NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

84 Lumen/Watt

Light quality:

CRI: 84.7

Color temperature:

2982 K

Output: 687 lm
Peak: 1788 cd

Power: 8.1 W
PF: 1.0

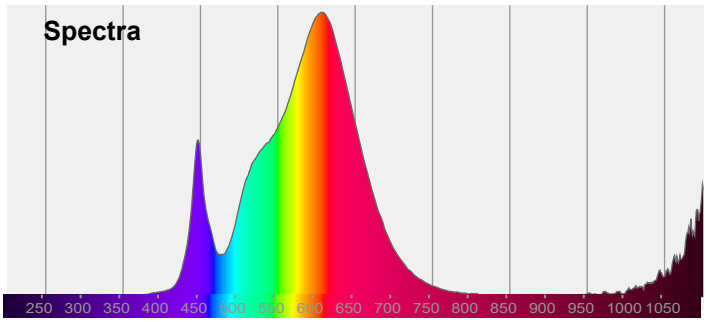
Tracking number: VT250722-005278

Product name:
GRZ White 25 24 30

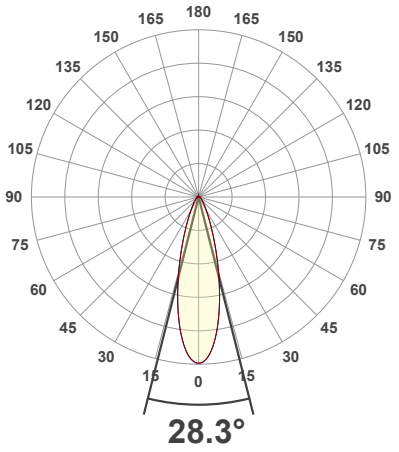
Item number:
1 foot Flex Grazer White 3000K 25° Optic

Date and time:
7/22/25 1:18:19 PM

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

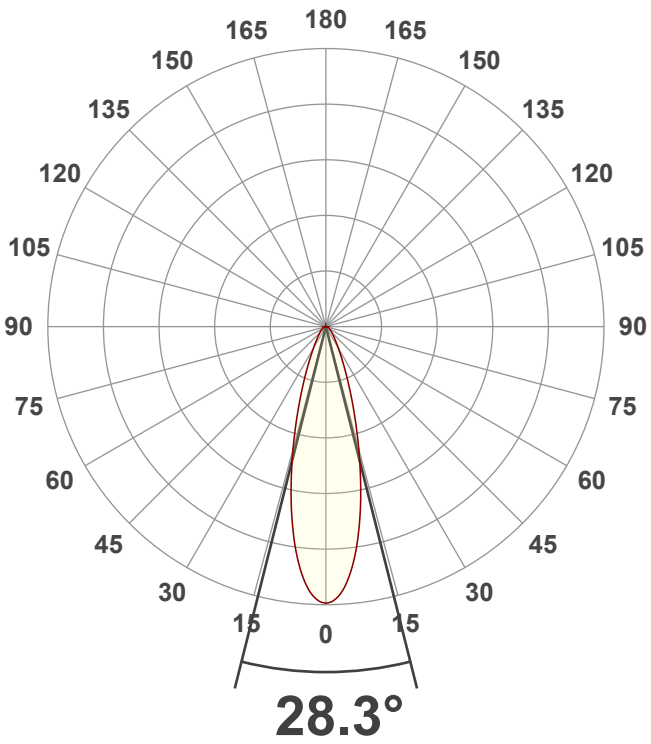


Average Beam Angle

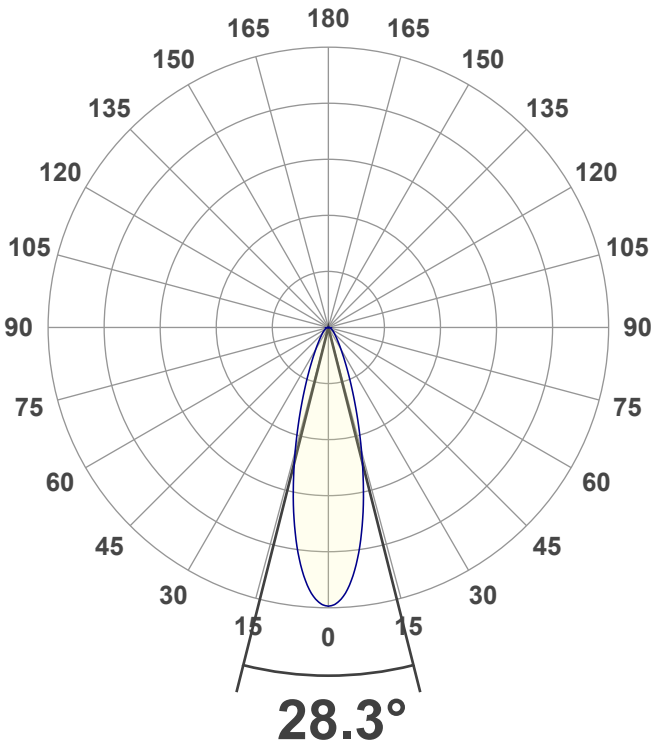


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

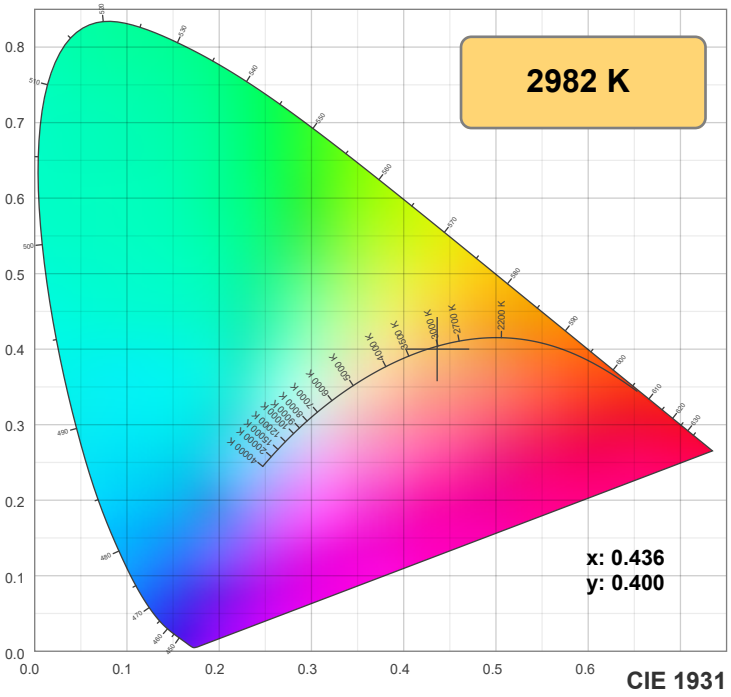


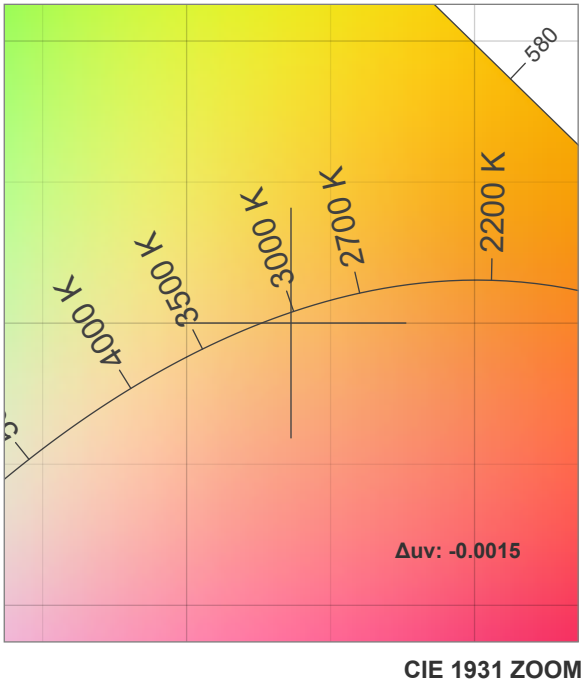
Angular Distribution 90 ° Plane



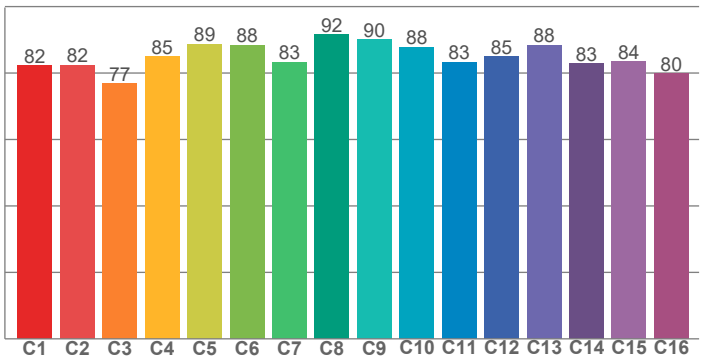
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Color details

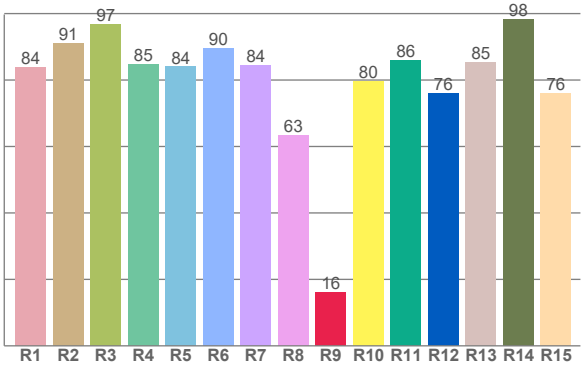




TM-30: 84.9



CRI: (R1-R8): 84.7



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
83.8	91.0	96.8	84.8	84.0	89.6	84.5	63.5	16.2	79.6	85.9	76.1	85.5	98.3	76.0

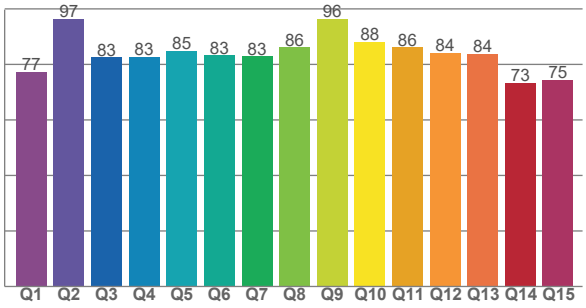
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.3	82.4	76.8	85.0	88.8	88.4	83.3	91.6	90.0	87.8	83.3	85.1	88.5	82.9	83.6	79.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.3	96.5	82.6	82.6	84.8	83.2	82.9	86.1	96.3	88.1	86.1	84.1	83.8	73.4	74.5

CQS: 82.8



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
2982 K	84.7	16.2	84.9	99.5	82.8	0.436	0.400	0.252	0.346	-0.0015

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TM-30 details

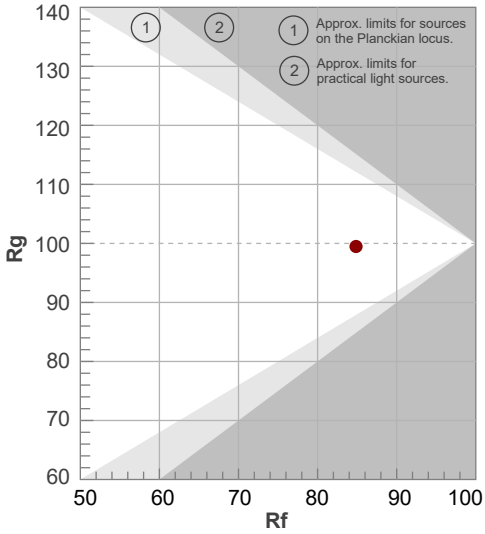
Rf 84.9

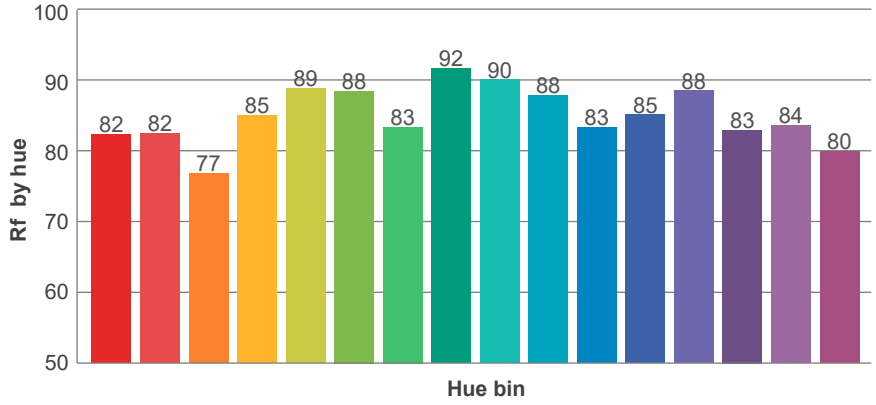
Fidelity index Rf

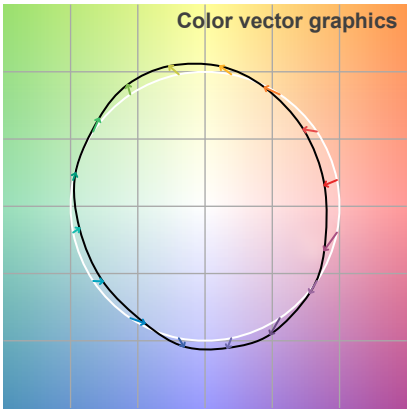
Rg 99.5

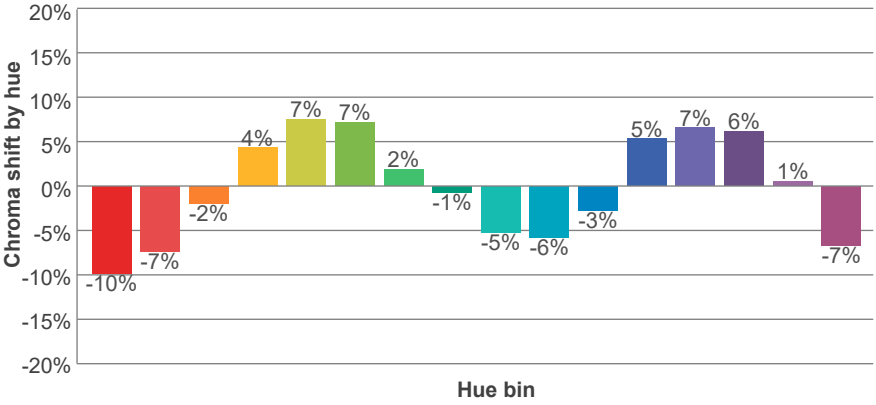
Gamut index Rg

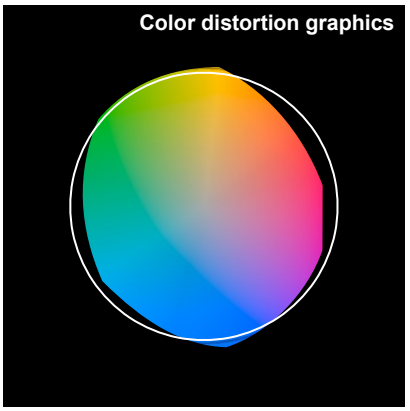
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	82	-10%	-2%
2	82	-7%	7%
3	77	-2%	12%
4	85	4%	9%
5	89	7%	6%
6	88	7%	-2%
7	83	2%	-10%
8	92	-1%	-5%
9	90	-5%	-2%
10	88	-6%	4%
11	83	-3%	11%
12	85	5%	5%
13	88	7%	-4%
14	83	6%	-12%
15	84	1%	-10%
16	80	-7%	-15%

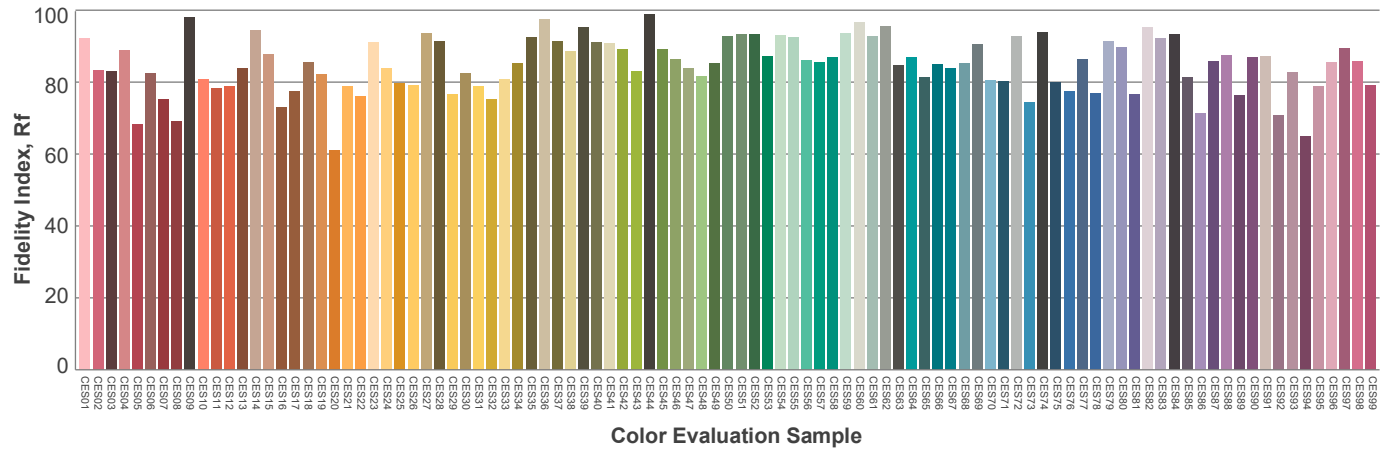






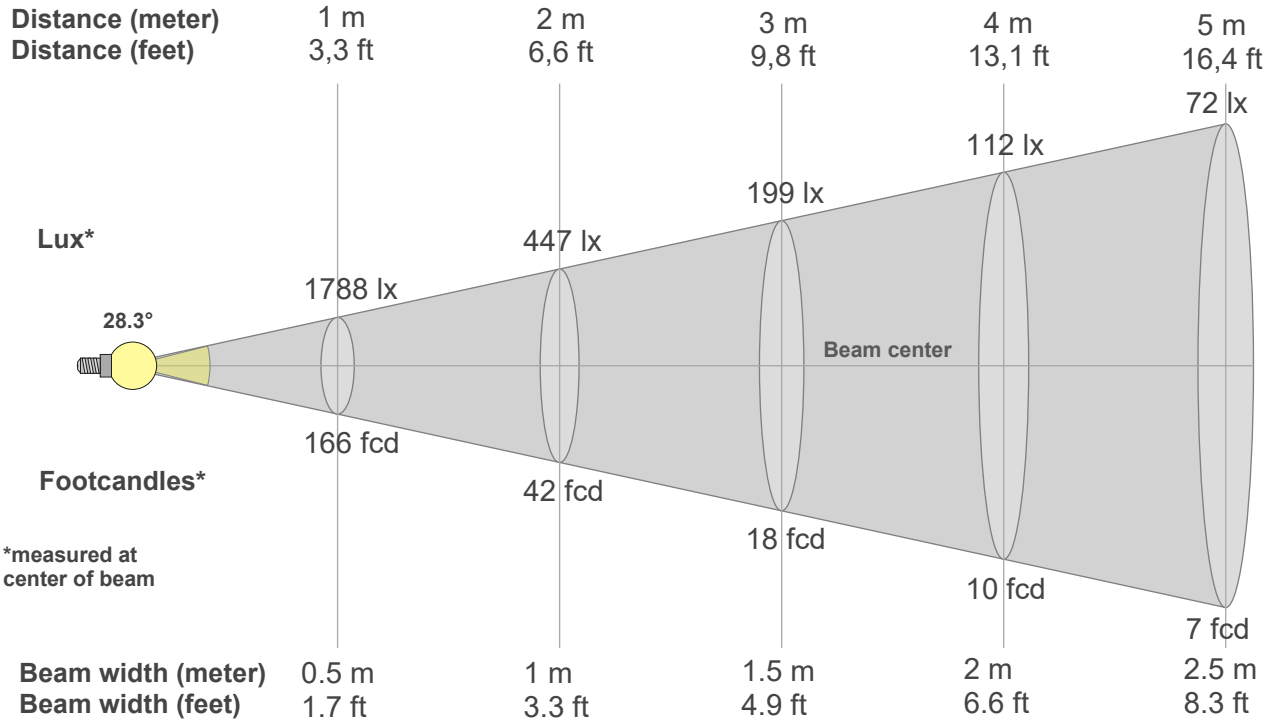






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Beam details



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
1788lx	447lx	199lx	112lx	72lx	50lx	36lx	28lx	22lx	18lx	15lx	12lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	4lx
166.1fc	41.5fcd	18.5fcd	10.4fcd	6.6fcd	4.6fcd	3.4fcd	2.6fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	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°
1788	1763	1693	1579	1433	1263	1083	906	743	599	477	379	302	241	196	161	135	114	97	85
100%	99%	95%	88%	80%	71%	61%	51%	42%	33%	27%	21%	17%	13%	11%	9%	8%	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°
1788	1763	1693	1579	1433	1263	1083	906	743	599	477	379	302	241	196	161	135	114	97	85
100%	99%	95%	88%	80%	71%	61%	51%	42%	33%	27%	21%	17%	13%	11%	9%	8%	6%	5%	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°
1788	1763	1693	1579	1433	1263	1083	906	743	599	477	379	302	241	196	161	135	114	97	85
100%	99%	95%	88%	80%	71%	61%	51%	42%	33%	27%	21%	17%	13%	11%	9%	8%	6%	5%	5%

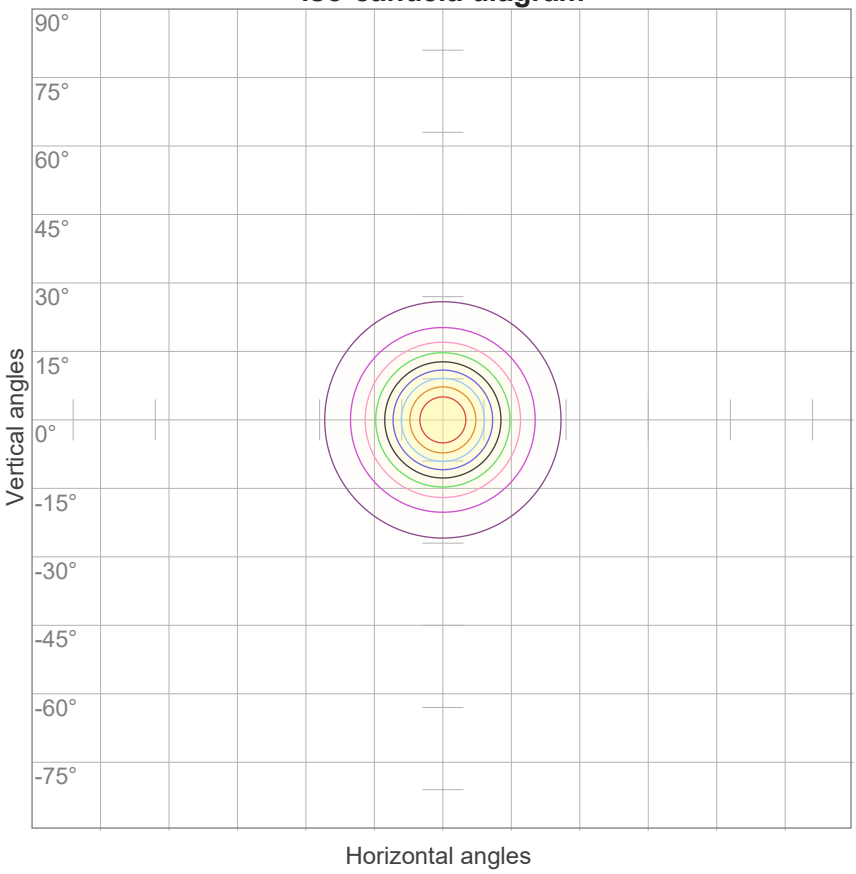
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1788	1763	1693	1579	1433	1263	1083	906	743	599	477	379	302	241	196	161	135	114	97	85
100%	99%	95%	88%	80%	71%	61%	51%	42%	33%	27%	21%	17%	13%	11%	9%	8%	6%	5%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28.3°	57.8°	98.2°	93.0%	85.7%

Iso Diagrams

iso-candela diagram



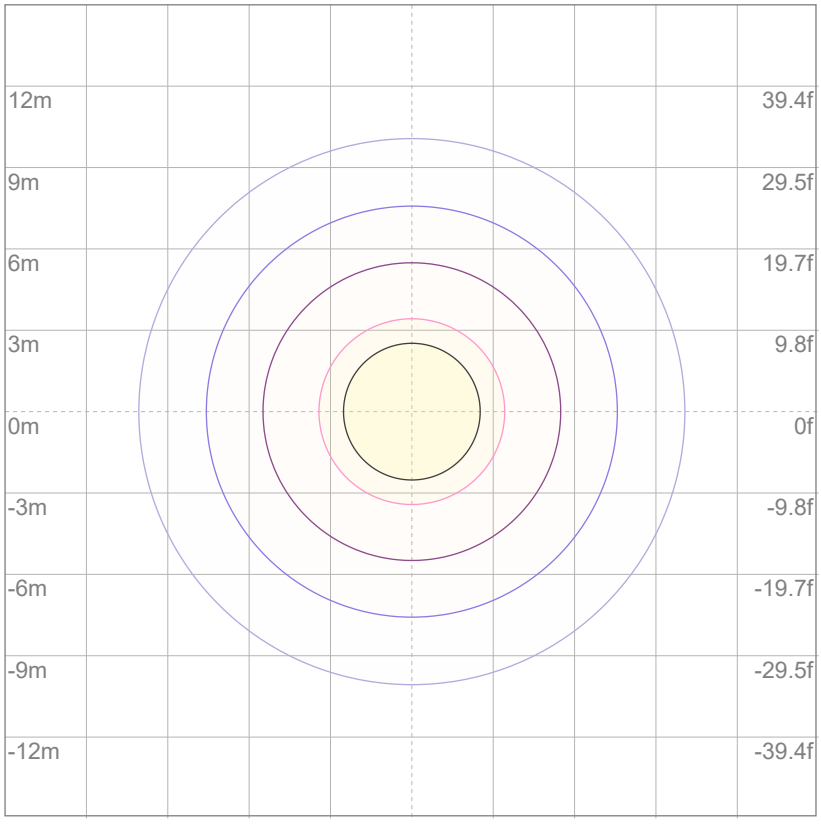
10%	179 cd
20%	358 cd
30%	536 cd
40%	715 cd
50%	894 cd
60%	1073 cd
70%	1252 cd
80%	1431 cd
90%	1609 cd

Conditions:

Number of c-planes: 72

Candela at center: 1788 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.536 lx
5%	0.894 lx
10%	1.79 lx
30%	5.36 lx
50%	8.94 lx

Conditions:

Number of c-planes: 72

Lux at center: 17.9 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	16.6	17.3	16.8	17.5	17.7	17.3	18.0	17.4	18.2	18.4
	3H	17.4	18.2	17.8	18.4	18.6	18.3	19.1	18.7	19.3	19.5
	4H	17.7	18.5	18.1	18.7	19.0	18.8	19.6	19.2	19.8	20.0
	6H	18.1	18.7	18.4	19.0	19.4	19.4	20.0	19.6	20.3	20.6
	8H	18.2	18.8	18.5	19.1	19.5	19.6	20.2	19.9	20.5	20.9
	12H	18.3	18.9	18.6	19.2	19.6	19.8	20.4	20.1	20.7	21.1
4H	2H	16.9	17.7	17.3	17.9	18.1	17.5	18.2	17.9	18.5	18.7
	3H	18.1	18.6	18.4	19.0	19.4	18.8	19.4	19.2	19.8	20.2
	4H	18.5	19.0	18.9	19.5	20.0	19.4	20.0	19.8	20.4	20.9
	6H	18.9	19.5	19.4	19.8	20.1	20.0	20.6	20.5	20.9	21.3
	8H	19.0	19.6	19.5	19.9	20.3	20.3	20.8	20.8	21.2	21.5
	12H	19.1	19.5	19.6	20.0	20.4	20.6	21.0	21.1	21.4	21.9
8H	4H	18.7	19.2	19.2	19.6	19.9	19.5	20.1	20.1	20.4	20.8
	6H	19.2	19.6	19.7	20.1	20.6	20.3	20.7	20.8	21.1	21.6
	8H	19.5	19.8	20.0	20.3	20.9	20.7	21.0	21.2	21.5	22.1
	12H	19.7	19.9	20.3	20.4	21.0	21.0	21.3	21.6	21.8	22.4
12H	4H	18.7	19.1	19.2	19.5	20.0	19.5	19.9	20.0	20.4	20.8
	6H	19.3	19.6	19.8	20.1	20.8	20.4	20.6	20.9	21.2	21.8
	8H	19.6	19.8	20.2	20.3	20.9	20.7	21.0	21.3	21.5	22.1
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.5 / -0.4					0.4 / -0.2				
S = 1.5H		1.2 / -0.7					1.0 / -0.5				
S = 2.0H		2.0 / -1.0					1.7 / -0.8				
CIE 117-1995. Corrected glare indices referring to 687 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	105	105	105	101	101	101	99
1	113	110	107	105	110	107	105	103	103	101	99	99	98	96	95	94	93	91
2	107	102	98	94	105	100	96	93	96	93	91	93	91	88	90	88	86	85
3	102	95	90	86	99	94	89	85	91	87	84	88	85	82	86	83	81	79
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74
5	92	84	78	74	91	83	78	74	81	77	73	79	75	72	78	74	72	70
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	74	71	68	66
7	85	76	70	66	83	75	70	66	74	69	65	72	68	65	71	67	65	63
8	81	72	67	63	80	72	66	63	71	66	62	69	65	62	68	64	62	60
9	78	69	64	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	63	59	57	55

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
144 lm	226 lm	128 lm	67.6 lm	43.1 lm	30.0 lm	20.8 lm	12.9 lm	5.47 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.214 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	9.00 lm

LCS table

BUG rating:	B1 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	252.2	36.7%
Medium(30-60):	71.3	10.4%
High(60-80):	17.1	2.5%
Very high(80-90):	2.8	0.4%
Back light		
Low(0-30):	252.2	36.7%
Medium(30-60):	71.3	10.4%
High(60-80):	17.1	2.5%
Very high(80-90):	2.8	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

