NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

92 Lumen/Watt

Light quality:

CRI: 85.9

Color temperature:

4101 K

Output: 745 lm
Peak: 1529 cd

Power: 8.1 W
PF: 1.0

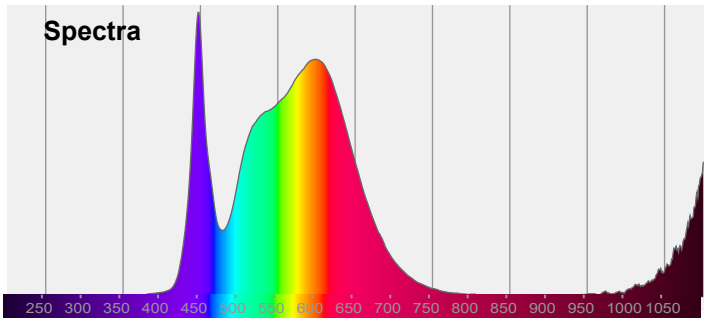
Tracking number: VT250722-001842

Product name:
GRZ White 15x40 24 40

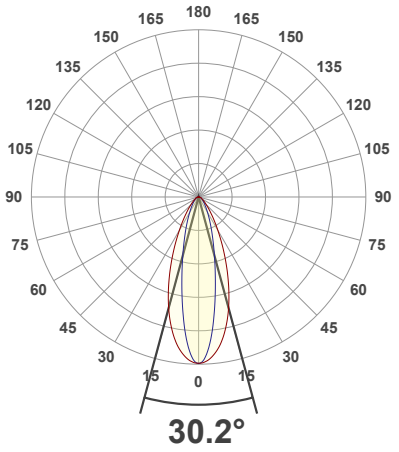
Item number:
1 foot Flex Grazer White 4000K 15° x 40° Optic

Date and time:
7/22/25 2:25:51 PM

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

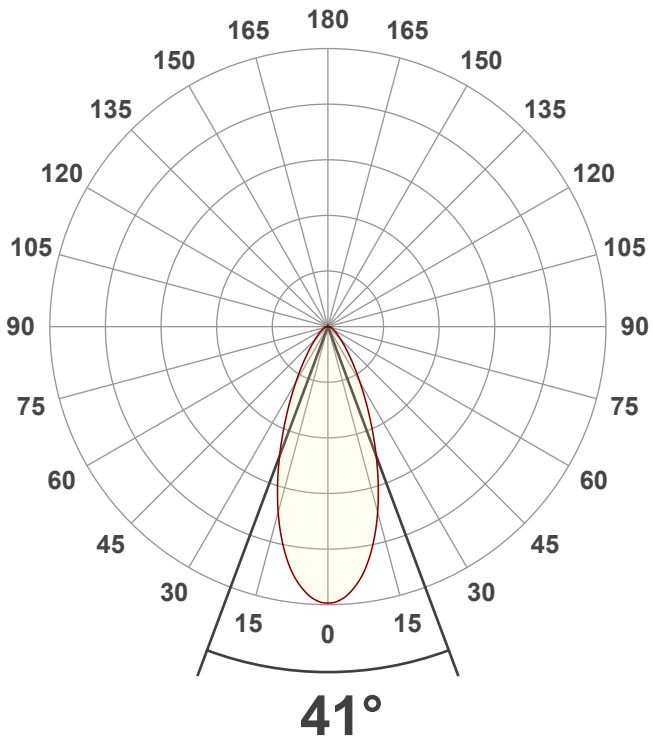


Average Beam Angle

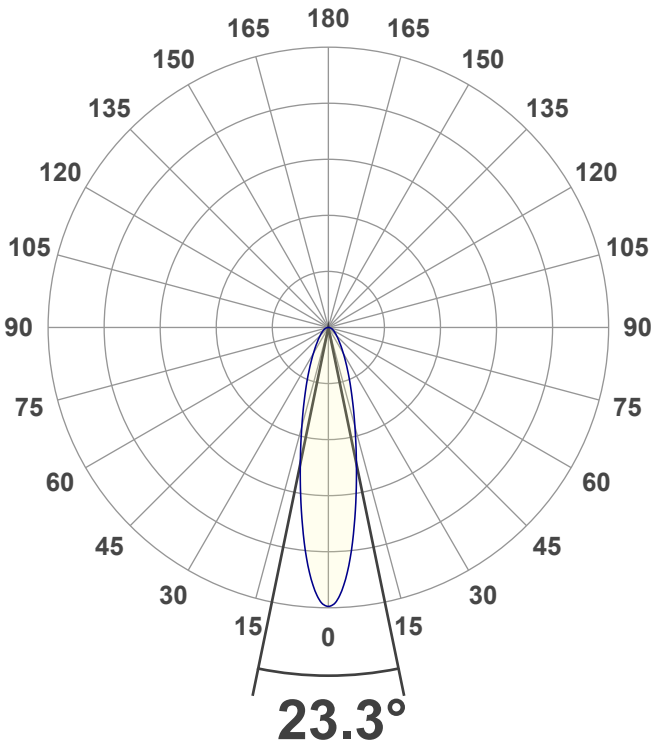


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

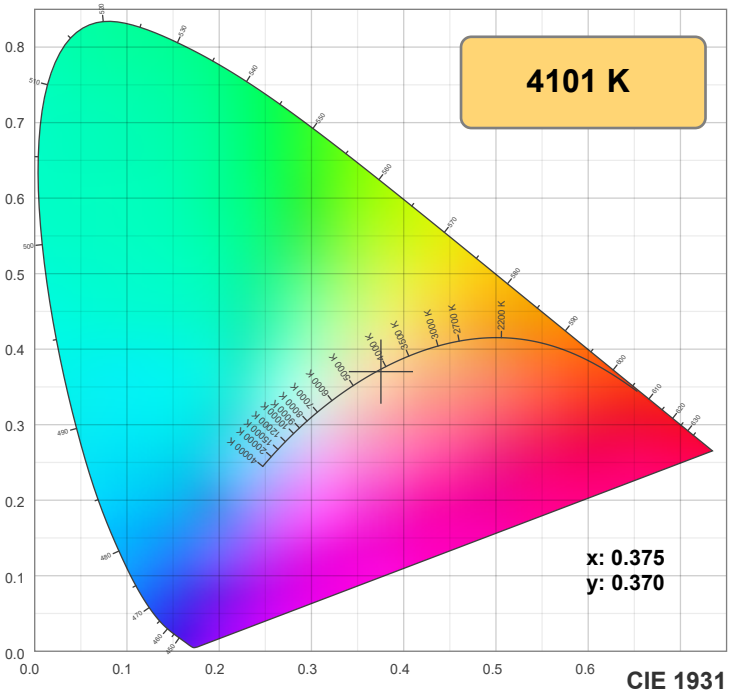


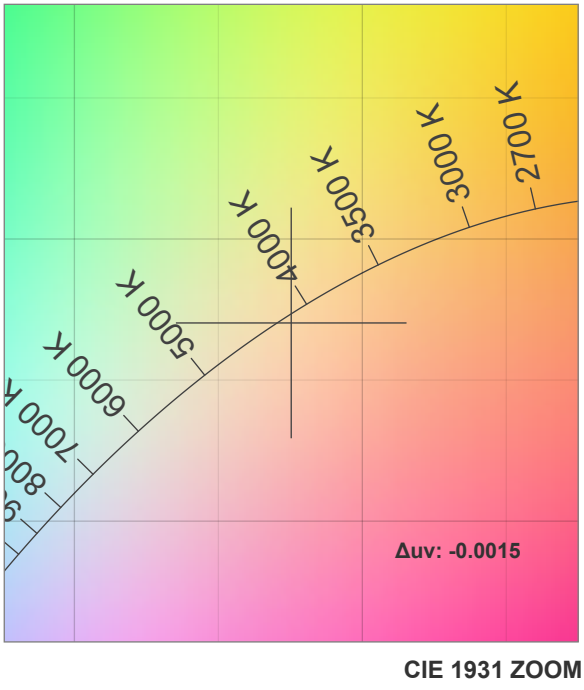
Angular Distribution 90 ° Plane



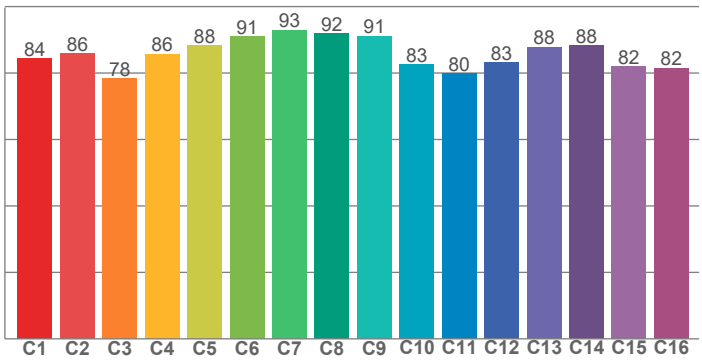
NOVA FLEX

Color details

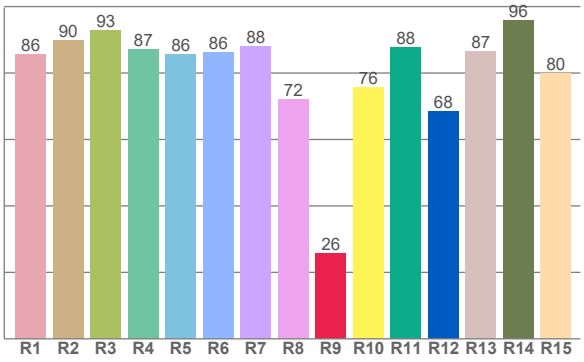




TM-30: 85.6



CRI: (R1-R8): 85.9



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
85.7	89.7	92.8	87.2	85.7	86.2	88.2	72.1	25.8	75.6	87.7	68.5	86.6	95.8	79.9

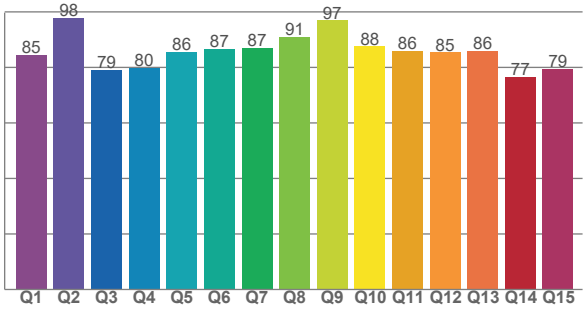
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
84.4	86.0	78.4	85.8	88.4	91.0	93.0	91.8	91.2	82.7	79.8	83.2	87.9	88.3	81.9	81.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84.5	97.9	79.2	79.8	85.6	86.7	87.1	91.0	96.9	87.5	85.9	85.4	85.9	76.6	79.4

CQS: 84.8



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
4101 K	85.9	25.8	85.6	99.2	84.8	0.375	0.370	0.224	0.332	-0.0015

NOVA FLEX

TM-30 details

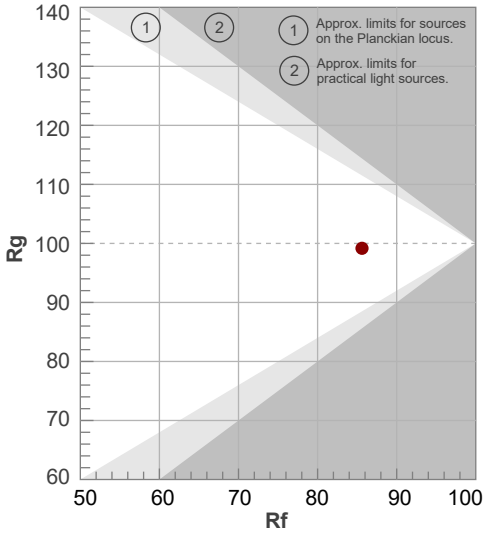
Rf 85.6

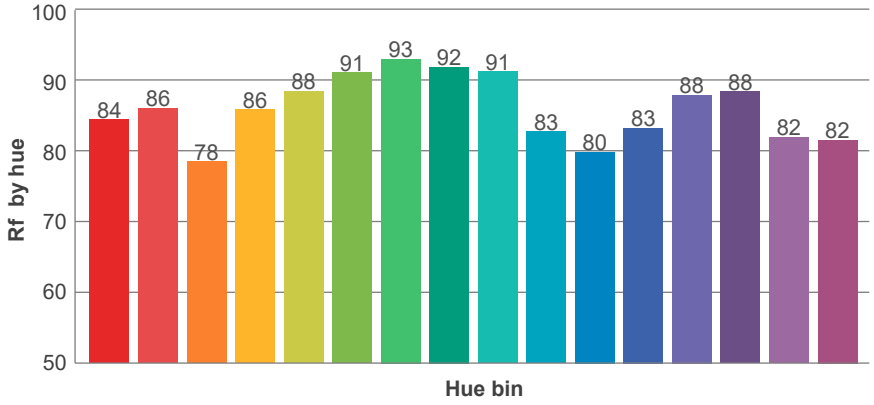
Fidelity index Rf

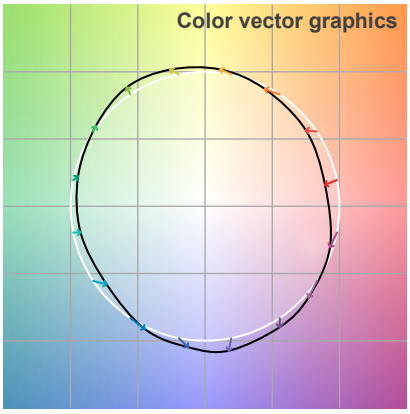
Rg 99.2

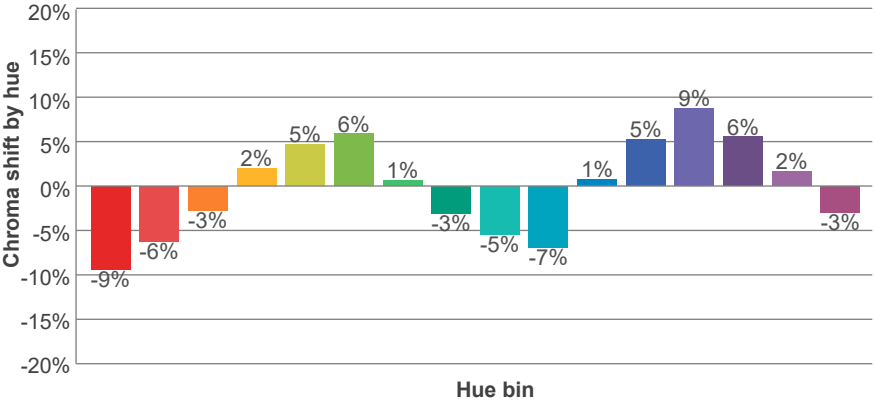
Gamut index Rg

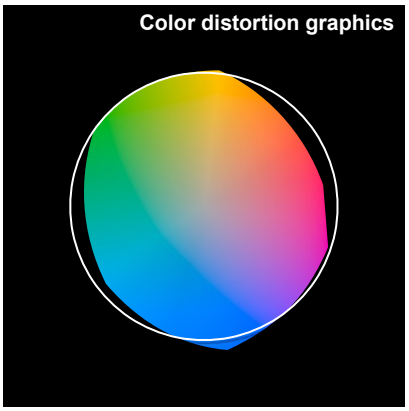
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	84	-9%	-2%
2	86	-6%	5%
3	78	-3%	11%
4	86	2%	9%
5	88	5%	6%
6	91	6%	-1%
7	93	1%	-4%
8	92	-3%	-3%
9	91	-5%	1%
10	83	-7%	8%
11	80	1%	13%
12	83	5%	8%
13	88	9%	-4%
14	88	6%	-4%
15	82	2%	-14%
16	82	-3%	-12%

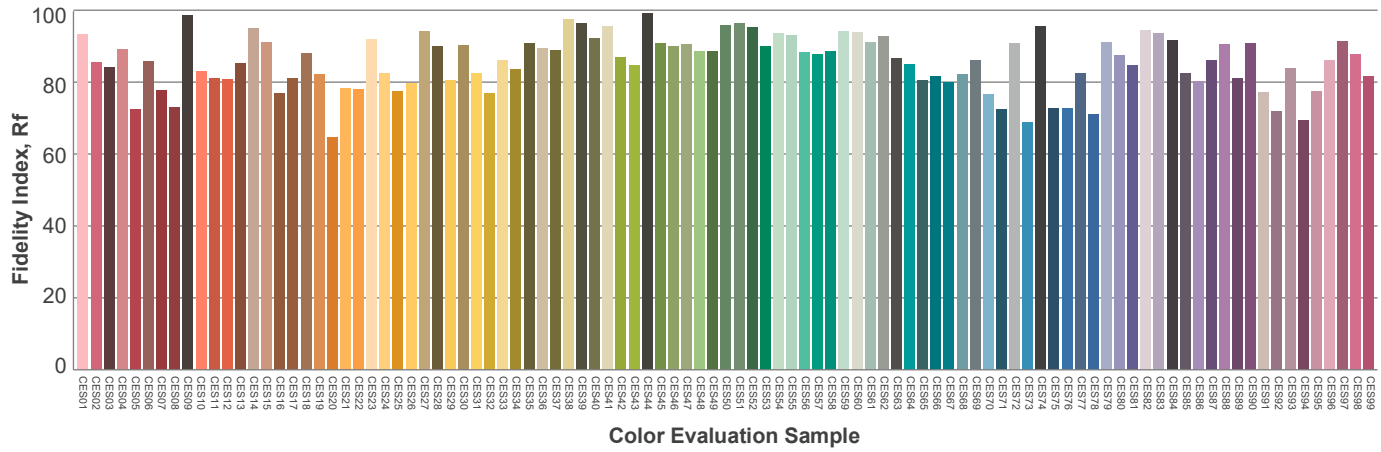






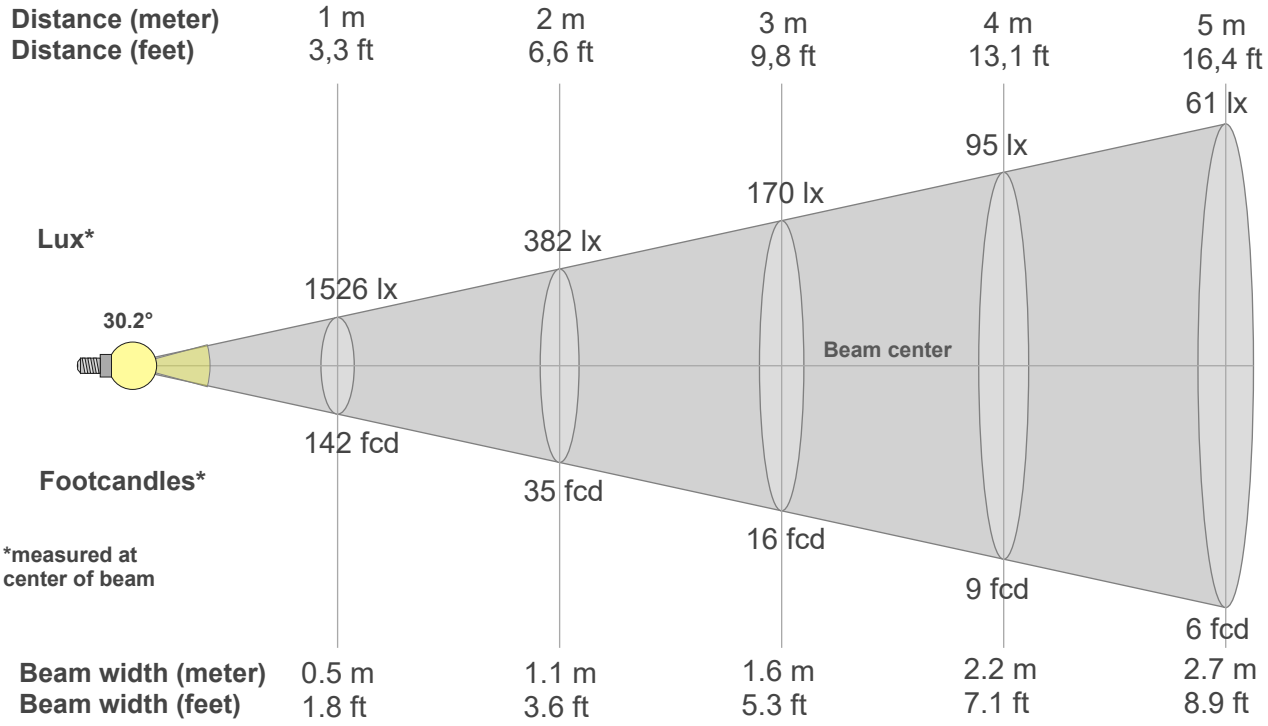






NOVA FLEX

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
1526lx	382lx	170lx	95lx	61lx	42lx	31lx	24lx	19lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
141.8fc	35.4fcd	15.8fcd	8.9fcd	5.7fcd	3.9fcd	2.9fcd	2.2fcd	1.8fcd	1.4fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.4fcd

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°
1526	1519	1491	1444	1383	1305	1214	1115	1009	899	790	685	587	500	421	354	297	249	209	176
100%	100%	98%	95%	91%	86%	80%	73%	66%	59%	52%	45%	38%	33%	28%	23%	19%	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°
1526	1489	1377	1221	1048	884	739	617	516	433	365	309	262	224	191	164	142	124	108	95
100%	98%	90%	80%	69%	58%	48%	40%	34%	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°
1526	1519	1491	1444	1383	1305	1214	1115	1009	899	790	685	587	500	421	354	297	249	209	176
100%	100%	98%	95%	91%	86%	80%	73%	66%	59%	52%	45%	38%	33%	28%	23%	19%	16%	14%	12%

Intensities in 270° c-plane

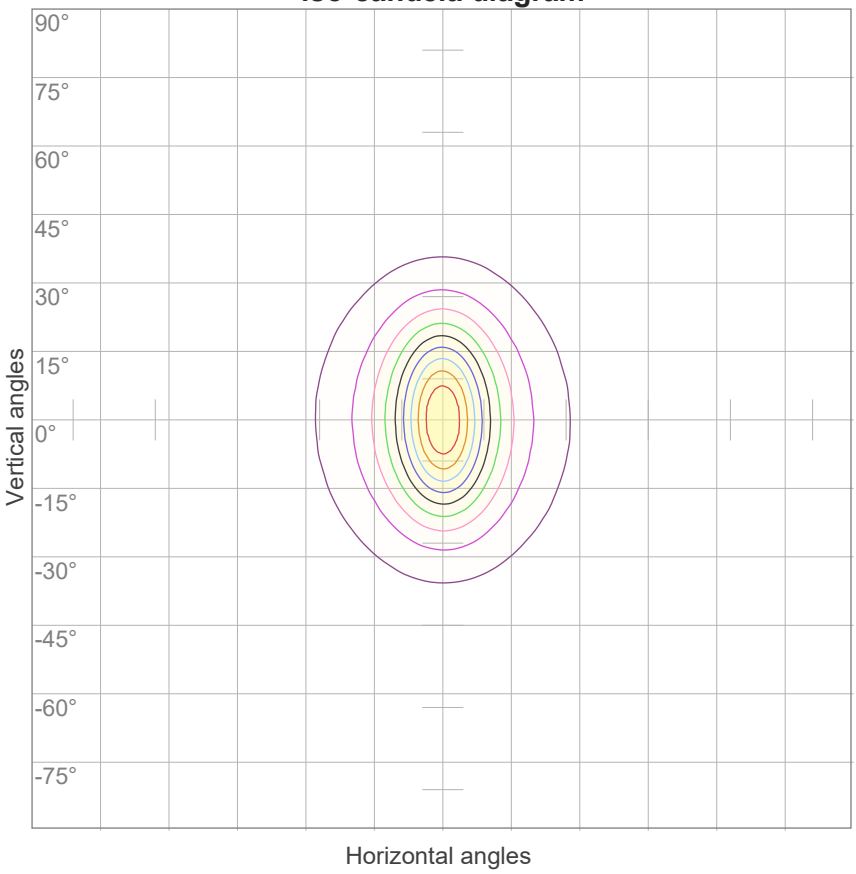
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1526	1489	1377	1221	1048	884	739	617	516	433	365	309	262	224	191	164	142	124	108	95
100%	98%	90%	80%	69%	58%	48%	40%	34%	28%	24%	20%	17%	15%	13%	11%	9%	8%	7%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30.2°	69.5°	115.9°	93.5%	84.3%

NOVA FLEX

Iso Diagrams

iso-candela diagram



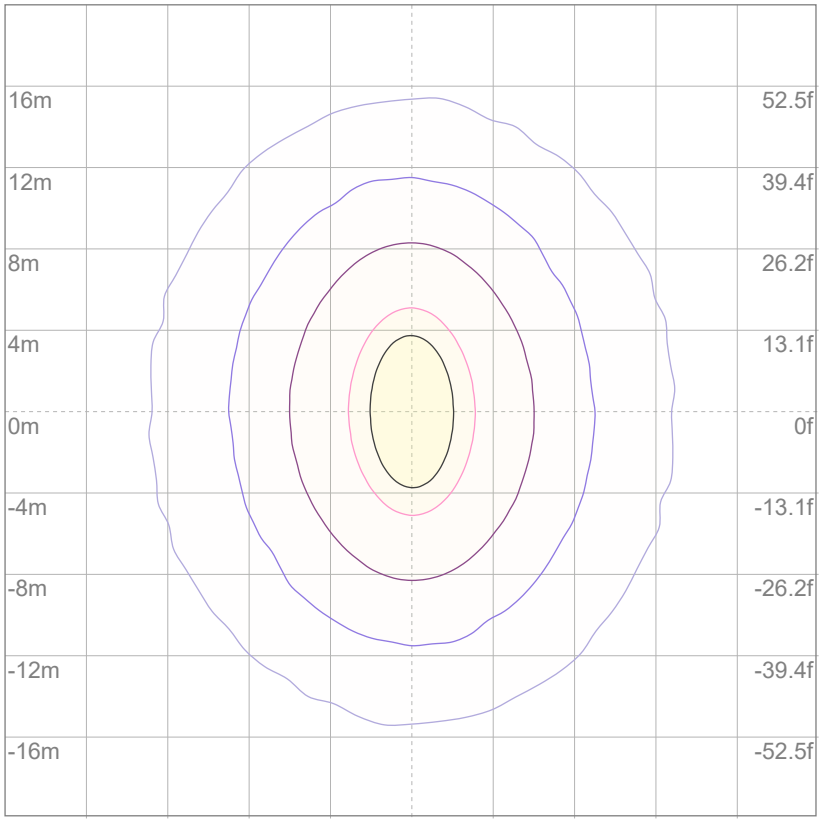
10%	153 cd
20%	305 cd
30%	458 cd
40%	610 cd
50%	763 cd
60%	916 cd
70%	1068 cd
80%	1221 cd
90%	1374 cd

Conditions:

Number of c-planes: 72

Candela at center: 1526 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.458 lx
5%	0.763 lx
10%	1.53 lx
30%	4.58 lx
50%	7.63 lx

Conditions:

Number of c-planes: 72

Lux at center: 15.3 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 745 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	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	88	84	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72
5	90	81	75	71	89	80	75	70	79	74	70	77	72	69	75	71	68	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	82	72	66	62	80	72	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	64	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°
122 lm	211 lm	162 lm	99.5 lm	61.8 lm	40.8 lm	26.4 lm	15.6 lm	5.33 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.267 lm	0.215 lm	0.201 lm	0.182 lm	0.070 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):	247.4	33.2%
Medium(30-60):	101	13.6%
High(60-80):	21.2	2.8%
Very high(80-90):	2.7	0.4%
Back light		
Low(0-30):	247.4	33.2%
Medium(30-60):	101	13.6%
High(60-80):	21.2	2.8%
Very high(80-90):	2.7	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

