NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

73 Lumen/Watt

Light quality:

CRI: 84.6

Color temperature:

2734 K

Output: 607 lm
Peak: 1633 cd

Power: 8.3 W
PF: 1.0

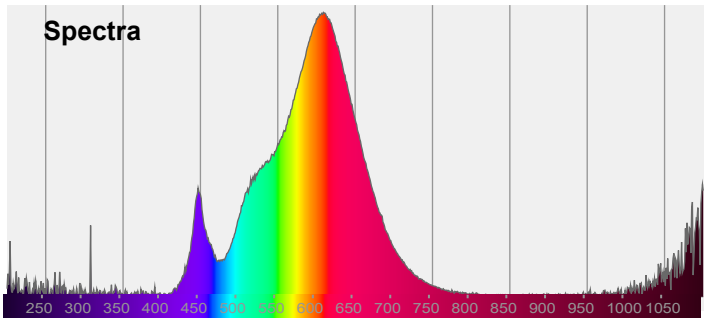
Tracking number: VT250718-005560

Product name:
GRZ-WT-25-24-IP67-30

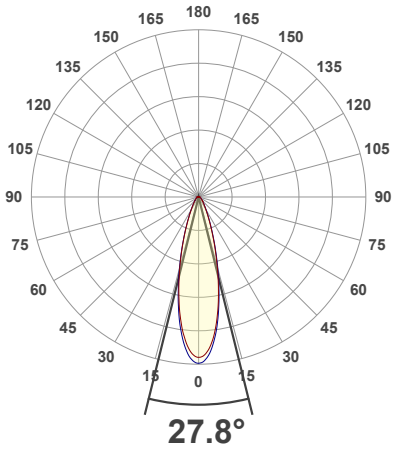
Item number:
1 foot GRZ-WT-12-24-IP67-30 25° optic

Date and time:
7/18/25 10:51:19 AM

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

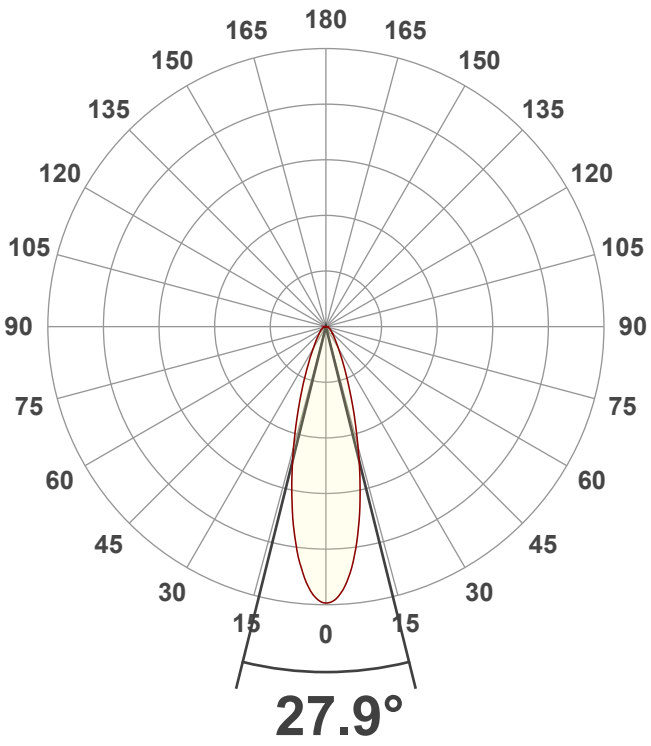


Average Beam Angle

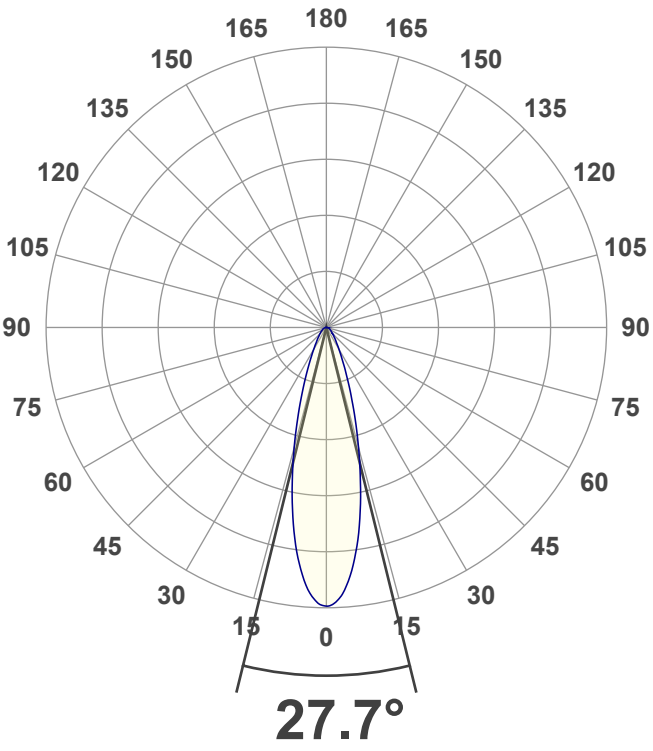


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

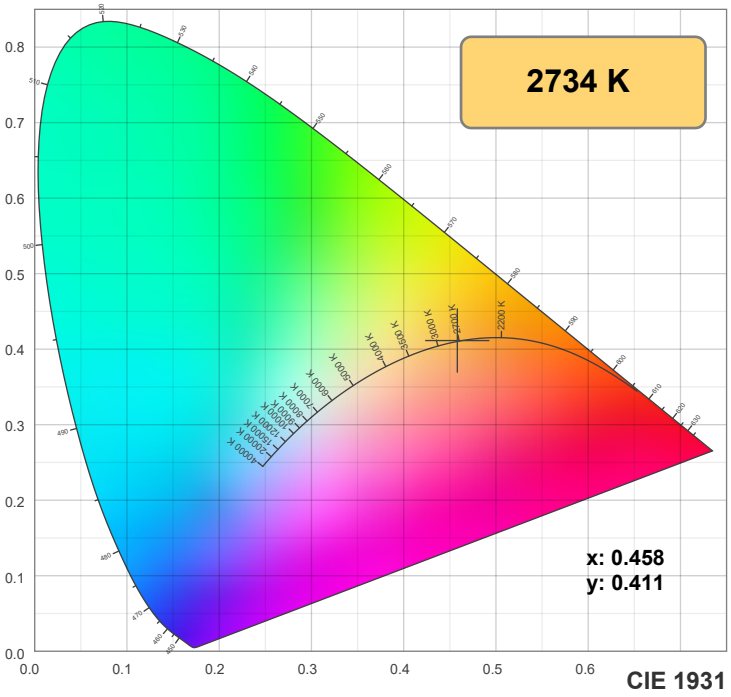


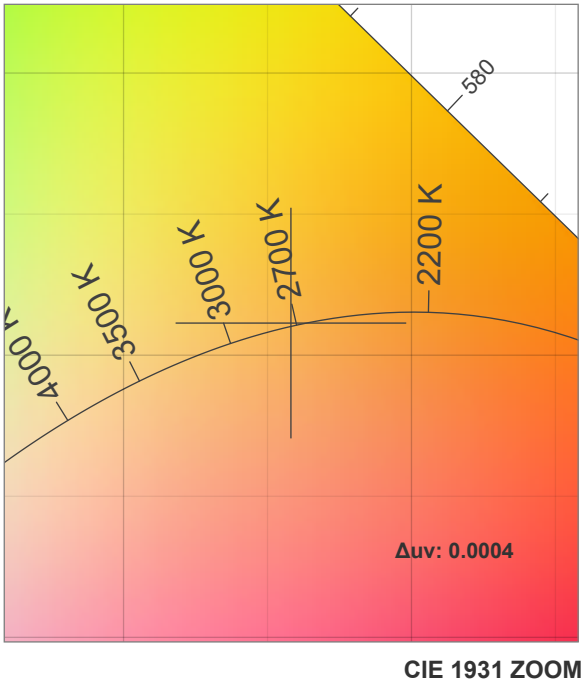
Angular Distribution 90 ° Plane



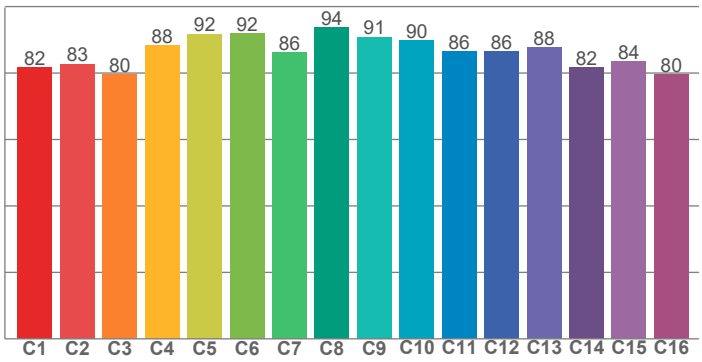
NOVA FLEX

Color details

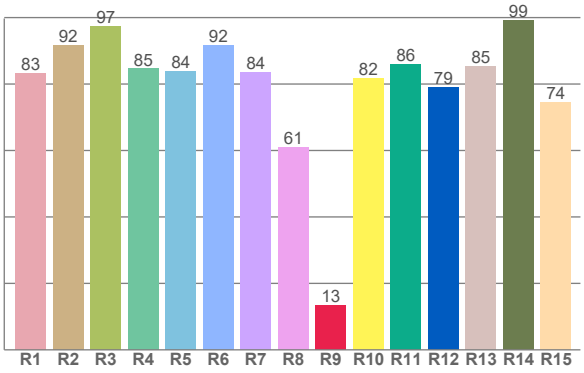




TM-30: 86.2



CRI: (R1-R8): 84.6



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
83.3	91.7	97.4	84.6	83.7	91.6	83.6	60.9	13.4	81.9	86.1	78.9	85.3	99.2	74.5

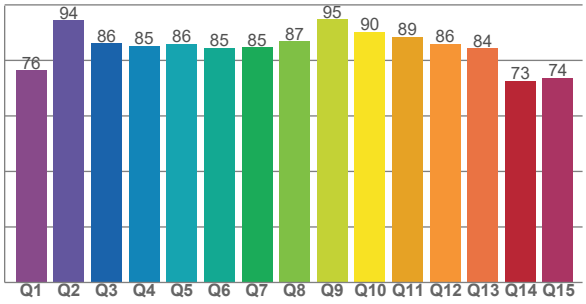
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.7	82.7	79.5	88.3	91.7	91.8	86.3	93.7	90.8	89.7	86.4	86.5	87.6	81.8	83.6	79.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.4	94.4	86.1	85.2	85.9	84.6	84.7	86.9	94.8	90.3	88.6	85.9	84.4	72.6	73.7

CQS: 83.5



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
2734 K	84.6	13.4	86.2	97.8	83.5	0.458	0.411	0.261	0.352	0.0004

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TM-30 details

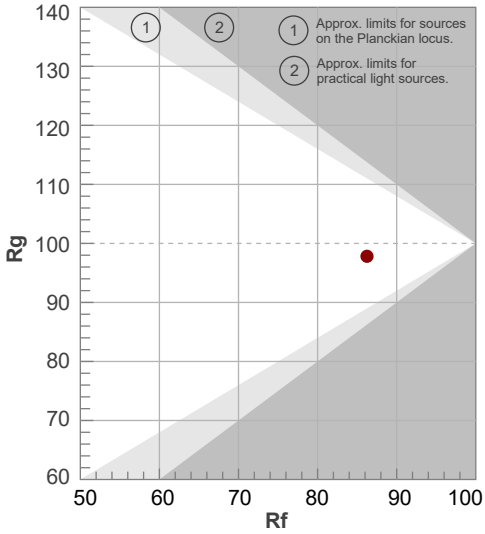
Rf 86.2

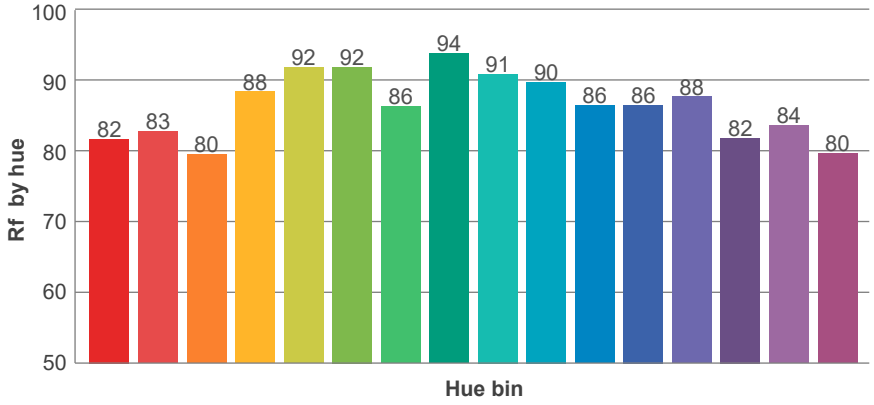
Fidelity index Rf

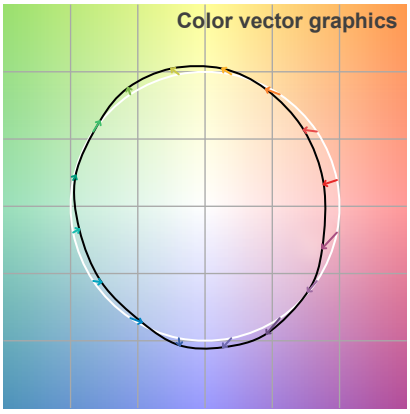
Rg 97.8

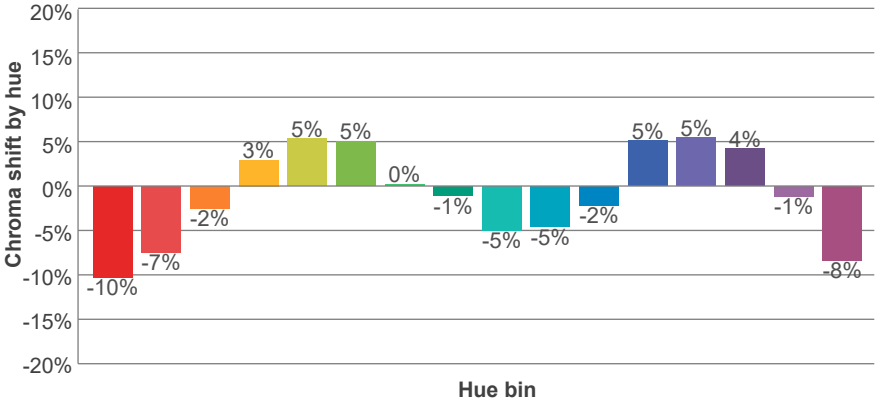
Gamut index Rg

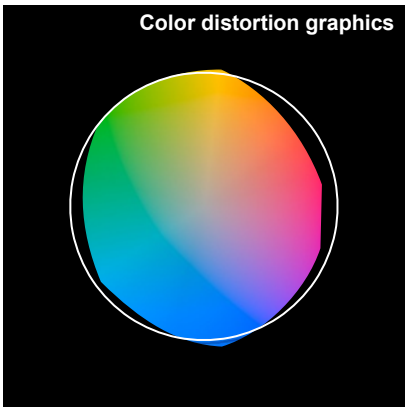
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	82	-10%	-1%
2	83	-7%	7%
3	80	-2%	11%
4	88	3%	7%
5	92	5%	5%
6	92	5%	-1%
7	86	0%	-9%
8	94	-1%	-4%
9	91	-5%	-2%
10	90	-5%	4%
11	86	-2%	9%
12	86	5%	2%
13	88	5%	-7%
14	82	4%	-14%
15	84	-1%	-10%
16	80	-8%	-14%

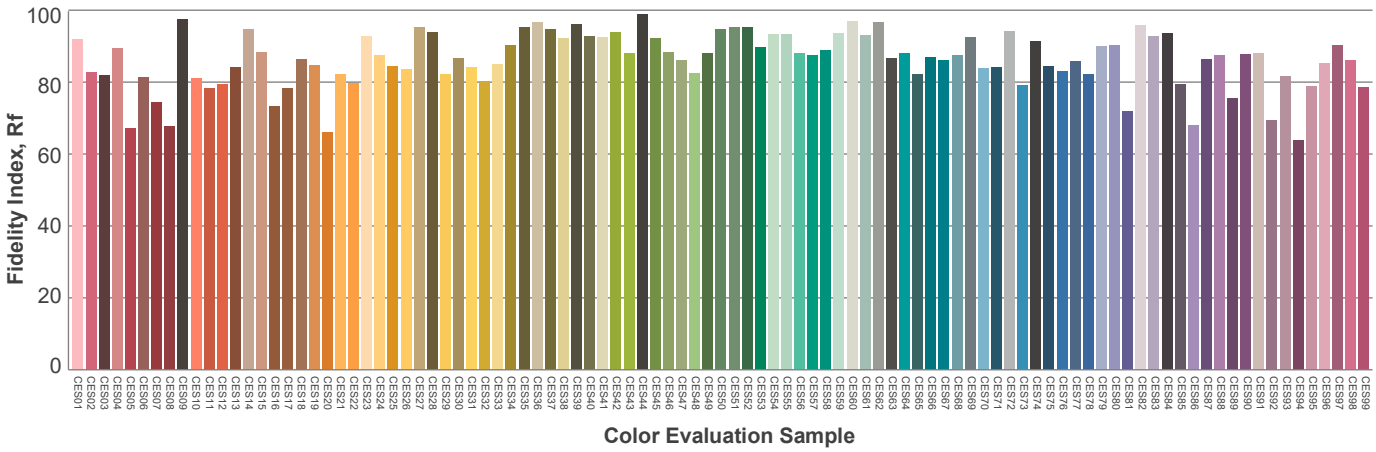






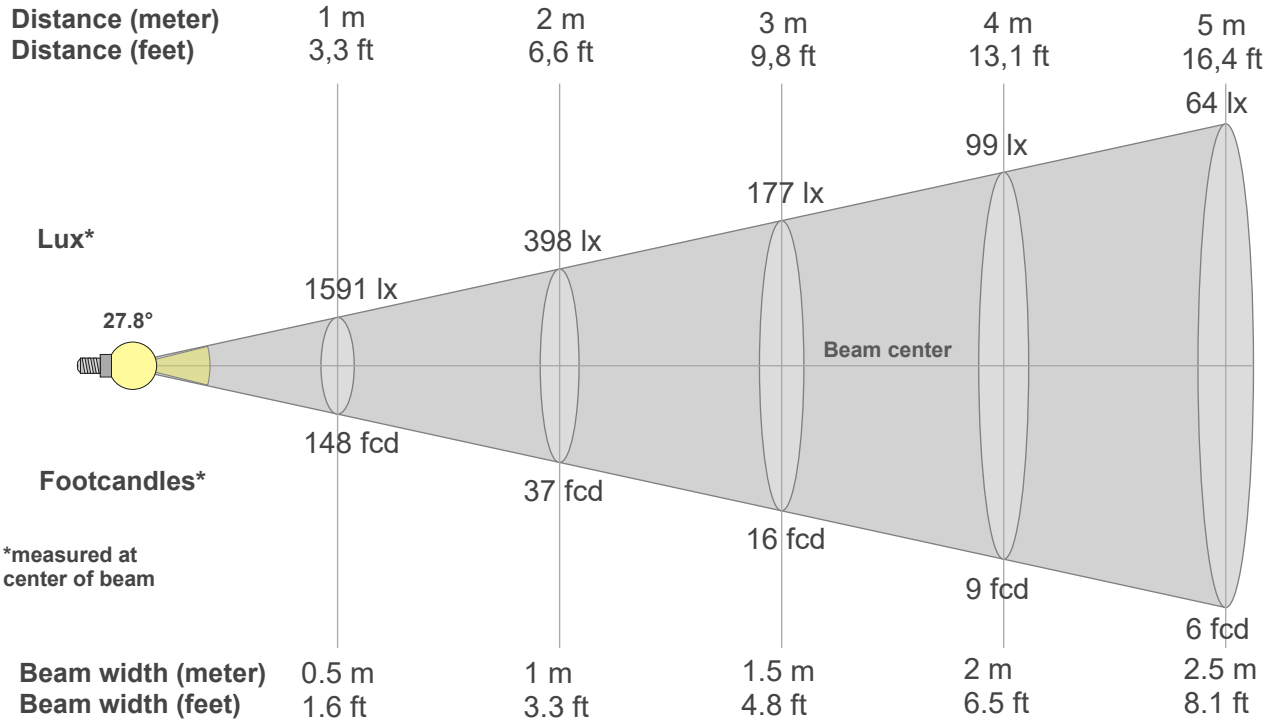






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Beam details



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
1591lx	398lx	177lx	99lx	64lx	44lx	32lx	25lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	4lx	4lx
147.8fc	37fcd	16.4fcd	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°
1591	1555	1491	1388	1252	1100	937	783	637	515	410	326	263	212	172	142	119	101	87	77
100%	98%	94%	87%	79%	69%	59%	49%	40%	32%	26%	21%	16%	13%	11%	9%	7%	6%	5%	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°
1591	1609	1539	1427	1290	1129	965	804	659	530	423	338	271	219	179	149	126	106	92	82
100%	101%	97%	90%	81%	71%	61%	51%	41%	33%	27%	21%	17%	14%	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°
1591	1549	1479	1371	1240	1093	936	783	644	521	419	336	268	216	177	146	123	104	92	79
100%	97%	93%	86%	78%	69%	59%	49%	40%	33%	26%	21%	17%	14%	11%	9%	8%	7%	6%	5%

Intensities in 270° c-plane

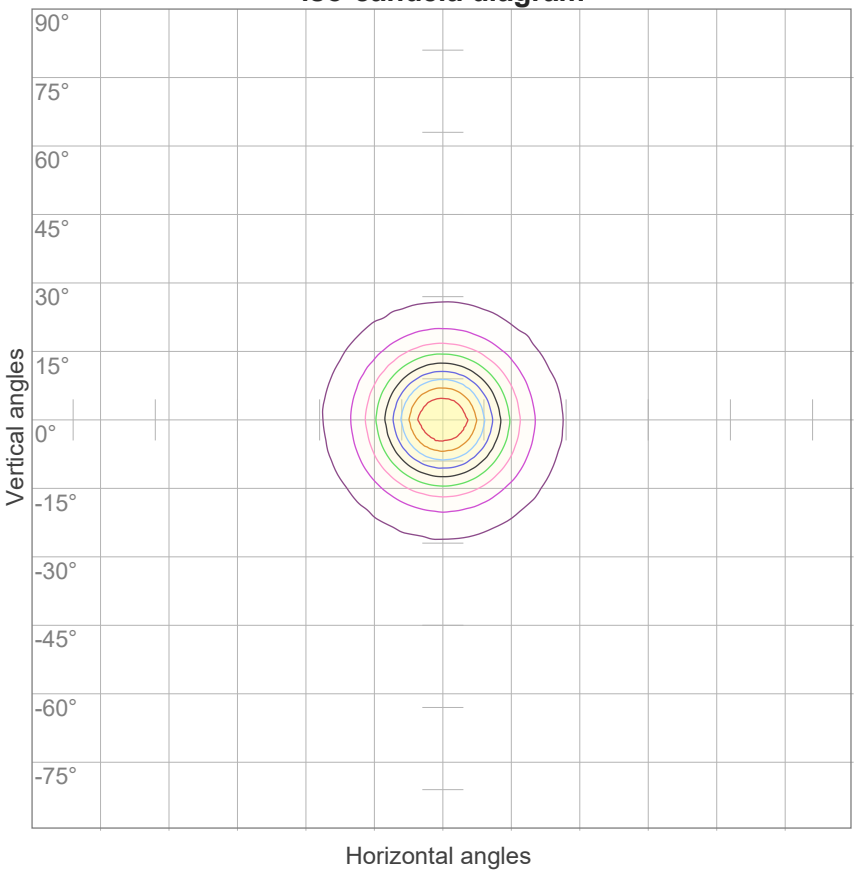
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1591	1608	1539	1429	1290	1131	964	805	658	531	424	336	270	216	179	148	124	105	92	80
100%	101%	97%	90%	81%	71%	61%	51%	41%	33%	27%	21%	17%	14%	11%	9%	8%	7%	6%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27.8°	58°	101.7°	93.7%	85.7%

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Iso Diagrams

iso-candela diagram



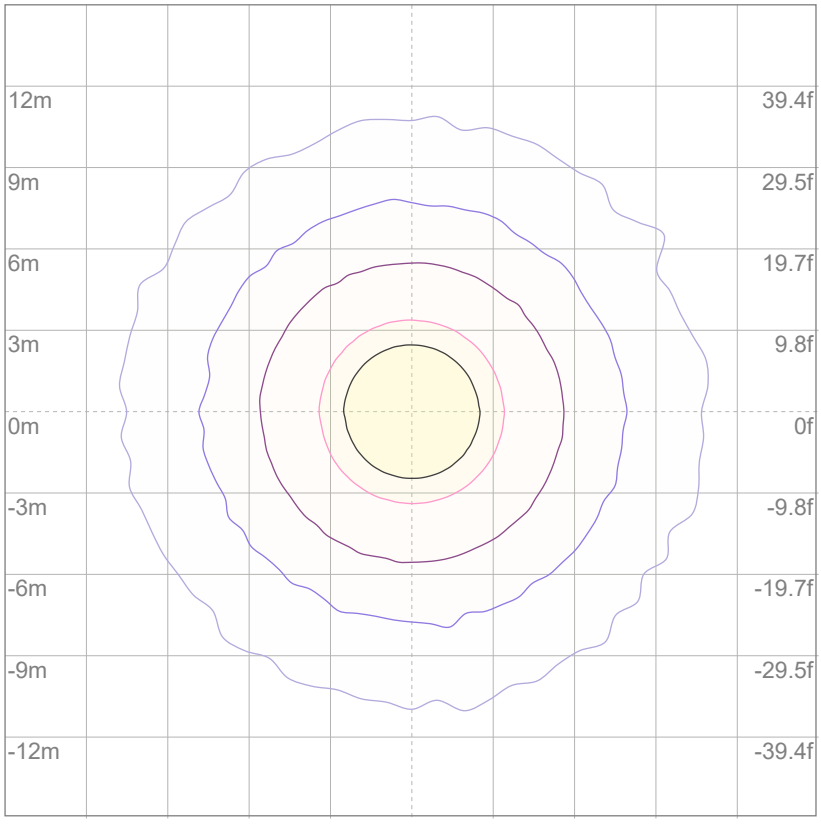
10%	159 cd
20%	318 cd
30%	477 cd
40%	637 cd
50%	796 cd
60%	955 cd
70%	1114 cd
80%	1273 cd
90%	1432 cd

Conditions:

Number of c-planes: 72

Candela at center: 1591 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.477 lx
5%	0.796 lx
10%	1.59 lx
30%	4.77 lx
50%	7.96 lx

Conditions:

Number of c-planes: 72

Lux at center: 15.9 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 607 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	94	91	94	91	89	91	89	87	85
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57
10	75	66	61	57	74	66	60	57	65	60	57	64	60	56	63	59	56	55

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
127 lm	196 lm	113 lm	61.8 lm	41.2 lm	29.5 lm	20.4 lm	12.7 lm	5.18 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.111 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):	217.9	35.9%
Medium(30-60):	66	10.9%
High(60-80):	16.7	2.7%
Very high(80-90):	2.7	0.4%
Back light		
Low(0-30):	218.4	36%
Medium(30-60):	66.4	10.9%
High(60-80):	16.4	2.7%
Very high(80-90):	2.5	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

