NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

68 Lumen/Watt

Light quality:

CRI: 84.3

Color temperature:

2716 K

Output: 547 lm
Peak: 1469 cd

Power: 8.0 W
PF: 1.0

Tracking number: VT250724-001870

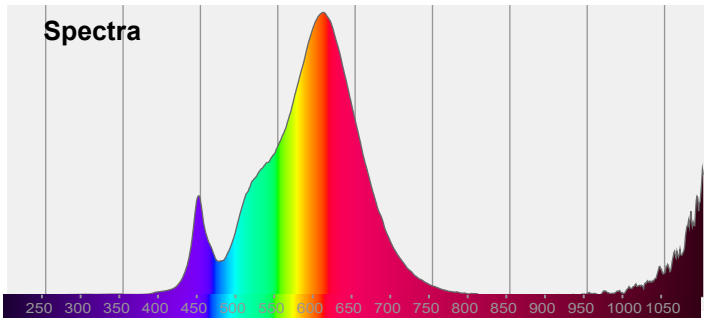
Product name:
GRZ Black 25 24 27

Item number:
1 foot Flex Grazer Black 2700K 25° Optic

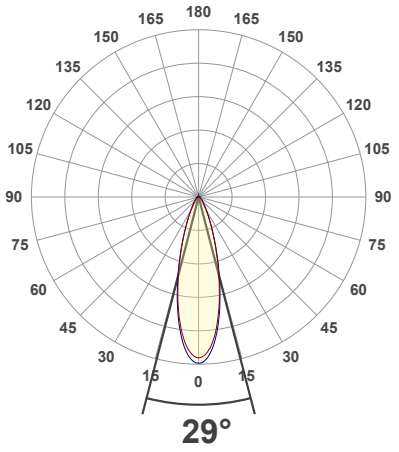
Date and time:
7/24/25 4:05:56 PM

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

Spectra

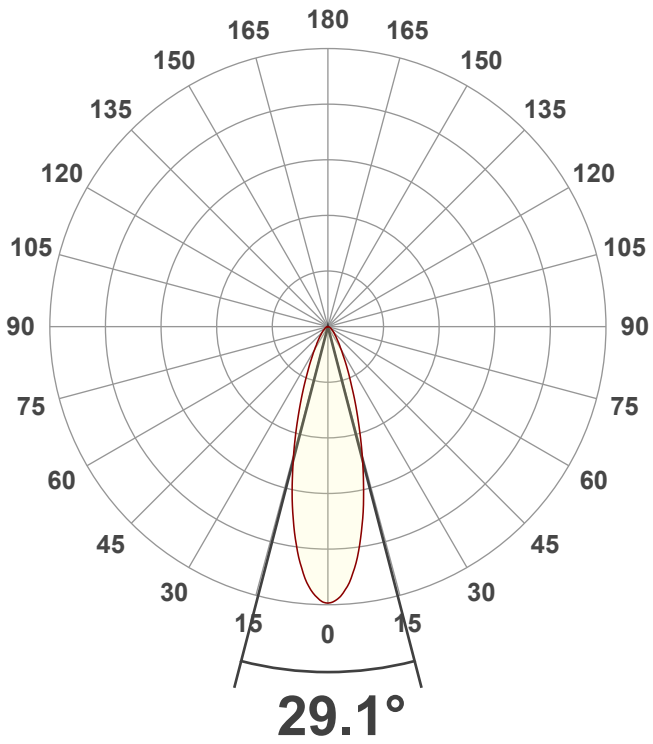


Average Beam Angle

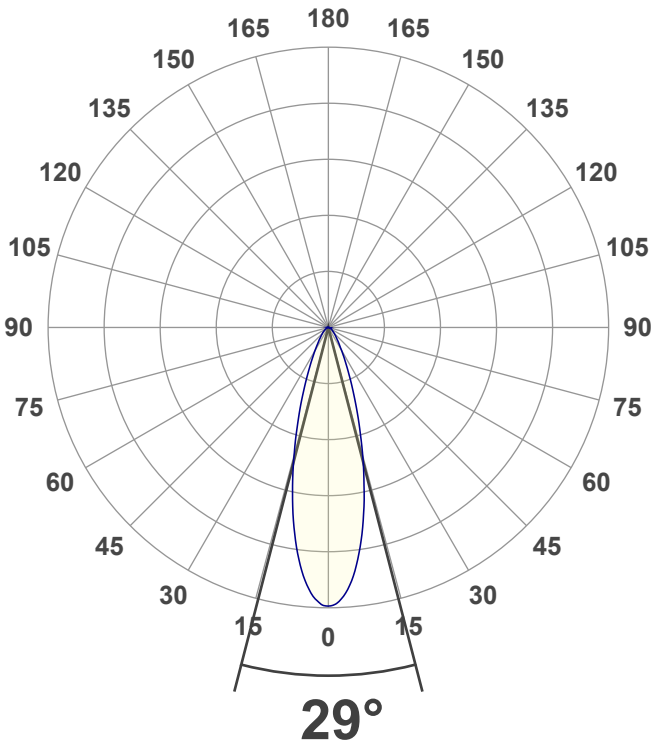


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

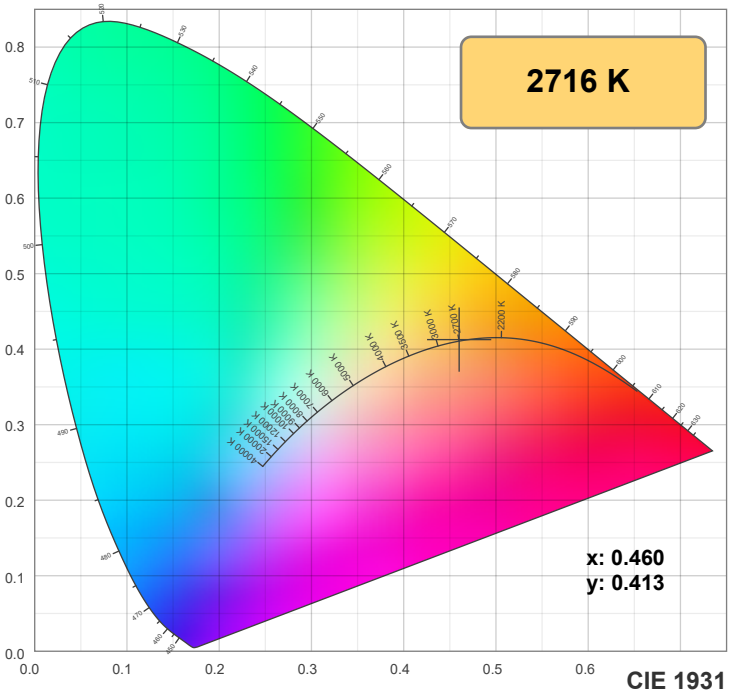


Angular Distribution 90 ° Plane

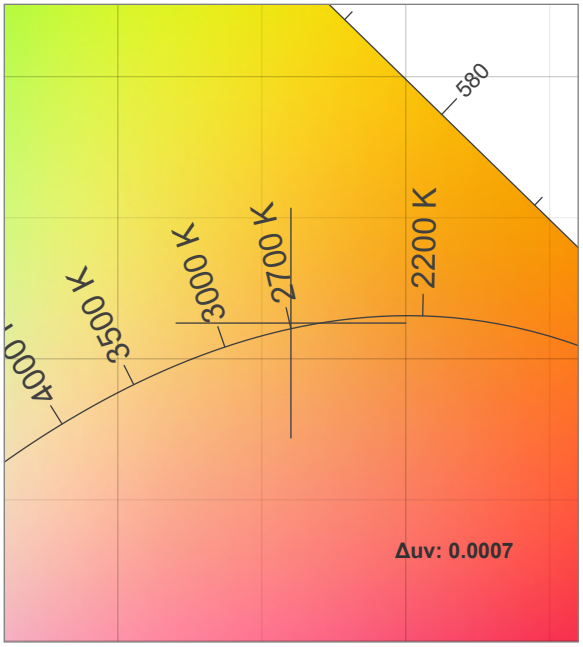


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Color details

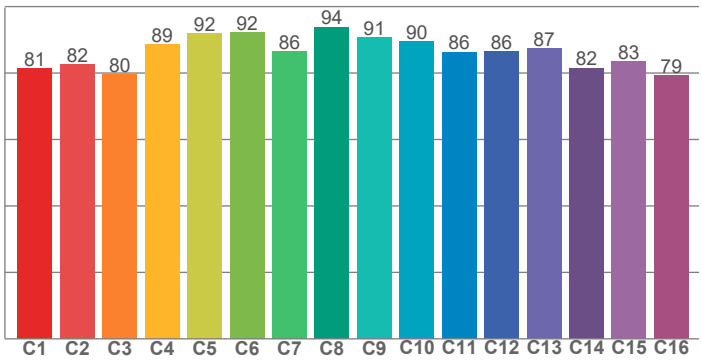


CIE 1931

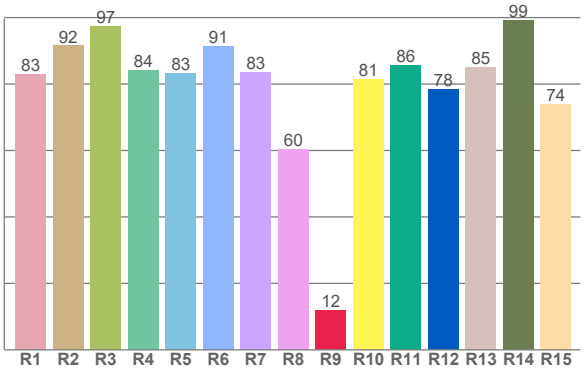


CIE 1931 ZOOM

TM-30: 86.2



CRI: (R1-R8): 84.3



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
82.9	91.5	97.3	84.2	83.3	91.4	83.4	60.2	12.0	81.5	85.6	78.4	84.9	99.2	73.9

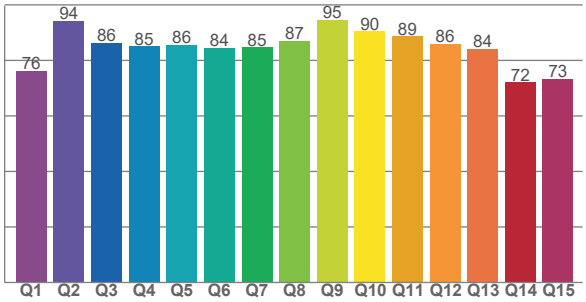
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.3	82.5	79.5	88.5	92.0	92.2	86.4	93.9	90.8	89.5	86.3	86.4	87.4	81.5	83.4	79.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.1	94.2	86.2	85.0	85.6	84.5	84.7	86.9	94.7	90.4	88.6	85.9	84.2	72.1	73.4

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
2716 K	84.3	12.0	86.2	97.5	83.3	0.460	0.413	0.262	0.352	0.0007

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TM-30 details

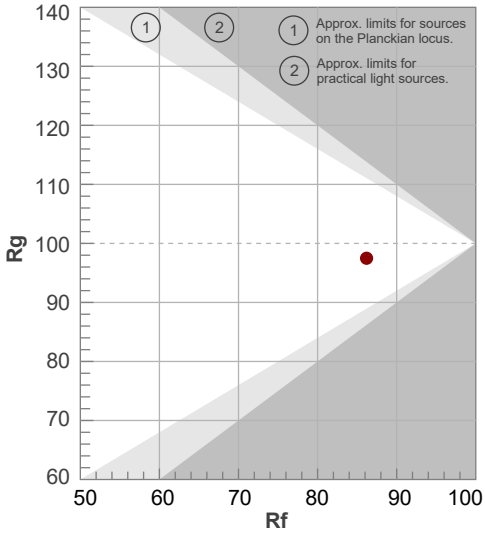
Rf 86.2

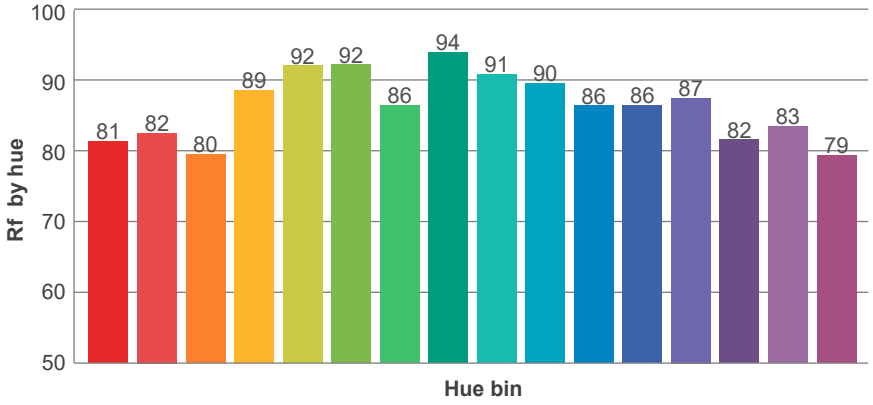
Fidelity index Rf

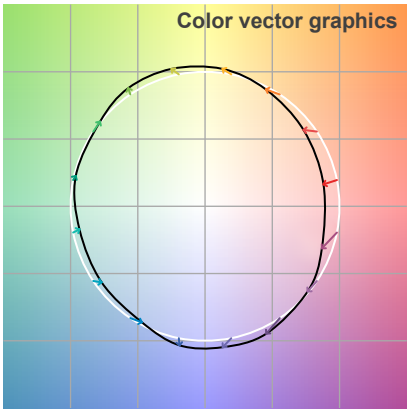
Rg 97.5

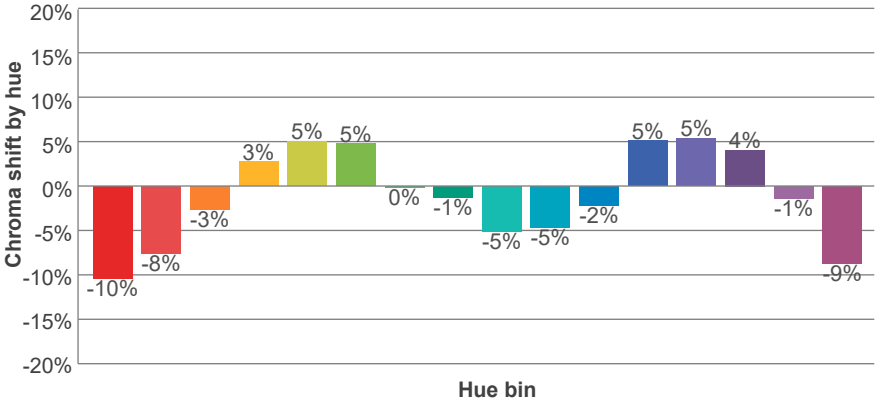
Gamut index Rg

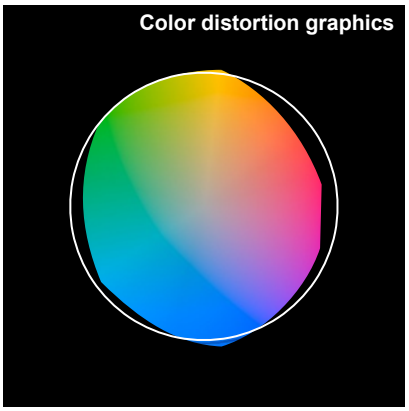
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	81	-10%	-1%
2	82	-8%	7%
3	80	-3%	11%
4	89	3%	7%
5	92	5%	5%
6	92	5%	-1%
7	86	0%	-9%
8	94	-1%	-3%
9	91	-5%	-1%
10	90	-5%	4%
11	86	-2%	9%
12	86	5%	2%
13	87	5%	-8%
14	82	4%	-15%
15	83	-1%	-10%
16	79	-9%	-14%

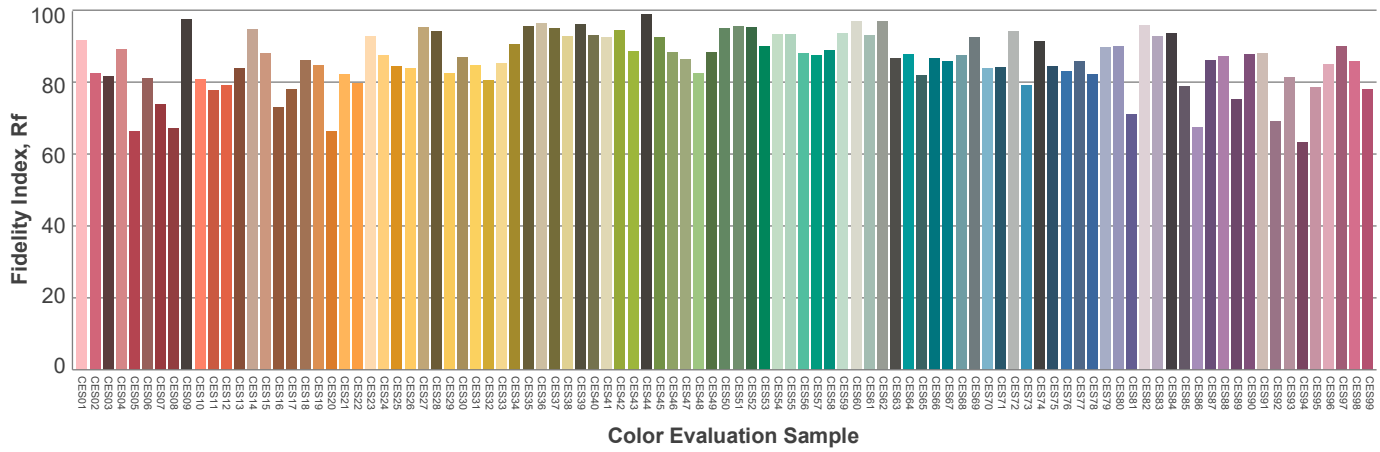






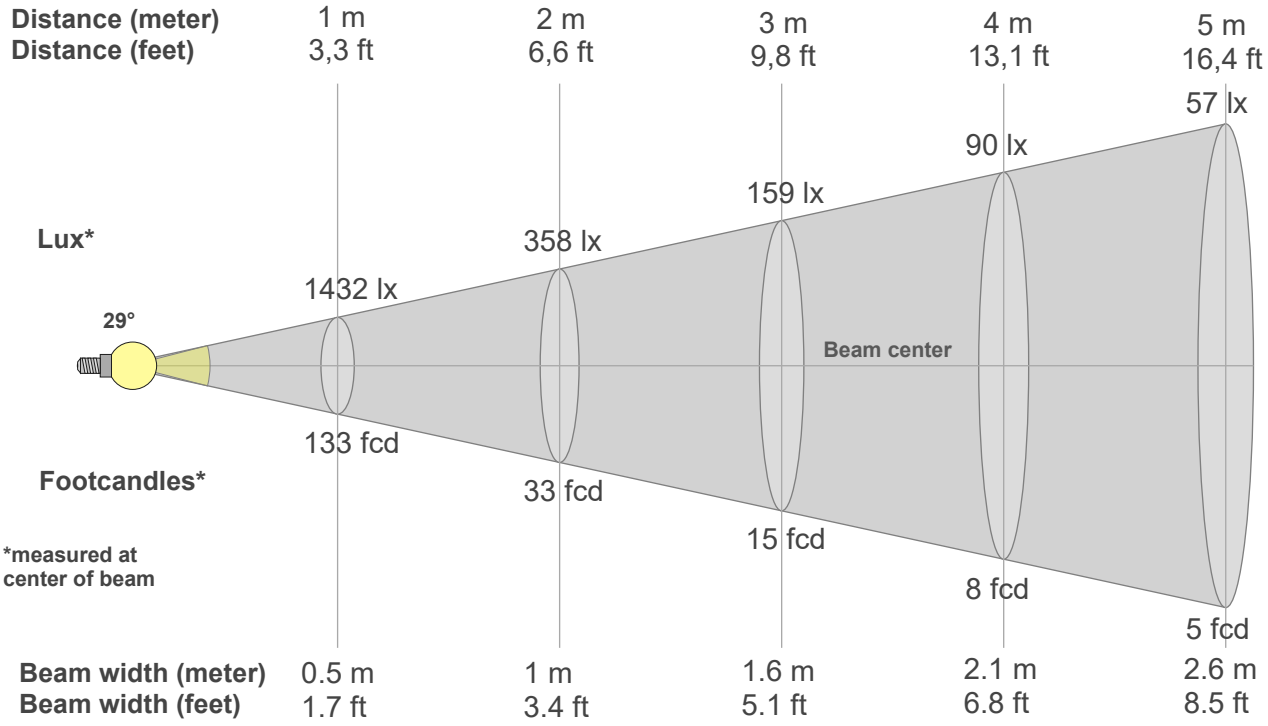






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Beam details



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
1432lx	358lx	159lx	90lx	57lx	40lx	29lx	22lx	18lx	14lx	12lx	10lx	8lx	7lx	6lx	6lx	5lx	4lx	4lx	4lx
133.1fc	33.3fcd	14.8fcd	8.3fcd	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°
1432	1402	1348	1263	1151	1021	883	746	618	502	405	321	260	208	166	137	115	96	80	69
100%	98%	94%	88%	80%	71%	62%	52%	43%	35%	28%	22%	18%	15%	12%	10%	8%	7%	6%	5%

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°
1432	1449	1393	1303	1186	1053	909	768	636	516	418	332	265	214	172	142	117	97	84	70
100%	101%	97%	91%	83%	73%	63%	54%	44%	36%	29%	23%	19%	15%	12%	10%	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°
1432	1400	1346	1259	1148	1019	885	745	619	504	406	325	259	210	169	138	113	97	82	70
100%	98%	94%	88%	80%	71%	62%	52%	43%	35%	28%	23%	18%	15%	12%	10%	8%	7%	6%	5%

Intensities in 270° c-plane

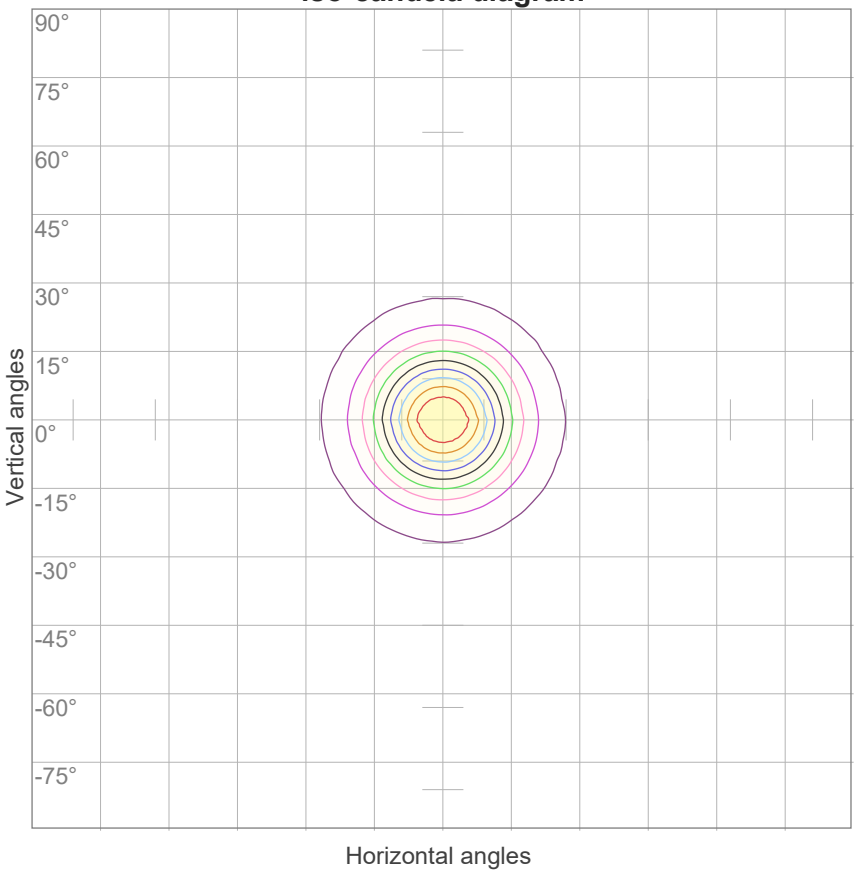
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1432	1450	1393	1303	1184	1051	909	767	634	516	413	330	262	210	171	138	113	96	81	69
100%	101%	97%	91%	83%	73%	63%	54%	44%	36%	29%	23%	18%	15%	12%	10%	8%	7%	6%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29°	59.2°	95.6°	95.8%	89.3%

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Iso Diagrams

iso-candela diagram



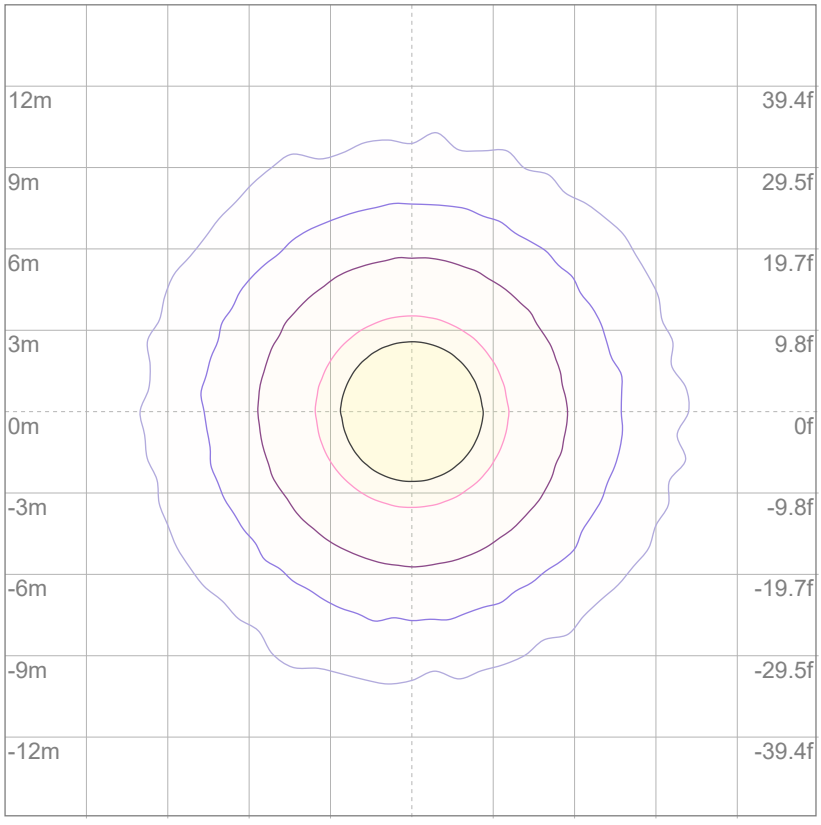
10%	143 cd
20%	286 cd
30%	430 cd
40%	573 cd
50%	716 cd
60%	859 cd
70%	1003 cd
80%	1146 cd
90%	1289 cd

Conditions:

Number of c-planes: 72

Candela at center: 1432 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.430 lx
5%	0.716 lx
10%	1.43 lx
30%	4.30 lx
50%	7.16 lx

Conditions:

Number of c-planes: 72

Lux at center: 14.3 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 547 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	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	98	94	98	95	92	95	93	90	92	90	88	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	80	76	83	79	75	81	78	74	80	77	74	72
6	90	81	76	72	88	81	75	71	79	74	71	78	74	71	76	73	70	69
7	86	77	72	68	85	77	72	68	76	71	67	74	70	67	73	70	67	65
8	83	74	68	65	82	73	68	64	72	68	64	71	67	64	70	67	64	62
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	59	57

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
116 lm	187 lm	110 lm	56.4 lm	33.5 lm	20.8 lm	12.3 lm	7.09 lm	3.29 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.081 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):	206.6	37.8%
Medium(30-60):	55.2	10.1%
High(60-80):	10	1.8%
Very high(80-90):	1.8	0.3%
Back light		
Low(0-30):	206.7	37.8%
Medium(30-60):	55.4	10.1%
High(60-80):	9.8	1.8%
Very high(80-90):	1.7	0.3%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

