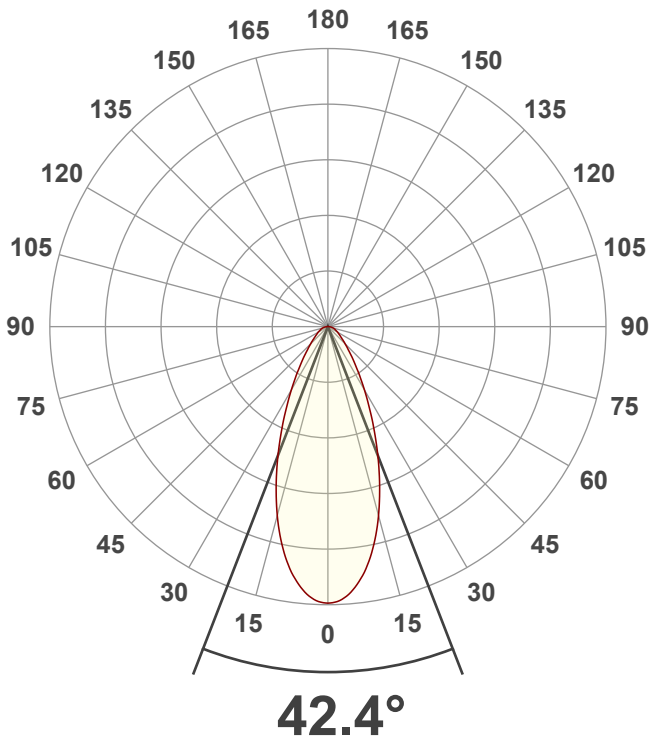


Average Beam Angle

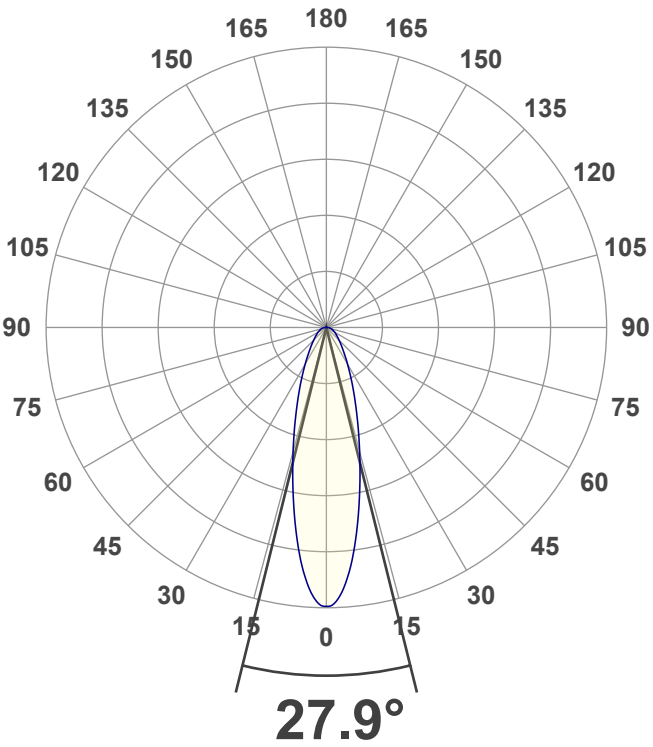


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

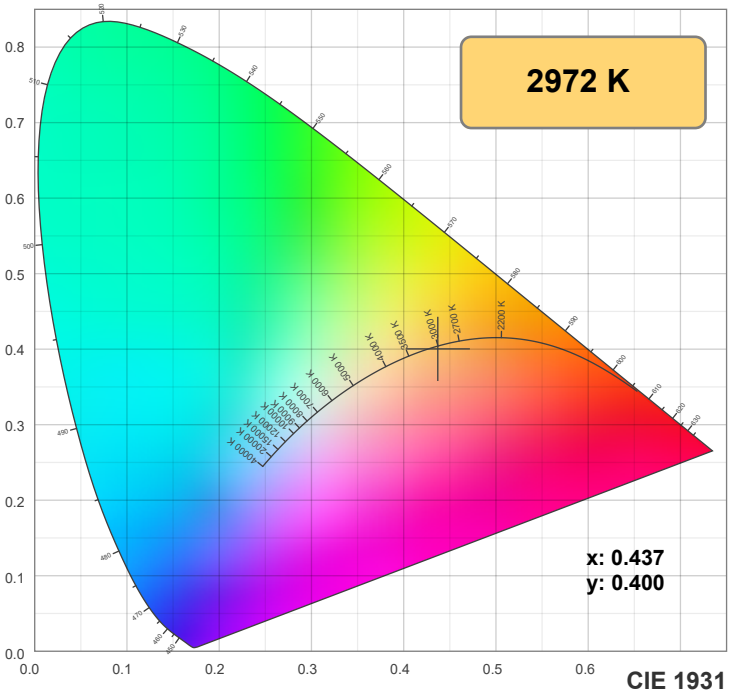


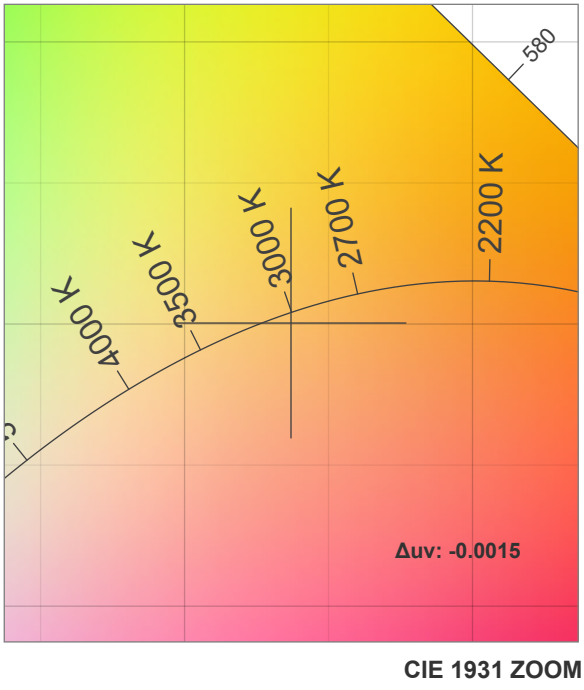
Angular Distribution 90 ° Plane



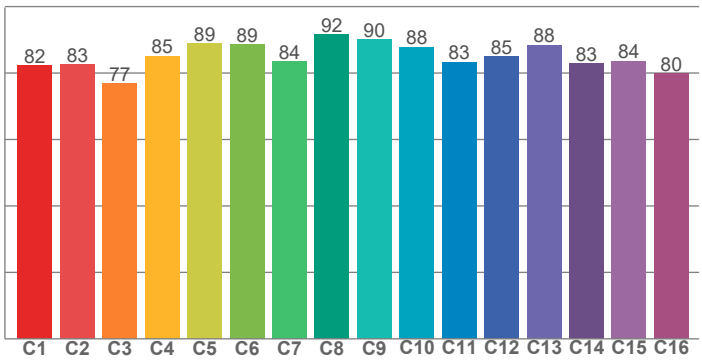
NOVA FLEX

Color details

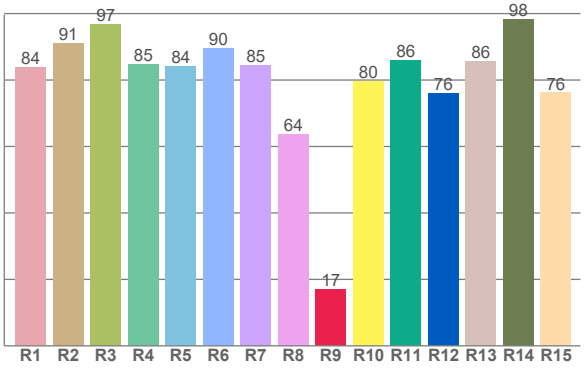




TM-30: 84.9



CRI: (R1-R8): 84.8



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
83.9	91.0	96.8	84.9	84.0	89.7	84.6	63.8	17.0	79.7	85.9	76.1	85.5	98.3	76.1

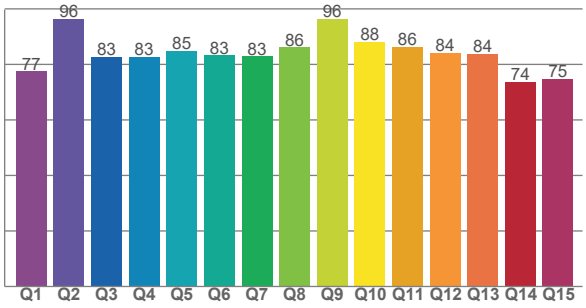
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.4	82.5	76.9	85.1	88.9	88.5	83.5	91.7	90.1	87.9	83.3	85.1	88.4	82.9	83.6	79.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.5	96.4	82.6	82.6	84.9	83.3	82.9	86.1	96.3	88.2	86.2	84.2	83.8	73.7	74.7

CQS: 82.9



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	84.8	17.0	84.9	99.5	82.9	0.437	0.400	0.252	0.347	-0.0015

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TM-30 details

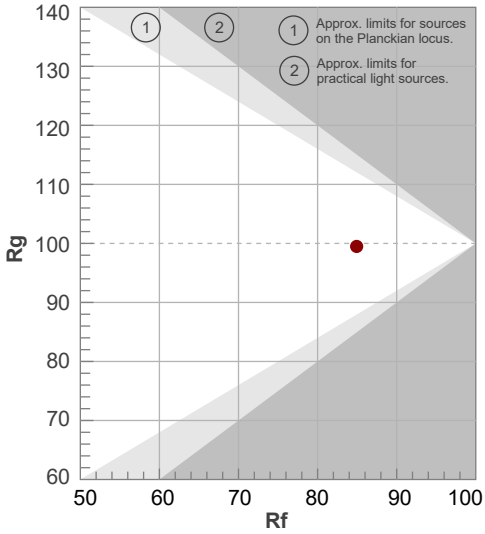
Rf 84.9

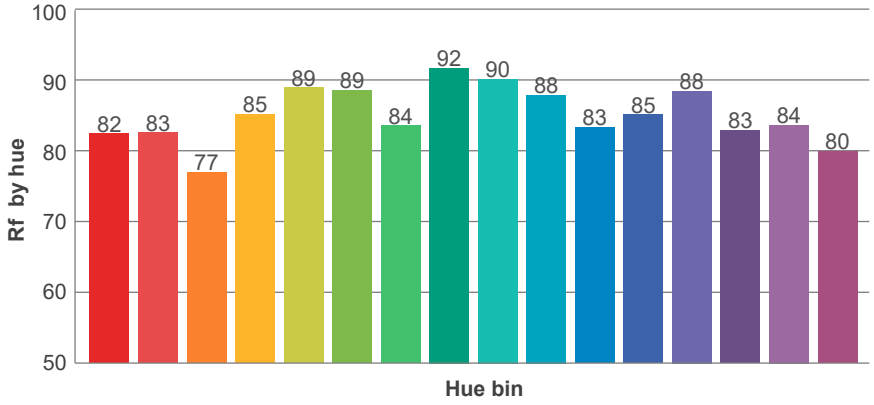
Fidelity index Rf

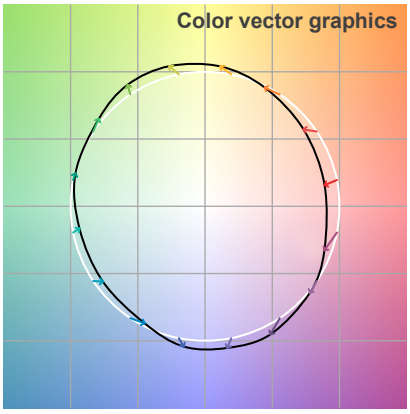
Rg 99.5

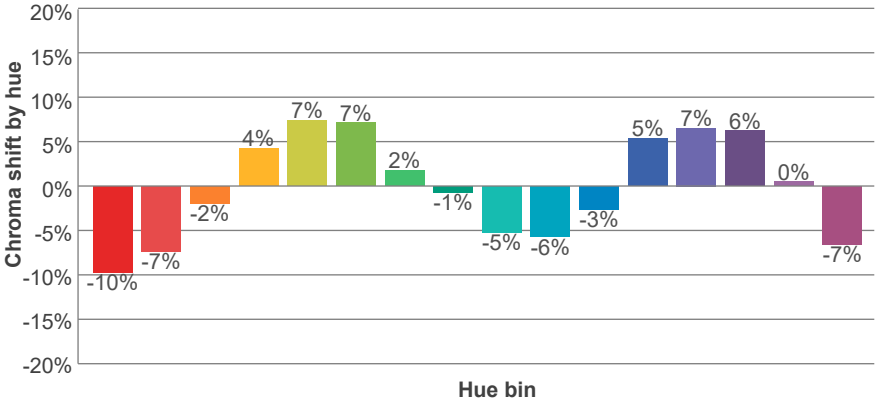
Gamut index Rg

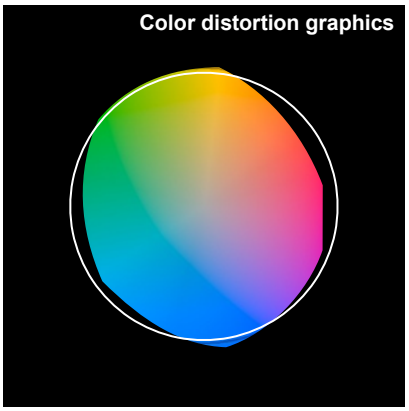
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	82	-10%	-2%
2	83	-7%	7%
3	77	-2%	12%
4	85	4%	9%
5	89	7%	6%
6	89	7%	-2%
7	84	2%	-10%
8	92	-1%	-5%
9	90	-5%	-2%
10	88	-6%	4%
11	83	-3%	11%
12	85	5%	5%
13	88	7%	-4%
14	83	6%	-12%
15	84	0%	-10%
16	80	-7%	-15%

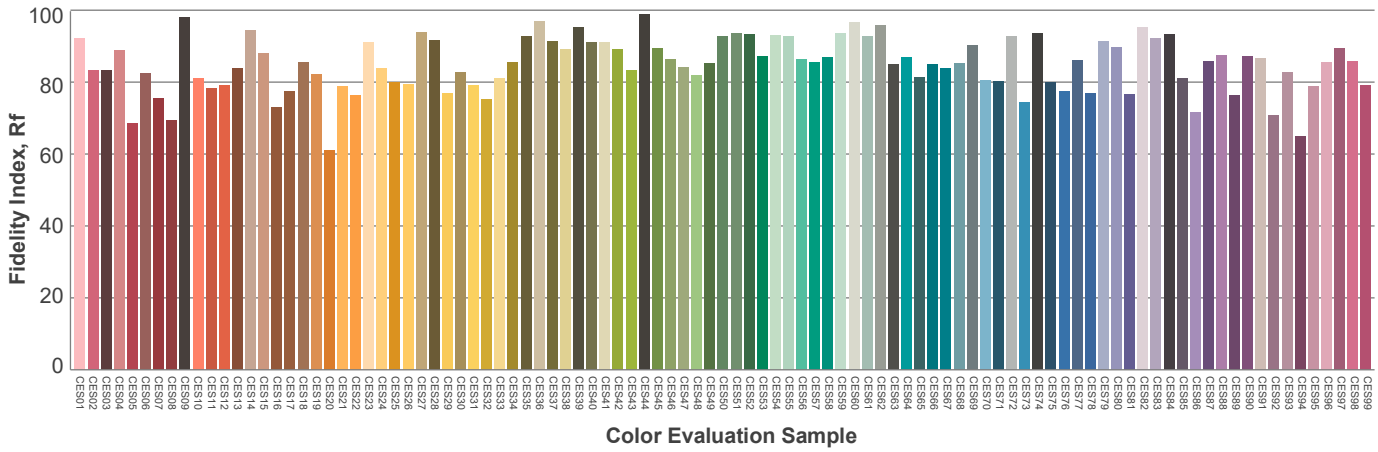






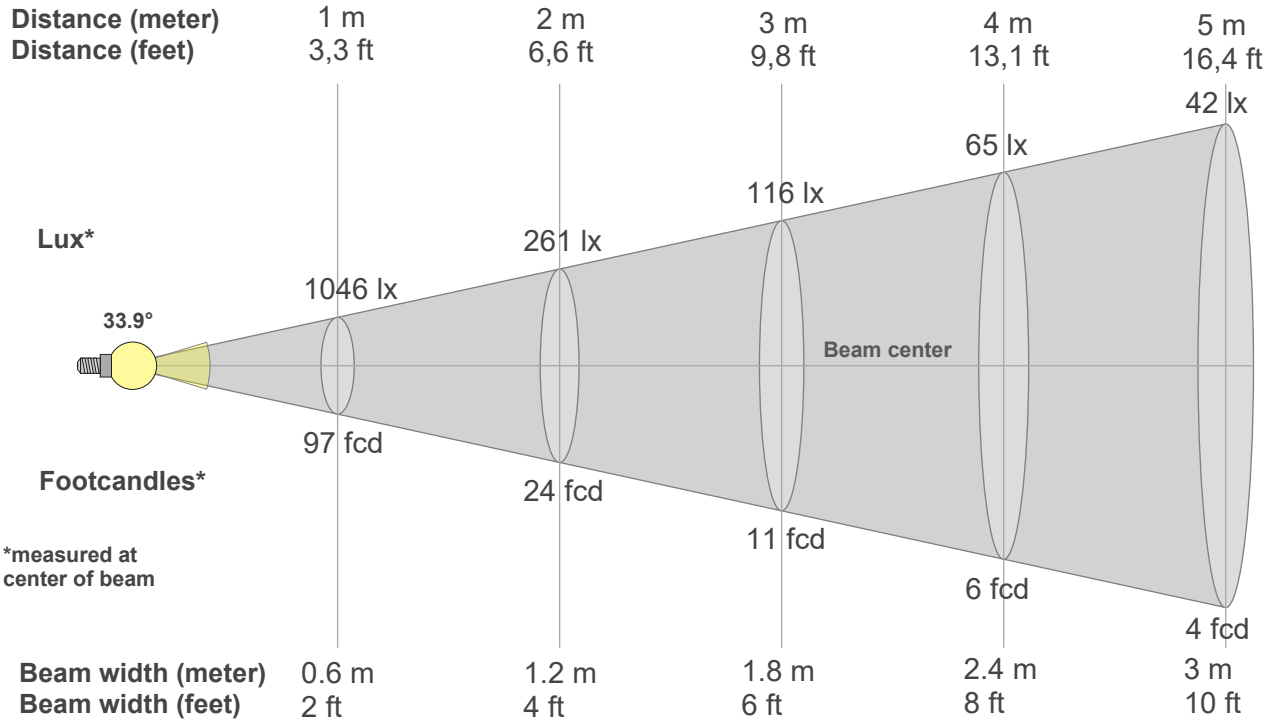






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Beam details



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
1046lx	261lx	116lx	65lx	42lx	29lx	21lx	16lx	13lx	10lx	9lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	3lx
97.1fcd	24.3fcd	10.8fcd	6.1fcd	3.9fcd	2.7fcd	2fcd	1.5fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	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°
1046	1041	1022	991	950	899	840	775	705	634	564	496	432	374	322	277	237	203	174	151
100%	100%	98%	95%	91%	86%	80%	74%	67%	61%	54%	47%	41%	36%	31%	27%	23%	19%	17%	14%

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°
1046	1026	971	890	794	697	603	519	446	382	327	282	243	210	182	159	139	122	108	97
100%	98%	93%	85%	76%	67%	58%	50%	43%	37%	31%	27%	23%	20%	17%	15%	13%	12%	10%	9%

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°
1046	1041	1022	991	950	899	840	775	705	634	564	496	432	374	322	277	237	203	174	151
100%	100%	98%	95%	91%	86%	80%	74%	67%	61%	54%	47%	41%	36%	31%	27%	23%	19%	17%	14%

Intensities in 270° c-plane

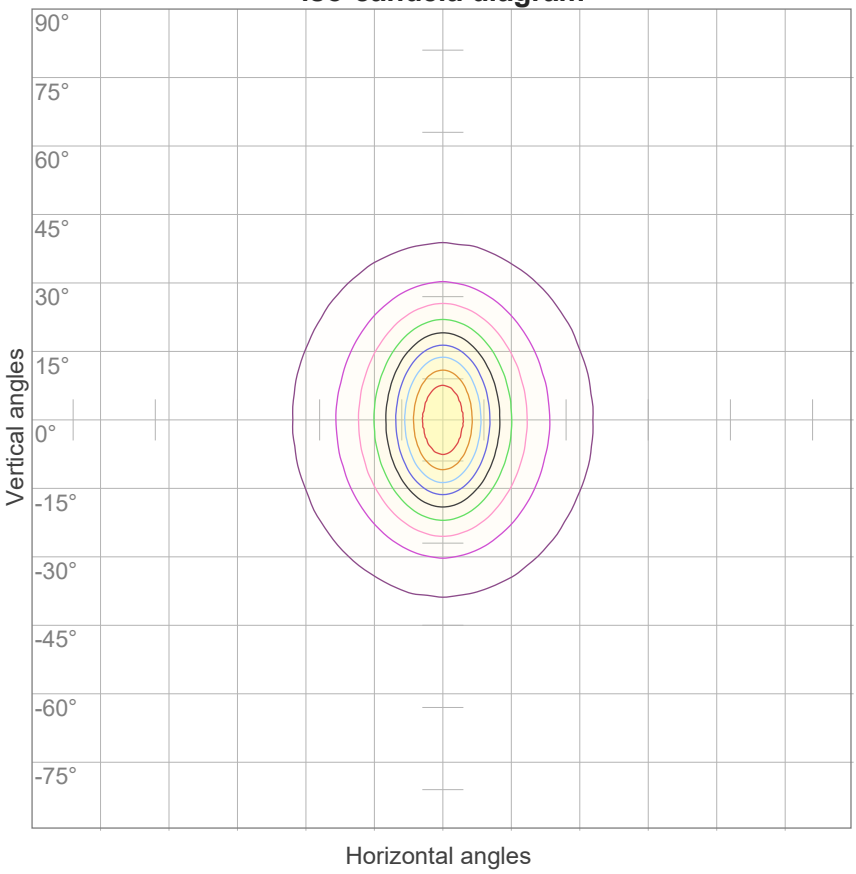
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1046	1026	971	890	794	697	603	519	446	382	327	282	243	210	182	159	139	122	108	97
100%	98%	93%	85%	76%	67%	58%	50%	43%	37%	31%	27%	23%	20%	17%	15%	13%	12%	10%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
33.9°	79.1°	138.9°	90.4%	79.4%

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Iso Diagrams

iso-candela diagram



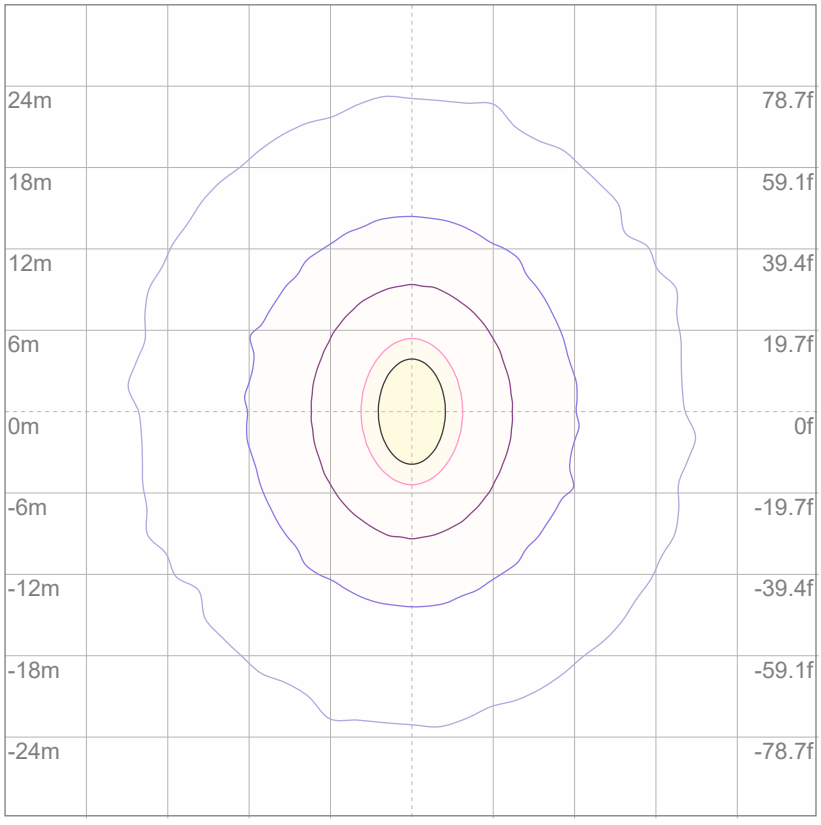
10%	105 cd
20%	209 cd
30%	314 cd
40%	418 cd
50%	523 cd
60%	627 cd
70%	732 cd
80%	836 cd
90%	941 cd

Conditions:

Number of c-planes: 72

Candela at center: 1046 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.314 lx
5%	0.523 lx
10%	1.05 lx
30%	3.14 lx
50%	5.23 lx

Conditions:

Number of c-planes: 72

Lux at center: 10.5 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 643 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	108	105	102	109	106	103	101	102	99	97	98	96	94	94	93	92	90
2	105	99	94	90	102	97	92	89	94	90	87	90	87	85	88	85	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	75	74
4	93	84	77	73	91	83	77	72	80	75	71	78	74	70	76	73	69	68
5	88	78	71	66	86	77	71	66	75	70	65	73	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	69	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54
8	75	65	58	54	74	64	58	53	63	57	53	62	57	53	61	56	53	51
9	72	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48
10	68	58	52	48	67	57	52	48	57	51	47	56	51	47	55	50	47	46

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
86.6 lm	163 lm	136 lm	91.0 lm	60.7 lm	43.2 lm	31.6 lm	20.8 lm	8.13 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.328 lm	0.257 lm	0.241 lm	0.218 lm	0.094 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):	193.3	30.1%
Medium(30-60):	97.6	15.2%
High(60-80):	26.2	4.1%
Very high(80-90):	4.1	0.6%
Back light		
Low(0-30):	193.3	30.1%
Medium(30-60):	97.6	15.2%
High(60-80):	26.2	4.1%
Very high(80-90):	4.1	0.6%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

