NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

77 Lumen/Watt

Light quality:

CRI: 84.2

Color temperature:

2719 K

Output: 623 lm
Peak: 1379 cd

Power: 8.1 W
PF: 1.0

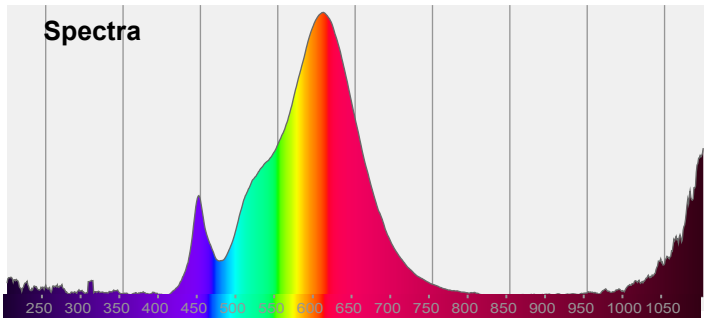
Tracking number: VT250725-005228

Product name:
GRZ Black 24 24 27

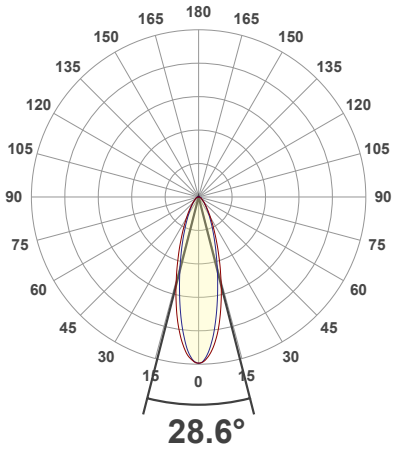
Item number:
1 foot Flex Grazer Black 2700K 24°

Date and time:
7/25/25 2:14:53 PM

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

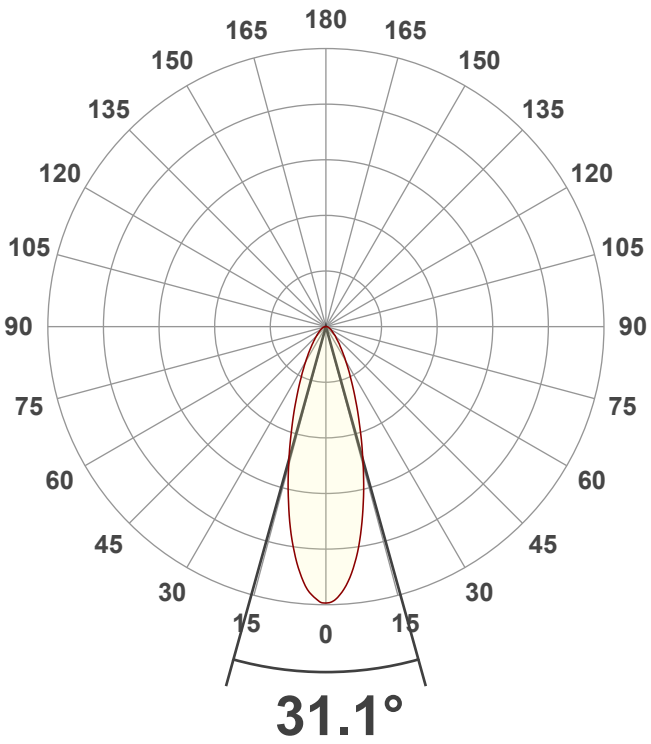


Average Beam Angle

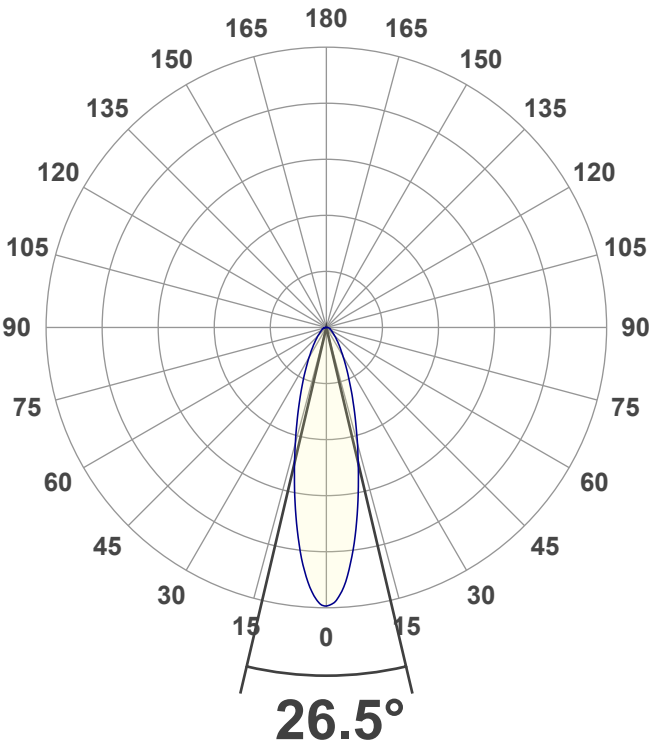


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

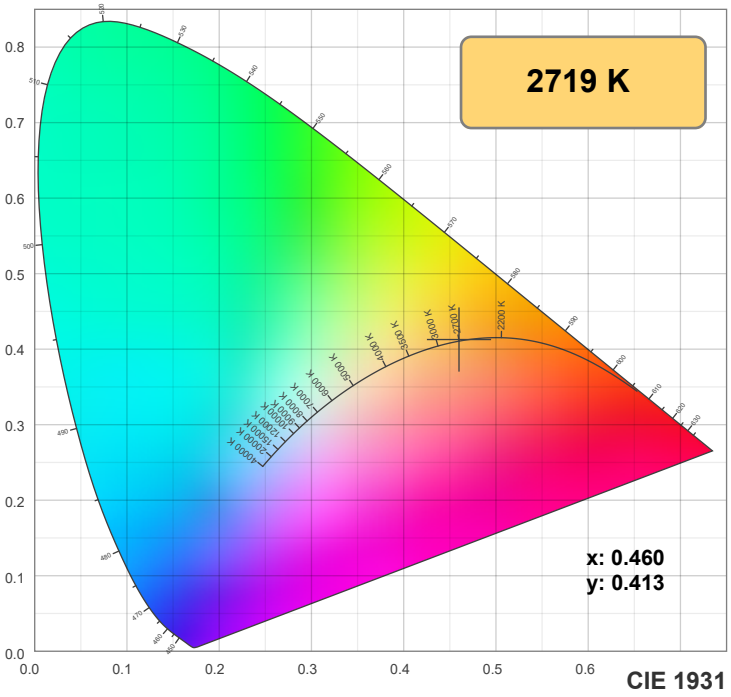


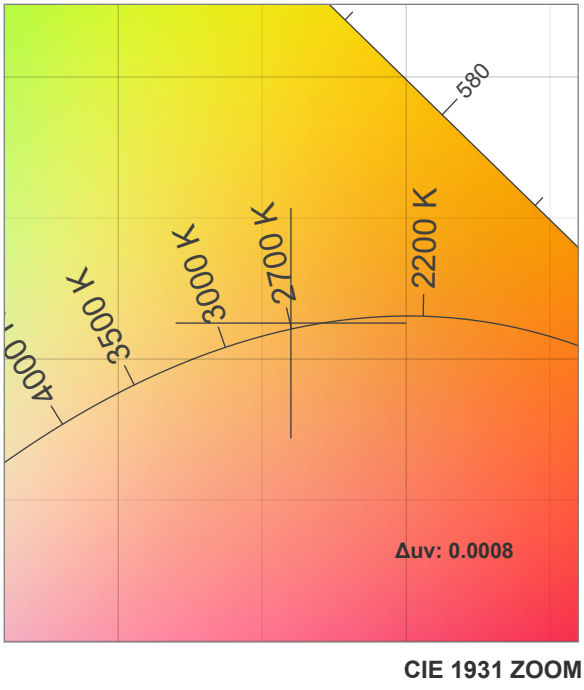
Angular Distribution 90 ° Plane



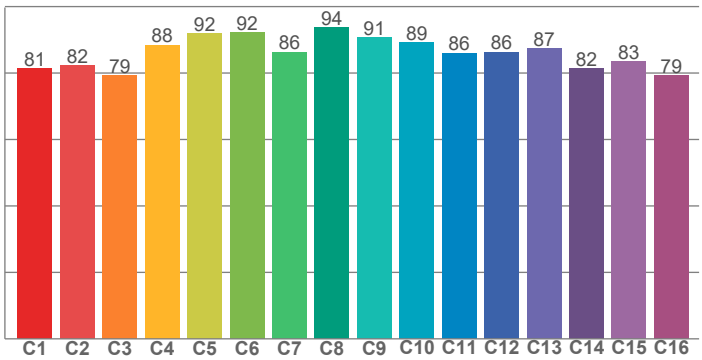
NOVA FLEX

Color details

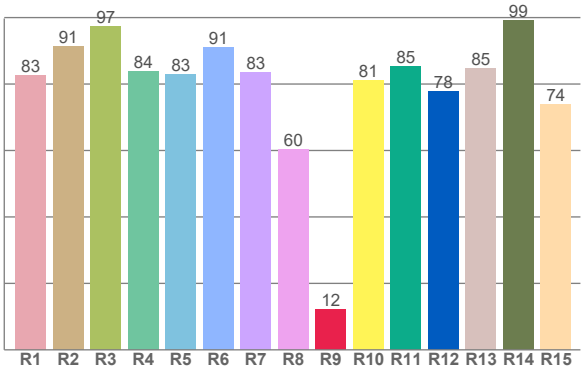




TM-30: 86.1



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	83.9	83.0	91.1	83.5	60.3	12.1	81.1	85.2	77.8	84.7	99.2	73.8

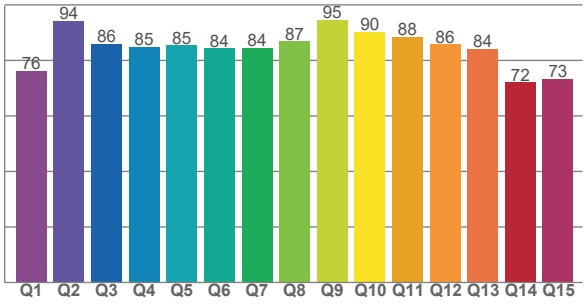
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.3	82.4	79.3	88.5	92.0	92.2	86.4	93.8	90.6	89.3	86.1	86.3	87.5	81.5	83.4	79.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.2	94.2	86.0	84.8	85.4	84.3	84.5	86.8	94.7	90.3	88.5	85.7	84.1	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
2719 K	84.2	12.1	86.1	97.4	83.3	0.460	0.413	0.262	0.352	0.0008

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TM-30 details

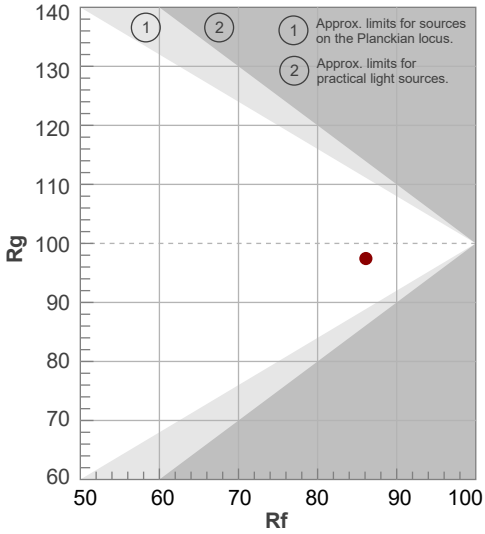
Rf 86.1

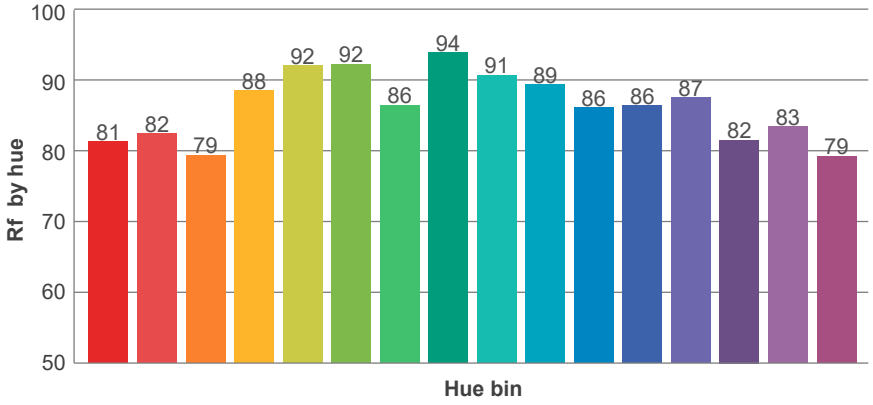
Fidelity index Rf

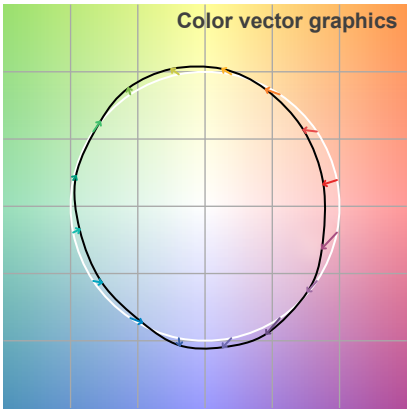
Rg 97.4

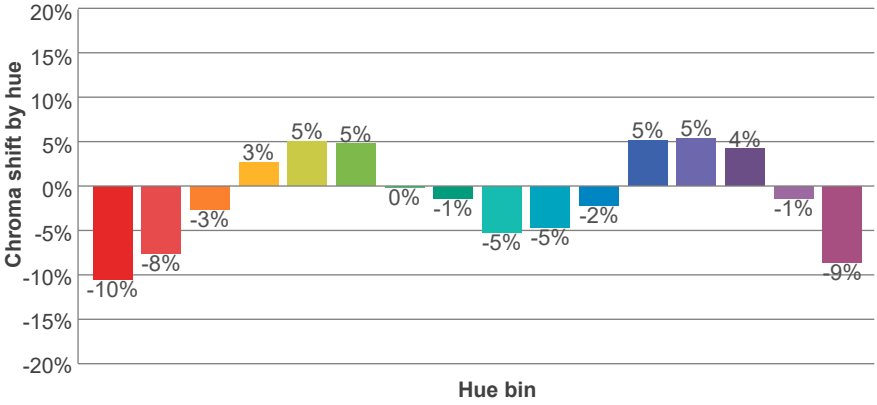
Gamut index Rg

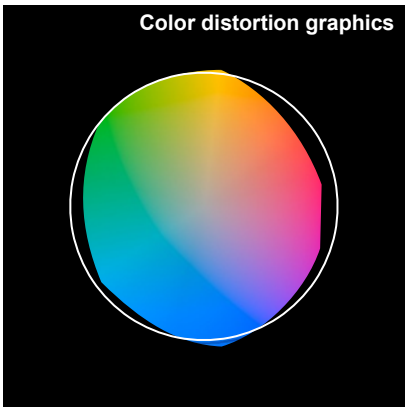
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	81	-10%	-1%
2	82	-8%	7%
3	79	-3%	11%
4	88	3%	7%
5	92	5%	5%
6	92	5%	-1%
7	86	0%	-9%
8	94	-1%	-3%
9	91	-5%	-1%
10	89	-5%	4%
11	86	-2%	9%
12	86	5%	2%
13	87	5%	-7%
14	82	4%	-15%
15	83	-1%	-10%
16	79	-9%	-14%

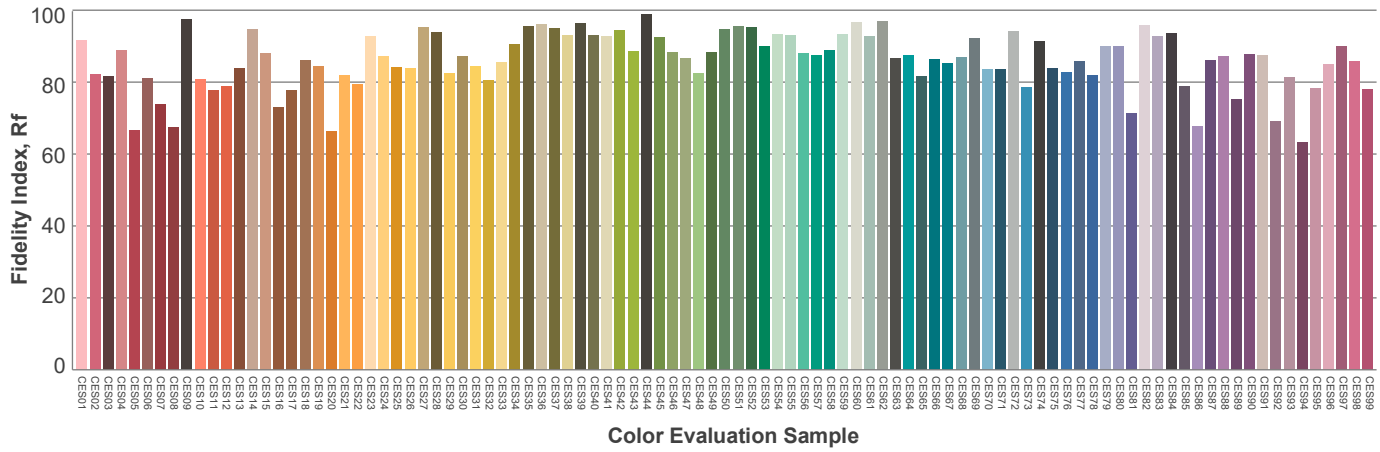






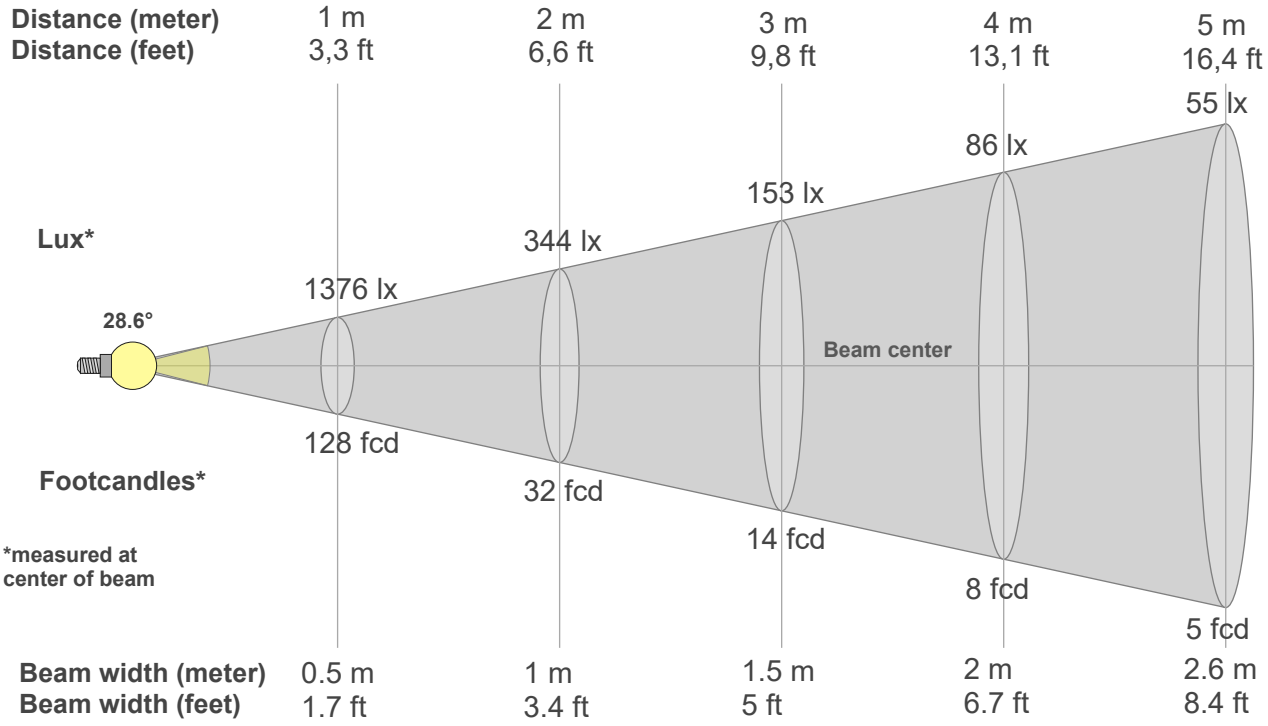






NOVA FLEX

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
1376lx	344lx	153lx	86lx	55lx	38lx	28lx	22lx	17lx	14lx	11lx	10lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
127.9fc	32fcd	14.2fcd	8fcd	5.1fcd	3.6fcd	2.6fcd	2fcd	1.6fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	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°
1376	1360	1308	1232	1134	1017	896	776	662	561	472	395	331	277	235	197	167	142	121	106
100%	99%	95%	90%	82%	74%	65%	56%	48%	41%	34%	29%	24%	20%	17%	14%	12%	10%	9%	8%

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°
1376	1348	1269	1157	1023	888	759	645	546	460	388	328	279	236	200	172	147	125	109	94
100%	98%	92%	84%	74%	65%	55%	47%	40%	33%	28%	24%	20%	17%	15%	12%	11%	9%	8%	7%

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°
1376	1358	1313	1233	1132	1019	895	776	663	560	474	397	335	280	237	202	171	147	125	108
100%	99%	95%	90%	82%	74%	65%	56%	48%	41%	34%	29%	24%	20%	17%	15%	12%	11%	9%	8%

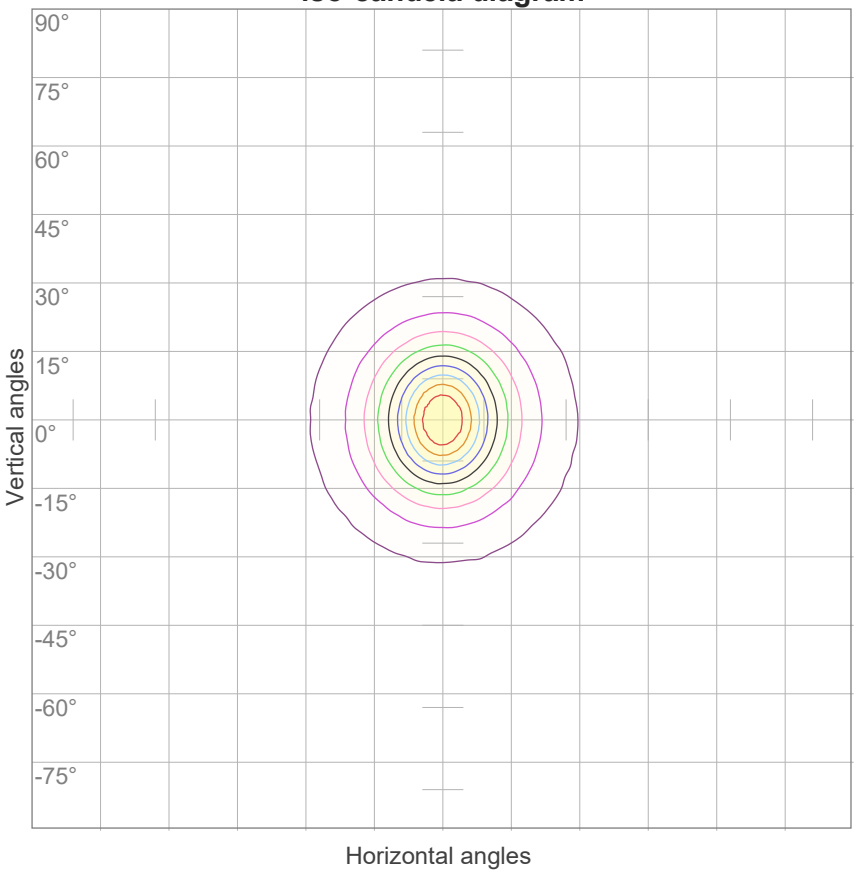
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1376	1352	1278	1161	1031	894	762	645	544	457	383	321	270	229	194	165	140	122	106	92
100%	98%	93%	84%	75%	65%	55%	47%	40%	33%	28%	23%	20%	17%	14%	12%	10%	9%	8%	7%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28.6°	67.1°	110.5°	92.6%	84.1%

Iso Diagrams

iso-candela diagram



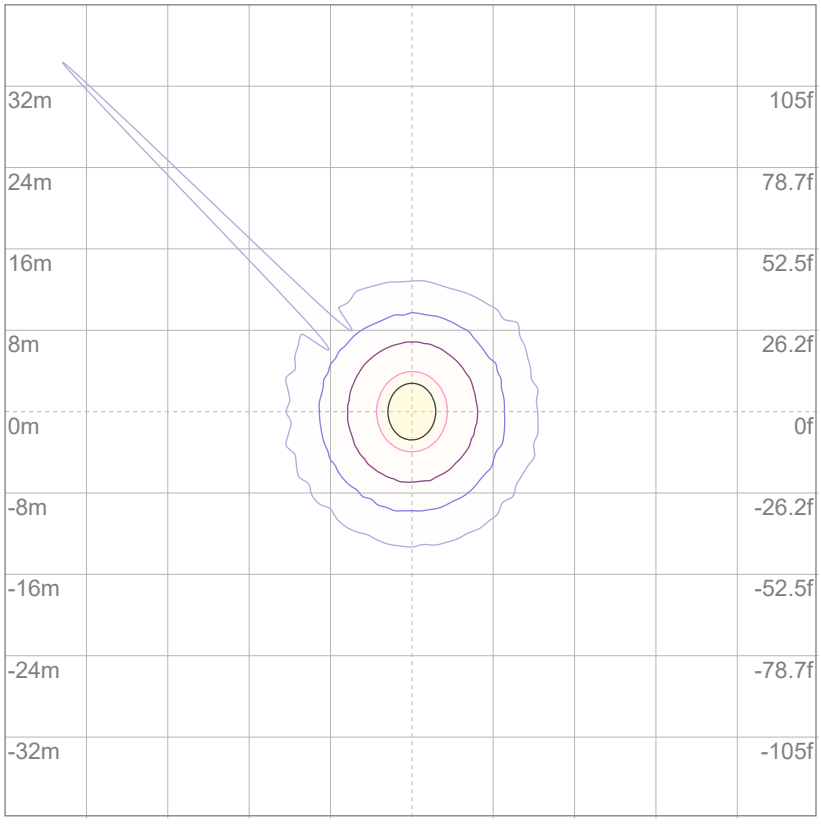
10%	138 cd
20%	275 cd
30%	413 cd
40%	551 cd
50%	688 cd
60%	826 cd
70%	963 cd
80%	1101 cd
90%	1239 cd

Conditions:

Number of c-planes: 72

Candela at center: 1376 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.413 lx
5%	0.688 lx
10%	1.38 lx
30%	4.13 lx
50%	6.88 lx

Conditions:

Number of c-planes: 72

Lux at center: 13.8 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
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 623 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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83
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	84	79	75	82	78	74	80	76	73	72
5	90	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67
6	86	77	71	66	85	76	70	66	75	69	65	73	69	65	72	68	65	63
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
109 lm	180 lm	129 lm	78.6 lm	48.4 lm	31.8 lm	22.0 lm	15.2 lm	8.64 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.172 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):	208.7	33.5%
Medium(30-60):	78.5	12.6%
High(60-80):	18.5	3%
Very high(80-90):	4.4	0.7%
Back light		
Low(0-30):	209.3	33.6%
Medium(30-60):	80.2	12.9%
High(60-80):	19	3%
Very high(80-90):	4.3	0.7%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

