NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

76 Lumen/Watt

Light quality:

CRI: 84.0

Color temperature:

2709 K

Output: 622 lm
Peak: 1907 cd

Power: 8.2 W
PF: 1.0

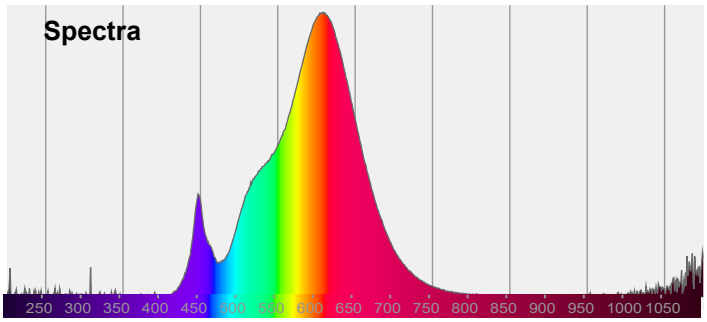
Tracking number: VT250717-005893

Product name:
GRZ White 12 24 27

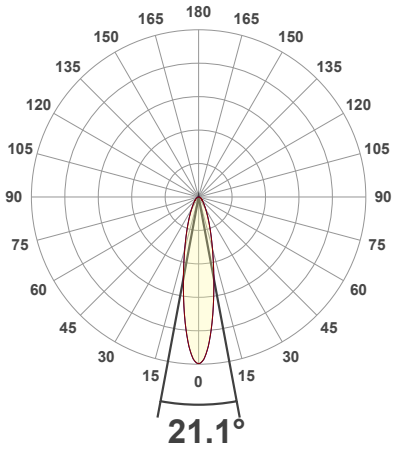
Item number:
1 foot Flex Grazer White 2700K 12°

Date and time:
7/17/25 8:53:39 AM

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

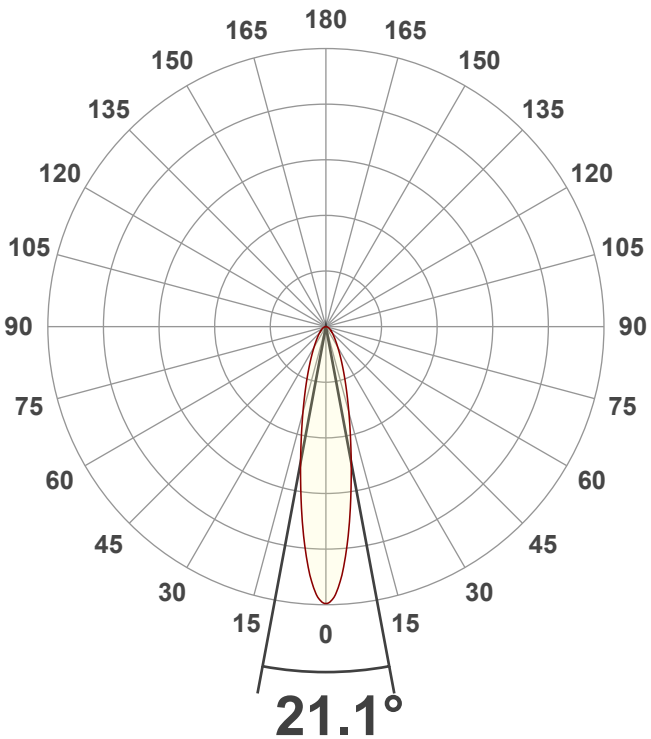


Average Beam Angle

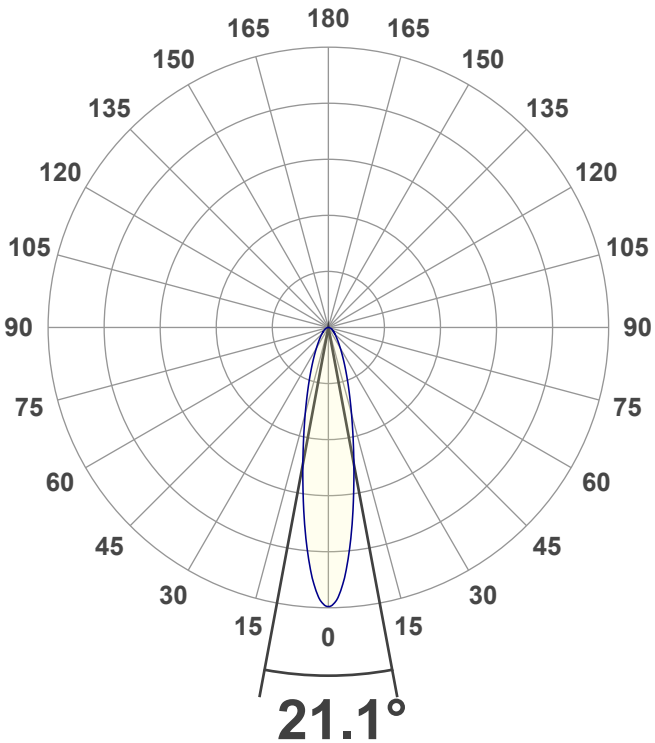


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

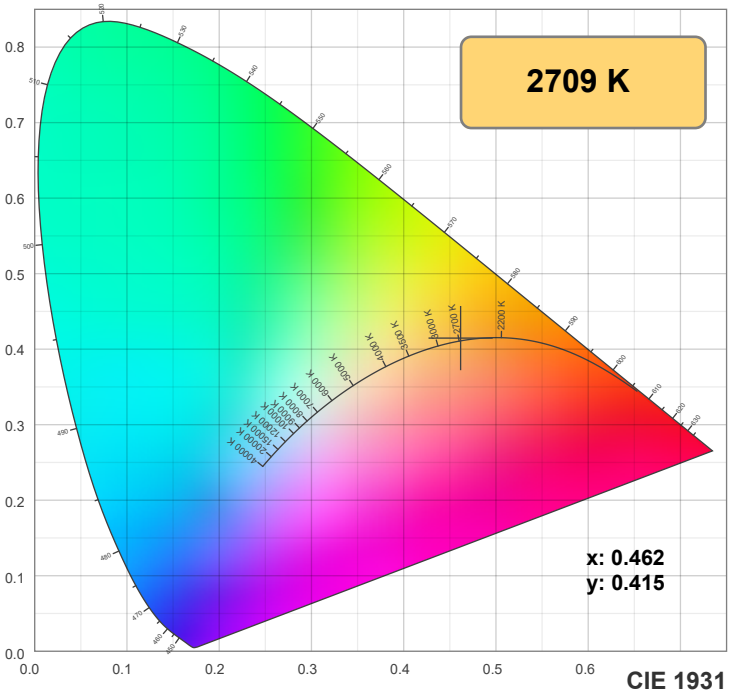


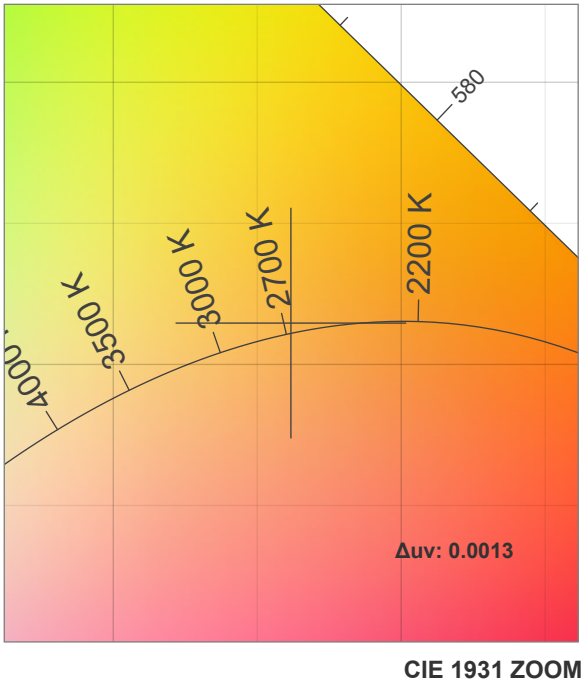
Angular Distribution 90 ° Plane



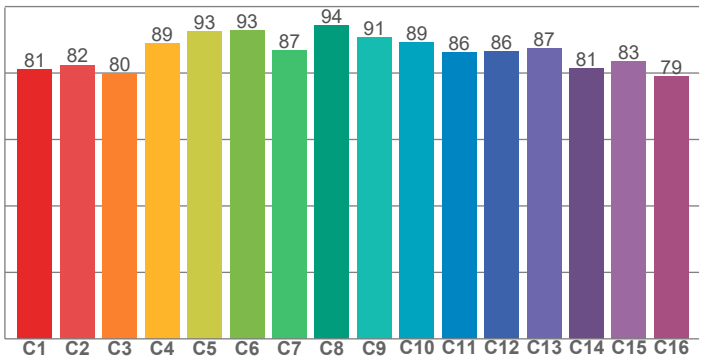
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Color details

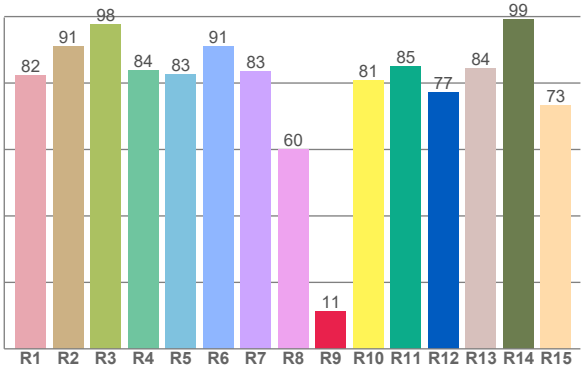




TM-30: 86.3



CRI: (R1-R8): 84.0



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
82.4	91.1	97.5	83.8	82.7	90.9	83.5	60.0	11.2	80.7	85.0	77.2	84.4	99.3	73.3

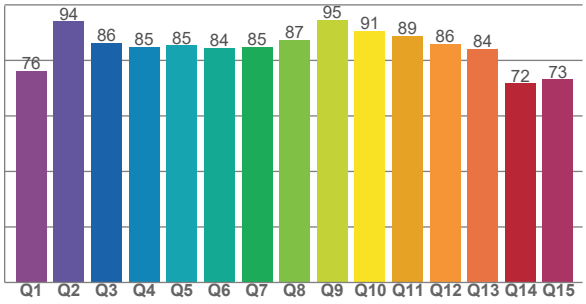
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.1	82.4	79.8	89.0	92.5	92.8	86.8	94.2	90.7	89.2	86.1	86.4	87.5	81.4	83.5	79.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.2	94.0	86.3	84.9	85.4	84.4	84.8	87.3	94.7	90.6	88.8	86.0	84.2	71.7	73.2

CQS: 83.3



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
2709 K	84.0	11.2	86.3	97.0	83.3	0.462	0.415	0.262	0.353	0.0013

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TM-30 details

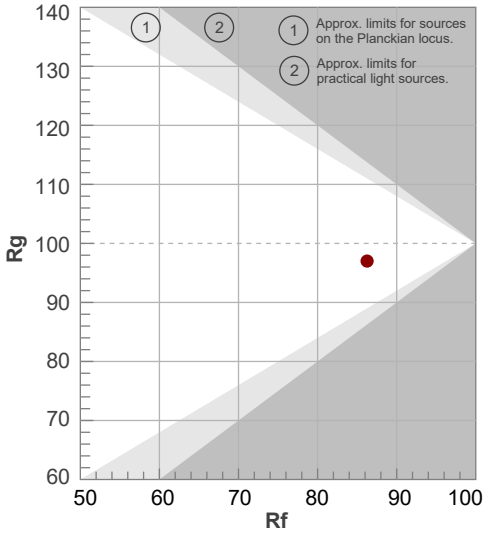
Rf 86.3

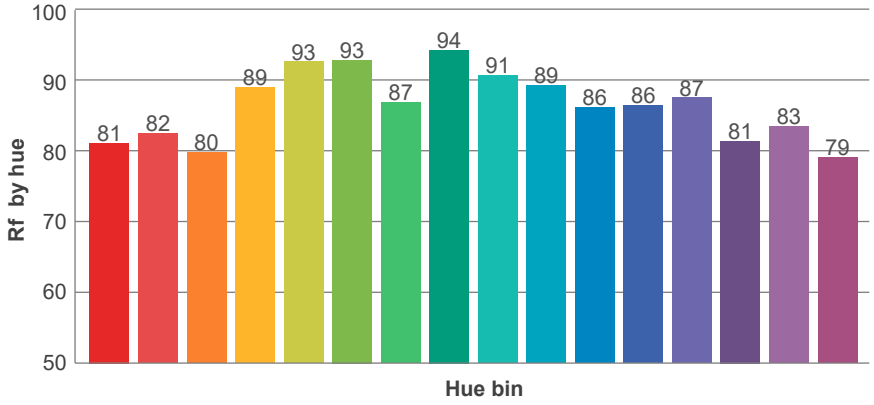
Fidelity index Rf

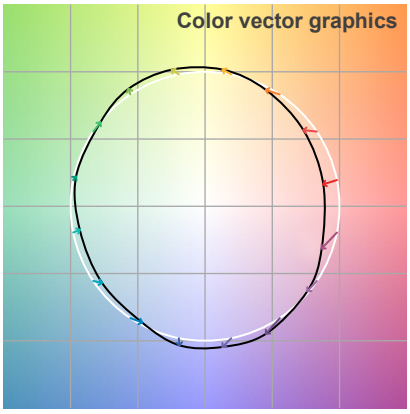
Rg 97.0

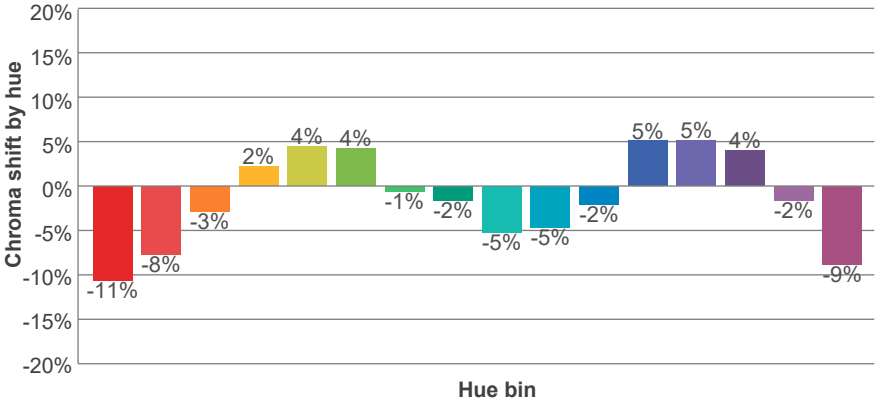
Gamut index Rg

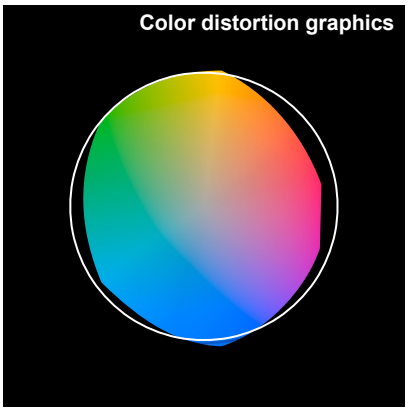
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	81	-11%	-1%
2	82	-8%	6%
3	80	-3%	10%
4	89	2%	7%
5	93	4%	4%
6	93	4%	-1%
7	87	-1%	-9%
8	94	-2%	-3%
9	91	-5%	-1%
10	89	-5%	5%
11	86	-2%	9%
12	86	5%	2%
13	87	5%	-8%
14	81	4%	-15%
15	83	-2%	-10%
16	79	-9%	-14%

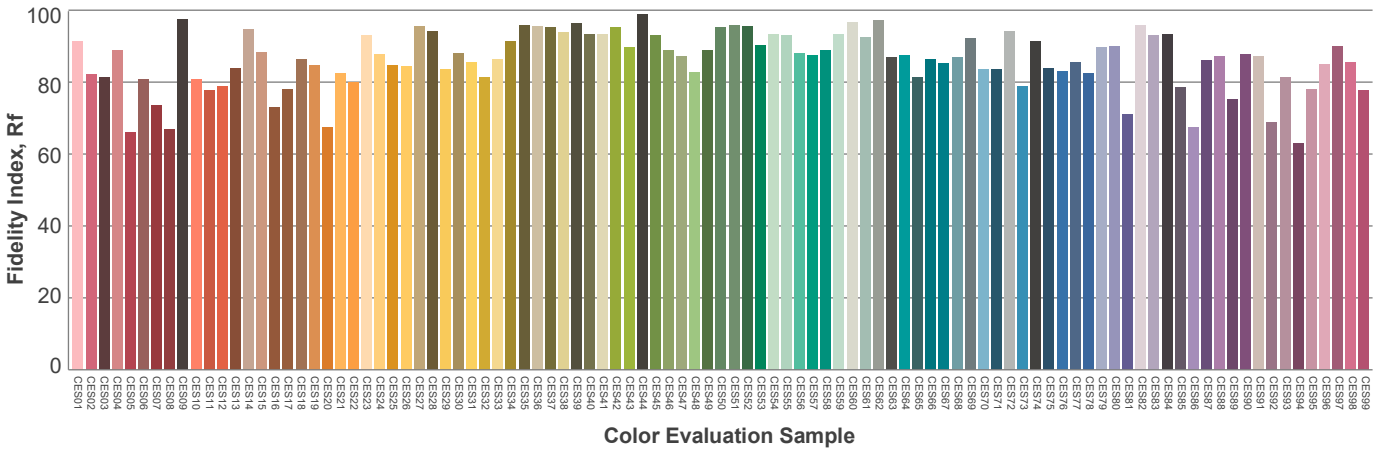






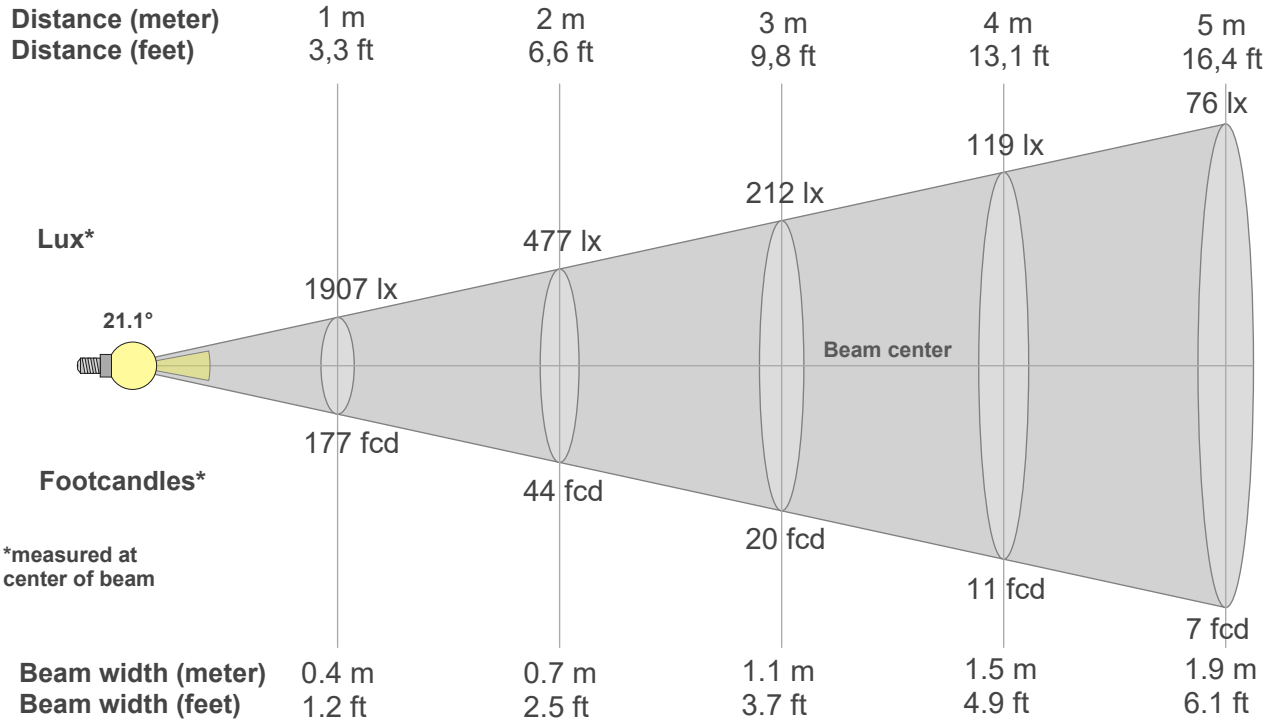






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Beam details



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
1907lx	477lx	212lx	119lx	76lx	53lx	39lx	30lx	24lx	19lx	16lx	13lx	11lx	10lx	8lx	7lx	7lx	6lx	5lx	5lx
177.1fcd	44.3fcd	19.7fcd	11.1fcd	7.1fcd	4.9fcd	3.6fcd	2.8fcd	2.2fcd	1.8fcd	1.5fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	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°
1907	1850	1684	1460	1225	1009	826	677	556	460	381	318	267	225	192	163	141	122	107	94
100%	97%	88%	77%	64%	53%	43%	36%	29%	24%	20%	17%	14%	12%	10%	9%	7%	6%	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°
1907	1850	1684	1460	1225	1009	826	677	556	460	381	318	267	225	192	163	141	122	107	94
100%	97%	88%	77%	64%	53%	43%	36%	29%	24%	20%	17%	14%	12%	10%	9%	7%	6%	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°
1907	1850	1684	1460	1225	1009	826	677	556	460	381	318	267	225	192	163	141	122	107	94
100%	97%	88%	77%	64%	53%	43%	36%	29%	24%	20%	17%	14%	12%	10%	9%	7%	6%	6%	5%

Intensities in 270° c-plane

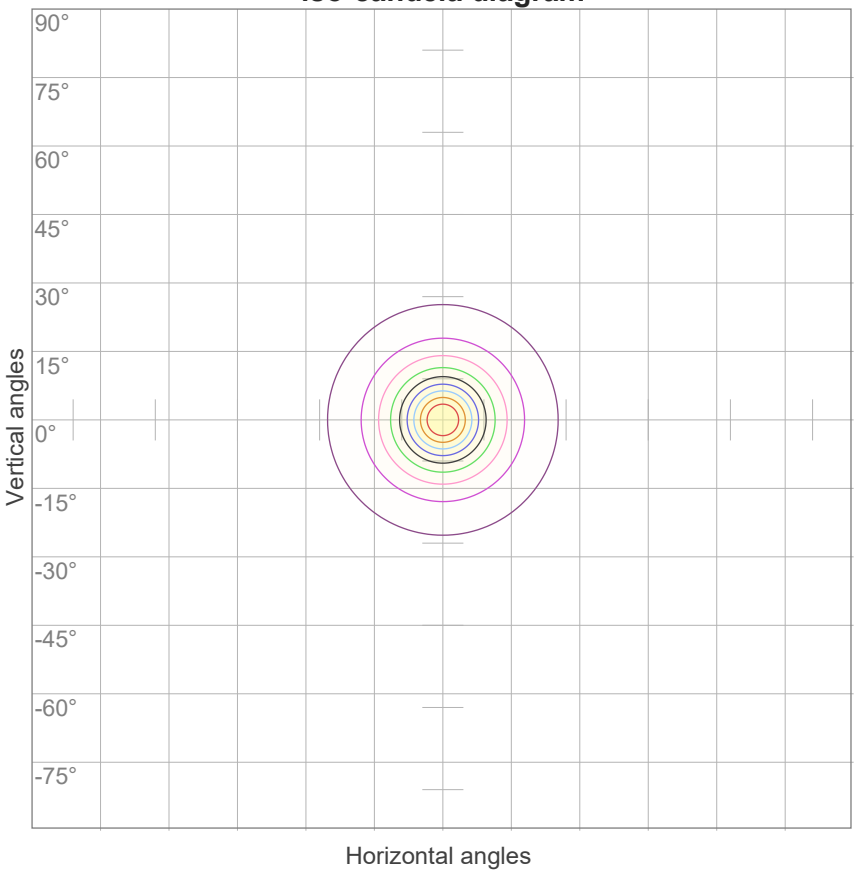
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1907	1850	1684	1460	1225	1009	826	677	556	460	381	318	267	225	192	163	141	122	107	94
100%	97%	88%	77%	64%	53%	43%	36%	29%	24%	20%	17%	14%	12%	10%	9%	7%	6%	6%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.1°	56.1°	101.5°	92.3%	83.1%

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Iso Diagrams

iso-candela diagram



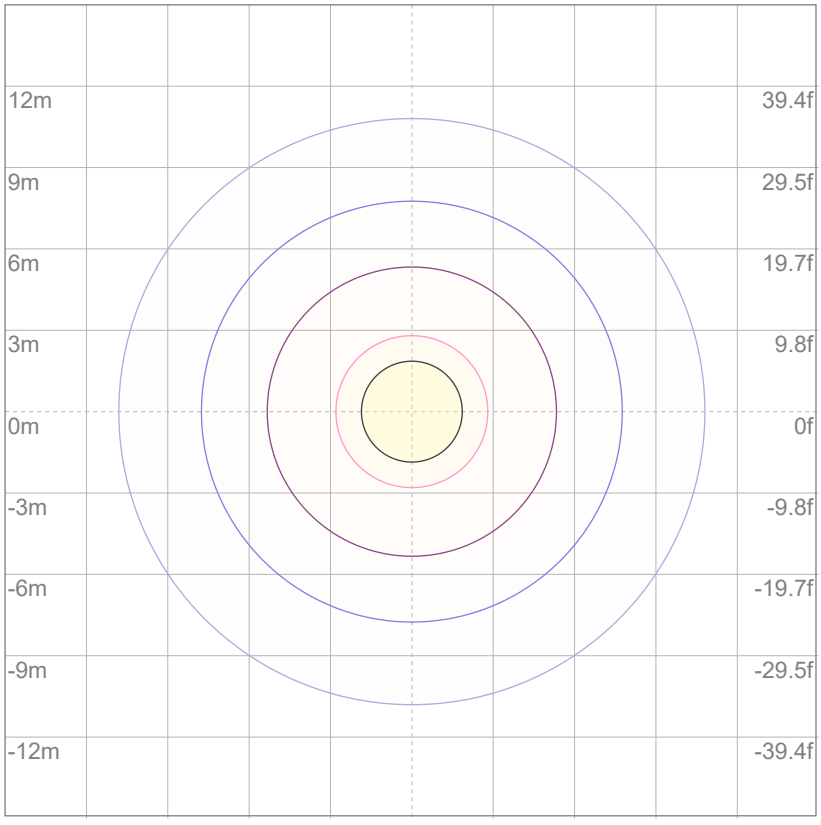
10%	191 cd
20%	381 cd
30%	572 cd
40%	763 cd
50%	953 cd
60%	1144 cd
70%	1335 cd
80%	1525 cd
90%	1716 cd

Conditions:

Number of c-planes: 72

Candela at center: 1907 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.572 lx
5%	0.953 lx
10%	1.91 lx
30%	5.72 lx
50%	9.53 lx

Conditions:

Number of c-planes: 72

Lux at center: 19.1 lx

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

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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	17.8	18.5	18.0	18.8	19.0	18.5	19.2	18.6	19.4	19.6
	3H	18.4	19.3	18.8	19.5	19.7	19.3	20.1	19.7	20.4	20.5
	4H	18.7	19.5	19.1	19.8	20.0	19.8	20.5	20.1	20.8	21.0
	6H	19.0	19.7	19.3	20.0	20.4	20.2	20.9	20.5	21.2	21.5
	8H	19.1	19.8	19.4	20.1	20.5	20.4	21.0	20.7	21.3	21.7
	12H	19.1	19.8	19.5	20.1	20.5	20.5	21.1	20.8	21.5	21.9
4H	2H	18.1	18.9	18.5	19.1	19.4	18.7	19.4	19.0	19.7	19.9
	3H	19.1	19.7	19.4	20.0	20.5	19.8	20.4	20.2	20.8	21.2
	4H	19.4	20.0	19.8	20.4	20.9	20.3	20.9	20.7	21.3	21.8
	6H	19.7	20.3	20.2	20.7	21.0	20.8	21.4	21.3	21.8	22.1
	8H	19.8	20.4	20.3	20.7	21.1	21.0	21.6	21.5	21.9	22.3
	12H	19.9	20.3	20.4	20.7	21.2	21.2	21.6	21.7	22.0	22.5
8H	4H	19.6	20.1	20.1	20.5	20.8	20.4	21.0	20.9	21.3	21.7
	6H	20.0	20.4	20.5	20.9	21.4	21.0	21.4	21.5	21.9	22.4
	8H	20.2	20.6	20.7	21.1	21.7	21.4	21.7	21.9	22.2	22.8
	12H	20.3	20.6	20.9	21.1	21.7	21.6	21.9	22.2	22.4	23.0
12H	4H	19.6	20.0	20.1	20.4	20.9	20.4	20.8	20.9	21.2	21.7
	6H	20.1	20.4	20.6	20.9	21.6	21.1	21.4	21.6	21.9	22.6
	8H	20.3	20.6	20.9	21.1	21.7	21.4	21.7	22.0	22.2	22.8
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.4 / -0.4					0.4 / -0.3				
S = 1.5H		1.1 / -0.8					1.0 / -0.7				
S = 2.0H		1.9 / -1.3					1.7 / -1.1				
CIE 117-1995. Corrected glare indices referring to 622 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	110	110	110	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	101	96	93	104	99	95	92	96	92	89	92	90	87	89	87	85	83
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	84	82	79	77
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	83	74	68	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	70	64	60	78	69	64	60	68	63	60	67	63	59	66	62	59	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55
10	73	64	58	55	72	63	58	54	63	58	54	62	57	54	61	57	54	53

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
131 lm	172 lm	114 lm	72.8 lm	49.7 lm	34.7 lm	22.5 lm	13.1 lm	4.84 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.032 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	7.23 lm

LCS table

BUG rating:	B1 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	211.2	33.9%
Medium(30-60):	79.5	12.8%
High(60-80):	18	2.9%
Very high(80-90):	2.5	0.4%
Back light		
Low(0-30):	211.2	33.9%
Medium(30-60):	79.5	12.8%
High(60-80):	18	2.9%
Very high(80-90):	2.5	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

