NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

80 Lumen/Watt

Light quality:

CRI: 70.0

Color temperature:

5955 K

Output: 648 lm
Peak: 1729 cd

Power: 8.1 W
PF: 1.0

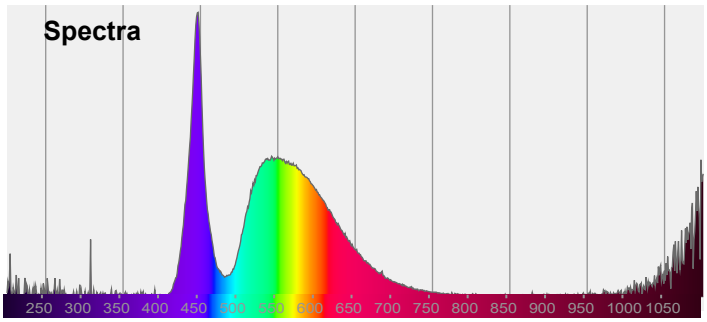
Tracking number: n/a

Product name:
GRZ Blk12 24 57

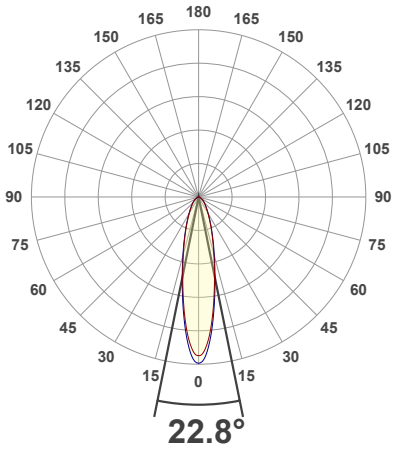
Item number:
1 foot Flex Grazer Black 5700K 12° Optic

Date and time:
7/28/25 3:37:54 PM

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

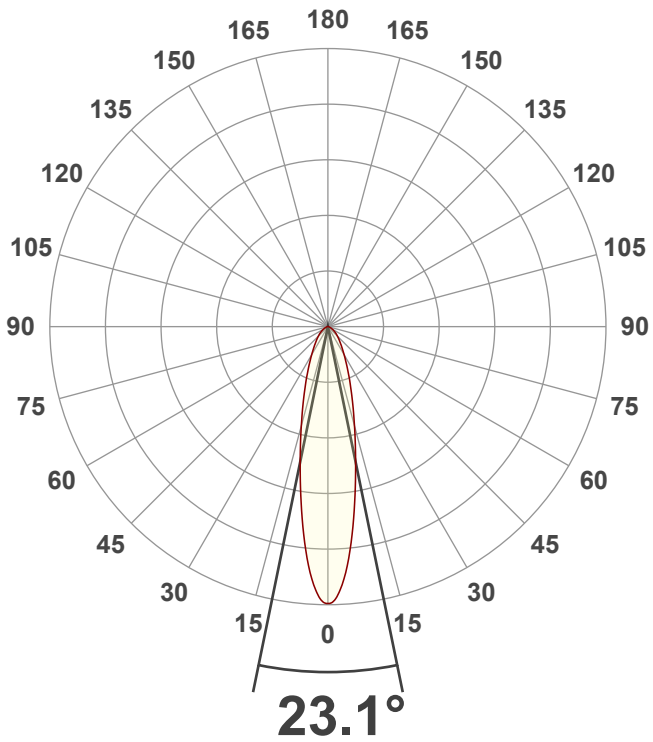


Average Beam Angle

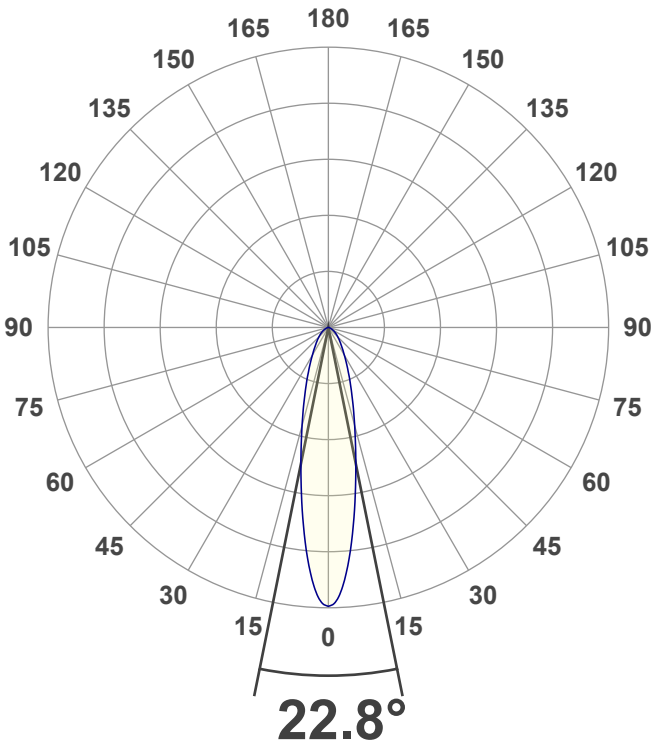


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

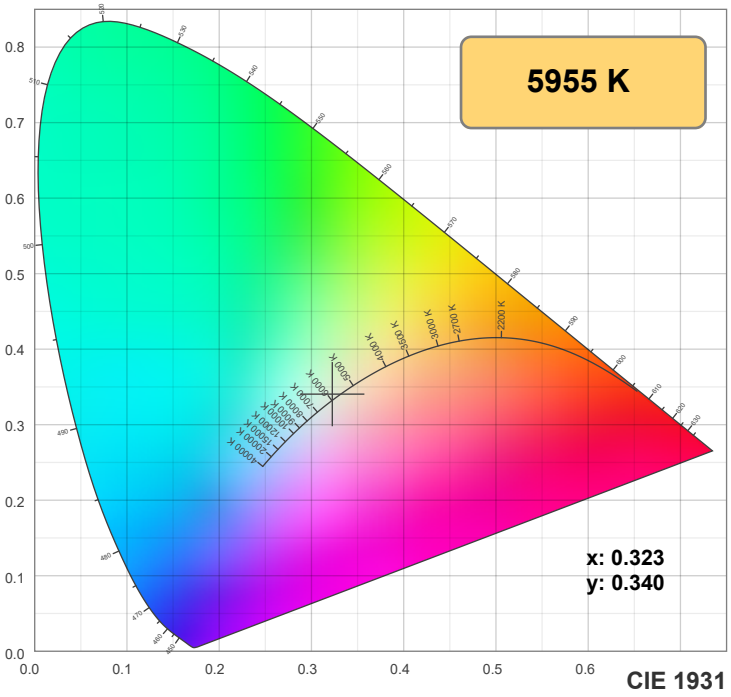


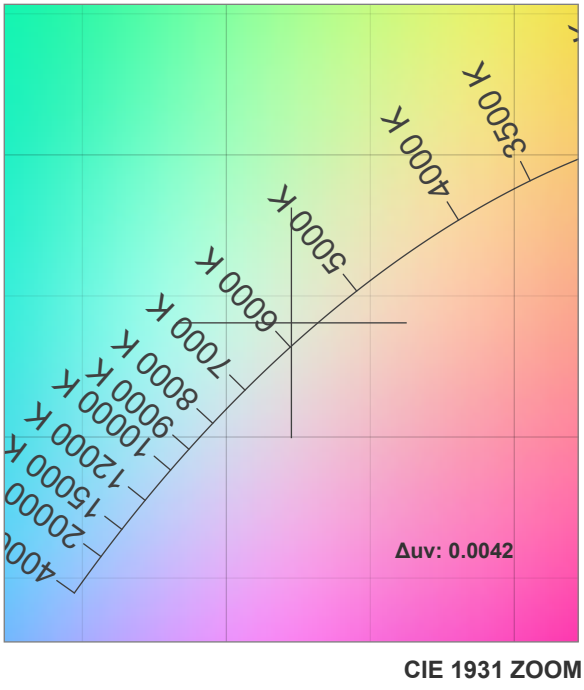
Angular Distribution 90 ° Plane



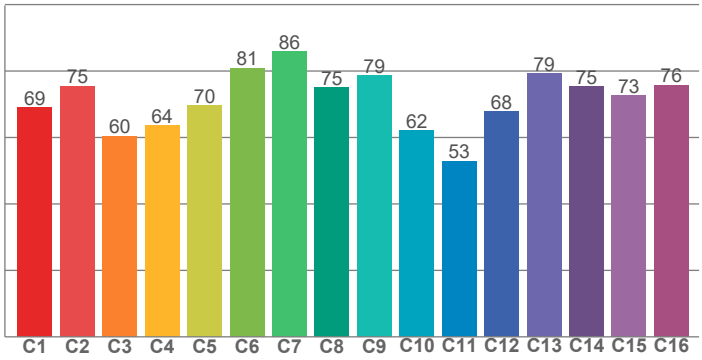
NOVA FLEX

Color details

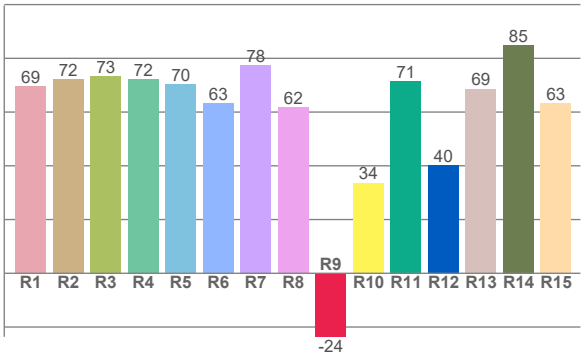




TM-30: 70.8



CRI: (R1-R8): 70.0



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
69.4	72.3	73.3	72.4	70.3	63.4	77.5	61.8	-23.7	33.7	71.5	40.2	68.7	84.9	63.4

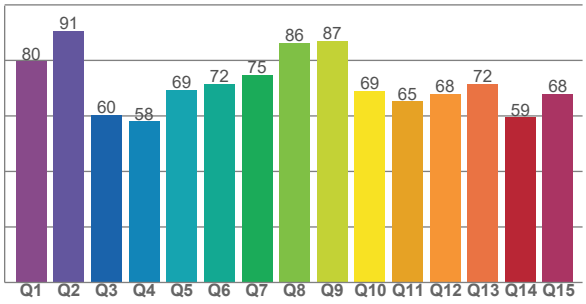
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
69.0	75.5	60.5	63.5	69.5	80.9	85.8	75.1	78.7	62.0	52.9	68.0	79.3	75.4	72.7	75.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79.7	90.6	60.4	58.0	69.3	71.6	74.8	86.2	87.1	69.0	65.2	68.0	71.5	59.5	67.9

CQS: 70.3



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
5955 K	70.0	-23.7	70.8	96.1	70.3	0.323	0.340	0.200	0.317	0.0042

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TM-30 details

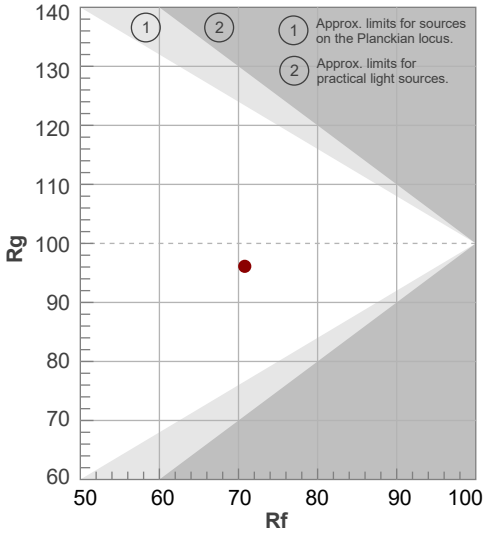
Rf 70.8

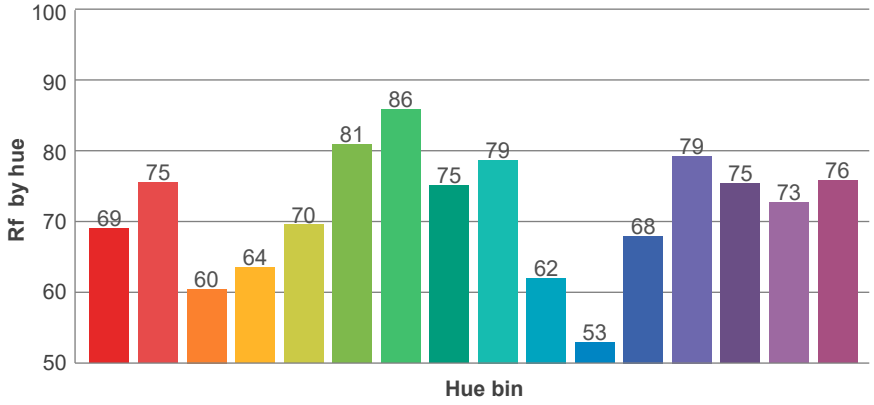
Fidelity index Rf

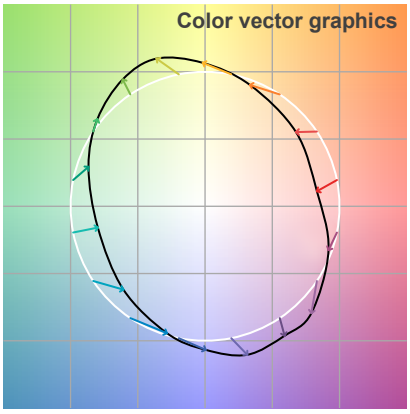
Rg 96.1

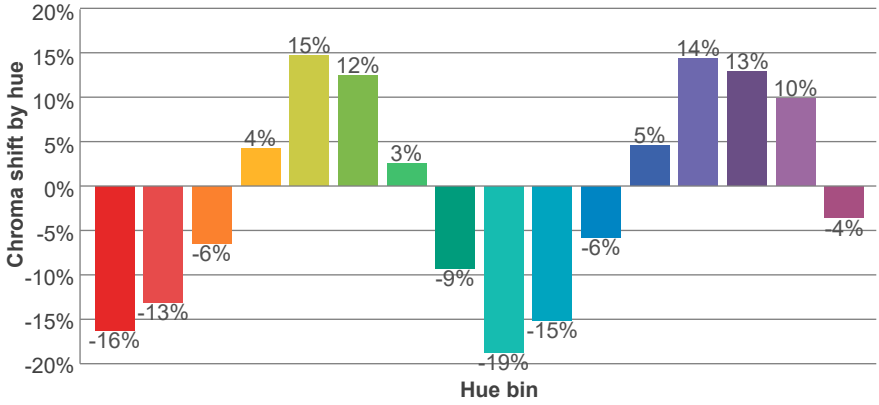
Gamut index Rg

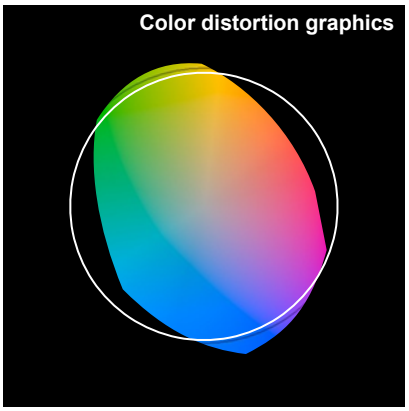
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	69	-16%	-5%
2	75	-13%	8%
3	60	-6%	22%
4	64	4%	22%
5	70	15%	14%
6	81	12%	-1%
7	86	3%	-9%
8	75	-9%	-12%
9	79	-19%	0%
10	62	-15%	18%
11	53	-6%	29%
12	68	5%	21%
13	79	14%	9%
14	75	13%	-4%
15	73	10%	-22%
16	76	-4%	-14%

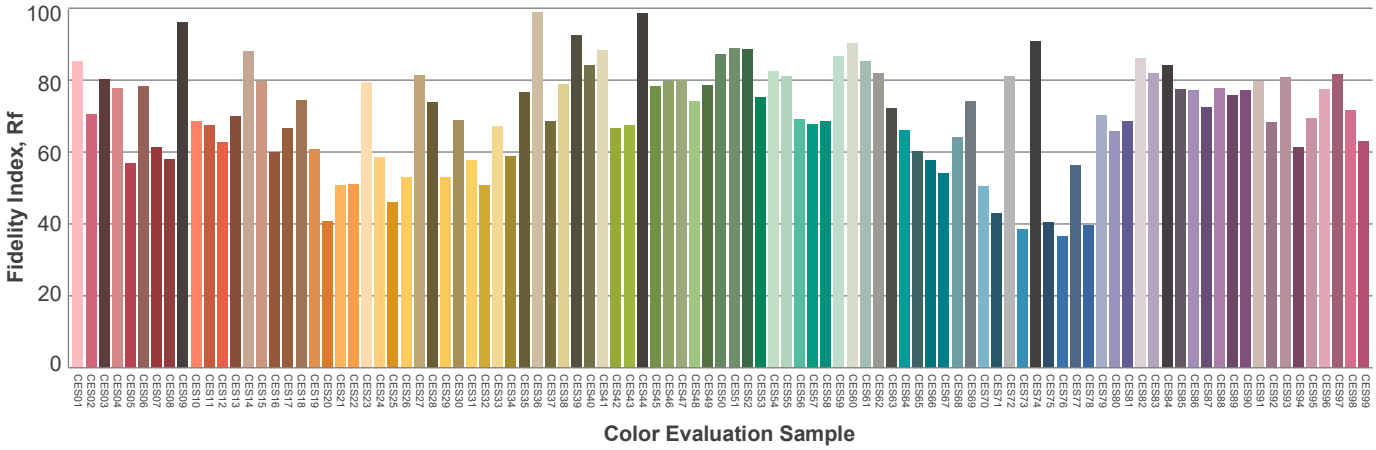






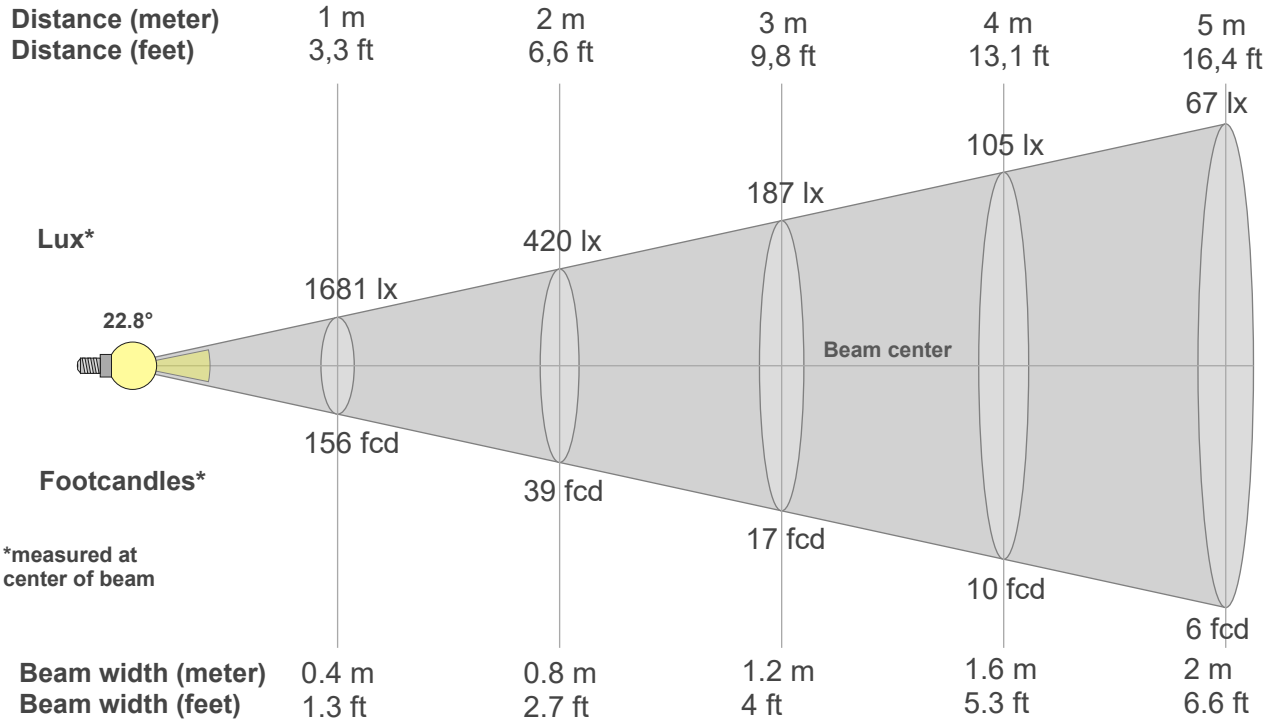






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Beam details



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
1681lx	420lx	187lx	105lx	67lx	47lx	34lx	26lx	21lx	17lx	14lx	12lx	10lx	9lx	7lx	7lx	6lx	5lx	5lx	4lx
156.2fc	39.1fcd	17.4fcd	9.8fcd	6.2fcd	4.3fcd	3.2fcd	2.4fcd	1.9fcd	1.6fcd	1.3fcd	1.1fcd	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°
1681	1605	1480	1307	1121	946	794	669	563	477	406	348	297	256	222	194	169	149	133	118
100%	95%	88%	78%	67%	56%	47%	40%	33%	28%	24%	21%	18%	15%	13%	12%	10%	9%	8%	7%

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°
1681	1681	1541	1356	1159	975	818	687	579	491	418	358	305	264	229	198	174	153	136	123
100%	100%	92%	81%	69%	58%	49%	41%	34%	29%	25%	21%	18%	16%	14%	12%	10%	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°
1681	1605	1480	1307	1121	946	794	669	563	477	406	348	297	256	222	194	169	149	133	118
100%	95%	88%	78%	67%	56%	47%	40%	33%	28%	24%	21%	18%	15%	13%	12%	10%	9%	8%	7%

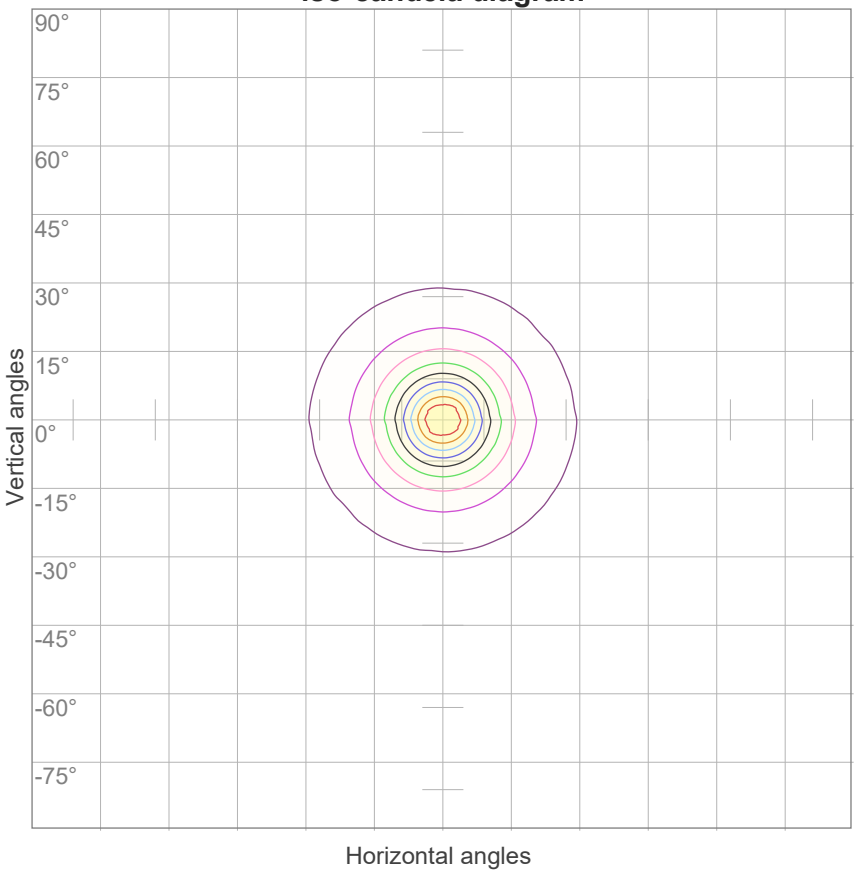
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1681	1681	1541	1356	1159	975	818	687	579	491	418	358	305	264	229	198	174	153	136	123
100%	100%	92%	81%	69%	58%	49%	41%	34%	29%	25%	21%	18%	16%	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
22.8°	64.3°	112.3°	94.7%	83.9%

Iso Diagrams

iso-candela diagram



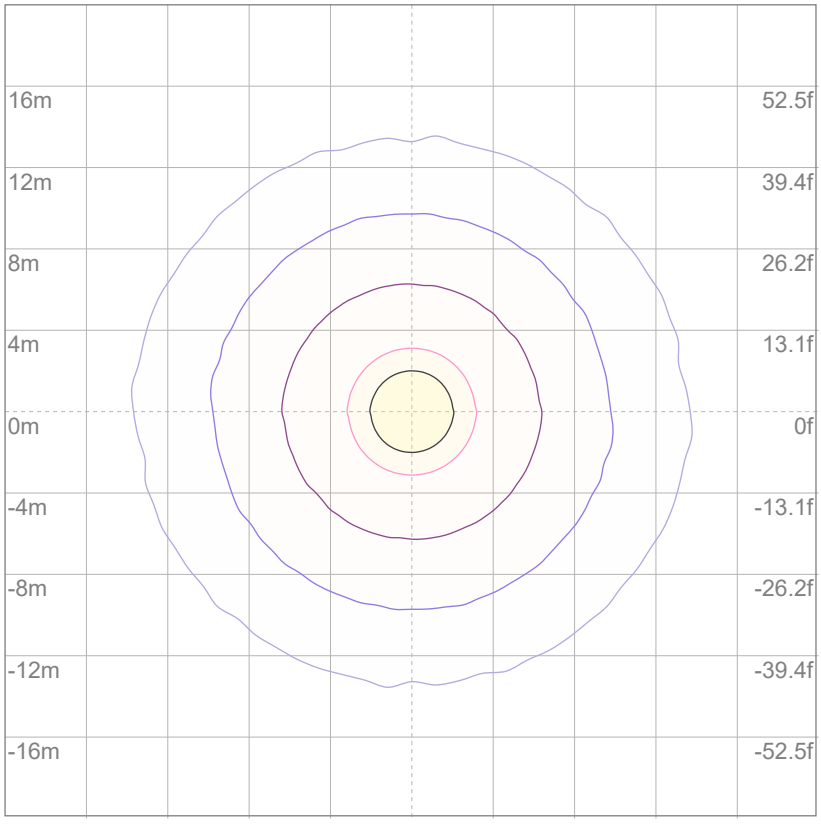
10%	168 cd
20%	336 cd
30%	504 cd
40%	673 cd
50%	841 cd
60%	1009 cd
70%	1177 cd
80%	1345 cd
90%	1513 cd

Conditions:

Number of c-planes: 72

Candela at center: 1681 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.504 lx
5%	0.841 lx
10%	1.68 lx
30%	5.04 lx
50%	8.41 lx

Conditions:

Number of c-planes: 72

Lux at center: 16.8 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
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 648 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	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	81	77	94	86	81	76	84	79	75	82	78	75	80	77	74	72
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63
7	82	73	66	62	81	72	66	62	71	65	61	69	65	61	68	64	61	59
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	72	62	56	53	71	62	56	53	61	56	52	60	56	52	59	55	52	51

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
120 lm	172 lm	128 lm	89.0 lm	62.8 lm	41.1 lm	21.1 lm	9.54 lm	3.07 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.253 lm	0.182 lm	0.171 lm	0.154 lm	0.064 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):	210.3	32.5%
Medium(30-60):	96.4	14.9%
High(60-80):	15.4	2.4%
Very high(80-90):	1.6	0.2%
Back light		
Low(0-30):	210.3	32.5%
Medium(30-60):	96.4	14.9%
High(60-80):	15.4	2.4%
Very high(80-90):	1.6	0.2%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

