NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

72 Lumen/Watt

Light quality:

CRI: 84.7

Color temperature:

2974 K

Output: 584 lm
Peak: 1583 cd

Power: 8.2 W
PF: 1.0

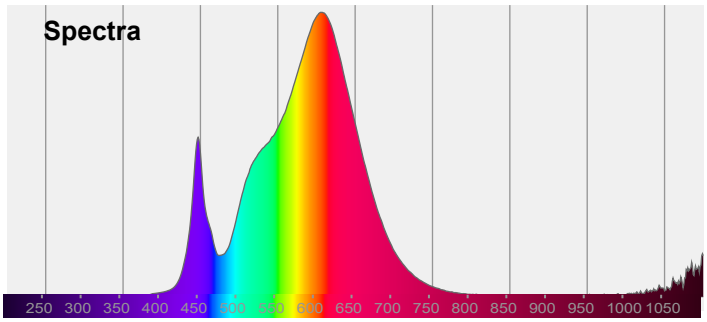
Tracking number: VT250711-008591

Product name:
GZF-BK-25-IP67-30

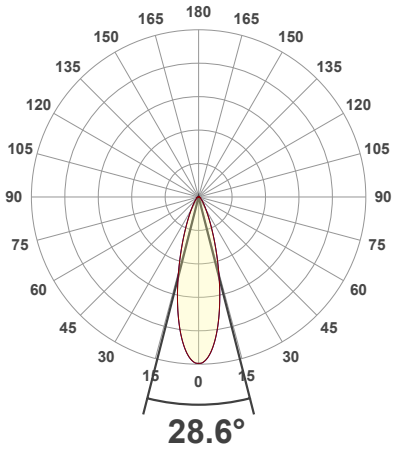
Item number:
GZF-BK-25-IP67-30

Date and time:
7/11/25 10:01:24 AM

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

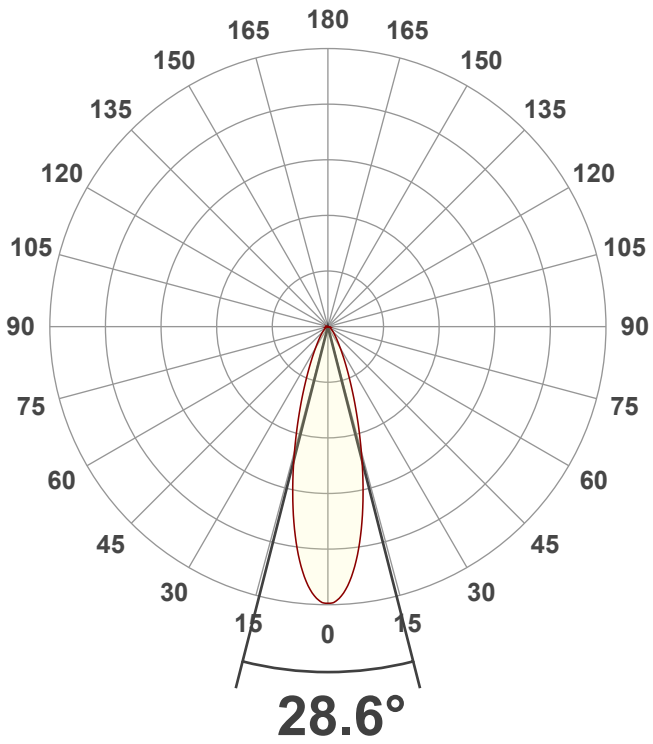


Average Beam Angle

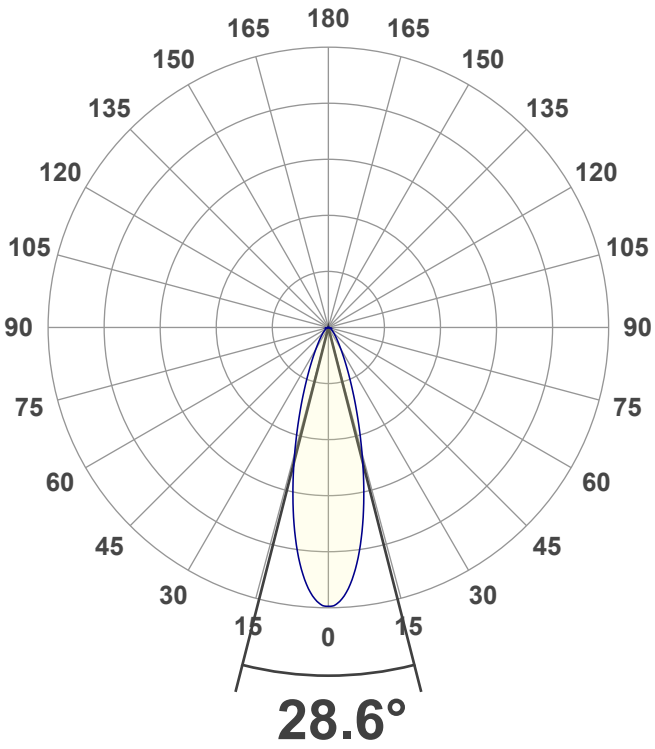


C Plane Resolution: 18°

Angular Distribution 0 ° Plane

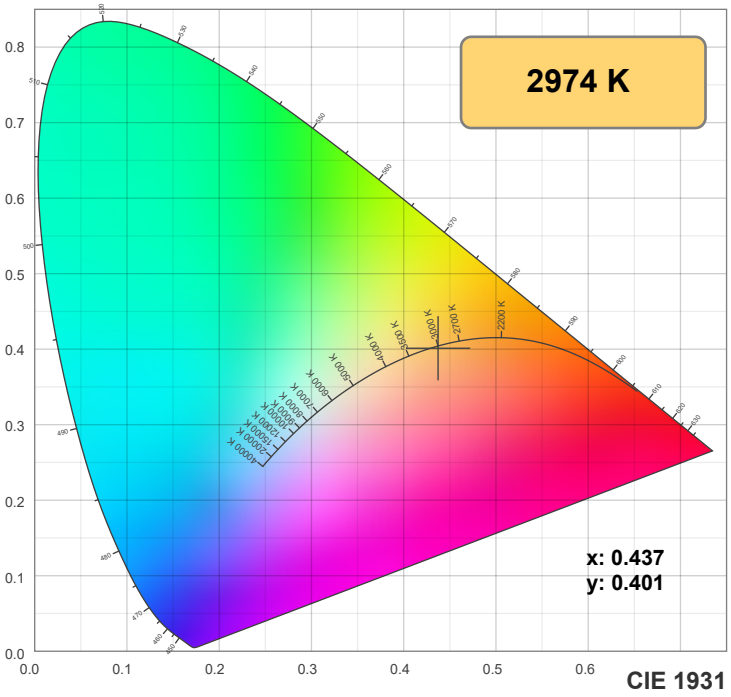


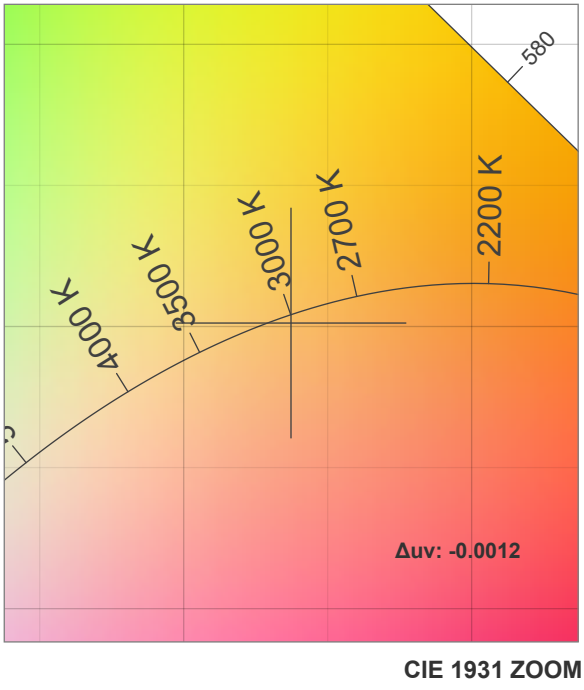
Angular Distribution 90 ° Plane



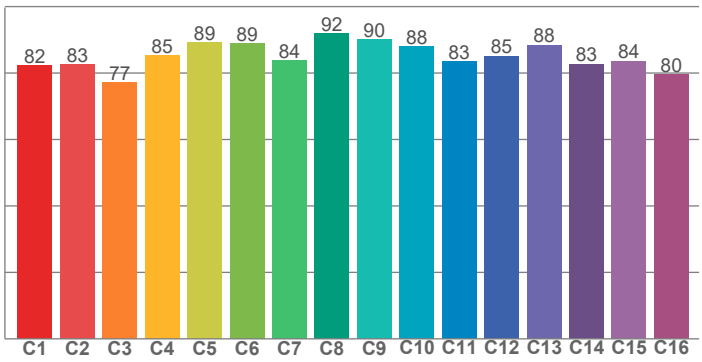
NOVA FLEX

Color details

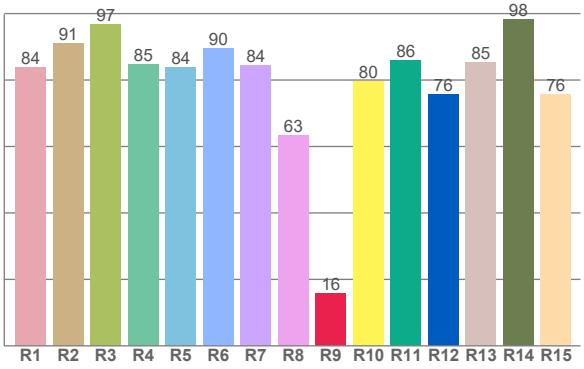




TM-30: 85.0



CRI: (R1-R8): 84.7



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
83.8	91.0	96.9	84.9	83.9	89.6	84.5	63.3	15.7	79.5	85.9	75.8	85.4	98.3	75.8

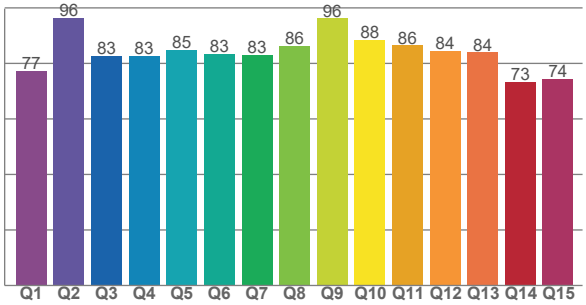
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.2	82.5	77.2	85.4	89.2	88.8	83.7	91.9	90.2	87.9	83.4	85.2	88.4	82.8	83.6	79.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.3	96.4	82.8	82.8	84.9	83.4	83.1	86.3	96.2	88.4	86.4	84.4	83.9	73.3	74.5

CQS: 83.0



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
2974 K	84.7	15.7	85.0	99.3	83.0	0.437	0.401	0.252	0.347	-0.0012

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TM-30 details

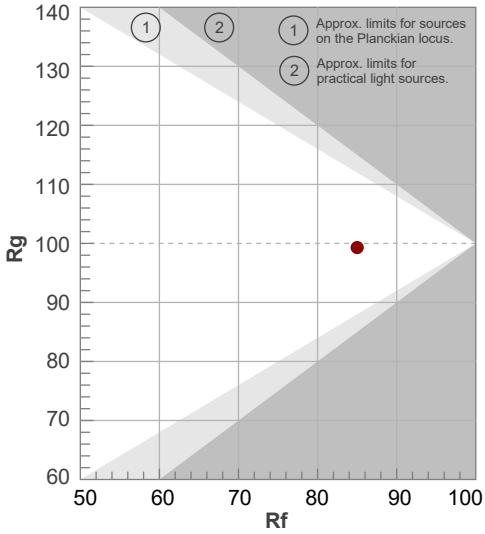
Rf 85.0

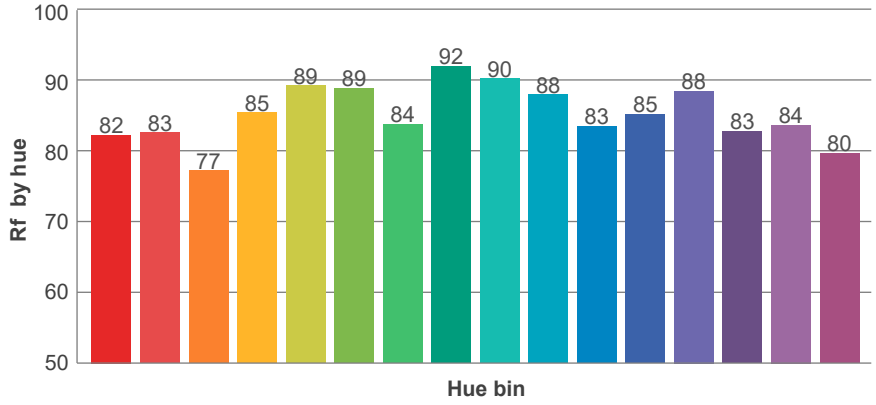
Fidelity index Rf

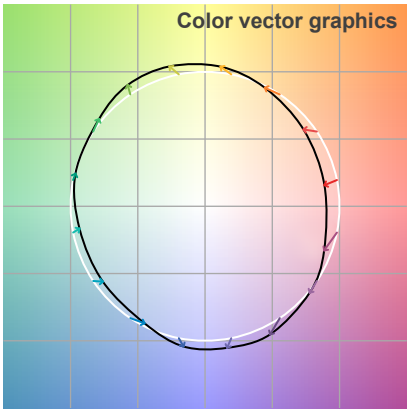
Rg 99.3

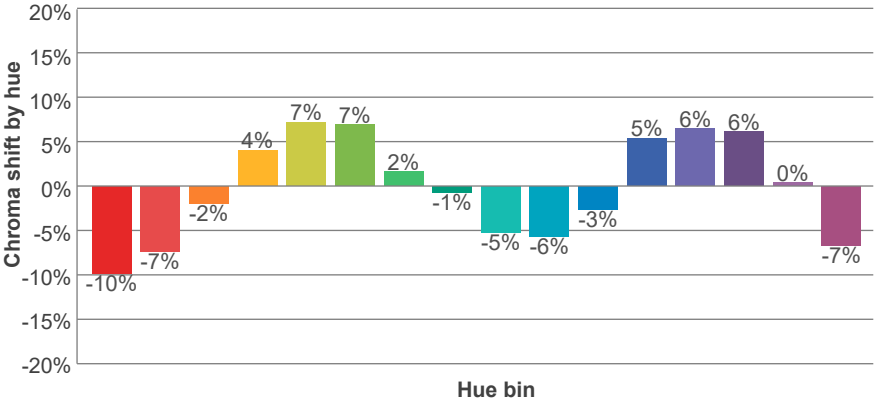
Gamut index Rg

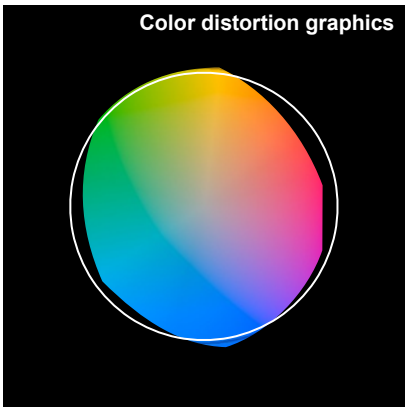
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	82	-10%	-2%
2	83	-7%	7%
3	77	-2%	12%
4	85	4%	9%
5	89	7%	6%
6	89	7%	-2%
7	84	2%	-10%
8	92	-1%	-5%
9	90	-5%	-2%
10	88	-6%	4%
11	83	-3%	11%
12	85	5%	5%
13	88	6%	-4%
14	83	6%	-13%
15	84	0%	-10%
16	80	-7%	-15%

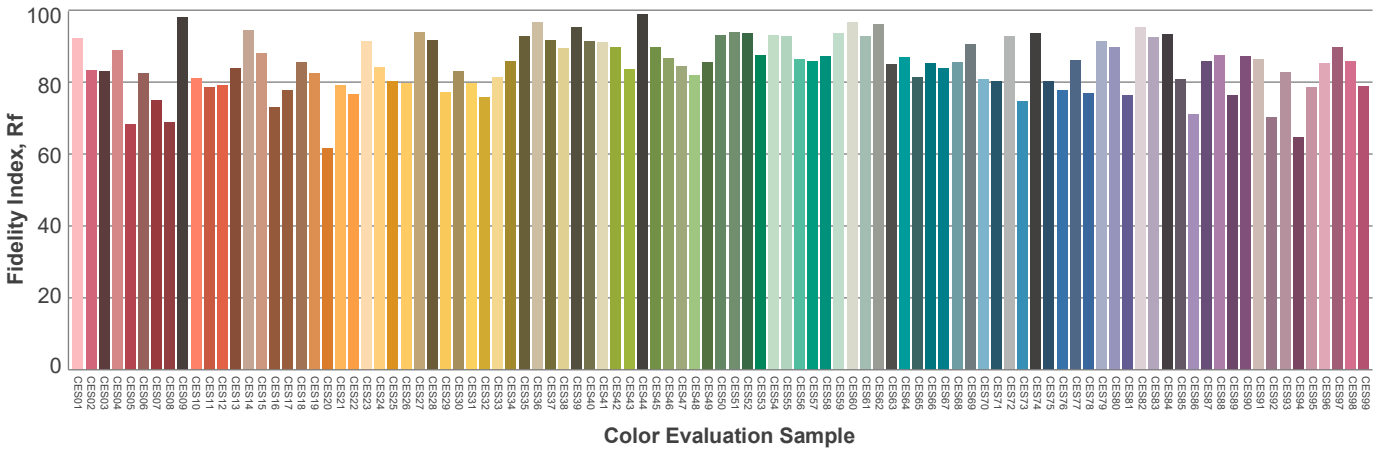






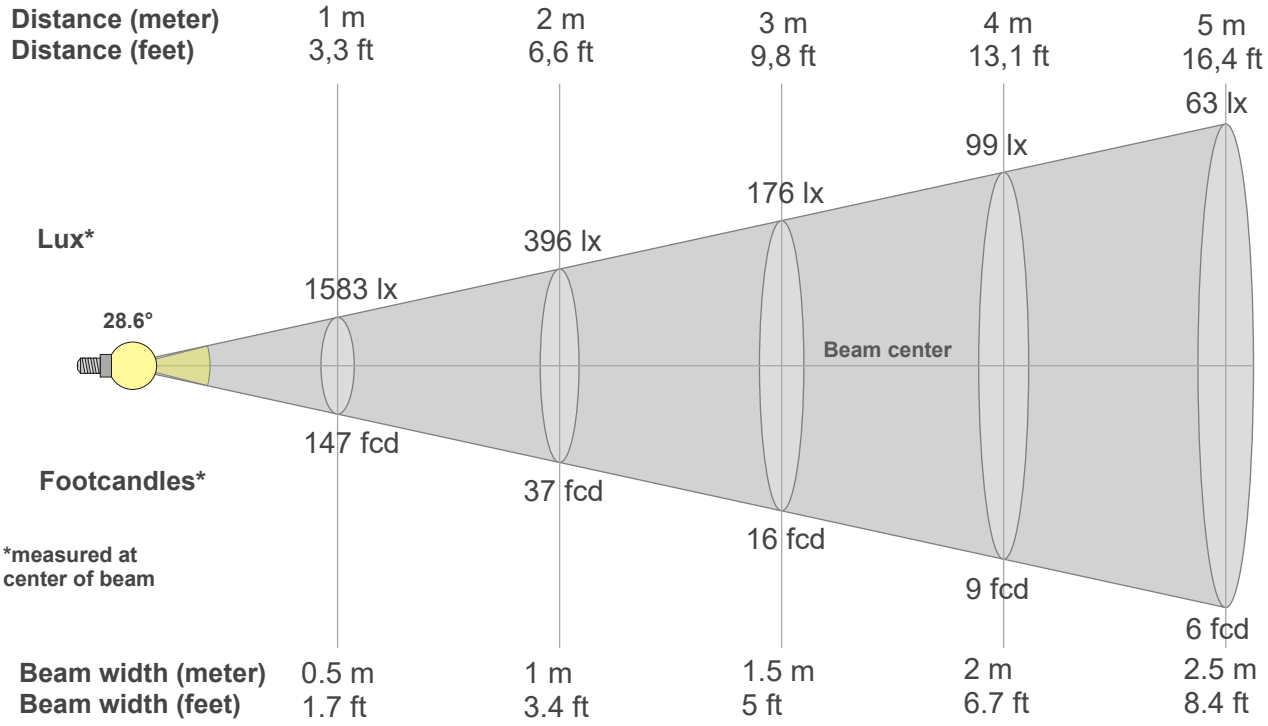






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Beam details



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
1583lx	396lx	176lx	99lx	63lx	44lx	32lx	25lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
147fcd	36.8fcd	16.3fcd	9.2fcd	5.9fcd	4.1fcd	3fcd	2.3fcd	1.8fcd	1.5fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	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°
1583	1565	1503	1403	1275	1126	969	813	668	540	432	343	273	217	175	142	117	97	82	70
100%	99%	95%	89%	81%	71%	61%	51%	42%	34%	27%	22%	17%	14%	11%	9%	7%	6%	5%	4%

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°
1583	1565	1503	1403	1275	1126	969	813	668	540	432	343	273	217	175	142	117	97	82	70
100%	99%	95%	89%	81%	71%	61%	51%	42%	34%	27%	22%	17%	14%	11%	9%	7%	6%	5%	4%

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°
1583	1565	1503	1403	1275	1126	969	813	668	540	432	343	273	217	175	142	117	97	82	70
100%	99%	95%	89%	81%	71%	61%	51%	42%	34%	27%	22%	17%	14%	11%	9%	7%	6%	5%	4%

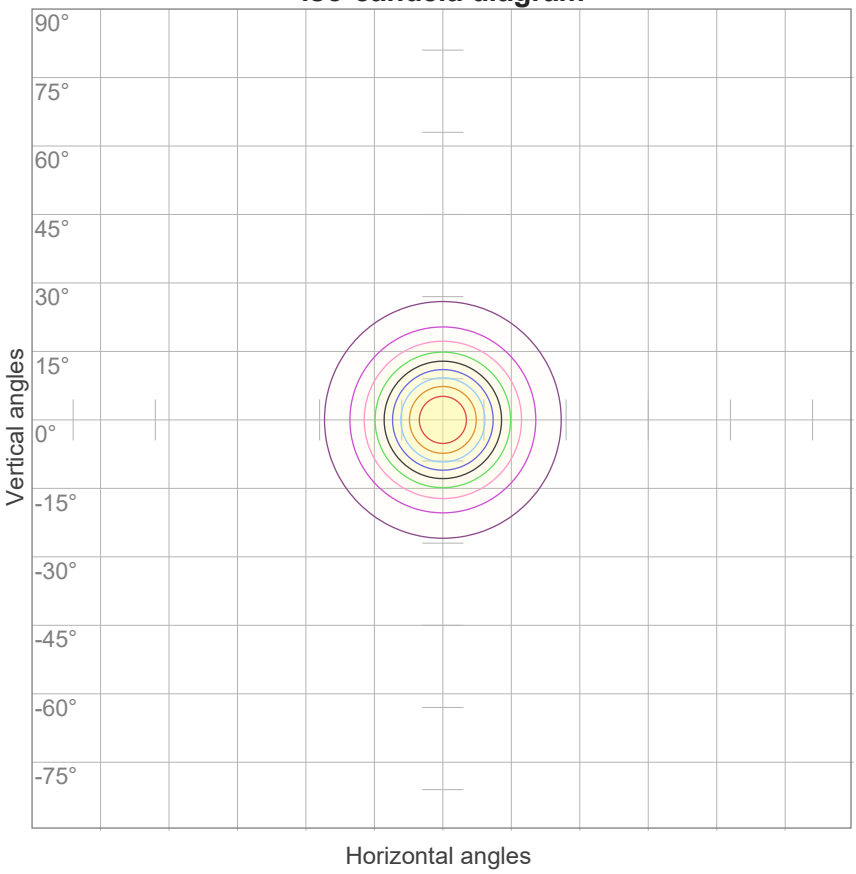
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1583	1565	1503	1403	1275	1126	969	813	668	540	432	343	273	217	175	142	117	97	82	70
100%	99%	95%	89%	81%	71%	61%	51%	42%	34%	27%	22%	17%	14%	11%	9%	7%	6%	5%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28.6°	57.9°	91.8°	95.3%	89.4%

Iso Diagrams

iso-candela diagram



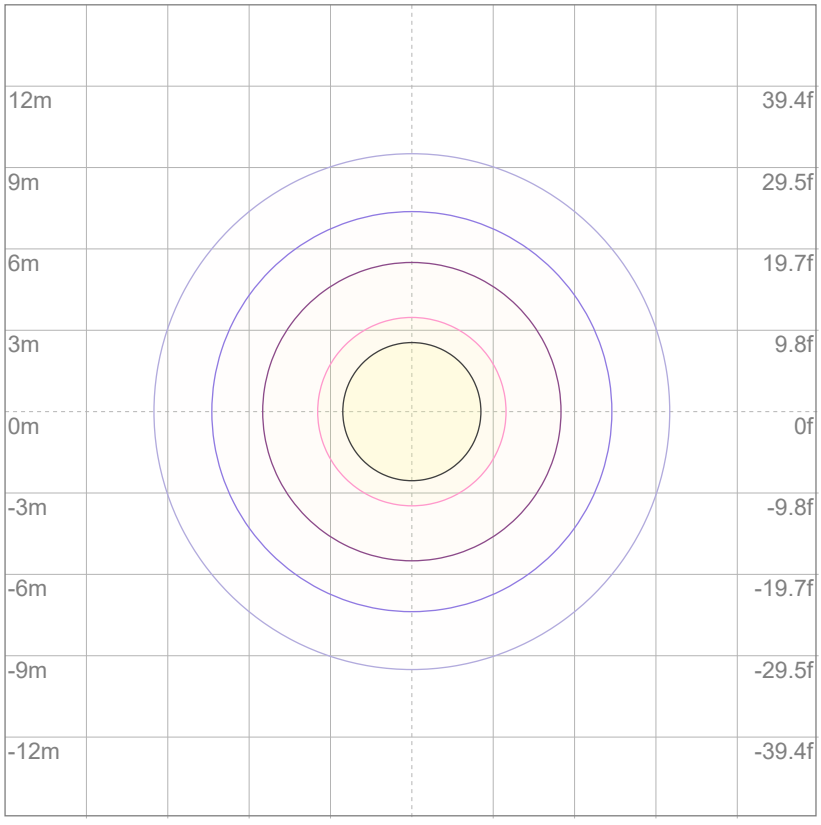
10%	158 cd
20%	317 cd
30%	475 cd
40%	633 cd
50%	791 cd
60%	950 cd
70%	1108 cd
80%	1266 cd
90%	1424 cd

Conditions:

Number of c-planes: 20

Candela at center: 1583 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.475 lx
5%	0.791 lx
10%	1.58 lx
30%	4.75 lx
50%	7.91 lx

Conditions:

Number of c-planes: 20

Lux at center: 15.8 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	15.0	15.6	15.1	15.8	16.0	15.6	16.2	15.7	16.4	16.6
	3H	15.3	16.0	15.7	16.2	16.4	16.0	16.8	16.4	17.0	17.2
	4H	15.5	16.2	15.9	16.4	16.6	16.3	17.1	16.7	17.3	17.5
	6H	15.7	16.3	16.0	16.6	16.9	16.7	17.3	17.0	17.6	18.0
	8H	15.8	16.3	16.1	16.7	17.0	16.9	17.4	17.2	17.8	18.2
	12H	15.8	16.3	16.1	16.7	17.1	17.0	17.5	17.3	17.9	18.3
4H	2H	15.0	15.7	15.4	16.0	16.2	15.6	16.3	16.0	16.5	16.8
	3H	15.7	16.3	16.1	16.6	17.0	16.4	17.0	16.8	17.3	17.7
	4H	15.9	16.4	16.3	16.9	17.4	16.7	17.3	17.2	17.7	18.2
	6H	16.2	16.7	16.7	17.1	17.4	17.2	17.7	17.7	18.1	18.4
	8H	16.3	16.8	16.8	17.1	17.5	17.4	17.9	17.9	18.2	18.6
	12H	16.3	16.7	16.8	17.1	17.6	17.5	17.9	18.0	18.3	18.8
8H	4H	16.0	16.5	16.5	16.9	17.2	16.8	17.3	17.3	17.6	18.0
	6H	16.4	16.8	16.9	17.2	17.7	17.3	17.7	17.9	18.2	18.7
	8H	16.6	16.9	17.1	17.4	18.0	17.7	17.9	18.2	18.5	19.1
	12H	16.7	16.9	17.3	17.4	18.0	17.9	18.1	18.5	18.6	19.2
12H	4H	16.0	16.4	16.5	16.8	17.3	16.8	17.2	17.3	17.6	18.0
	6H	16.5	16.8	17.0	17.3	17.9	17.4	17.7	17.9	18.2	18.8
	8H	16.6	16.9	17.2	17.4	18.0	17.7	17.9	18.3	18.4	19.0
Variation of the observer position for the luminaire distance S											
S = 1.0H		1.0 / -0.8					0.9 / -0.6				
S = 1.5H		2.3 / -1.3					2.0 / -1.1				
S = 2.0H		3.6 / -1.8					3.2 / -1.5				
CIE 117-1995. Corrected glare indices referring to 584 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	113	110	108	106	111	108	106	104	104	102	100	100	99	97	96	95	94	93
2	108	103	99	96	106	101	98	95	98	95	92	95	92	90	92	90	88	87
3	103	97	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73
6	90	82	76	72	89	81	76	72	79	75	72	78	74	71	77	73	70	69
7	86	78	72	69	85	77	72	68	76	71	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	62	60
10	77	68	63	60	76	68	63	60	67	63	60	66	62	59	66	62	59	58

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
128 lm	203 lm	115 lm	57.5 lm	33.1 lm	20.2 lm	12.0 lm	6.66 lm	2.97 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.25 lm	1.21 lm	1.14 lm	1.03 lm	0.527 lm	0.225 lm	0.166 lm	0.102 lm	0.034 lm

LCS table

BUG rating:	B1 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	225.1	38.6%
Medium(30-60):	55.9	9.6%
High(60-80):	9.4	1.6%
Very high(80-90):	1.5	0.3%
Back light		
Low(0-30):	225.1	38.6%
Medium(30-60):	55.9	9.6%
High(60-80):	9.4	1.6%
Very high(80-90):	1.5	0.3%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

