NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

76 Lumen/Watt

Light quality:

CRI: 84.2

Color temperature:

2968 K

Output: 605 lm
Peak: 2070 cd

Power: 8.0 W
PF: 1.0

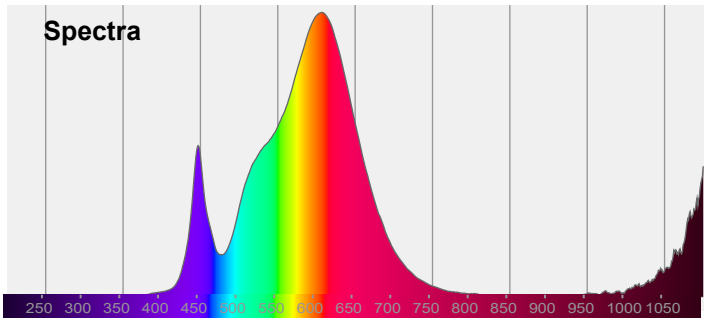
Tracking number: VT250728-005463

Product name:
GRZ Black 12 24 30

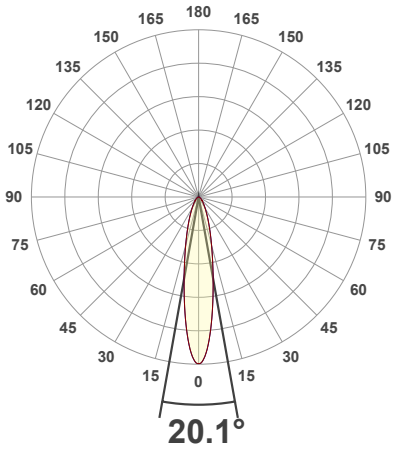
Item number:
1 foot Flex Grazer Black 3000K 12°

Date and time:
7/28/25 1:27:17 PM

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

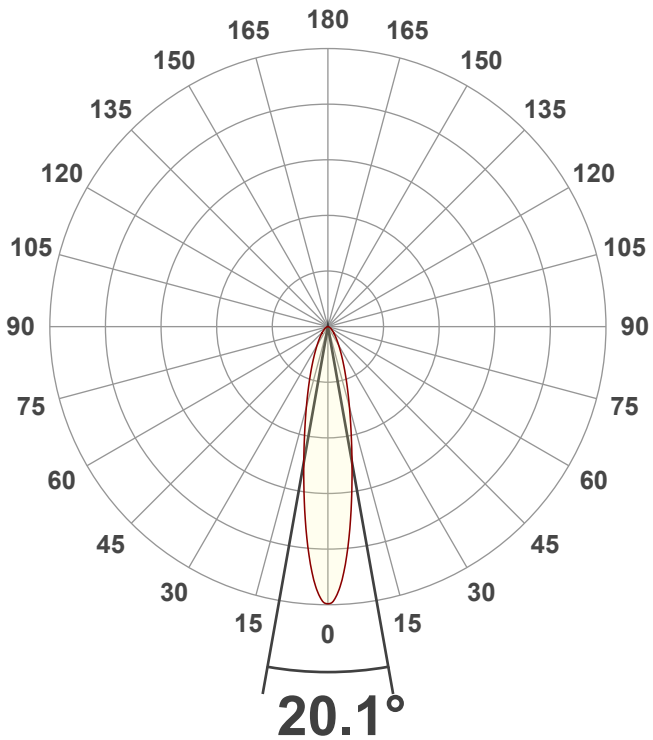


Average Beam Angle

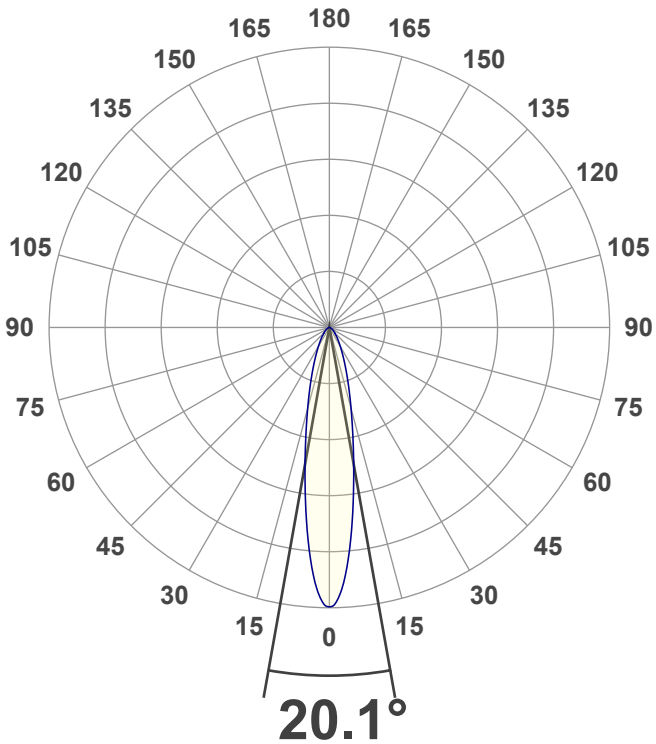


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

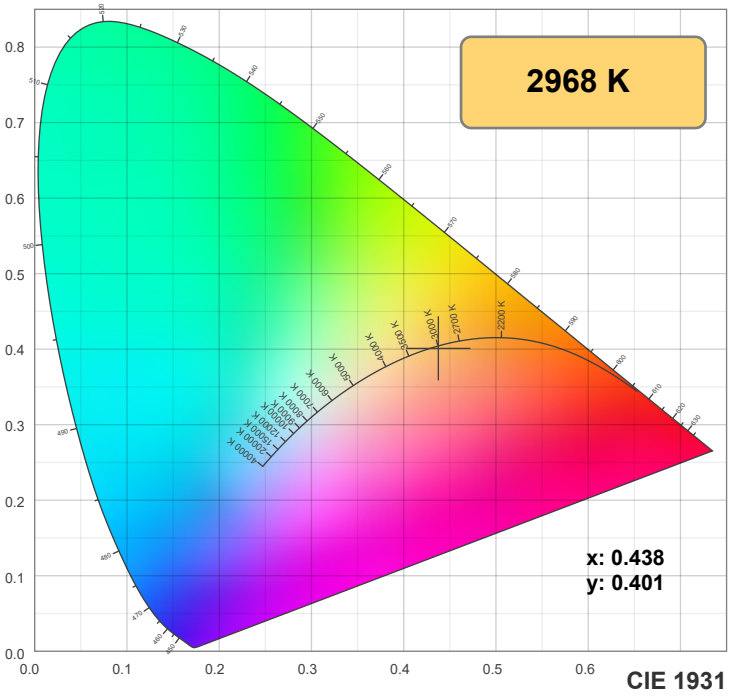


Angular Distribution 90 ° Plane

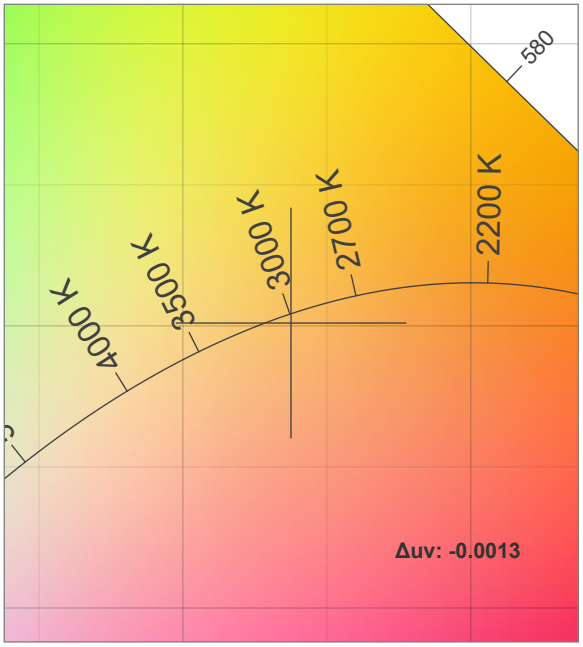


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Color details

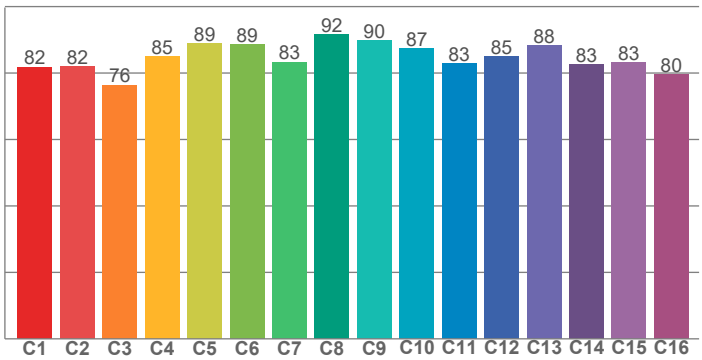


CIE 1931

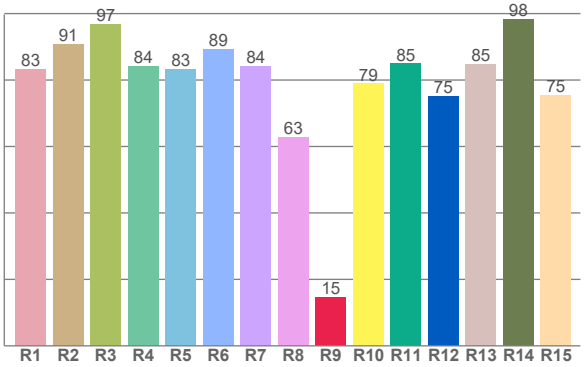


CIE 1931 ZOOM

TM-30: 84.6



CRI: (R1-R8): 84.2



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
83.1	90.7	96.8	84.1	83.3	89.1	84.2	62.7	14.6	78.9	84.9	75.1	84.8	98.3	75.3

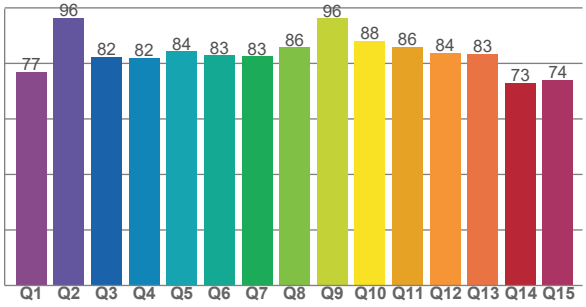
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.9	82.0	76.4	85.0	88.9	88.6	83.3	91.6	89.8	87.4	82.9	84.9	88.3	82.6	83.3	79.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.0	96.4	82.3	82.0	84.3	82.9	82.6	85.8	96.2	88.0	85.8	83.7	83.3	72.9	74.1

CQS: 82.5



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
2968 K	84.2	14.6	84.6	99.2	82.5	0.438	0.401	0.252	0.347	-0.0013

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TM-30 details

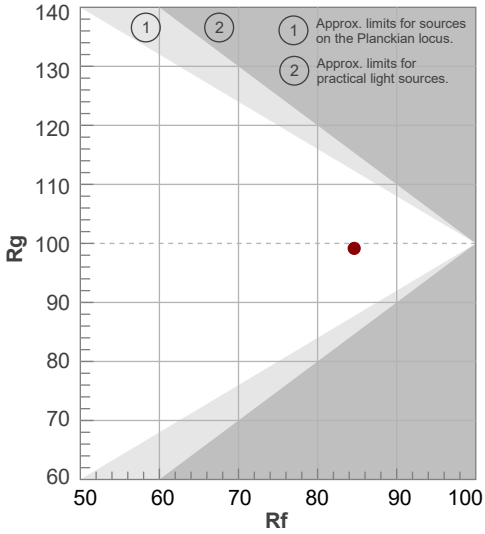
Rf 84.6

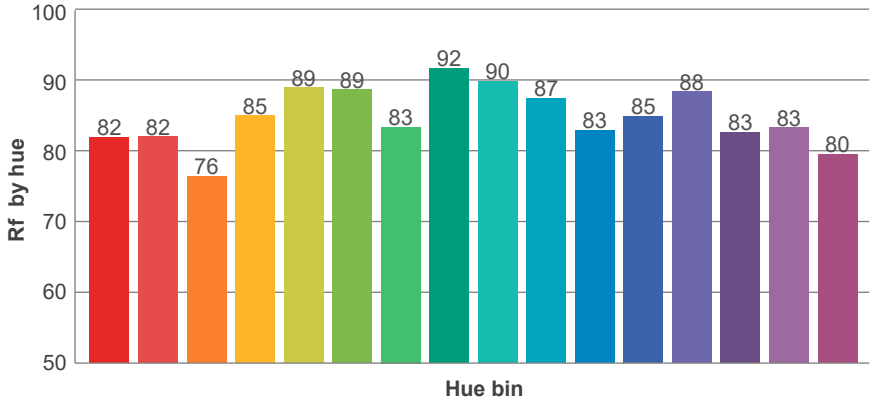
Fidelity index Rf

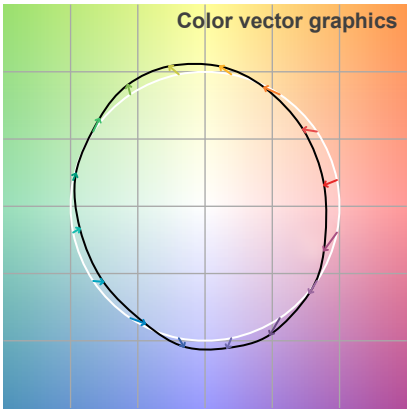
Rg 99.2

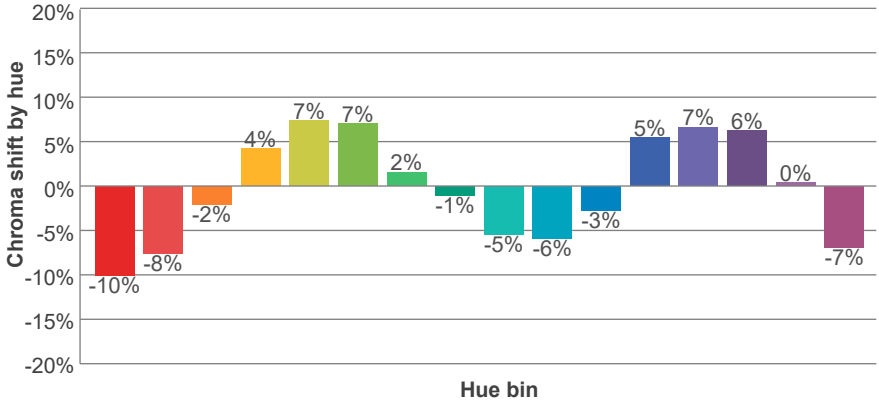
Gamut index Rg

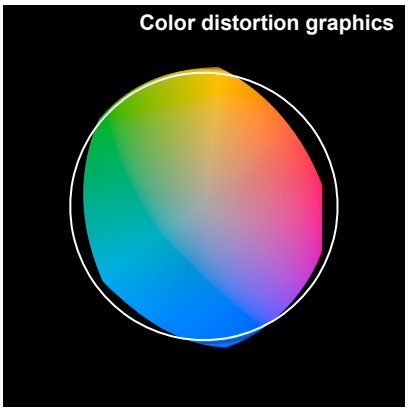
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	82	-10%	-2%
2	82	-8%	7%
3	76	-2%	12%
4	85	4%	9%
5	89	7%	6%
6	89	7%	-2%
7	83	2%	-10%
8	92	-1%	-5%
9	90	-5%	-2%
10	87	-6%	5%
11	83	-3%	11%
12	85	5%	5%
13	88	7%	-4%
14	83	6%	-13%
15	83	0%	-10%
16	80	-7%	-15%

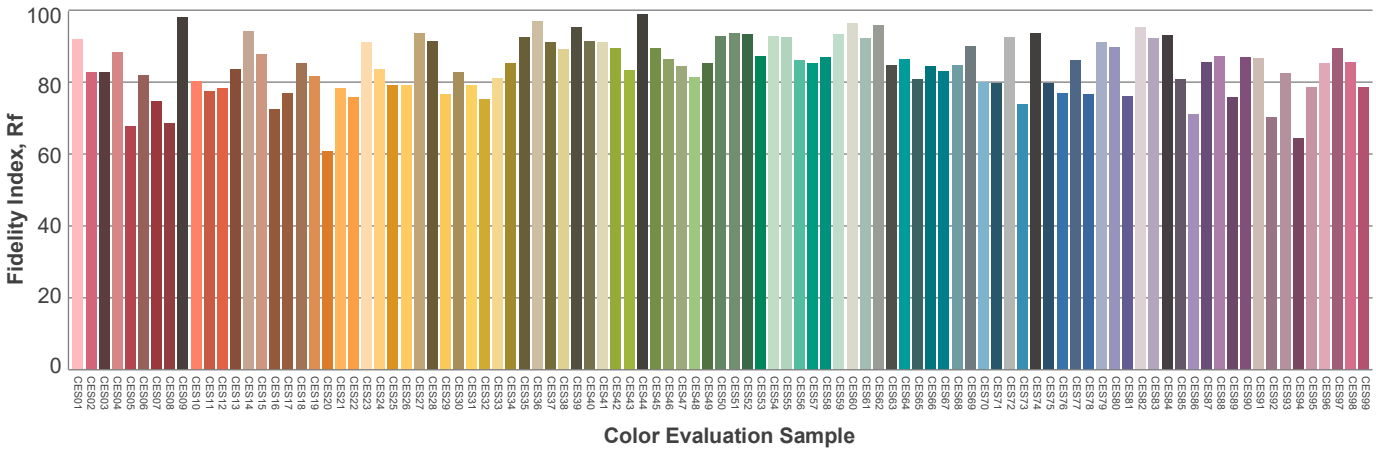






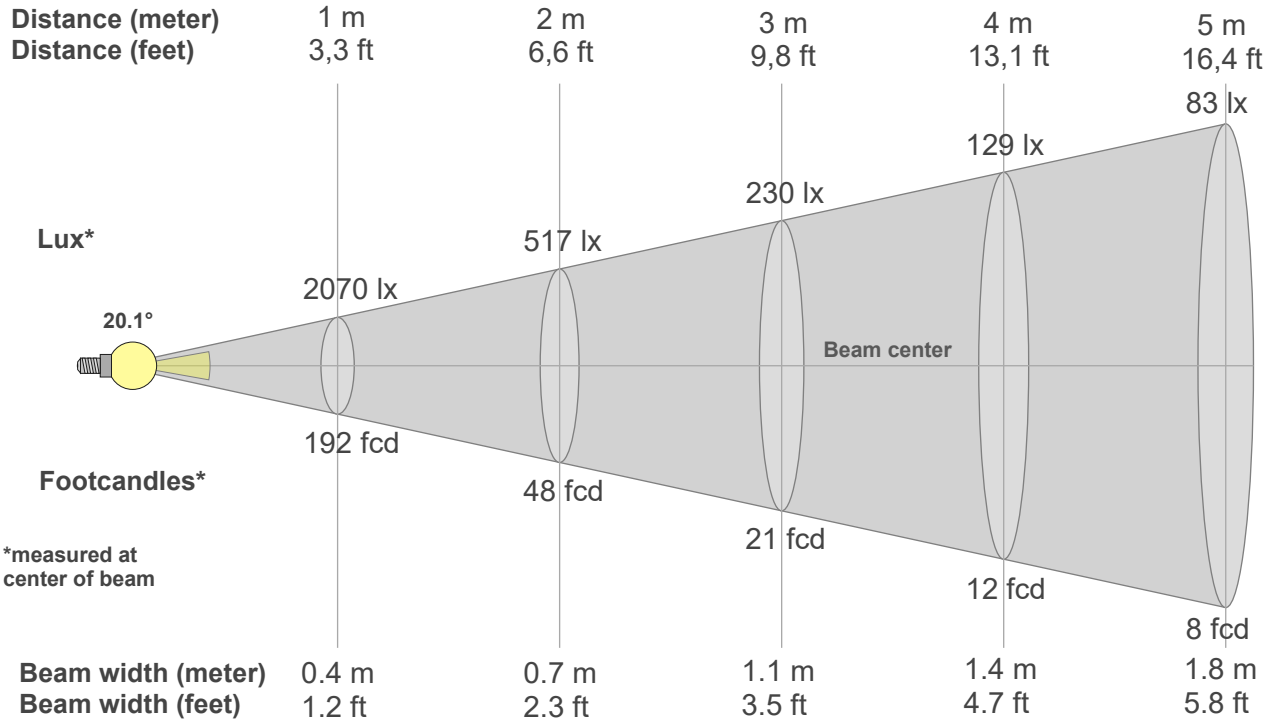






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Beam details



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
2070lx	517lx	230lx	129lx	83lx	57lx	42lx	32lx	26lx	21lx	17lx	14lx	12lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx
192.3fc	48.1fcd	21.4fcd	12fcd	7.7fcd	5.3fcd	3.9fcd	3fcd	2.4fcd	1.9fcd	1.6fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd

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°
2070	2001	1807	1548	1281	1042	845	689	565	466	385	321	269	226	191	163	140	120	104	91
100%	97%	87%	75%	62%	50%	41%	33%	27%	22%	19%	16%	13%	11%	9%	8%	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°
2070	2001	1807	1548	1281	1042	845	689	565	466	385	321	269	226	191	163	140	120	104	91
100%	97%	87%	75%	62%	50%	41%	33%	27%	22%	19%	16%	13%	11%	9%	8%	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°
2070	2001	1807	1548	1281	1042	845	689	565	466	385	321	269	226	191	163	140	120	104	91
100%	97%	87%	75%	62%	50%	41%	33%	27%	22%	19%	16%	13%	11%	9%	8%	7%	6%	5%	4%

Intensities in 270° c-plane

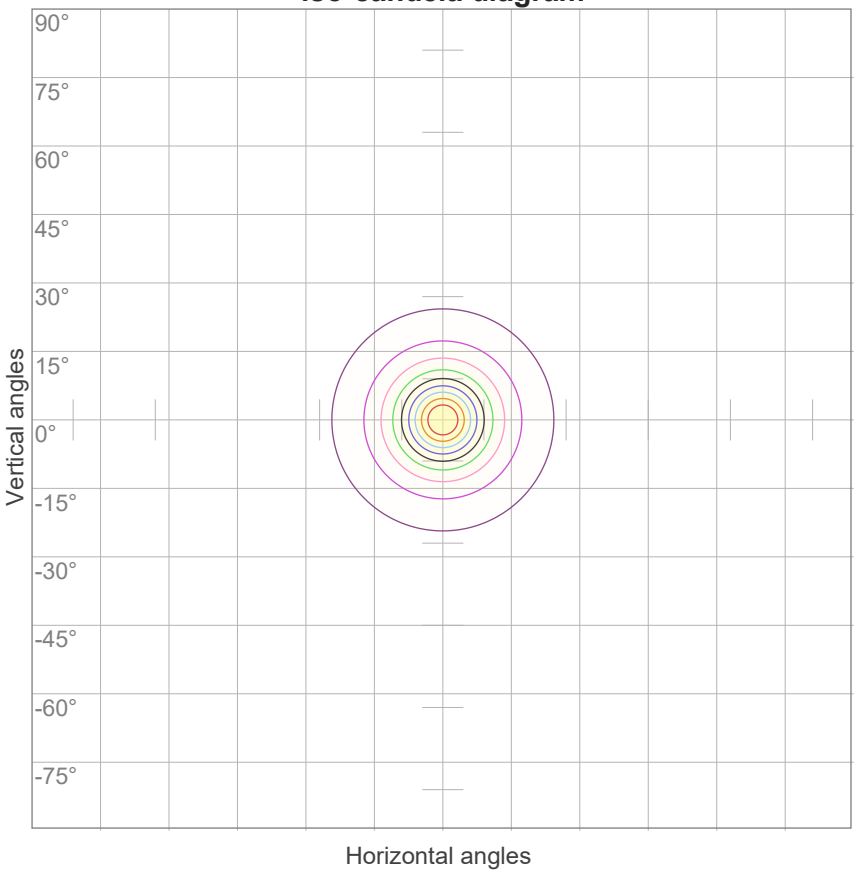
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2070	2001	1807	1548	1281	1042	845	689	565	466	385	321	269	226	191	163	140	120	104	91
100%	97%	87%	75%	62%	50%	41%	33%	27%	22%	19%	16%	13%	11%	9%	8%	7%	6%	5%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20.1°	54°	94.5°	95.0%	86.9%

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Iso Diagrams

iso-candela diagram



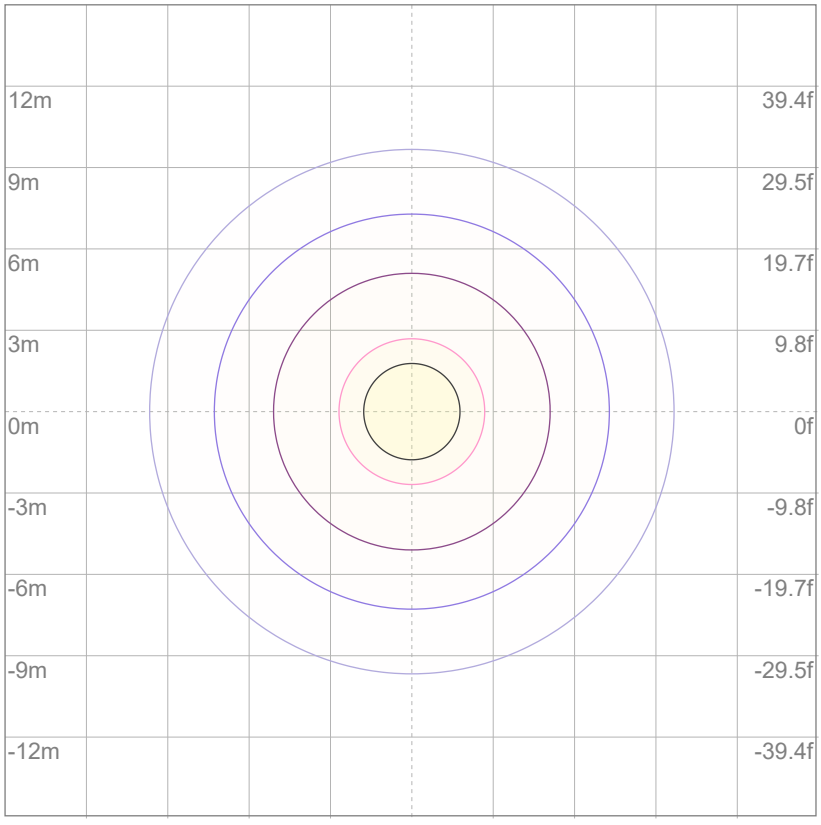
10%	207 cd
20%	414 cd
30%	621 cd
40%	828 cd
50%	1035 cd
60%	1242 cd
70%	1449 cd
80%	1656 cd
90%	1863 cd

Conditions:

Number of c-planes: 72

Candela at center: 2070 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.621 lx
5%	1.03 lx
10%	2.07 lx
30%	6.21 lx
50%	10.3 lx

Conditions:

Number of c-planes: 72

Lux at center: 20.7 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	16.9	17.6	17.0	17.8	18.0	17.6	18.2	17.7	18.4	18.6
	3H	17.2	18.0	17.5	18.2	18.3	17.9	18.7	18.3	18.9	19.1
	4H	17.3	18.0	17.7	18.3	18.5	18.1	18.9	18.5	19.1	19.3
	6H	17.4	18.1	17.7	18.4	18.7	18.4	19.0	18.7	19.3	19.6
	8H	17.4	18.0	17.8	18.4	18.8	18.4	19.0	18.8	19.4	19.8
	12H	17.4	18.0	17.8	18.4	18.8	18.5	19.1	18.8	19.4	19.8
4H	2H	17.0	17.8	17.4	18.0	18.2	17.6	18.3	18.0	18.5	18.8
	3H	17.6	18.2	17.9	18.5	18.9	18.3	18.8	18.6	19.2	19.6
	4H	17.7	18.2	18.1	18.6	19.2	18.4	19.0	18.9	19.4	19.9
	6H	17.8	18.4	18.3	18.7	19.1	18.7	19.3	19.2	19.6	20.0
	8H	17.8	18.4	18.4	18.7	19.1	18.8	19.3	19.3	19.7	20.0
	12H	17.8	18.3	18.3	18.7	19.1	18.9	19.3	19.4	19.7	20.2
8H	4H	17.7	18.2	18.2	18.6	18.9	18.4	19.0	19.0	19.3	19.7
	6H	17.9	18.3	18.4	18.8	19.3	18.8	19.2	19.3	19.6	20.2
	8H	18.1	18.4	18.6	18.9	19.5	19.0	19.3	19.5	19.8	20.4
	12H	18.1	18.4	18.7	18.9	19.5	19.1	19.4	19.7	19.9	20.5
12H	4H	17.7	18.1	18.2	18.5	19.0	18.4	18.8	18.9	19.2	19.7
	6H	18.0	18.3	18.5	18.8	19.4	18.8	19.1	19.3	19.6	20.3
	8H	18.1	18.3	18.7	18.8	19.4	19.0	19.2	19.6	19.7	20.3
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.9 / -0.9					0.8 / -0.6				
S = 1.5H		2.1 / -1.7					1.8 / -1.4				
S = 2.0H		3.3 / -2.4					3.0 / -2.1				
CIE 117-1995. Corrected glare indices referring to 605 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	105	110	108	106	103	104	102	100	100	98	97	96	95	94	92
2	107	102	98	95	105	101	97	94	97	94	91	94	92	89	91	89	87	86
3	102	96	91	87	100	94	90	86	91	88	84	89	86	83	87	84	82	80
4	97	90	84	80	95	89	83	79	86	82	78	84	80	77	82	79	77	75
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	78	75	72	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64
8	81	72	67	63	80	72	67	63	71	66	62	70	65	62	69	65	62	61
9	78	69	64	60	77	69	64	60	68	63	60	67	63	59	66	62	59	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
139 lm	175 lm	115 lm	71.0 lm	45.9 lm	28.4 lm	15.7 lm	7.54 lm	2.81 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.016 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	4.43 lm

LCS table

BUG rating:	B1 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	216	35.7%
Medium(30-60):	73.2	12.1%
High(60-80):	11.7	1.9%
Very high(80-90):	1.4	0.2%
Back light		
Low(0-30):	216	35.7%
Medium(30-60):	73.2	12.1%
High(60-80):	11.7	1.9%
Very high(80-90):	1.4	0.2%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

