NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

77 Lumen/Watt

Light quality:

CRI: 83.4

Color temperature:

3070 K

Output: 136 lm
Peak: 165 cd

Power: 1.8 W
PF: 1.0

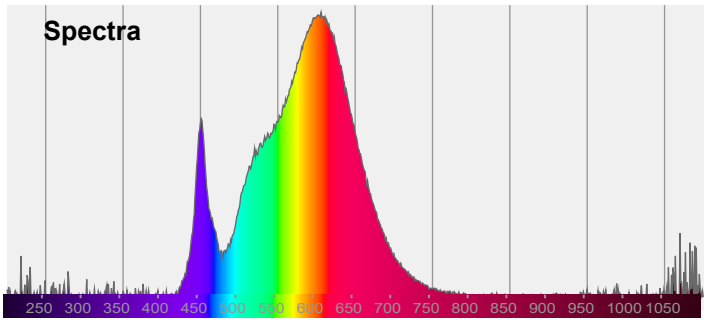
Tracking number: VT250709-009549

Product name:
GRZ Black RGBW White

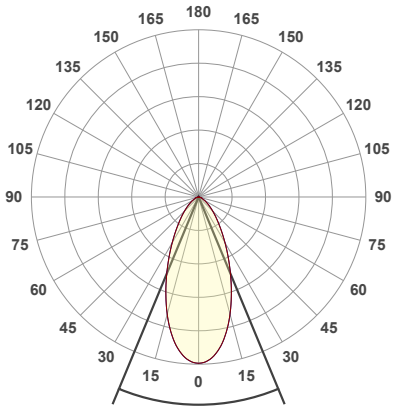
Item number:
GZF-RGBW-BK-24-IP67-30

Date and time:
7/9/25 2:42:24 PM

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

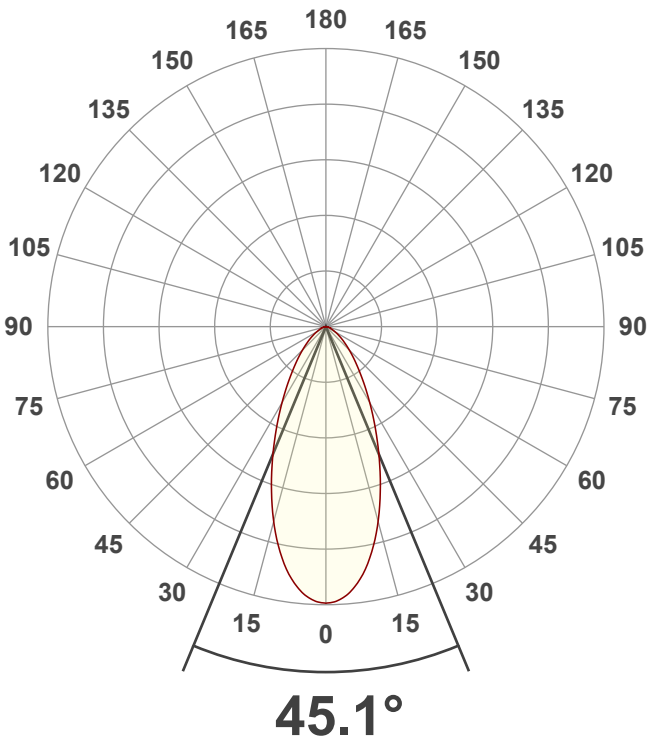


Average Beam Angle

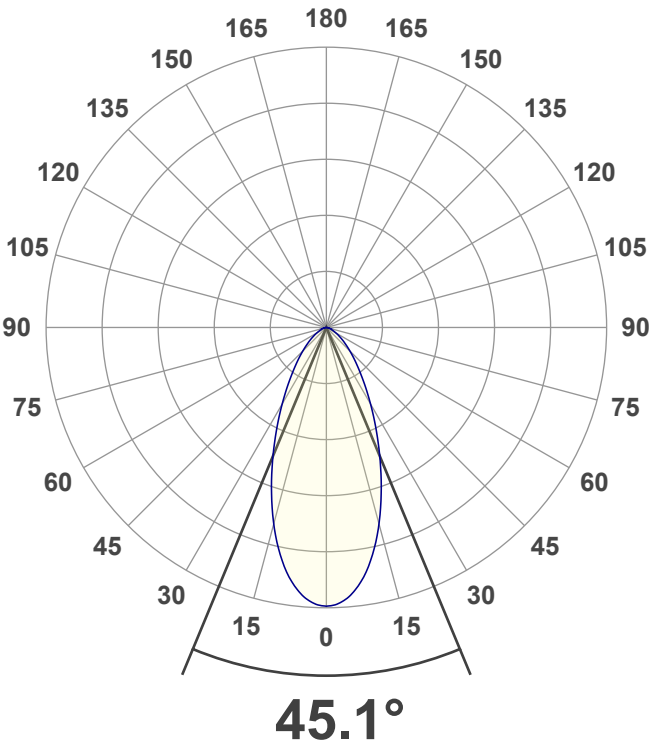


C Plane Resolution: 30°

Angular Distribution 0 ° Plane

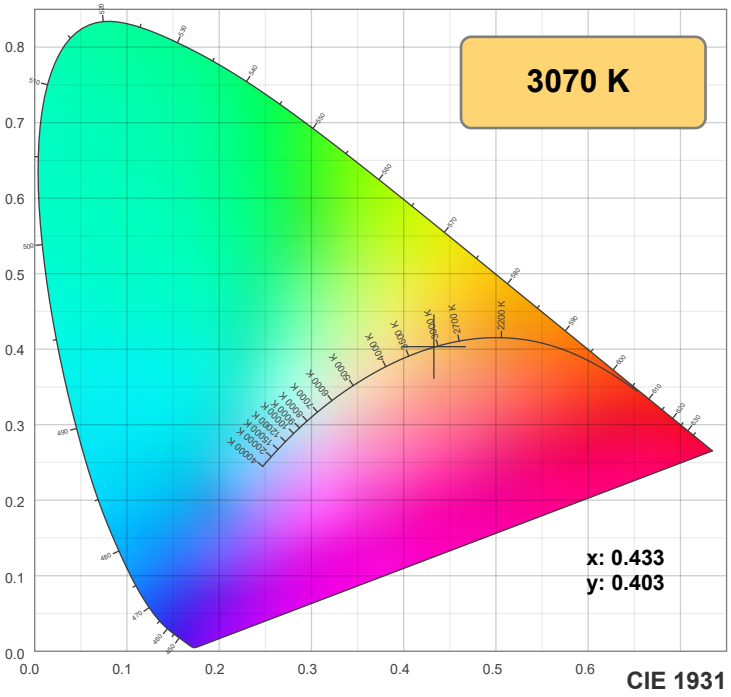


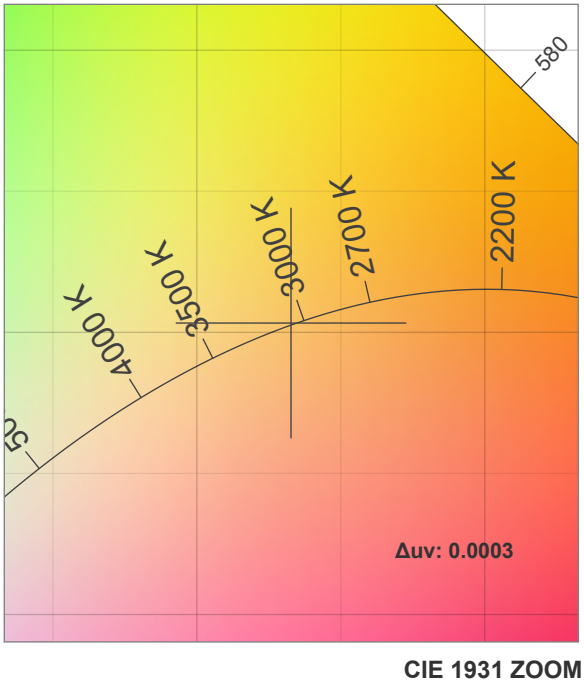
Angular Distribution 90 ° Plane



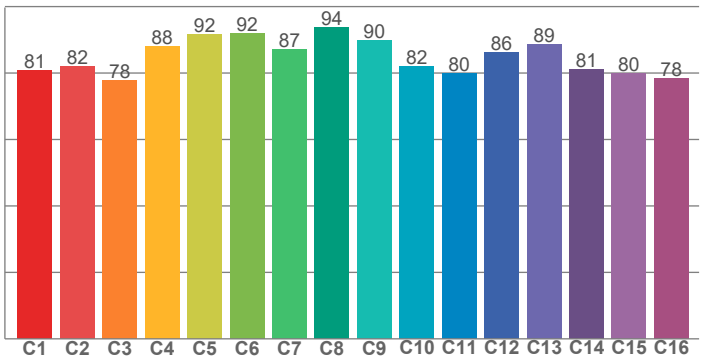
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Color details

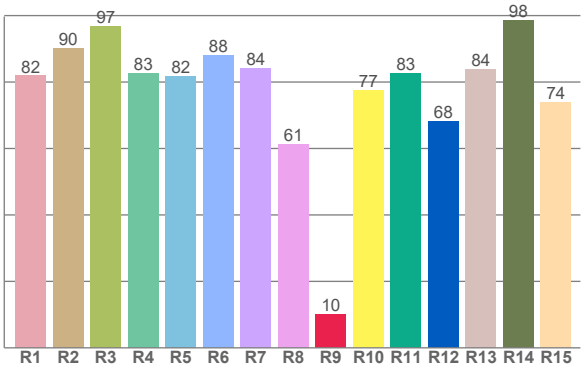




TM-30: 84.9



CRI: (R1-R8): 83.4



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
81.9	90.2	96.8	82.7	81.7	87.9	84.2	61.4	10.0	77.5	82.8	68.2	83.8	98.5	73.8

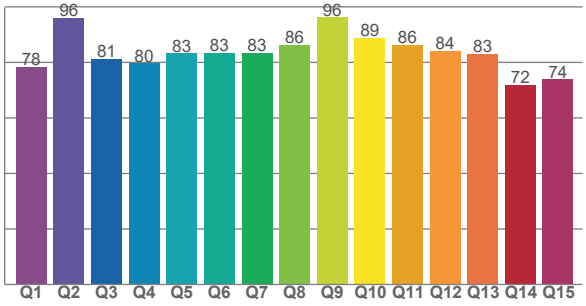
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.9	81.9	77.9	87.9	91.7	92.0	87.1	93.7	89.9	82.0	80.0	86.3	88.6	81.1	80.0	78.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.3	95.9	81.2	79.7	83.2	83.5	83.4	86.4	96.2	88.8	86.3	84.2	83.2	71.8	73.9

CQS: 82.4



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
3070 K	83.4	10.0	84.9	97.3	82.4	0.433	0.403	0.248	0.347	0.0003

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TM-30 details

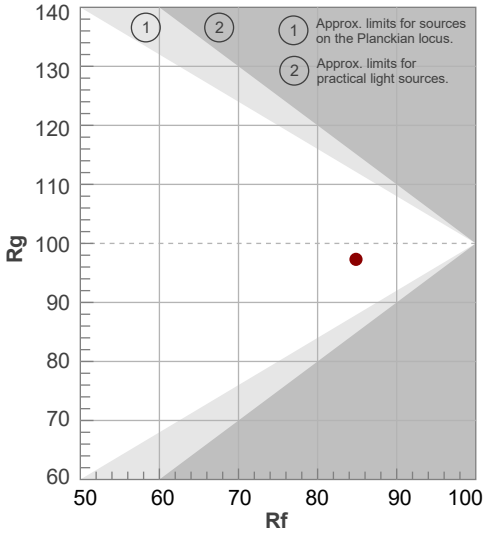
Rf 84.9

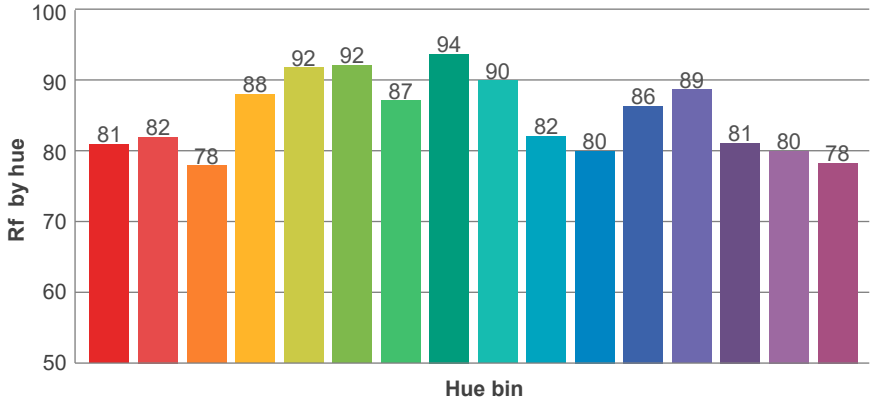
Fidelity index Rf

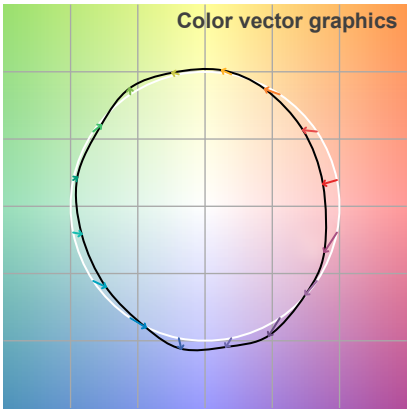
Rg 97.3

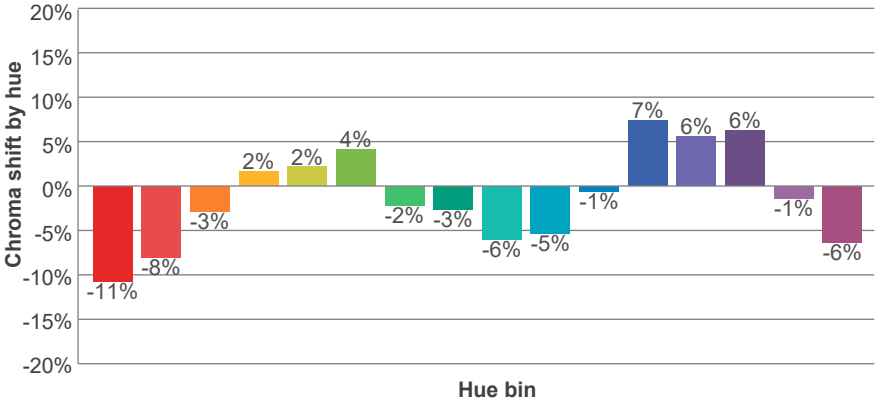
Gamut index Rg

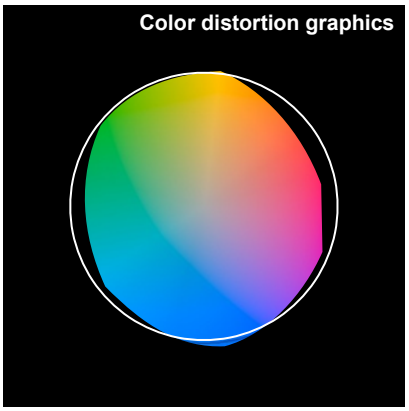
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	81	-11%	-1%
2	82	-8%	7%
3	78	-3%	11%
4	88	2%	7%
5	92	2%	5%
6	92	4%	-2%
7	87	-2%	-7%
8	94	-3%	-3%
9	90	-6%	2%
10	82	-5%	9%
11	80	-1%	13%
12	86	7%	3%
13	89	6%	-5%
14	81	6%	-14%
15	80	-1%	-13%
16	78	-6%	-16%

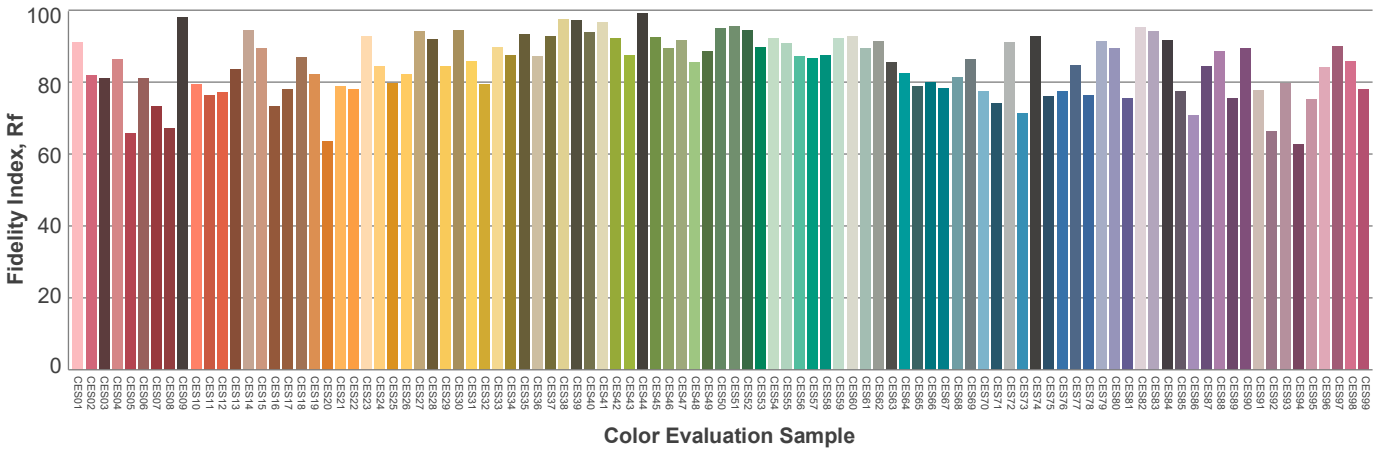






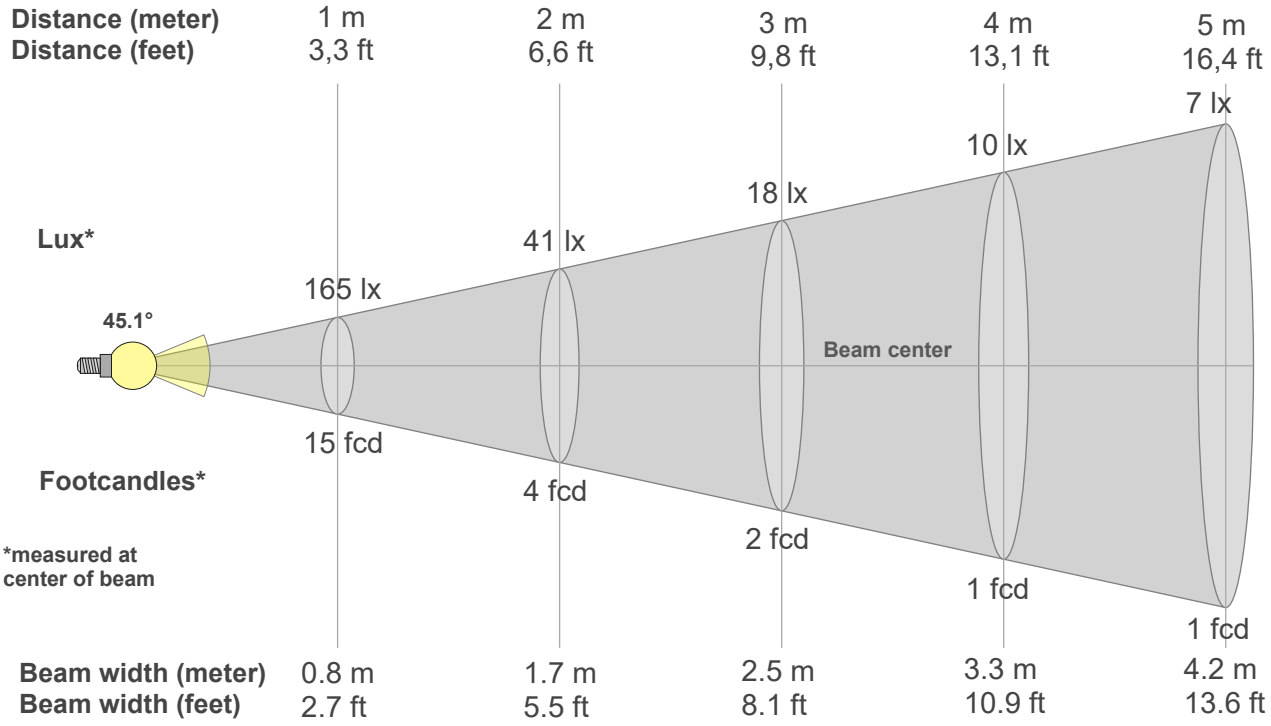






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Beam details



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
165lx	41lx	18lx	10lx	7lx	5lx	3lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx
15.3fcd	3.8fcd	1.7fcd	1fcd	0.6fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd

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°
165	164	161	157	151	143	135	125	115	105	95	85	76	67	59	52	46	40	35	31
100%	99%	98%	95%	92%	87%	82%	76%	70%	64%	58%	52%	46%	41%	36%	32%	28%	24%	21%	19%

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°
165	164	161	157	151	143	135	125	115	105	95	85	76	67	59	52	46	40	35	31
100%	99%	98%	95%	92%	87%	82%	76%	70%	64%	58%	52%	46%	41%	36%	32%	28%	24%	21%	19%

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°
165	164	161	157	151	143	135	125	115	105	95	85	76	67	59	52	46	40	35	31
100%	99%	98%	95%	92%	87%	82%	76%	70%	64%	58%	52%	46%	41%	36%	32%	28%	24%	21%	19%

Intensities in 270° c-plane

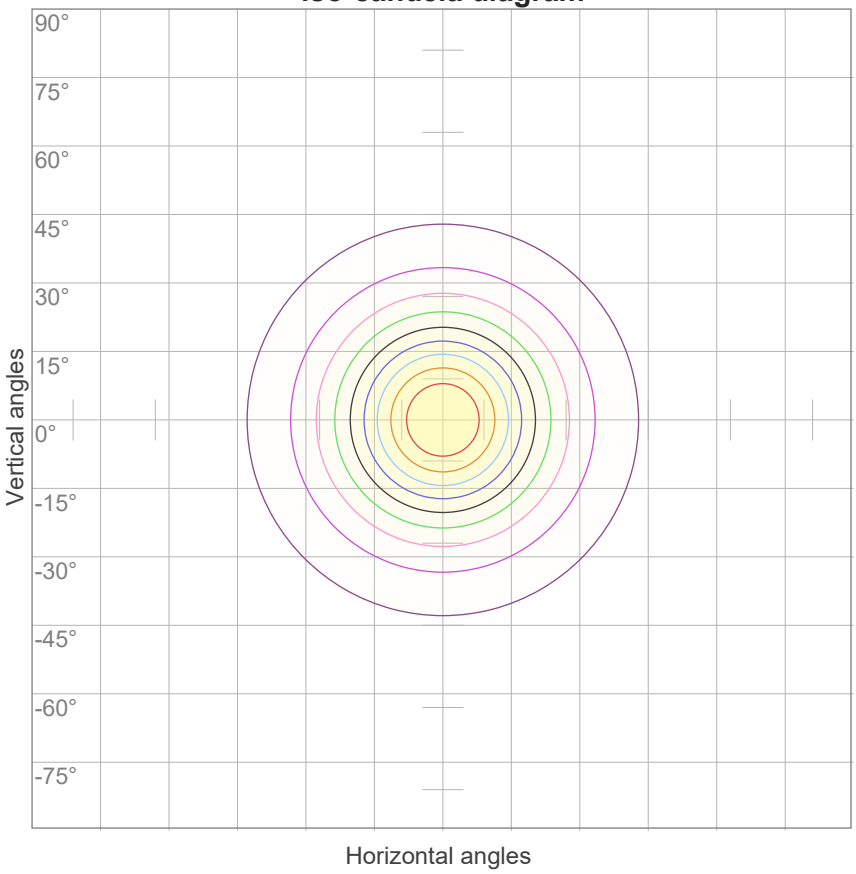
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
165	164	161	157	151	143	135	125	115	105	95	85	76	67	59	52	46	40	35	31
100%	99%	98%	95%	92%	87%	82%	76%	70%	64%	58%	52%	46%	41%	36%	32%	28%	24%	21%	19%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45.1°	95.4°	131.1°	94.8%	83.3%

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Iso Diagrams

iso-candela diagram



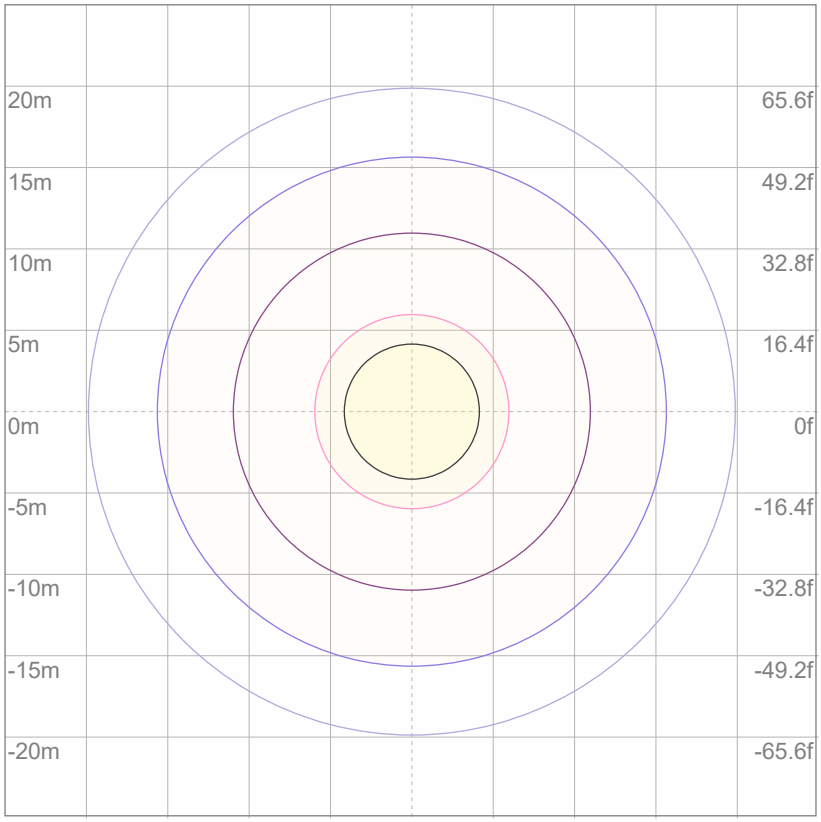
10%	16 cd
20%	33 cd
30%	49 cd
40%	66 cd
50%	82 cd
60%	99 cd
70%	115 cd
80%	132 cd
90%	148 cd

Conditions:

Number of c-planes: 12

Candela at center: 165 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	49.4m lx
5%	82.3m lx
10%	0.165 lx
30%	0.494 lx
50%	0.823 lx

Conditions:

Number of c-planes: 12

Lux at center: 1.65 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	14.2	14.9	14.3	15.2	15.4	14.8	15.6	14.9	15.8	16.0
	3H	14.2	15.1	14.6	15.4	15.5	14.9	15.8	15.3	16.1	16.2
	4H	14.3	15.1	14.7	15.4	15.6	15.0	15.9	15.4	16.1	16.4
	6H	14.4	15.1	14.7	15.4	15.7	15.2	15.9	15.5	16.2	16.5
	8H	14.3	15.0	14.7	15.3	15.7	15.2	15.9	15.5	16.2	16.6
	12H	14.3	15.0	14.6	15.3	15.7	15.1	15.8	15.5	16.2	16.6
4H	2H	14.2	15.0	14.6	15.3	15.5	14.7	15.6	15.1	15.8	16.0
	3H	14.5	15.2	14.9	15.5	16.0	15.2	15.8	15.5	16.2	16.6
	4H	14.5	15.1	15.0	15.6	16.1	15.2	15.8	15.7	16.3	16.8
	6H	14.6	15.2	15.1	15.5	15.9	15.3	16.0	15.8	16.3	16.7
	8H	14.6	15.1	15.1	15.5	15.8	15.4	15.9	15.9	16.3	16.6
	12H	14.5	15.0	15.0	15.4	15.9	15.3	15.8	15.8	16.2	16.7
8H	4H	14.5	15.1	15.0	15.4	15.8	15.2	15.8	15.7	16.1	16.5
	6H	14.6	15.0	15.1	15.5	16.0	15.3	15.7	15.8	16.2	16.7
	8H	14.7	15.0	15.2	15.5	16.1	15.4	15.8	15.9	16.3	16.9
	12H	14.6	14.9	15.2	15.4	16.0	15.4	15.7	16.0	16.2	16.8
12H	4H	14.5	14.9	15.0	15.3	15.8	15.1	15.6	15.6	16.0	16.5
	6H	14.6	14.9	15.1	15.5	16.1	15.4	15.7	15.9	16.2	16.8
	8H	14.6	14.9	15.2	15.4	16.0	15.4	15.7	16.0	16.2	16.8
Variation of the observer position for the luminaire distance S											
S = 1.0H		1.2 / -1.3					1.1 / -1.1				
S = 1.5H		2.6 / -2.6					2.4 / -2.3				
S = 2.0H		4.0 / -3.9					3.8 / -3.5				
CIE 117-1995. Corrected glare indices referring to 136 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	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75
4	94	85	79	74	92	84	78	73	82	77	73	79	75	72	77	74	71	69
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	68	65	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59
7	79	69	62	57	78	68	62	57	67	61	57	65	60	56	64	60	56	55
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51
9	71	61	54	50	70	60	54	50	59	54	50	58	53	49	57	53	49	48
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
14.7 lm	33.1 lm	32.7 lm	23.8 lm	15.3 lm	8.91 lm	4.33 lm	1.77 lm	0.469 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.115 lm	0.112 lm	0.105 lm	0.095 lm	0.022 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):	40.4	29.8%
Medium(30-60):	24.1	17.8%
High(60-80):	3.1	2.3%
Very high(80-90):	0.2	0.2%
Back light		
Low(0-30):	40.4	29.8%
Medium(30-60):	24.1	17.8%
High(60-80):	3.1	2.3%
Very high(80-90):	0.2	0.2%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

