NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

45 Lumen/Watt

Light quality:

CRI: 70.0

Color temperature:

5974 K

Output: 852 lm
Peak: 2467 cd

Power: 18.9 W
PF: 1.0

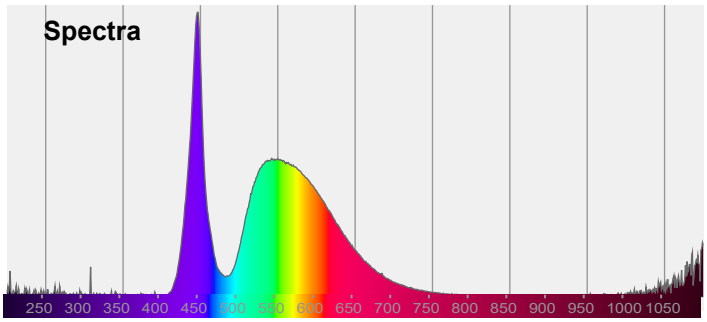
Tracking number: VT250724-008497

Product name:
GRZ White15x25 24 57

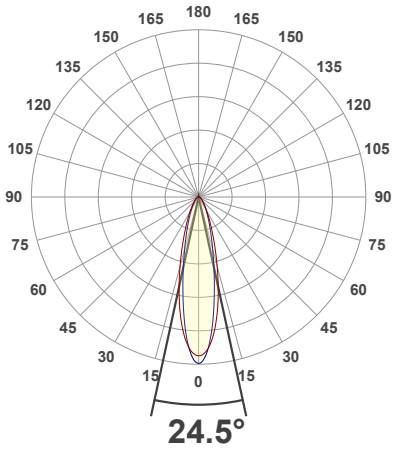
Item number:
1 foot Flex Grazer White 5700K 15°x25° Optic

Date and time:
7/24/25 12:12:02 PM

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

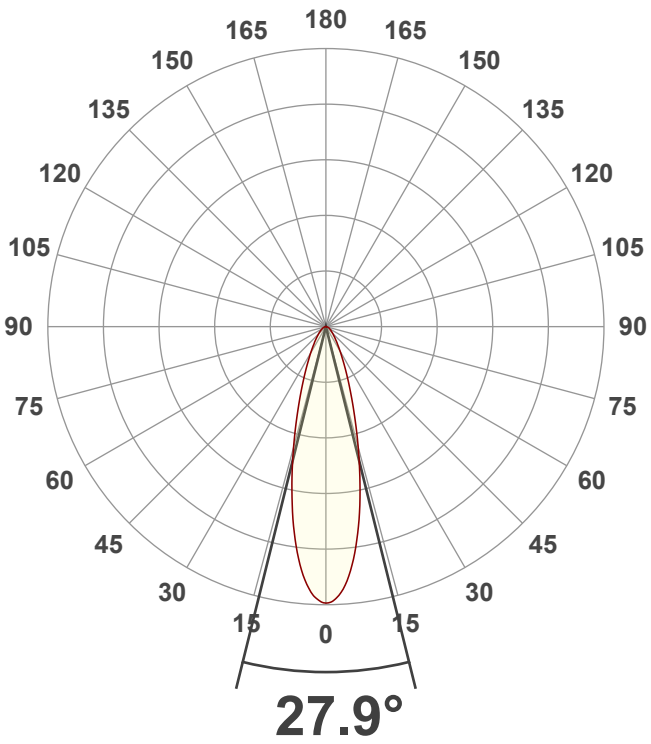


Average Beam Angle

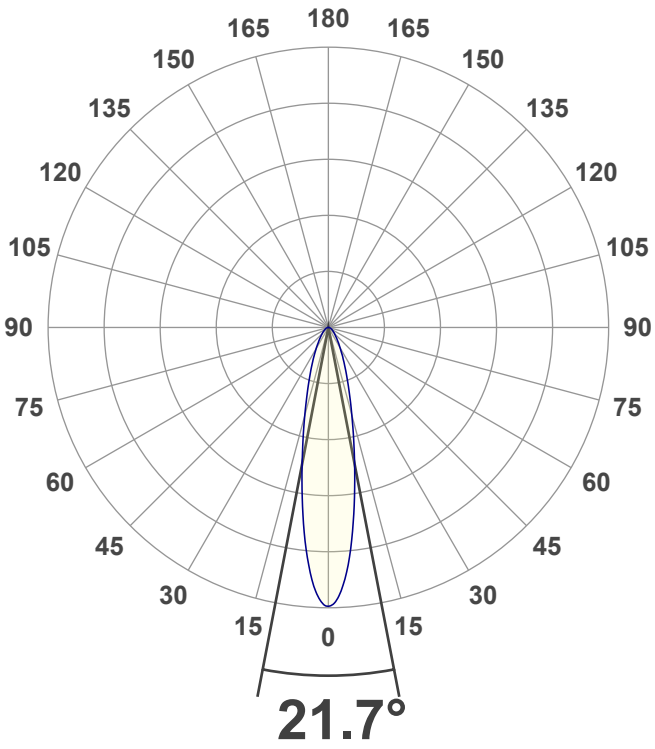


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

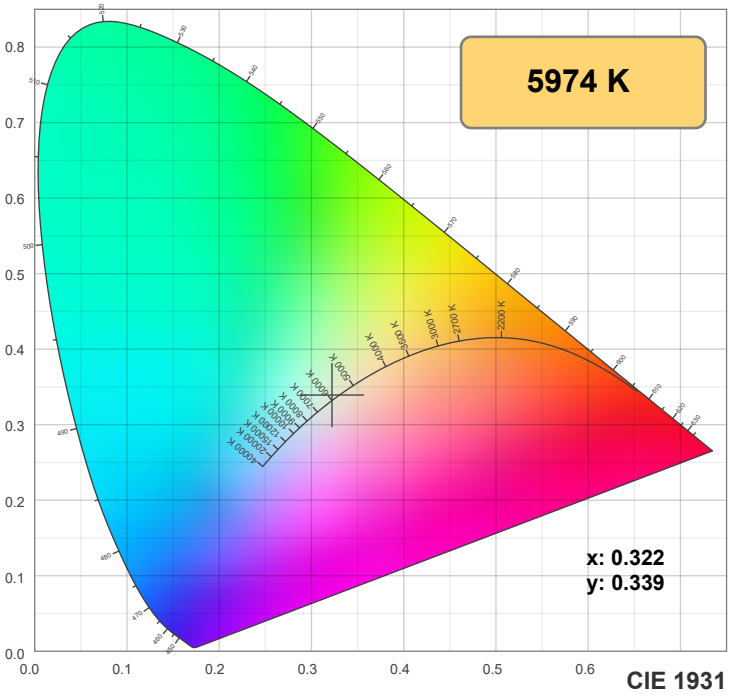


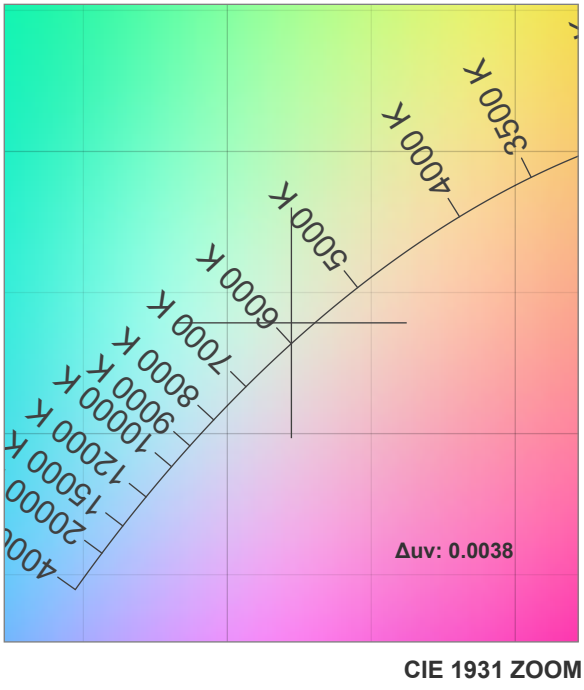
Angular Distribution 90 ° Plane



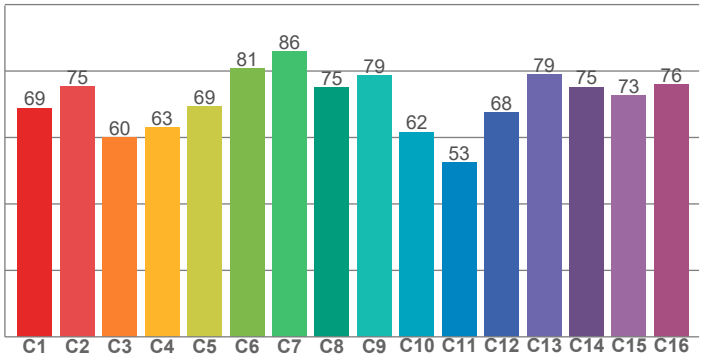
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Color details

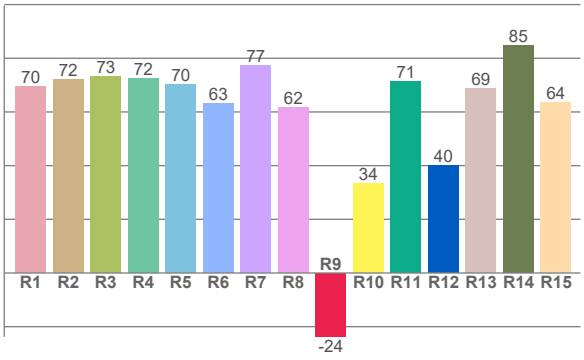




TM-30: 70.6



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
69.5	72.3	73.1	72.4	70.4	63.3	77.4	61.7	-23.8	33.5	71.5	40.2	68.7	84.7	63.5

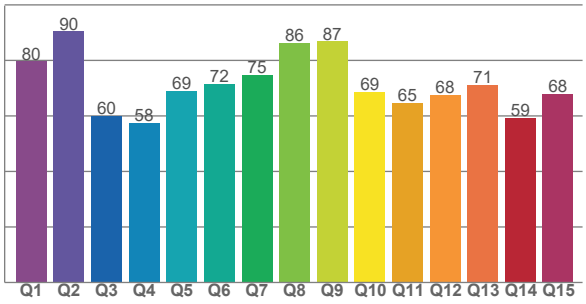
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
68.9	75.3	60.1	63.1	69.2	80.8	85.8	75.2	78.6	61.7	52.5	67.6	79.0	75.2	72.7	75.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79.6	90.5	60.0	57.5	69.1	71.6	74.8	86.2	86.9	68.7	64.8	67.6	71.2	59.3	67.9

CQS: 70.0



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
5974 K	70.0	-23.8	70.6	96.1	70.0	0.322	0.339	0.201	0.317	0.0038

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TM-30 details

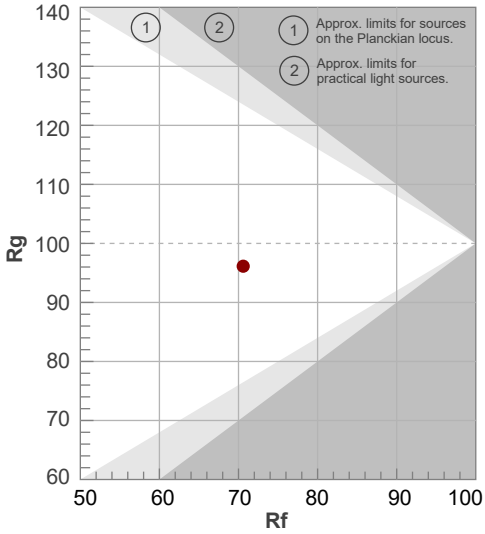
Rf 70.6

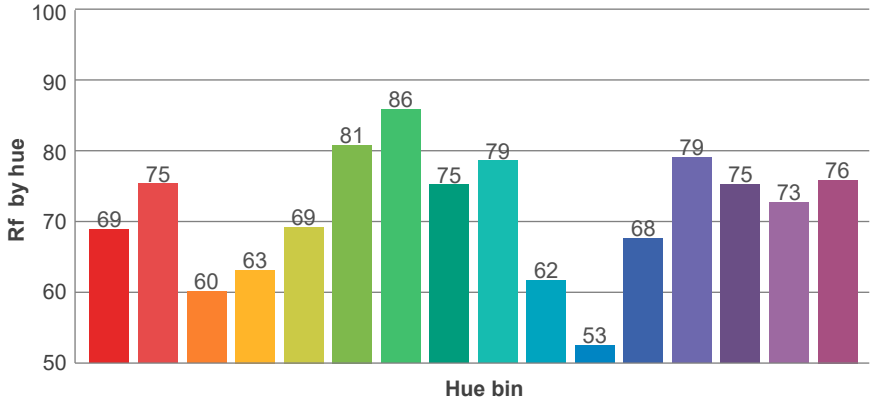
Fidelity index Rf

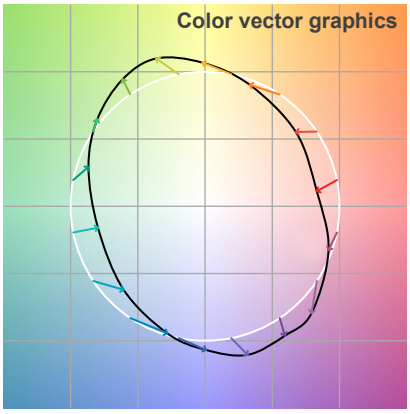
Rg 96.1

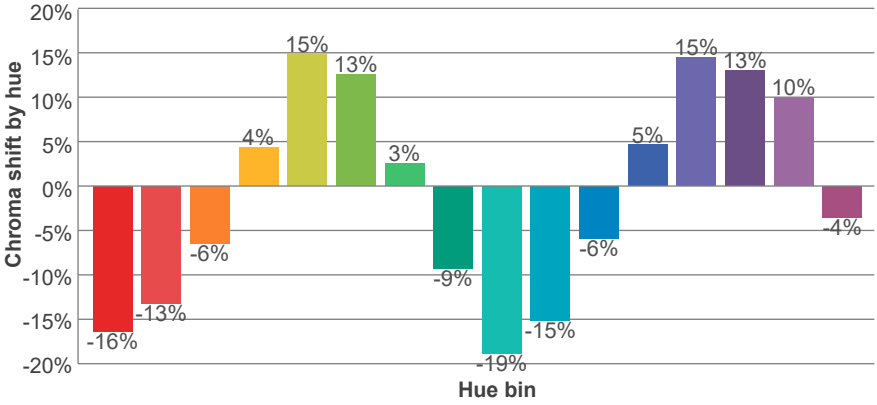
Gamut index Rg

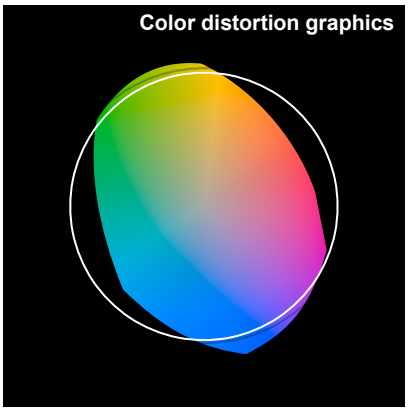
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	69	-16%	-5%
2	75	-13%	8%
3	60	-6%	23%
4	63	4%	23%
5	69	15%	14%
6	81	13%	-1%
7	86	3%	-9%
8	75	-9%	-12%
9	79	-19%	0%
10	62	-15%	18%
11	53	-6%	29%
12	68	5%	22%
13	79	15%	9%
14	75	13%	-4%
15	73	10%	-22%
16	76	-4%	-14%

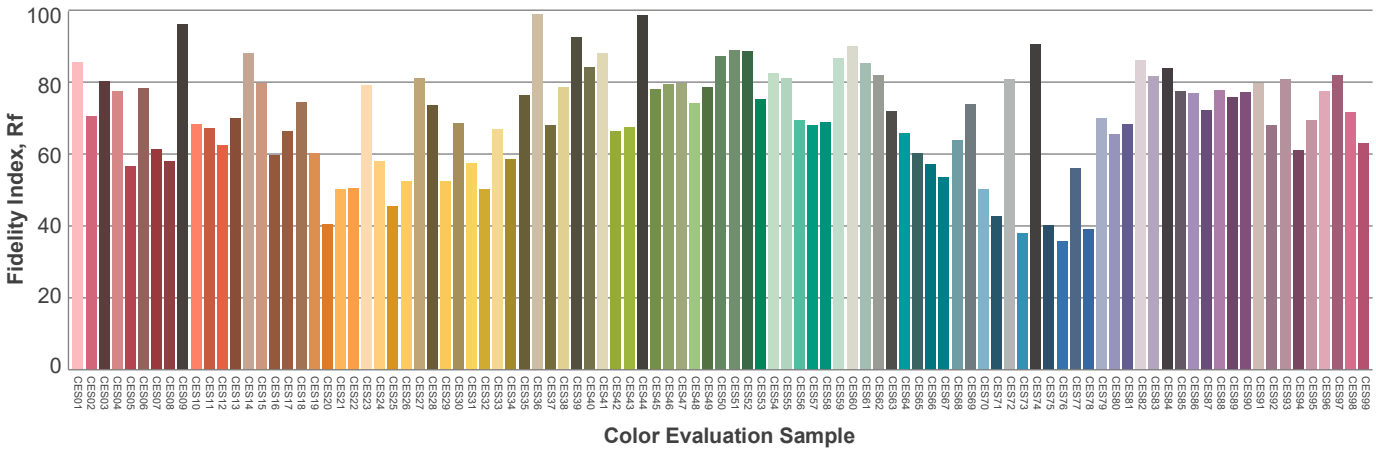






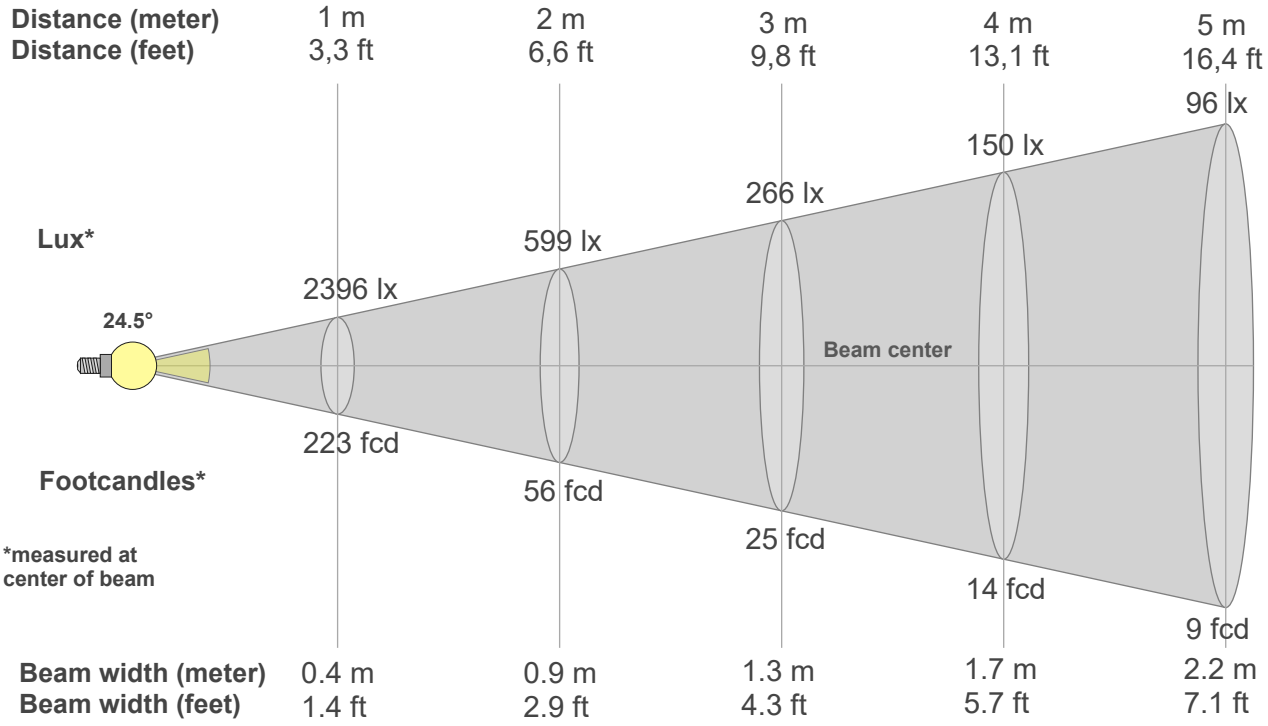






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Beam details



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
2396lx	599lx	266lx	150lx	96lx	67lx	49lx	37lx	30lx	24lx	20lx	17lx	14lx	12lx	11lx	9lx	8lx	7lx	7lx	6lx
222.6fc	55.6fcd	24.7fcd	13.9fcd	8.9fcd	6.2fcd	4.5fcd	3.5fcd	2.7fcd	2.2fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd

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°
2396	2322	2226	2068	1865	1639	1399	1170	964	784	637	519	425	349	289	242	204	174	148	128
100%	97%	93%	86%	78%	68%	58%	49%	40%	33%	27%	22%	18%	15%	12%	10%	9%	7%	6%	5%

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°
2396	2395	2204	1934	1633	1347	1097	896	731	602	499	419	352	299	253	216	185	157	138	120
100%	100%	92%	81%	68%	56%	46%	37%	31%	25%	21%	17%	15%	12%	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°
2396	2318	2217	2060	1857	1631	1394	1170	968	793	650	534	442	367	307	261	221	188	164	141
100%	97%	93%	86%	78%	68%	58%	49%	40%	33%	27%	22%	18%	15%	13%	11%	9%	8%	7%	6%

Intensities in 270° c-plane

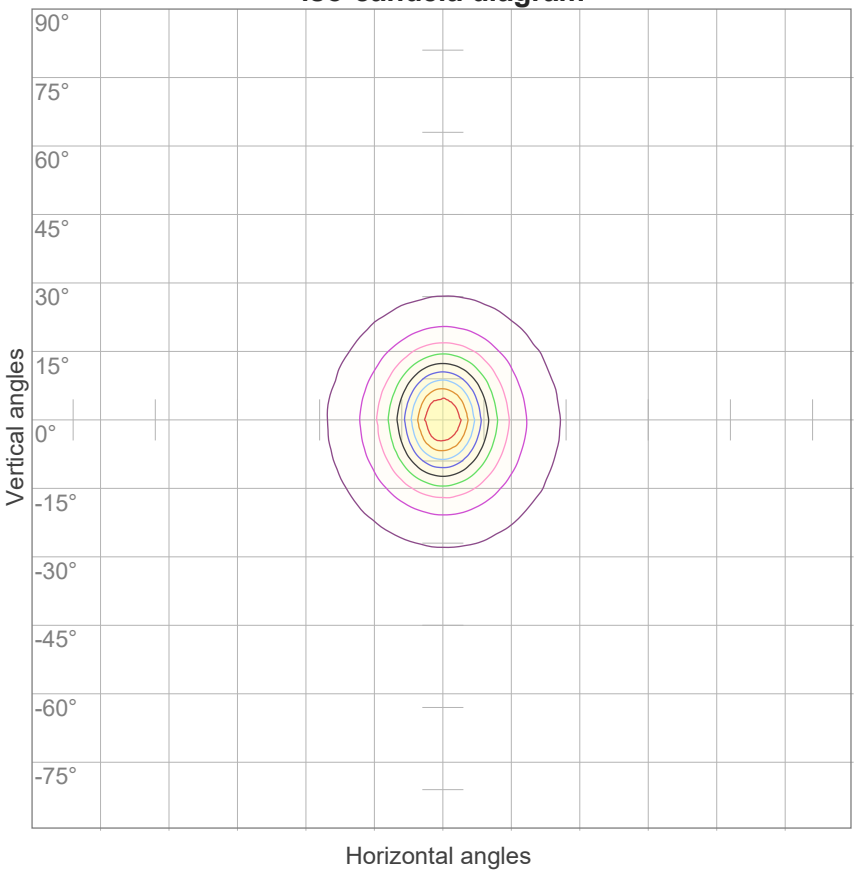
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2396	2395	2203	1932	1631	1346	1098	891	727	595	491	409	343	291	242	207	178	153	133	116
100%	100%	92%	81%	68%	56%	46%	37%	30%	25%	20%	17%	14%	12%	10%	9%	7%	6%	6%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.5°	58.6°	100.4°	94.0%	85.7%

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Iso Diagrams

iso-candela diagram



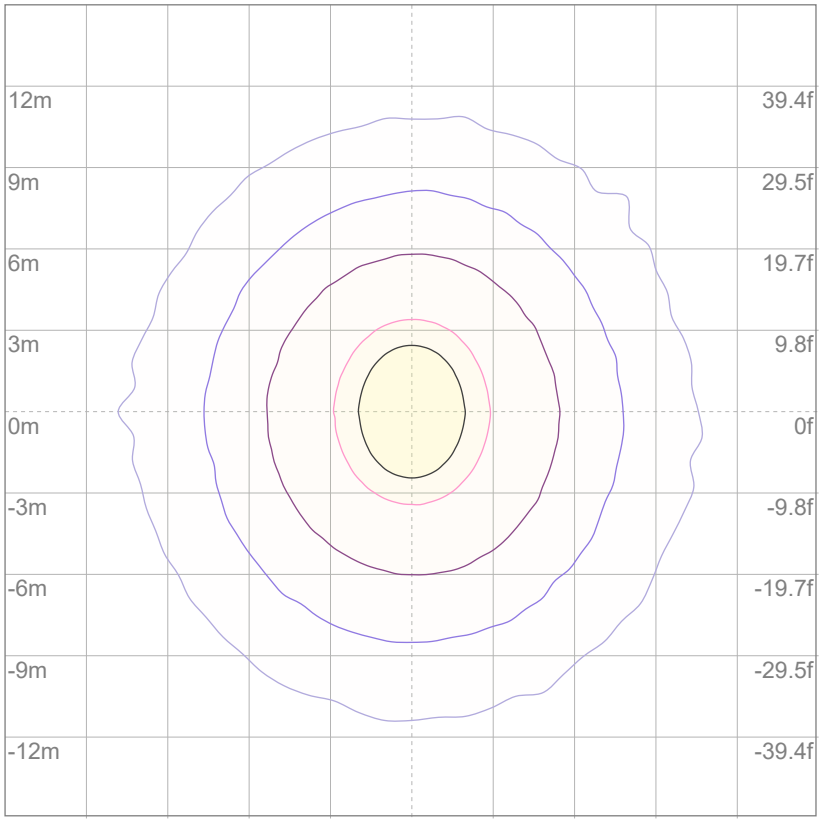
10%	240 cd
20%	479 cd
30%	719 cd
40%	958 cd
50%	1198 cd
60%	1437 cd
70%	1677 cd
80%	1917 cd
90%	2156 cd

Conditions:

Number of c-planes: 72

Candela at center: 2396 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.719 lx
5%	1.20 lx
10%	2.40 lx
30%	7.19 lx
50%	12.0 lx

Conditions:

Number of c-planes: 72

Lux at center: 24.0 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 852 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	104	102	100	100	98	97	96	95	94	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	95	89	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	75	74
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57
10	74	65	60	56	73	65	60	56	64	59	56	63	59	56	63	58	56	54

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
179 lm	255 lm	163 lm	98.3 lm	62.9 lm	42.2 lm	27.9 lm	17.0 lm	6.46 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.115 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):	296.8	34.8%
Medium(30-60):	98.7	11.6%
High(60-80):	22.4	2.6%
Very high(80-90):	3.3	0.4%
Back light		
Low(0-30):	300.4	35.2%
Medium(30-60):	104.5	12.3%
High(60-80):	22.7	2.7%
Very high(80-90):	3.1	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

