NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

70 Lumen/Watt

Light quality:

CRI: 86.0

Color temperature:

3143 K

Output: 171 lm
Peak: 183 cd

Power: 2.4 W
PF: 1.0

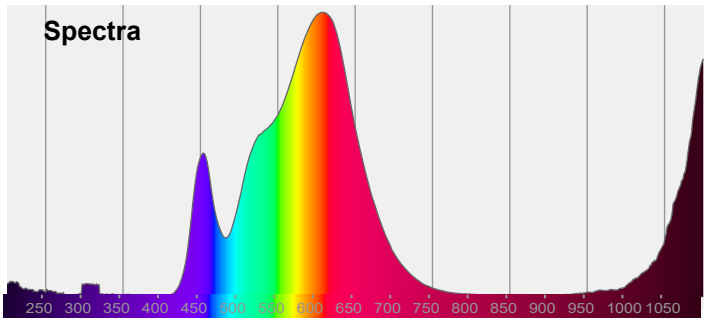
Tracking number: VT250717-001567

Product name:
GRZ DRGBW White 24 30

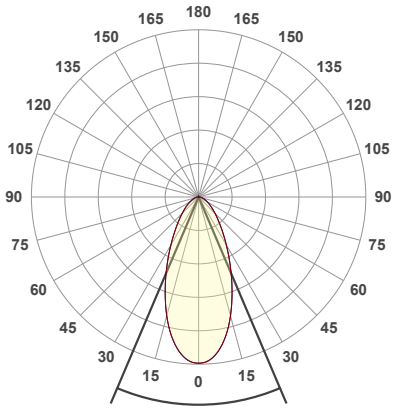
Item number:
1 foot Flex Grazer White DRGBW 3000K DMX

Date and time:
7/17/25 2:18:56 PM

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

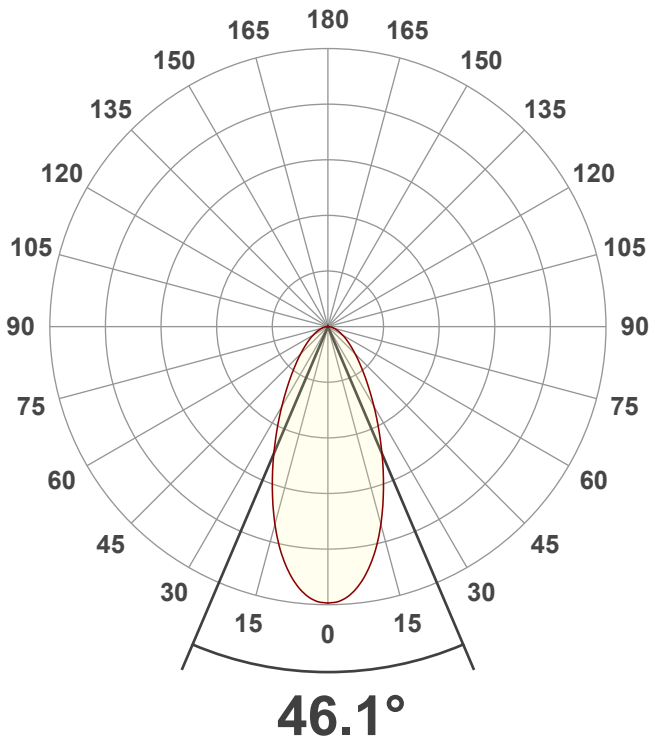


Average Beam Angle

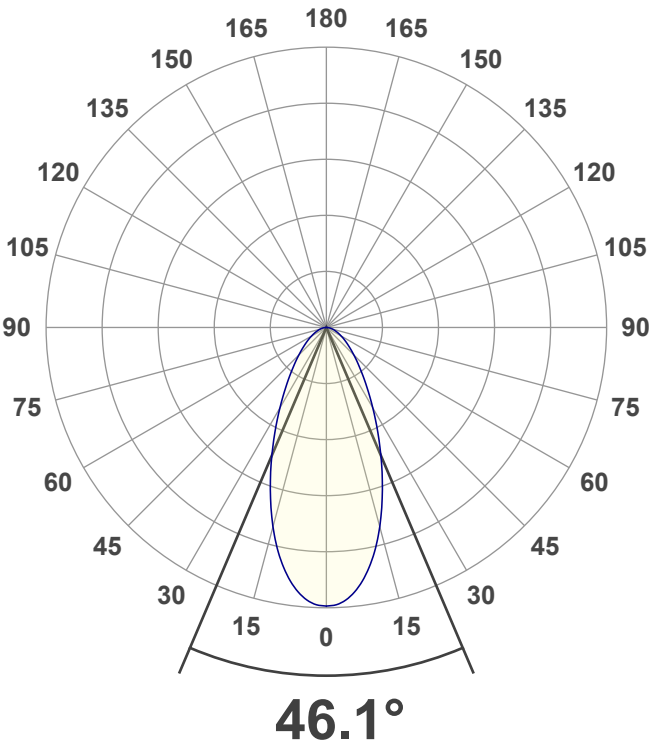


C Plane Resolution: 18°

Angular Distribution 0 ° Plane

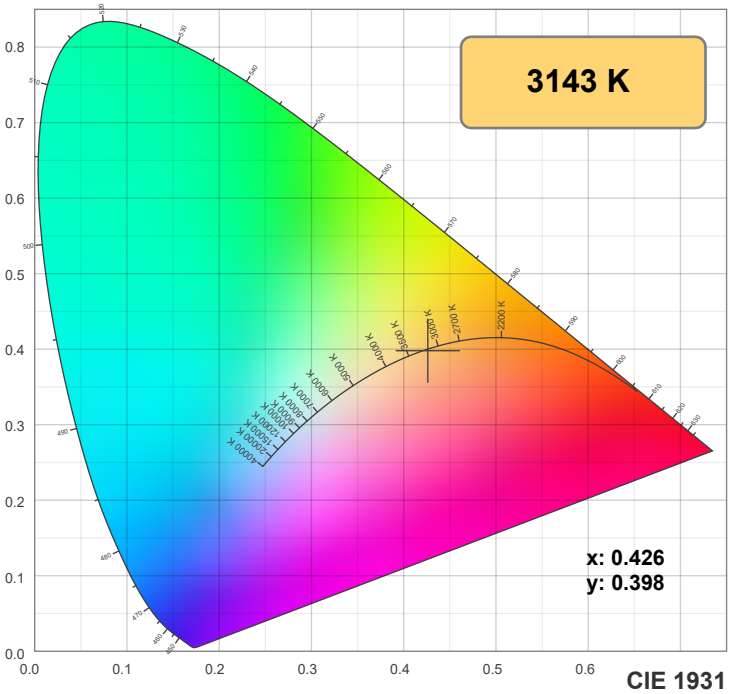


Angular Distribution 90 ° Plane

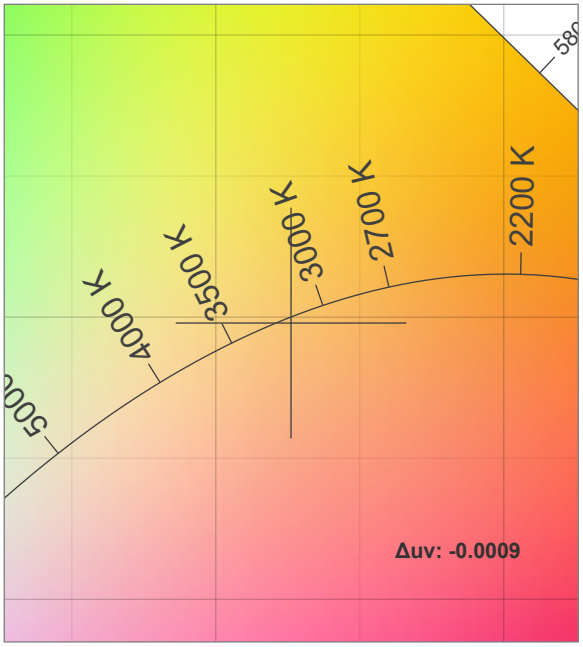


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Color details

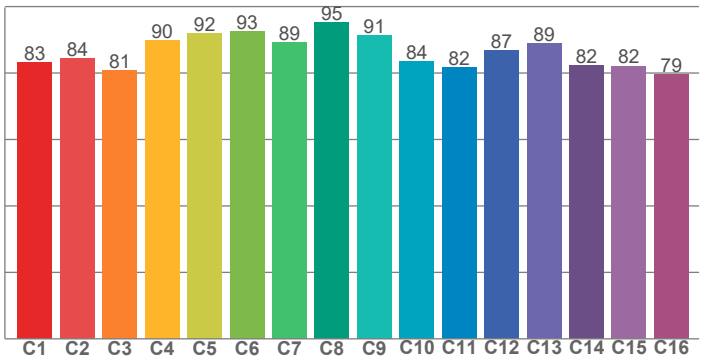


CIE 1931

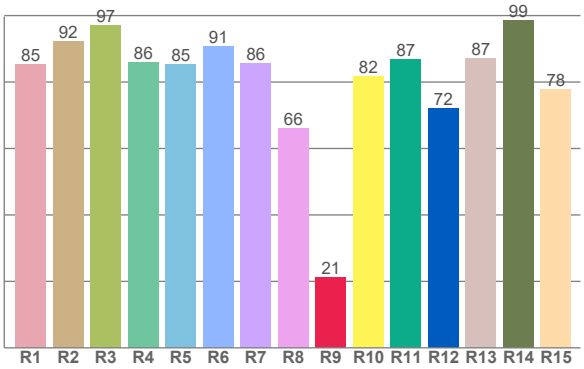


CIE 1931 ZOOM

TM-30: 86.4



CRI: (R1-R8): 86.0



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
85.4	92.1	97.1	85.9	85.3	90.7	85.6	66.1	21.1	81.8	87.0	72.0	87.1	98.7	77.9

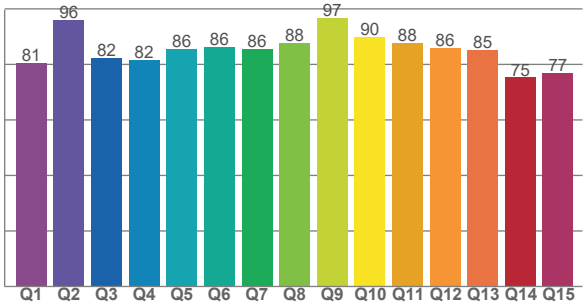
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
83.2	84.4	80.7	89.9	91.8	92.6	89.1	95.2	91.2	83.6	81.7	86.8	89.0	82.3	82.1	79.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80.6	96.1	82.4	81.7	85.7	86.3	85.6	87.8	96.8	89.8	87.9	85.9	85.2	75.4	76.9

CQS: 84.4



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
3143 K	86.0	21.1	86.4	98.2	84.4	0.426	0.398	0.246	0.345	-0.0009

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TM-30 details

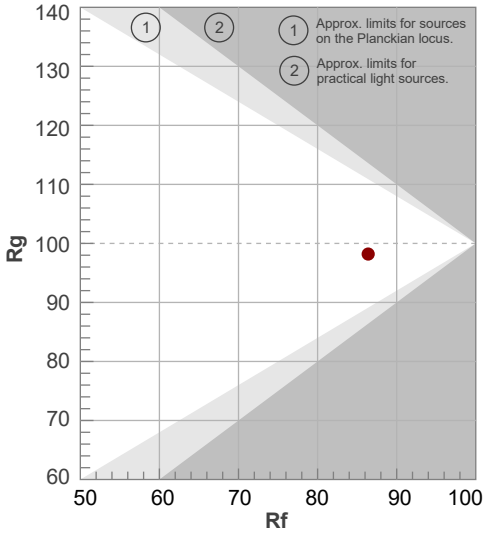
Rf 86.4

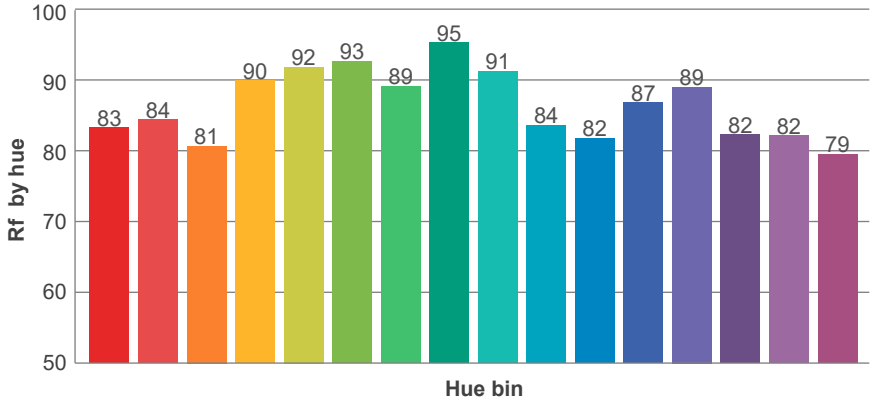
Fidelity index Rf

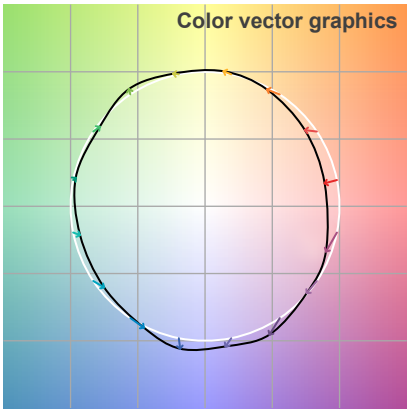
Rg 98.2

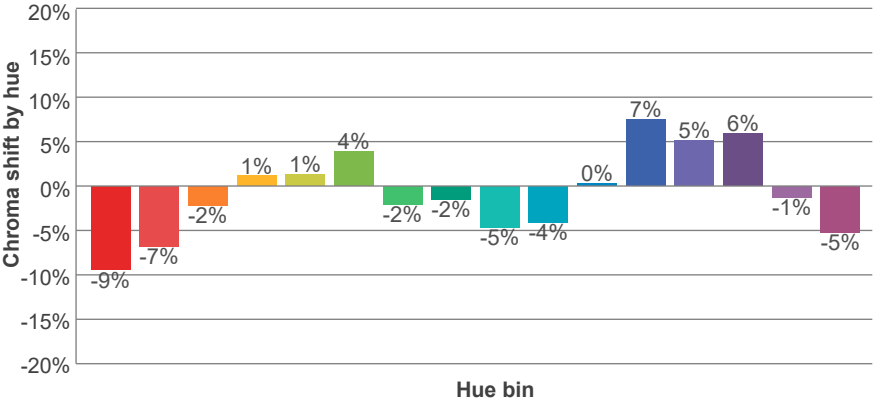
Gamut index Rg

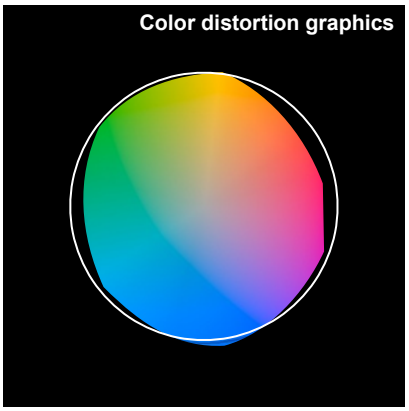
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	83	-9%	-1%
2	84	-7%	6%
3	81	-2%	10%
4	90	1%	6%
5	92	1%	4%
6	93	4%	-1%
7	89	-2%	-6%
8	95	-2%	-2%
9	91	-5%	3%
10	84	-4%	8%
11	82	0%	12%
12	87	7%	3%
13	89	5%	-5%
14	82	6%	-13%
15	82	-1%	-12%
16	79	-5%	-16%

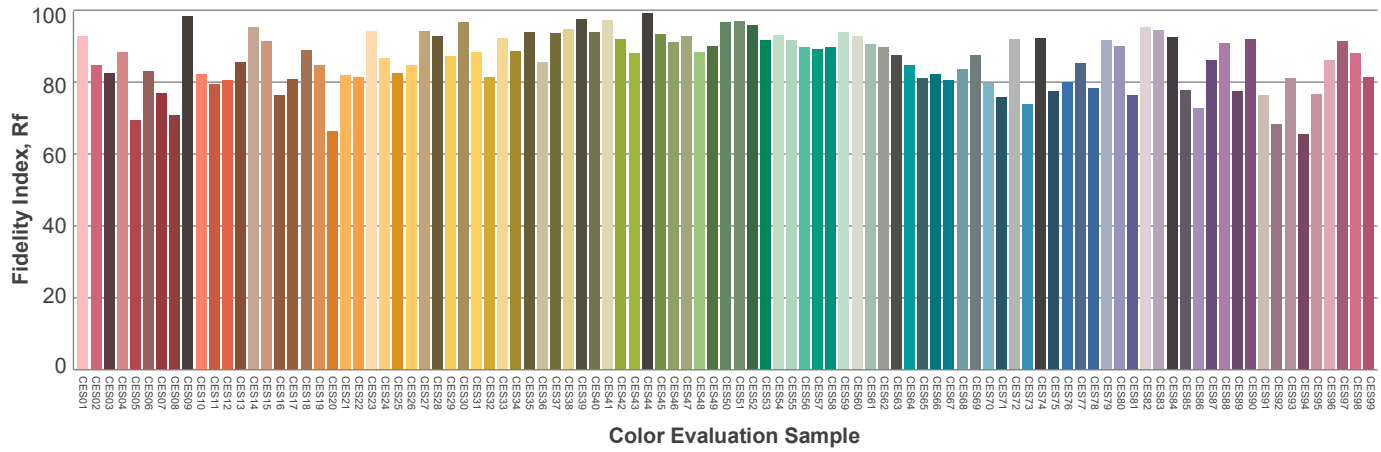






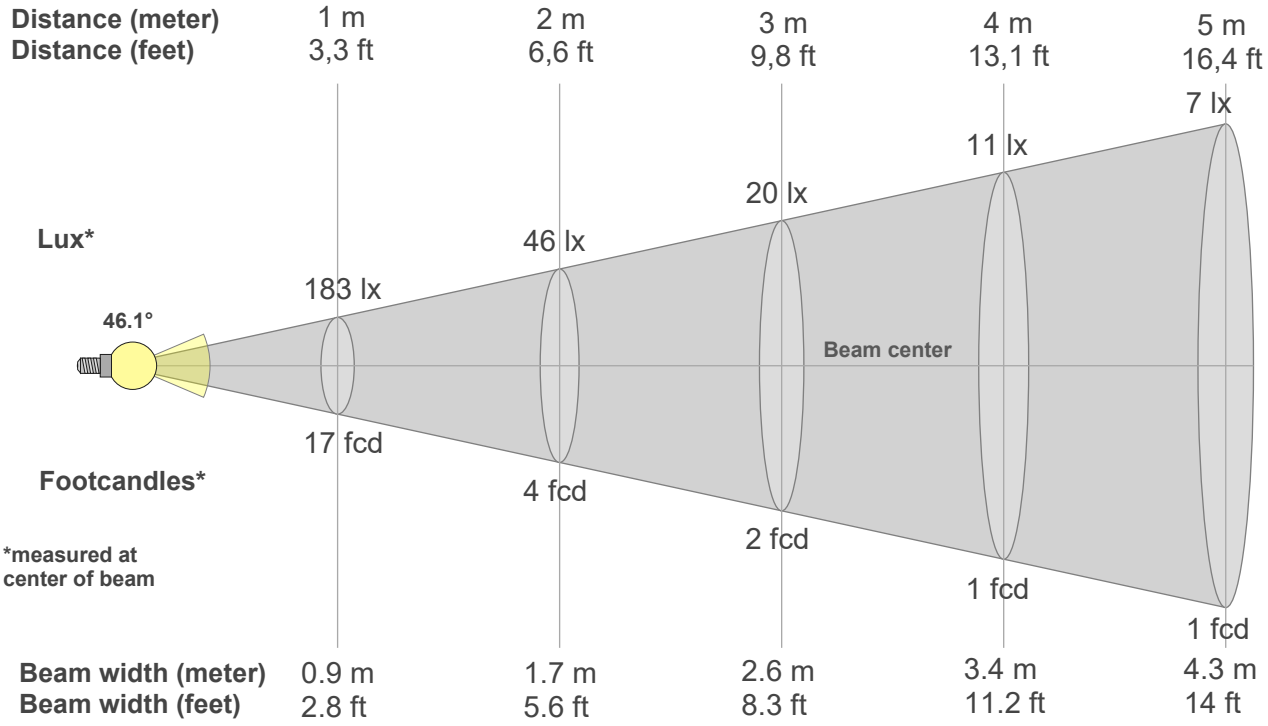






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Beam details



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
183lx	46lx	20lx	11lx	7lx	5lx	4lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx
17fcd	4.3fcd	1.9fcd	1.1fcd	0.7fcd	0.5fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
183	177	161	136	108	82	61	45	34	26	19	15	11	8	6	4	3	1	1	1
100%	97%	88%	74%	59%	45%	33%	25%	18%	14%	11%	8%	6%	5%	3%	2%	1%	1%	0%	0%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
183	177	161	136	108	82	61	45	34	26	19	15	11	8	6	4	3	1	1	1
100%	97%	88%	74%	59%	45%	33%	25%	18%	14%	11%	8%	6%	5%	3%	2%	1%	1%	0%	0%

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
183	177	161	136	108	82	61	45	34	26	19	15	11	8	6	4	3	1	1	1
100%	97%	88%	74%	59%	45%	33%	25%	18%	14%	11%	8%	6%	5%	3%	2%	1%	1%	0%	0%

Intensities in 270° c-plane

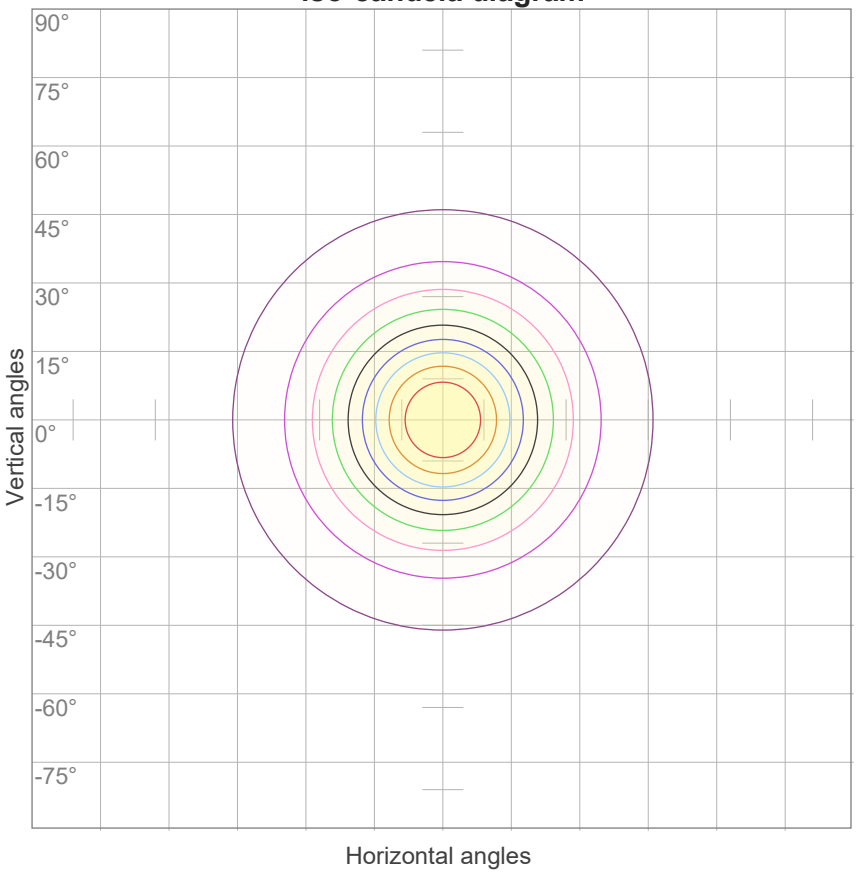
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
183	177	161	136	108	82	61	45	34	26	19	15	11	8	6	4	3	1	1	1
100%	97%	88%	74%	59%	45%	33%	25%	18%	14%	11%	8%	6%	5%	3%	2%	1%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46.1°	102.3°	148.3°	90.0%	76.8%

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Iso Diagrams

iso-candela diagram



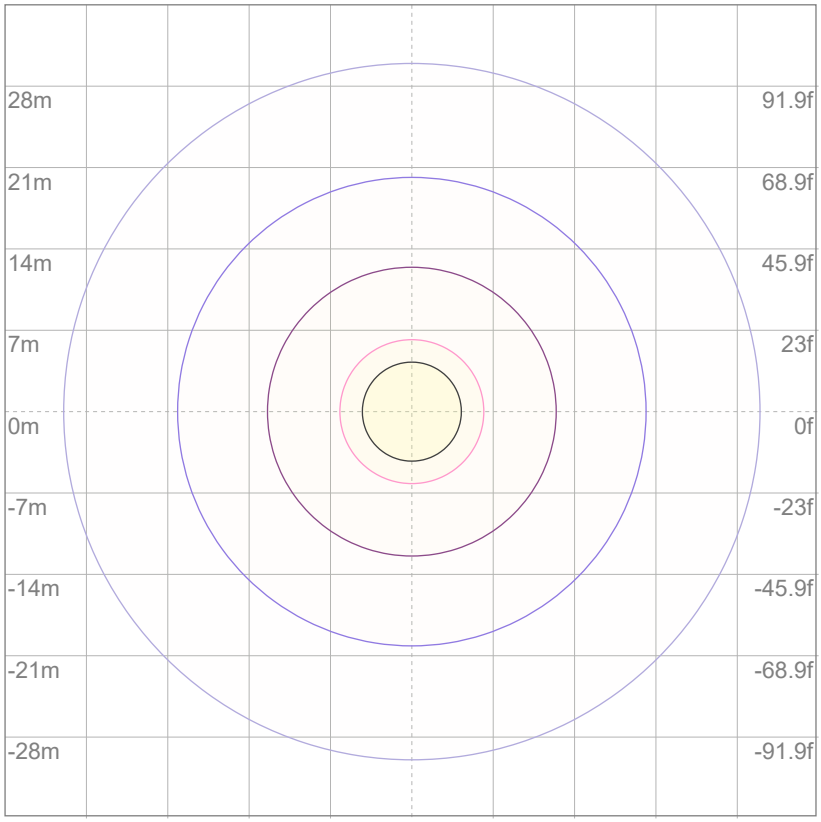
10%	18 cd
20%	37 cd
30%	55 cd
40%	73 cd
50%	92 cd
60%	110 cd
70%	128 cd
80%	146 cd
90%	165 cd

Conditions:

Number of c-planes: 20

Candela at center: 183 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	54.9m lx
5%	91.6m lx
10%	0.183 lx
30%	0.549 lx
50%	0.916 lx

Conditions:

Number of c-planes: 20

Lux at center: 1.83 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	15.7	16.6	15.9	16.9	17.1	16.4	17.3	16.6	17.5	17.7
	3H	16.2	17.2	16.6	17.4	17.6	17.1	18.1	17.5	18.3	18.5
	4H	16.5	17.4	16.9	17.7	17.9	17.5	18.4	17.9	18.6	18.9
	6H	16.7	17.5	17.0	17.8	18.2	17.8	18.6	18.1	18.9	19.3
	8H	16.8	17.5	17.1	17.8	18.2	17.9	18.7	18.3	19.0	19.4
	12H	16.7	17.5	17.1	17.8	18.3	18.0	18.7	18.3	19.1	19.5
4H	2H	15.9	16.9	16.3	17.1	17.4	16.5	17.4	16.9	17.7	17.9
	3H	16.8	17.5	17.2	17.9	18.3	17.6	18.3	17.9	18.6	19.1
	4H	17.1	17.8	17.5	18.2	18.7	17.9	18.6	18.4	19.1	19.6
	6H	17.3	18.0	17.8	18.4	18.7	18.3	19.0	18.8	19.4	19.7
	8H	17.4	18.0	17.9	18.4	18.7	18.5	19.1	19.0	19.5	19.8
	12H	17.4	17.9	17.9	18.3	18.8	18.6	19.1	19.1	19.5	20.0
8H	4H	17.2	17.8	17.7	18.2	18.6	18.0	18.7	18.5	19.0	19.4
	6H	17.6	18.0	18.1	18.5	19.0	18.5	19.0	19.0	19.4	20.0
	8H	17.7	18.1	18.2	18.6	19.2	18.8	19.1	19.3	19.7	20.3
	12H	17.8	18.1	18.4	18.6	19.2	18.9	19.2	19.5	19.7	20.3
12H	4H	17.2	17.7	17.7	18.1	18.6	18.0	18.5	18.5	18.9	19.4
	6H	17.6	18.0	18.1	18.5	19.1	18.6	18.9	19.1	19.5	20.1
	8H	17.7	18.1	18.3	18.6	19.2	18.8	19.1	19.4	19.6	20.2
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.5 / -0.6					0.4 / -0.4				
S = 1.5H		1.2 / -1.1					1.1 / -0.8				
S = 2.0H		2.1 / -1.7					1.9 / -1.4				
CIE 117-1995. Corrected glare indices referring to 171 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	98
1	111	108	104	102	109	105	102	100	101	99	96	97	95	93	93	92	90	88
2	104	98	93	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	79	76	73	71
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	66	65
5	86	76	69	63	84	75	68	63	72	67	62	71	66	62	69	64	61	59
6	81	70	63	58	79	69	63	58	67	62	57	66	61	57	64	60	56	54
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	60	56	52	50
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	42	41

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
16.4 lm	37.4 lm	37.7 lm	28.5 lm	19.9 lm	13.5 lm	8.40 lm	4.60 lm	1.47 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.668 lm	0.648 lm	0.608 lm	0.550 lm	0.158 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

LCS table

BUG rating:	B0 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	46.5	27.2%
Medium(30-60):	31.4	18.4%
High(60-80):	6.6	3.9%
Very high(80-90):	0.8	0.4%
Back light		
Low(0-30):	46.5	27.2%
Medium(30-60):	31.4	18.4%
High(60-80):	6.6	3.9%
Very high(80-90):	0.8	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

