NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

92 Lumen/Watt

Light quality:

CRI: 85.7

Color temperature:

4101 K

Output: 740 lm
Peak: 2080 cd

Power: 8.0 W
PF: 1.0

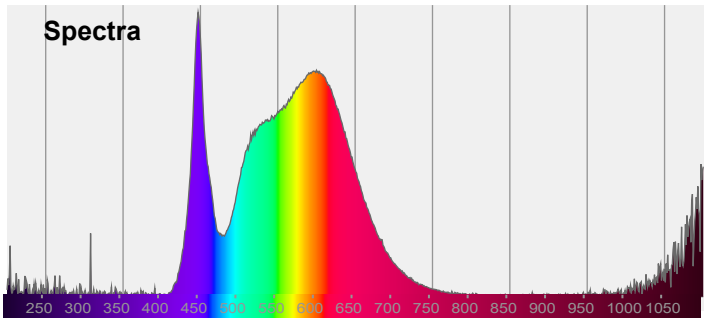
Tracking number: VT250723-003732

Product name:
GRZ White 15x25 24 40

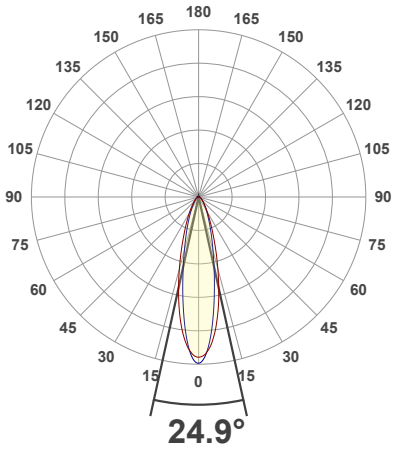
Item number:
1 foot Flex Grazer White 4000K 15° x 25° Optic

Date and time:
7/23/25 8:54:50 AM

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

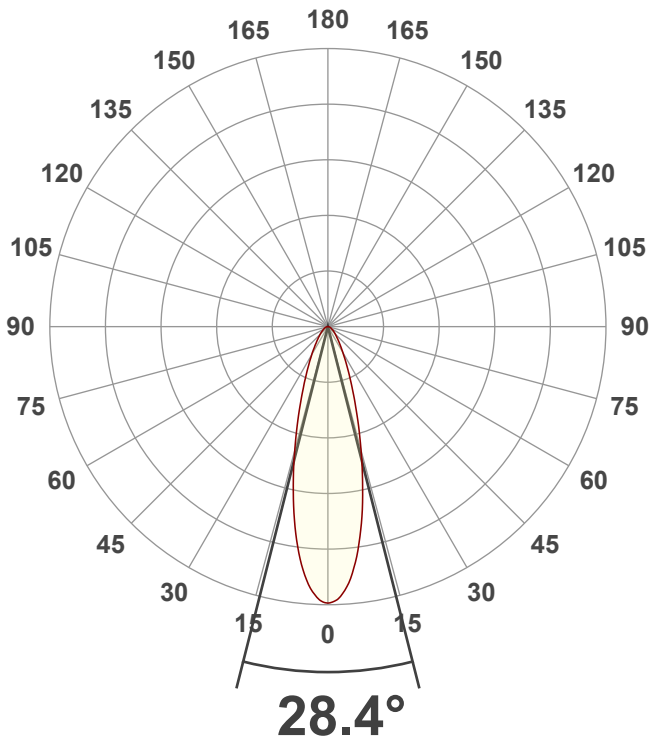


Average Beam Angle

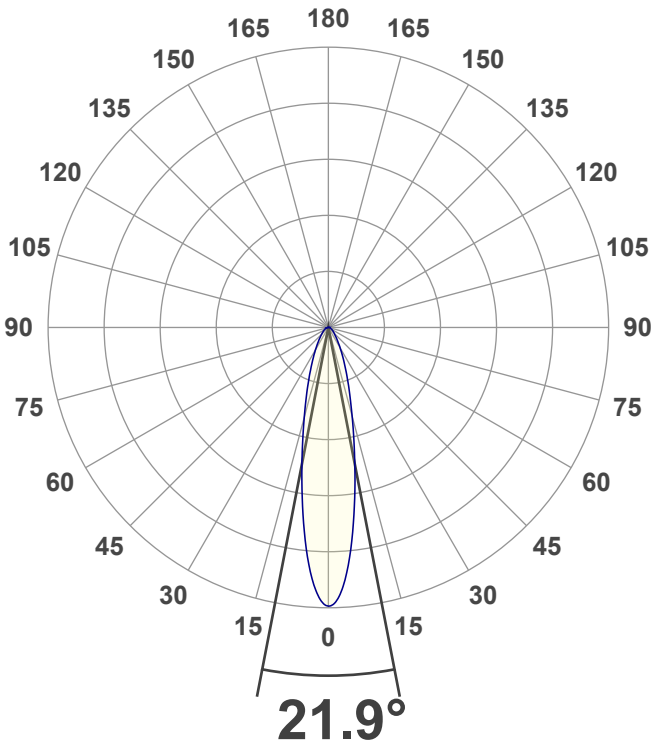


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

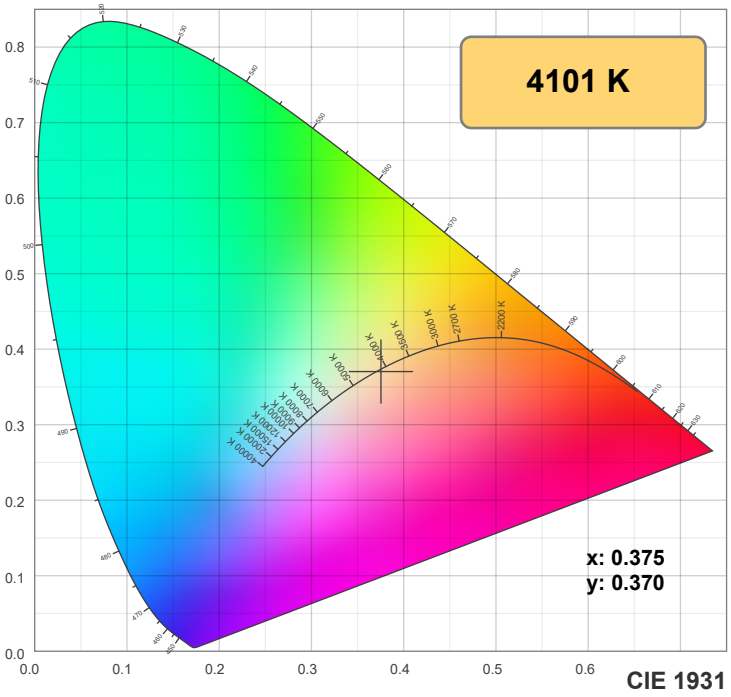


Angular Distribution 90 ° Plane

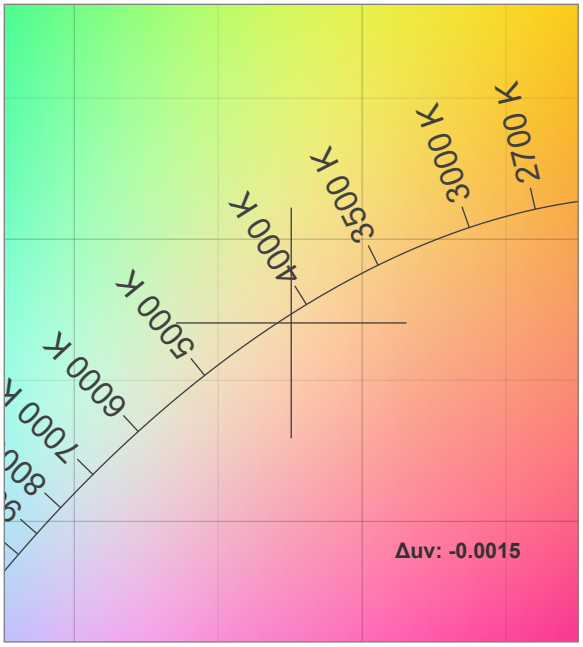


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Color details

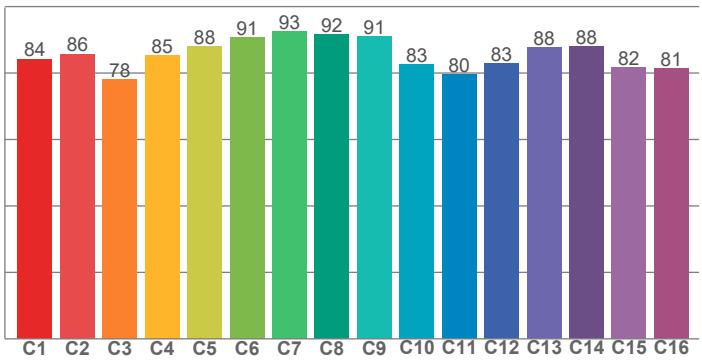


CIE 1931

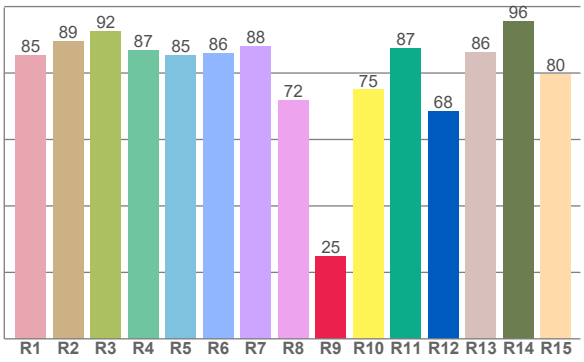


CIE 1931 ZOOM

TM-30: 85.4



CRI: (R1-R8): 85.7



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
85.4	89.4	92.5	86.9	85.5	85.8	88.0	71.8	24.8	74.9	87.5	68.4	86.3	95.7	79.6

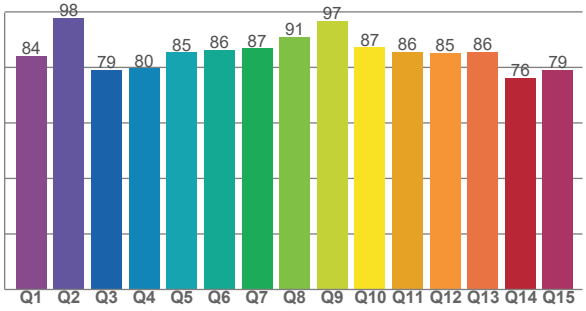
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
84.2	85.8	78.0	85.2	88.0	90.6	92.6	91.6	91.1	82.5	79.7	82.9	87.8	88.1	81.8	81.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84.3	97.8	79.0	79.7	85.4	86.4	86.8	90.9	96.8	87.2	85.6	85.2	85.6	76.3	79.1

CQS: 84.6



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	85.7	24.8	85.4	99.2	84.6	0.375	0.370	0.224	0.332	-0.0015

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TM-30 details

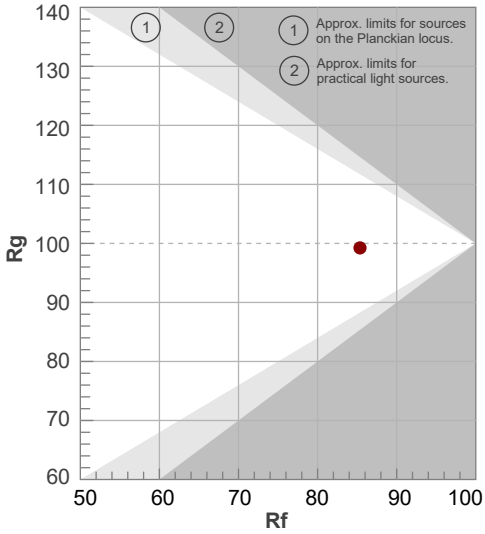
Rf 85.4

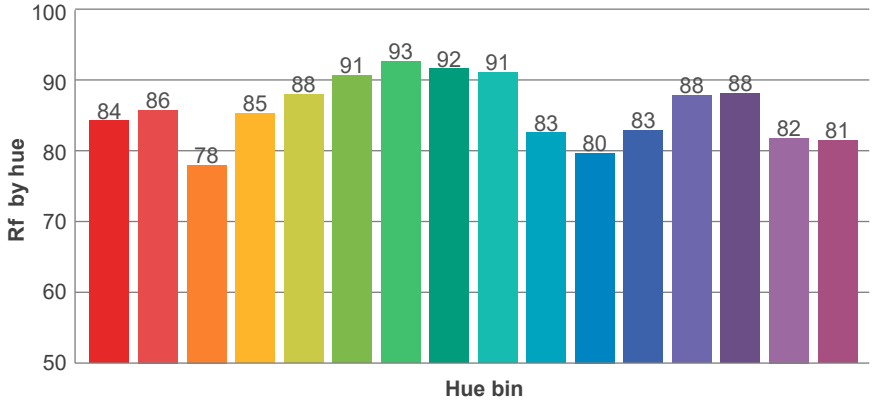
Fidelity index Rf

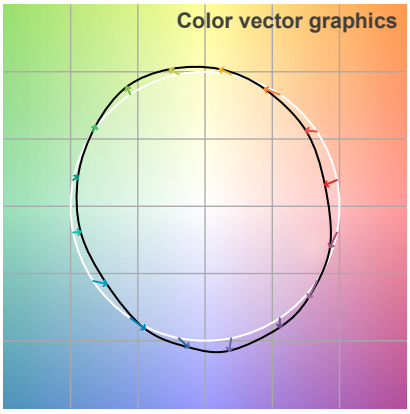
Rg 99.2

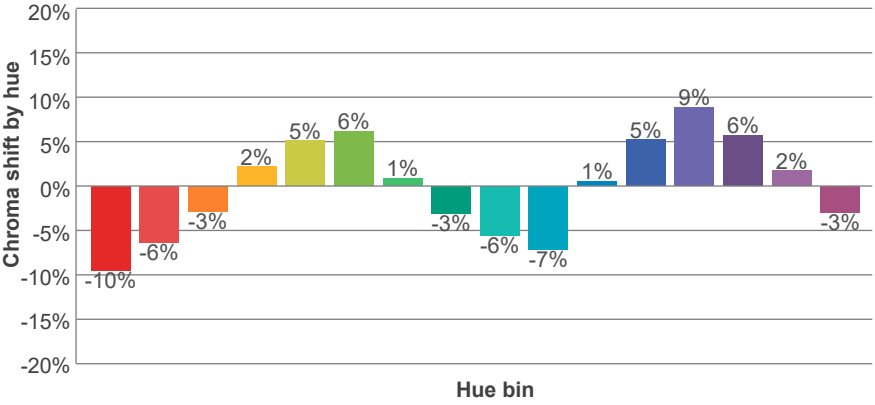
Gamut index Rg

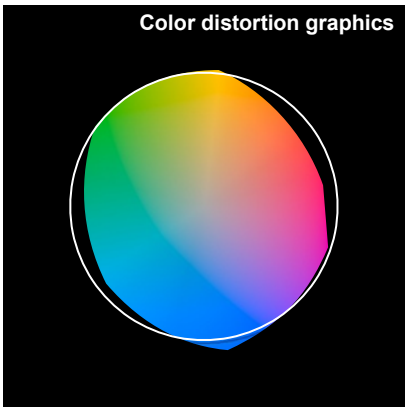
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	84	-10%	-2%
2	86	-6%	5%
3	78	-3%	12%
4	85	2%	9%
5	88	5%	6%
6	91	6%	-1%
7	93	1%	-5%
8	92	-3%	-4%
9	91	-6%	1%
10	83	-7%	7%
11	80	1%	14%
12	83	5%	8%
13	88	9%	-3%
14	88	6%	-4%
15	82	2%	-14%
16	81	-3%	-12%

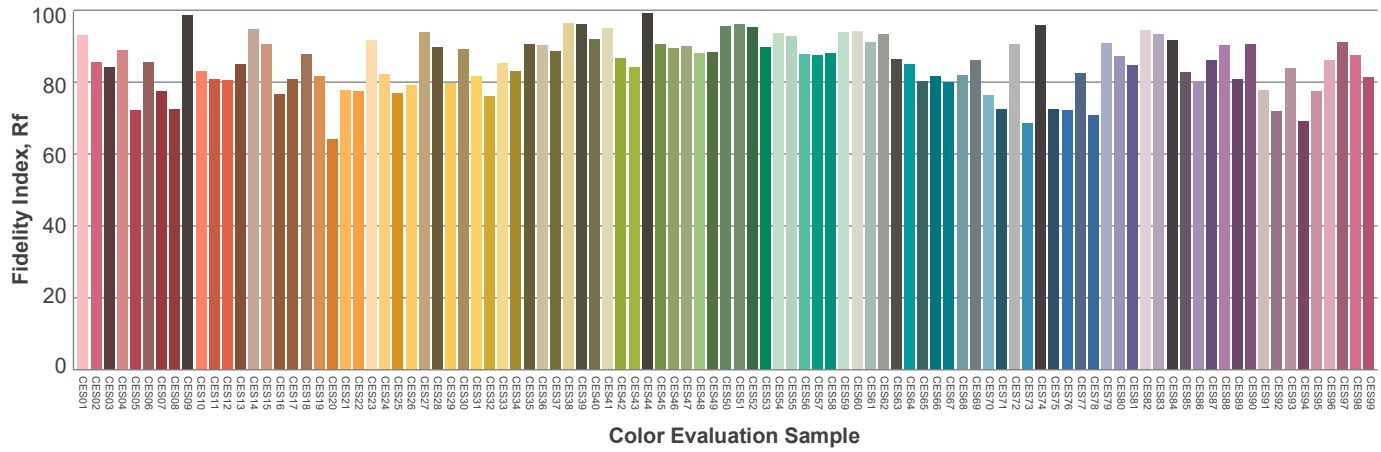






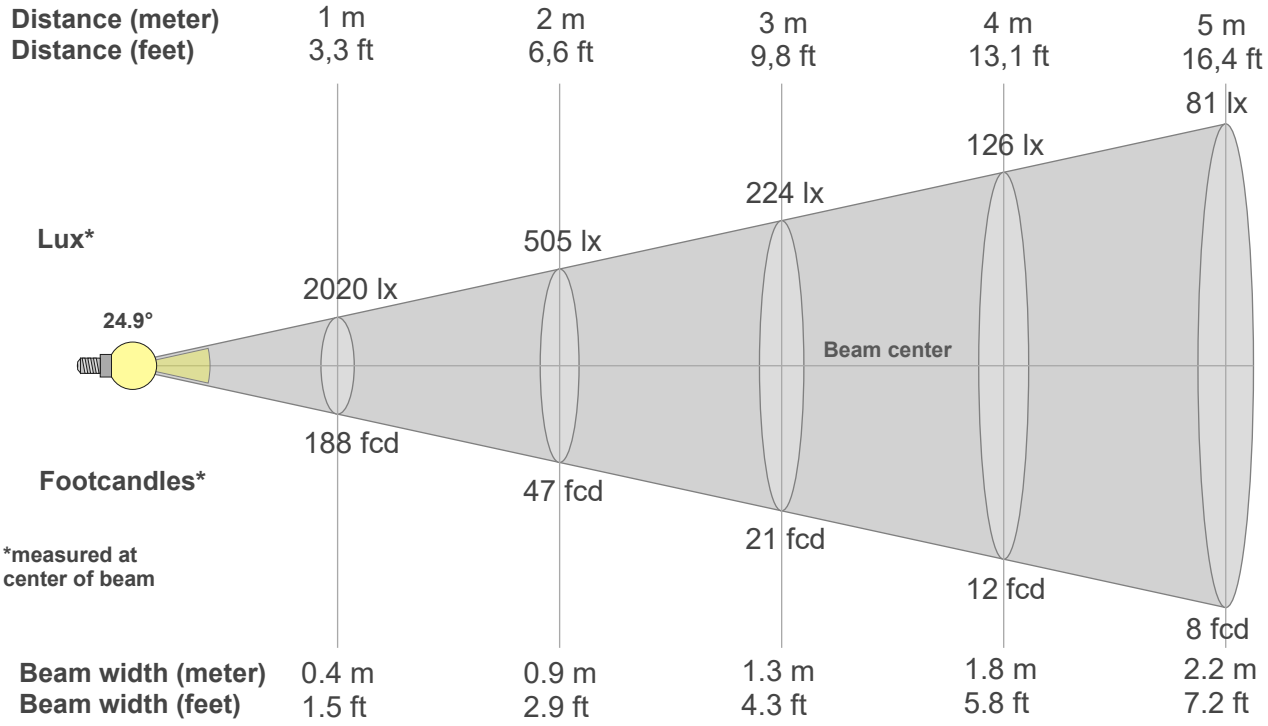






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Beam details



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
2020lx	505lx	224lx	126lx	81lx	56lx	41lx	32lx	25lx	20lx	17lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	6lx	5lx
187.6fc	46.9fcd	20.8fcd	11.7fcd	7.5fcd	5.2fcd	3.8fcd	2.9fcd	2.3fcd	1.9fcd	1.6fcd	1.3fcd	1.1fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.5fcd

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°
2020	1955	1876	1748	1583	1398	1197	1008	834	683	558	455	374	308	256	215	182	156	134	116
100%	97%	93%	87%	78%	69%	59%	50%	41%	34%	28%	23%	19%	15%	13%	11%	9%	8%	7%	6%

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°
2020	1988	1827	1604	1358	1126	926	759	626	520	433	364	306	259	222	190	163	141	122	107
100%	98%	90%	79%	67%	56%	46%	38%	31%	26%	21%	18%	15%	13%	11%	9%	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°
2020	1951	1869	1739	1575	1388	1193	1008	836	691	566	466	387	324	274	231	196	167	142	124
100%	97%	93%	86%	78%	69%	59%	50%	41%	34%	28%	23%	19%	16%	14%	11%	10%	8%	7%	6%

Intensities in 270° c-plane

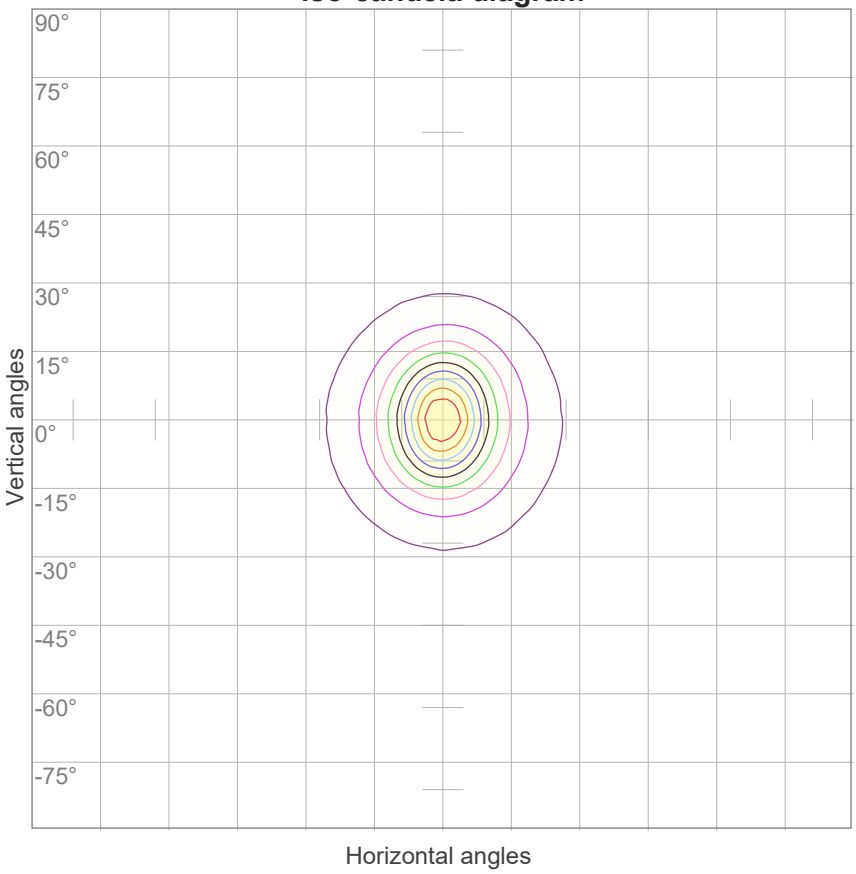
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2020	1999	1840	1615	1365	1131	922	752	612	505	418	348	290	244	206	173	146	125	108	94
100%	99%	91%	80%	68%	56%	46%	37%	30%	25%	21%	17%	14%	12%	10%	9%	7%	6%	5%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.9°	59.6°	102.6°	93.9%	85.4%

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Iso Diagrams

iso-candela diagram



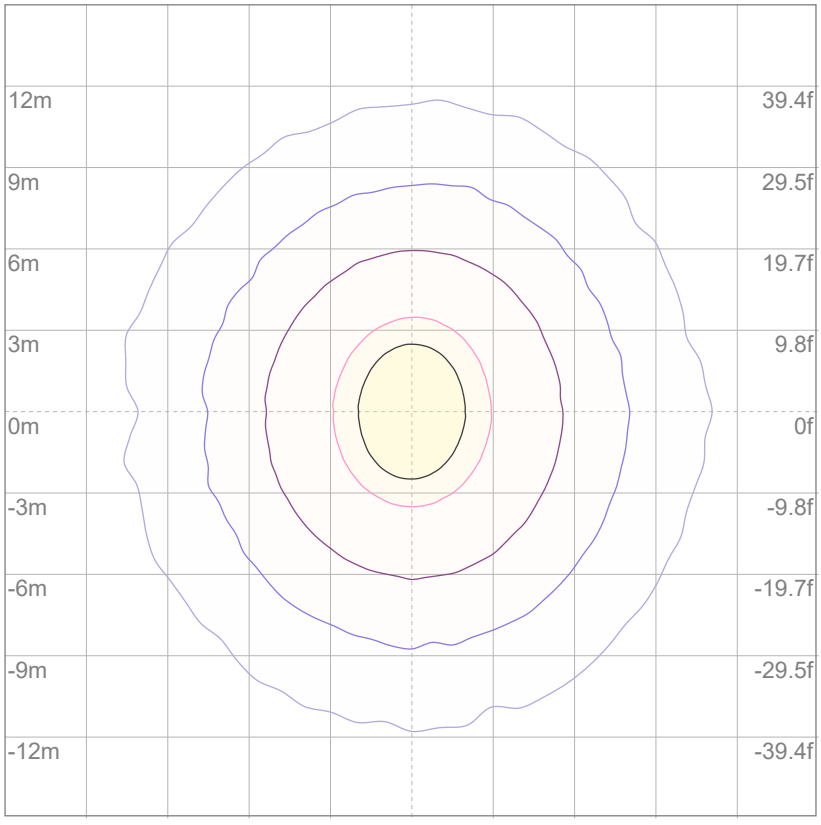
10%	202 cd
20%	404 cd
30%	606 cd
40%	808 cd
50%	1010 cd
60%	1212 cd
70%	1414 cd
80%	1616 cd
90%	1818 cd

Conditions:

Number of c-planes: 72

Candela at center: 2020 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.606 lx
5%	1.01 lx
10%	2.02 lx
30%	6.06 lx
50%	10.1 lx

Conditions:

Number of c-planes: 72

Lux at center: 20.2 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 740 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	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85
3	101	95	89	85	99	93	88	84	90	86	83	88	85	82	86	83	80	79
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	58	56
10	74	65	59	56	73	64	59	56	64	59	55	63	58	55	62	58	55	54

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
152 lm	220 lm	143 lm	86.4 lm	55.7 lm	37.7 lm	24.6 lm	14.9 lm	5.46 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.100 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):	255.9	34.6%
Medium(30-60):	88	11.9%
High(60-80):	19.6	2.7%
Very high(80-90):	2.8	0.4%
Back light		
Low(0-30):	258.6	35%
Medium(30-60):	91.5	12.4%
High(60-80):	19.9	2.7%
Very high(80-90):	2.8	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

