NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

47 Lumen/Watt

Light quality:

CRI: 52.6

Color temperature:

6351 K

Output: 337 lm
Peak: 445 cd

Power: 7.2 W
PF: 1.0

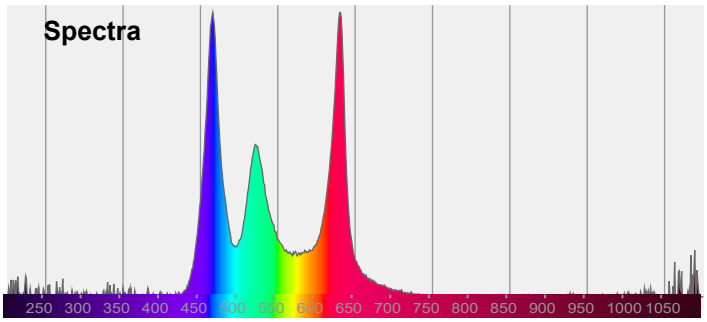
Tracking number: VT250709-000338

Product name:
GRZ Black RGBW All

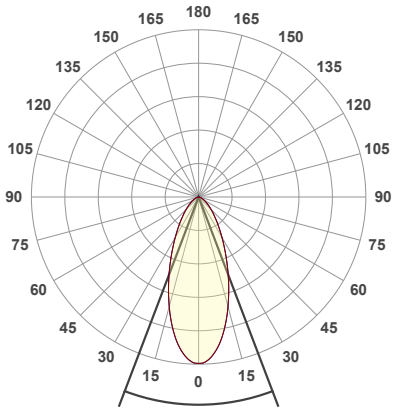
Item number:
GZF-RGBW-BK-24-IP67-30 All

Date and time:
7/9/25 3:35:59 PM

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

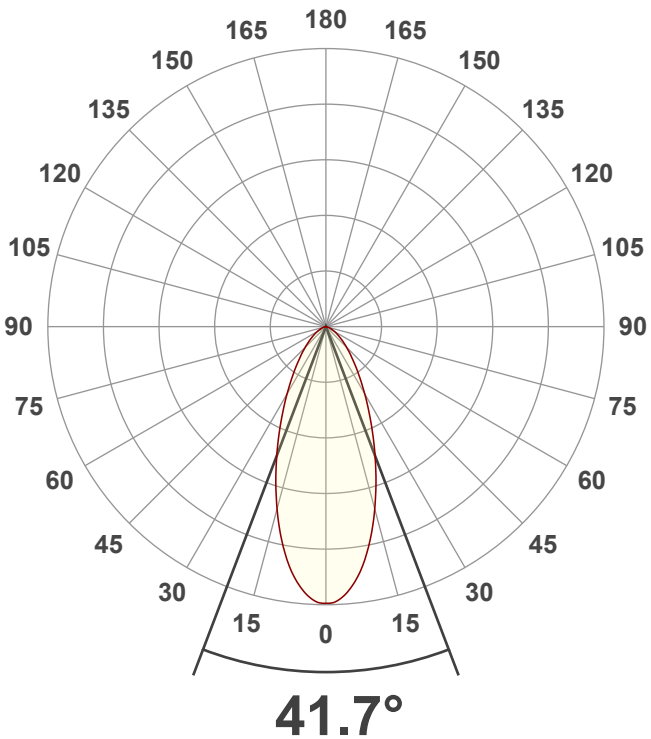


Average Beam Angle

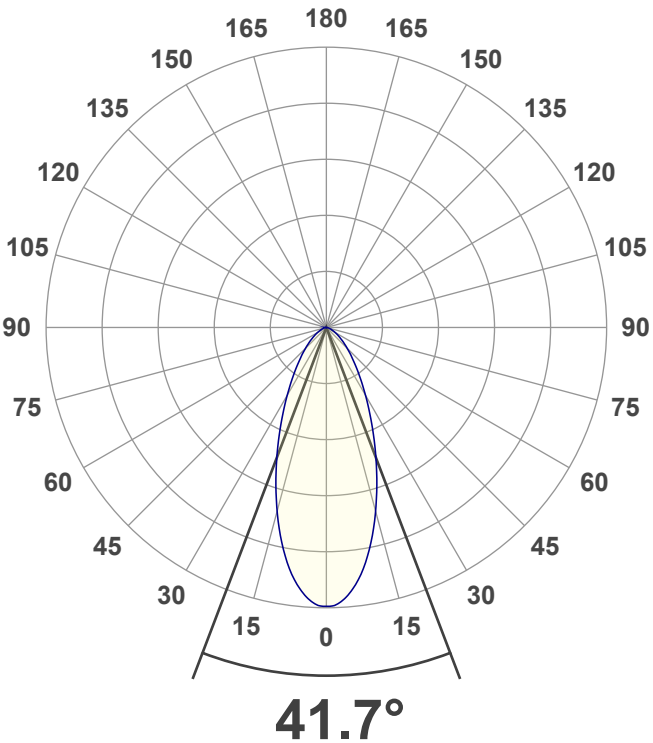


C Plane Resolution: 30°

Angular Distribution 0 ° Plane

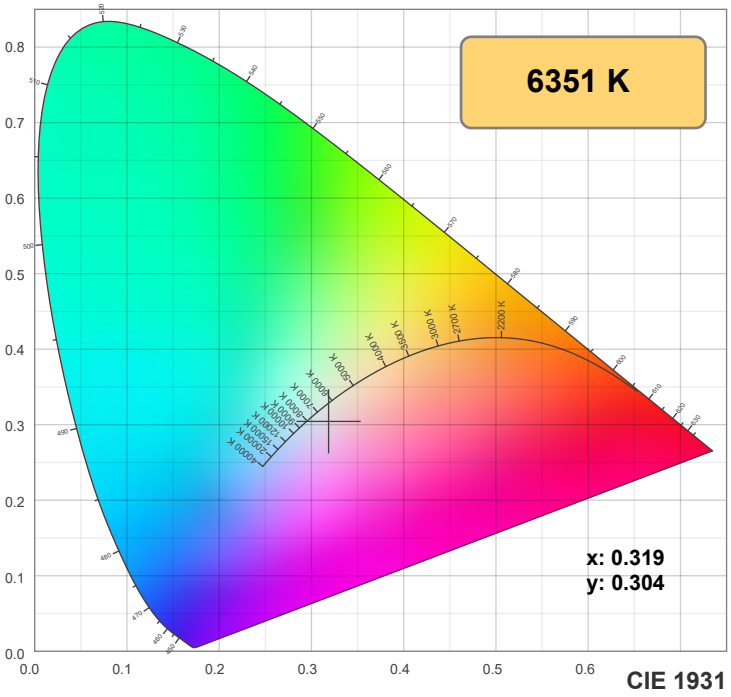


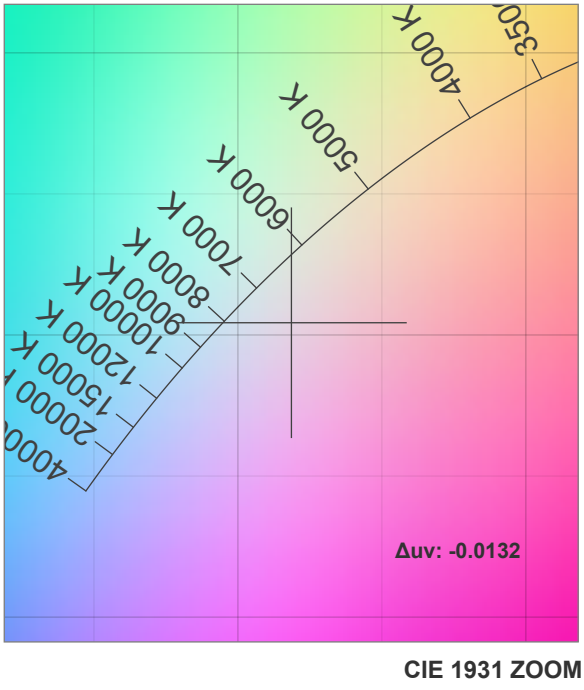
Angular Distribution 90 ° Plane



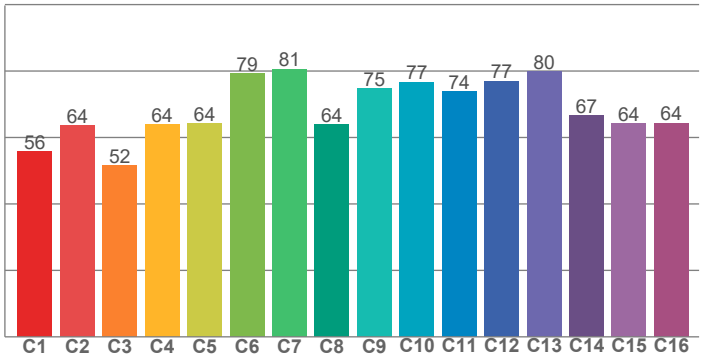
NOVA FLEX

Color details

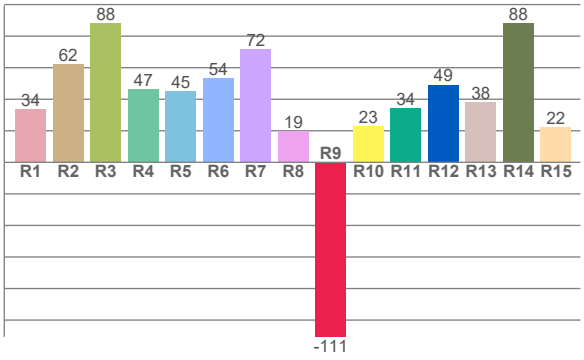




TM-30: 68.3



CRI: (R1-R8): 52.6



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
33.6	62.5	88.4	46.5	44.9	53.5	71.8	19.5	-110.6	22.8	34.2	49.2	38.3	88.4	22.1

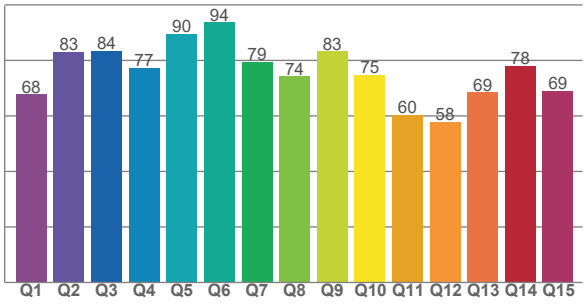
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
55.8	63.5	51.7	64.0	64.3	79.2	80.6	63.9	74.9	76.7	74.0	77.0	79.8	66.6	64.3	64.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
67.8	83.1	83.5	77.3	89.6	93.7	79.4	74.2	83.3	74.7	60.3	57.9	68.5	78.0	68.9

CQS: 74.1



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
6351 K	52.6	-110.6	68.3	108.0	74.1	0.319	0.304	0.212	0.304	-0.0132

NOVA FLEX

TM-30 details

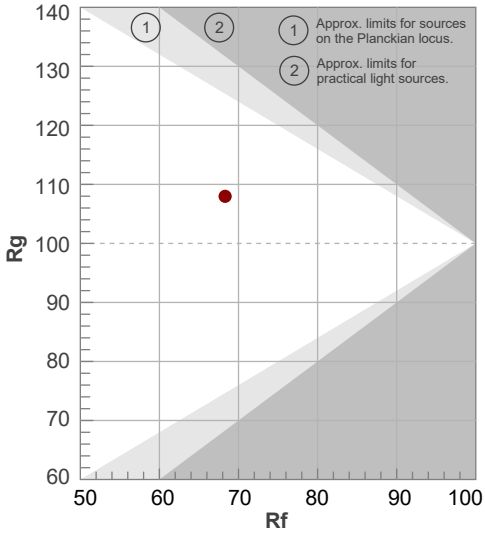
Rf 68.3

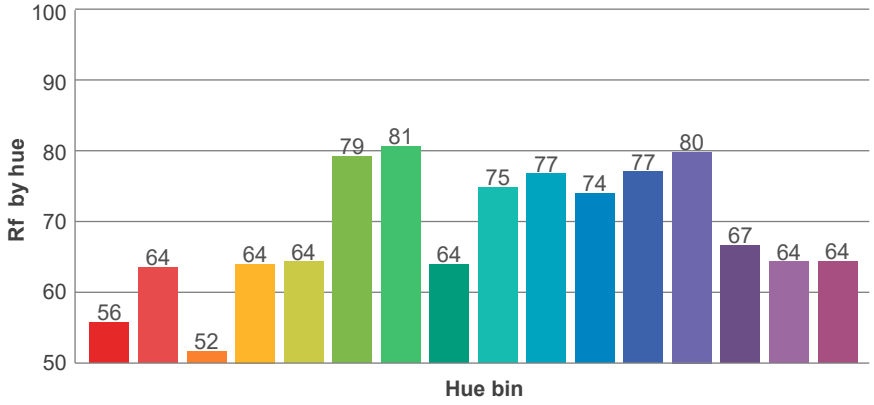
Fidelity index Rf

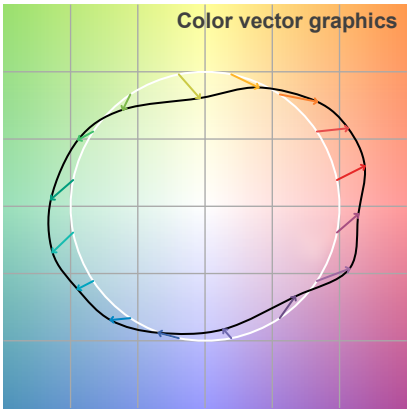
Rg 108.0

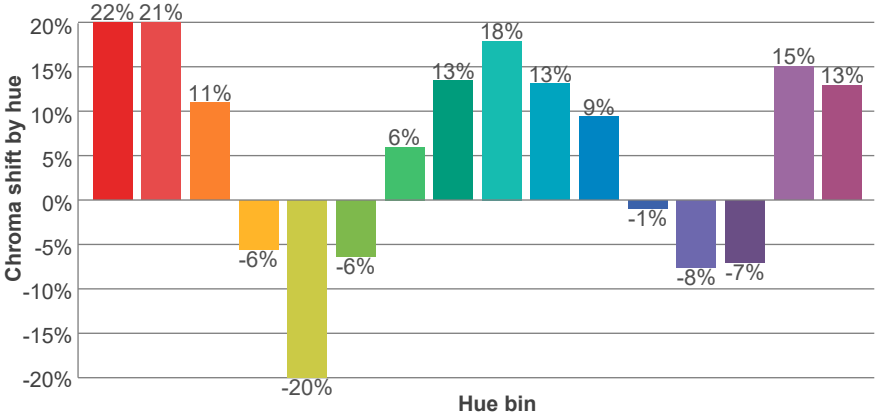
Gamut index Rg

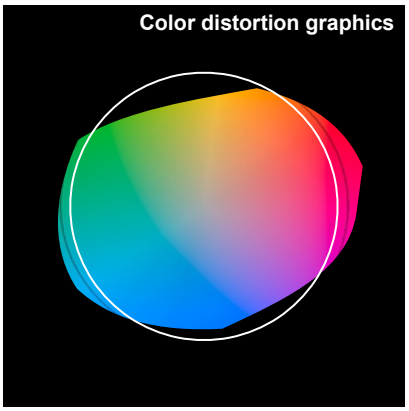
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	56	22%	6%
2	64	21%	-11%
3	52	11%	-26%
4	64	-6%	-22%
5	64	-20%	-12%
6	79	-6%	11%
7	81	6%	11%
8	64	13%	17%
9	75	18%	11%
10	77	13%	-1%
11	74	9%	-11%
12	77	-1%	-16%
13	80	-8%	-4%
14	67	-7%	18%
15	64	15%	21%
16	64	13%	17%

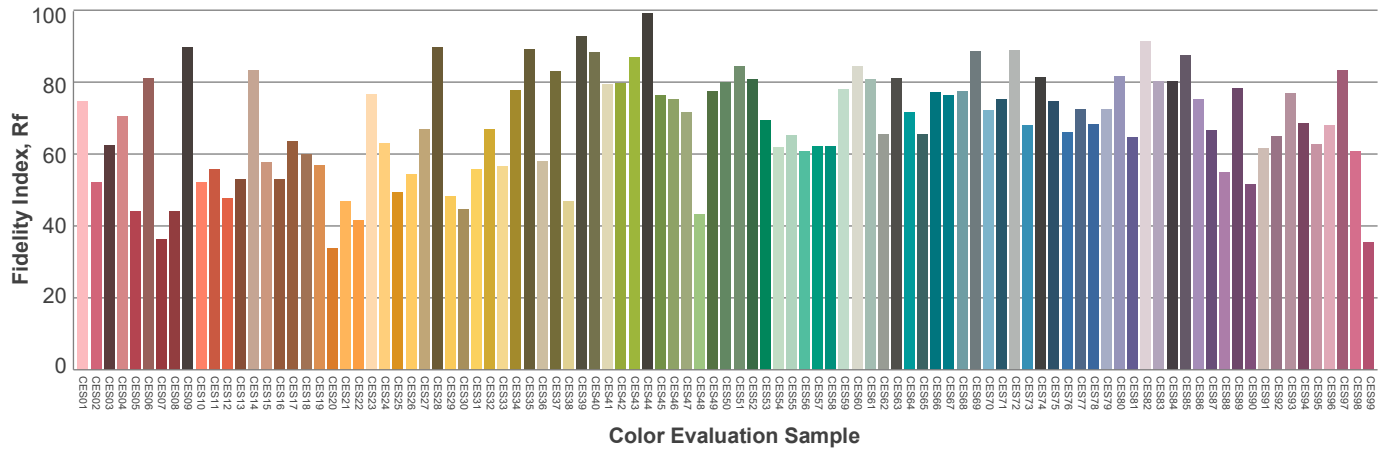






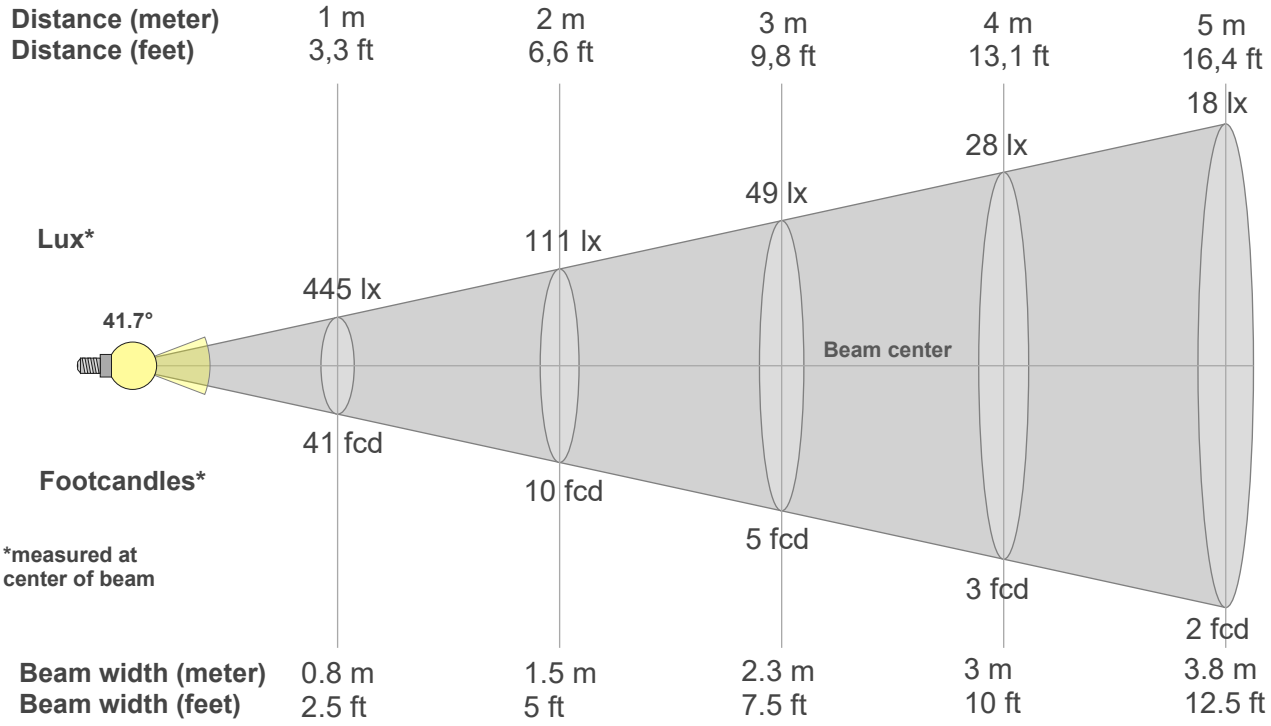






NOVA FLEX

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
445lx	111lx	49lx	28lx	18lx	12lx	9lx	7lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx
41.3fcd	10.3fcd	4.6fcd	2.6fcd	1.7fcd	1.1fcd	0.8fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

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°
445	443	433	418	398	374	347	318	289	261	234	208	184	162	143	125	110	96	85	74
100%	99%	97%	94%	89%	84%	78%	72%	65%	59%	52%	47%	41%	36%	32%	28%	25%	22%	19%	17%

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°
445	443	433	418	398	374	347	318	289	261	234	208	184	162	143	125	110	96	85	74
100%	99%	97%	94%	89%	84%	78%	72%	65%	59%	52%	47%	41%	36%	32%	28%	25%	22%	19%	17%

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°
445	443	433	418	398	374	347	318	289	261	234	208	184	162	143	125	110	96	85	74
100%	99%	97%	94%	89%	84%	78%	72%	65%	59%	52%	47%	41%	36%	32%	28%	25%	22%	19%	17%

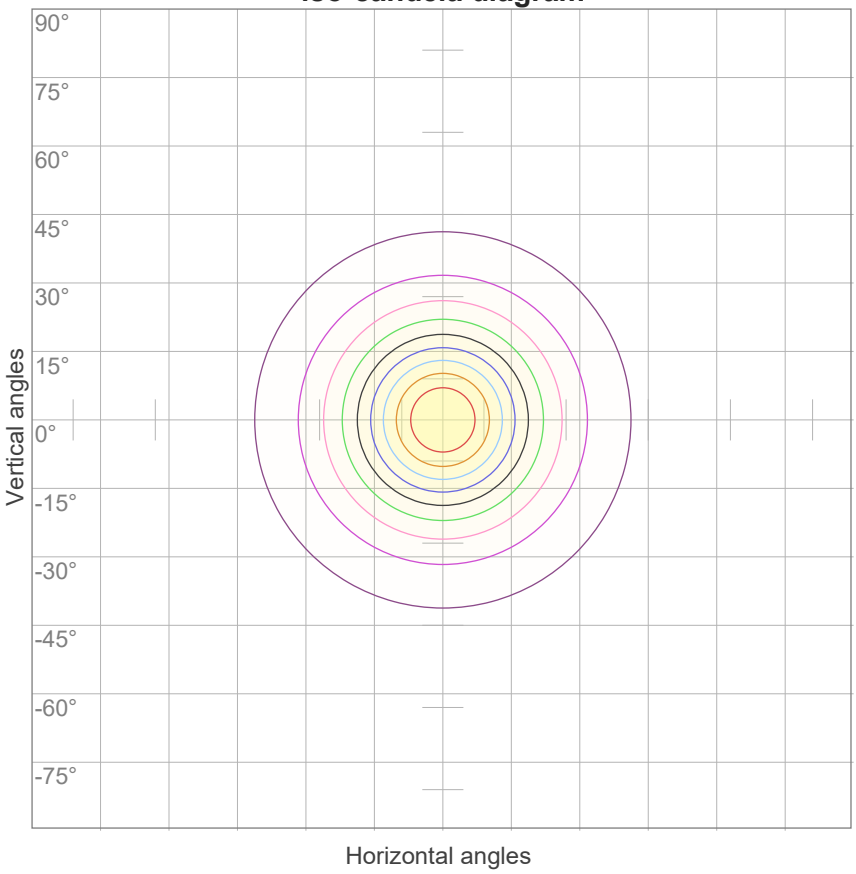
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
445	443	433	418	398	374	347	318	289	261	234	208	184	162	143	125	110	96	85	74
100%	99%	97%	94%	89%	84%	78%	72%	65%	59%	52%	47%	41%	36%	32%	28%	25%	22%	19%	17%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
41.7°	91.9°	128.8°	94.3%	83.0%

Iso Diagrams

iso-candela diagram



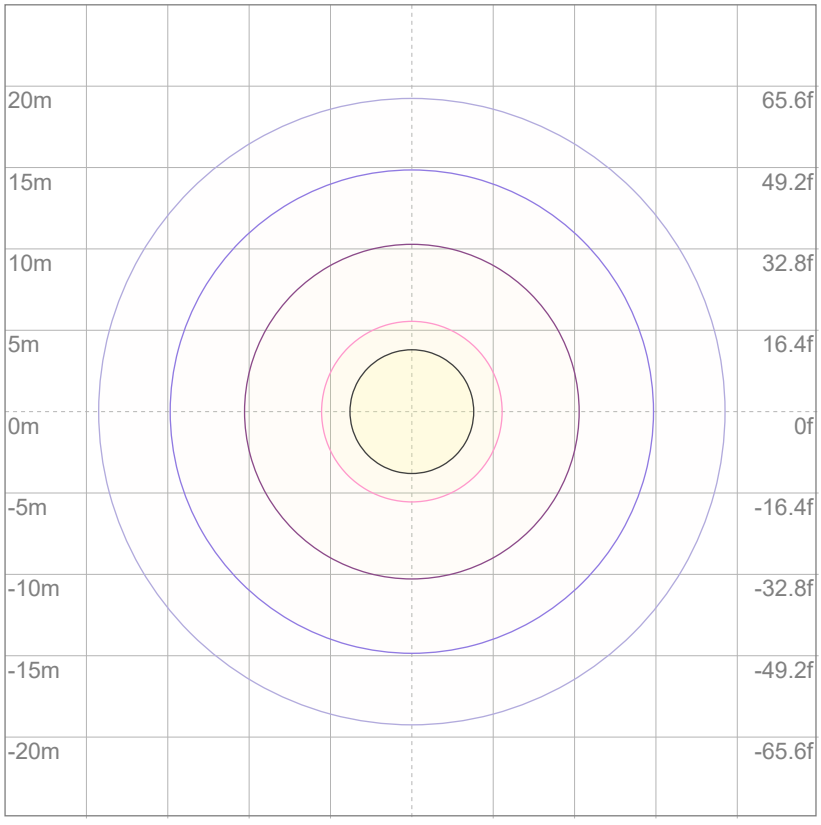
10%	45 cd
20%	89 cd
30%	134 cd
40%	178 cd
50%	223 cd
60%	267 cd
70%	312 cd
80%	356 cd
90%	401 cd

Conditions:

Number of c-planes: 12

Candela at center: 445 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.134 lx
5%	0.223 lx
10%	0.445 lx
30%	1.34 lx
50%	2.23 lx

Conditions:

Number of c-planes: 12

Lux at center: 4.45 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

NOVA FLEX

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				
2H	2H	17.2	17.9	17.3	18.2	18.4	17.8	18.5	17.9	18.8	19.0
	3H	17.3	18.2	17.7	18.4	18.6	18.0	18.9	18.4	19.1	19.3
	4H	17.3	18.2	17.7	18.4	18.7	18.1	19.0	18.5	19.2	19.4
	6H	17.4	18.1	17.7	18.4	18.8	18.3	19.0	18.6	19.3	19.6
	8H	17.4	18.1	17.7	18.4	18.8	18.3	18.9	18.6	19.3	19.7
	12H	17.4	18.0	17.7	18.4	18.8	18.2	18.9	18.6	19.3	19.7
4H	2H	17.2	18.0	17.6	18.3	18.5	17.7	18.6	18.1	18.8	19.1
	3H	17.6	18.3	17.9	18.6	19.0	18.3	18.9	18.6	19.3	19.7
	4H	17.6	18.2	18.0	18.7	19.2	18.3	18.9	18.8	19.4	19.9
	6H	17.7	18.3	18.2	18.6	19.0	18.5	19.1	19.0	19.4	19.8
	8H	17.7	18.2	18.2	18.6	19.0	18.5	19.1	19.0	19.4	19.8
	12H	17.6	18.1	18.1	18.5	19.0	18.5	18.9	19.0	19.4	19.8
8H	4H	17.6	18.2	18.1	18.5	18.9	18.3	18.9	18.8	19.2	19.6
	6H	17.7	18.1	18.2	18.6	19.1	18.5	18.9	19.0	19.4	19.9
	8H	17.8	18.1	18.3	18.6	19.2	18.6	18.9	19.1	19.4	20.0
	12H	17.8	18.0	18.3	18.5	19.1	18.6	18.9	19.2	19.4	20.0
12H	4H	17.6	18.0	18.1	18.4	18.9	18.3	18.7	18.8	19.1	19.6
	6H	17.7	18.1	18.3	18.6	19.2	18.5	18.8	19.0	19.3	20.0
	8H	17.7	18.0	18.3	18.5	19.1	18.5	18.8	19.1	19.3	19.9
Variation of the observer position for the luminaire distance S											
S = 1.0H		1.1 / -1.2					1.0 / -0.9				
S = 1.5H		2.5 / -2.4					2.3 / -2.1				
S = 2.0H		3.9 / -3.4					3.6 / -3.0				
CIE 117-1995. Corrected glare indices referring to 337 lm total luminous flux											

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	101	101	101	99
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75
4	94	85	79	74	92	84	78	74	82	77	73	79	75	72	77	74	71	69
5	88	79	73	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	64	60	57	55
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51
9	72	61	55	50	70	61	55	50	60	54	50	59	54	50	58	53	50	48
10	68	58	52	47	67	57	51	47	56	51	47	56	51	47	55	50	47	45

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
39.0 lm	84.0 lm	79.3 lm	56.8 lm	36.8 lm	21.7 lm	11.0 lm	4.59 lm	1.36 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.591 lm	0.573 lm	0.537 lm	0.486 lm	0.132 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

LCS table

BUG rating:	B0 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	101.8	30.2%
Medium(30-60):	58.1	17.2%
High(60-80):	7.9	2.3%
Very high(80-90):	0.7	0.2%
Back light		
Low(0-30):	101.8	30.2%
Medium(30-60):	58.1	17.2%
High(60-80):	7.9	2.3%
Very high(80-90):	0.7	0.2%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

