NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

52 Lumen/Watt

Light quality:

CRI: 52.3

Color temperature:

6597 K

Output: 377 lm
Peak: 436 cd

Power: 7.2 W
PF: 1.0

Tracking number: VT250710-001704

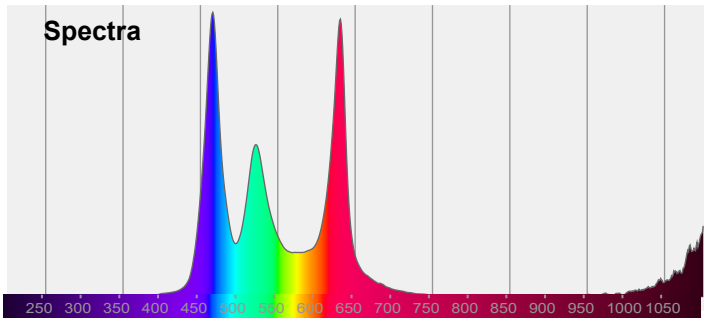
Product name:
GZF White RGBW All 20x40

Item number:
GZF-RGBW-WT-24-IP67-30 ALL

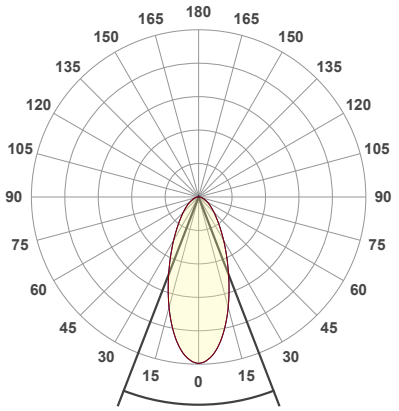
Date and time:
7/10/25 9:45:41 AM

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

Spectra



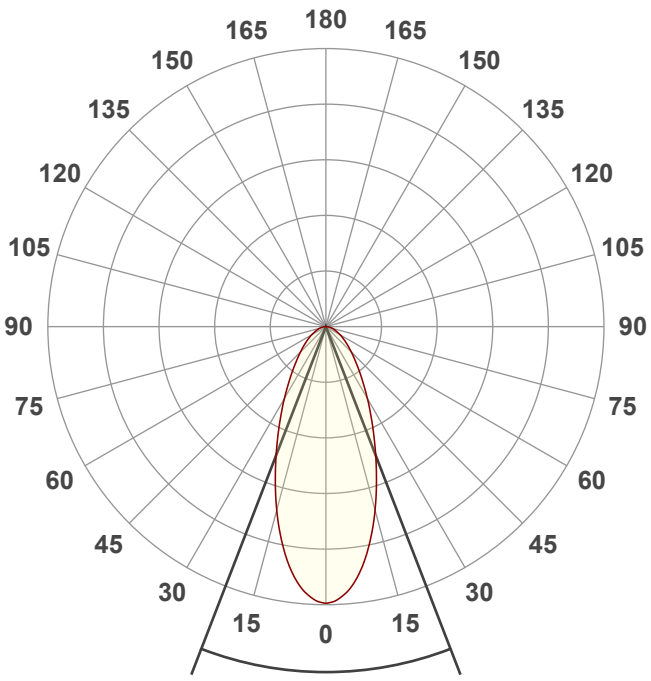
Average Beam Angle



42.3°

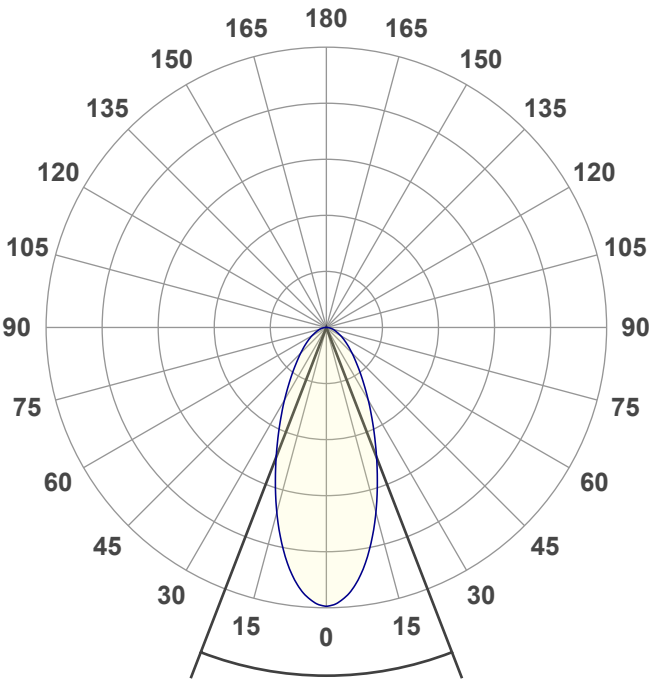
C Plane Resolution: 18°

Angular Distribution 0 ° Plane



42.3°

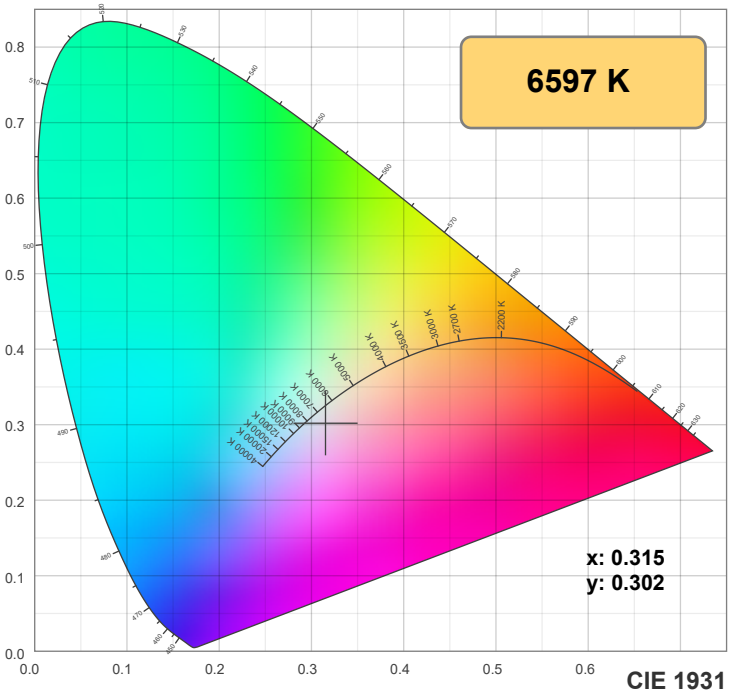
Angular Distribution 90 ° Plane



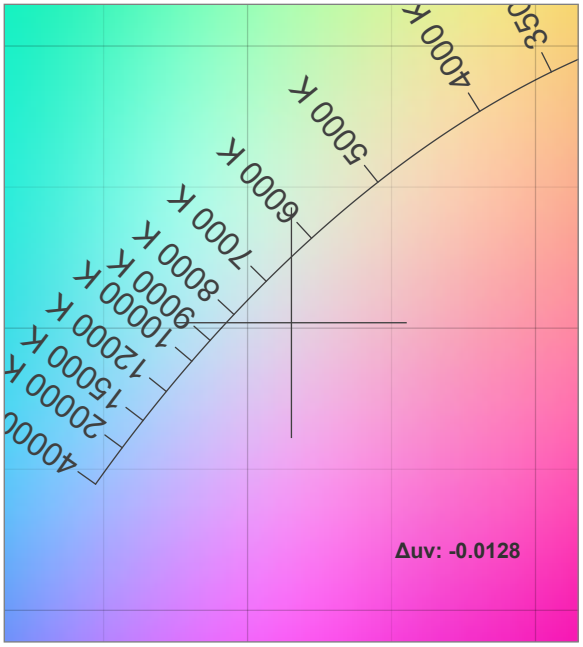
42.3°

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Color details

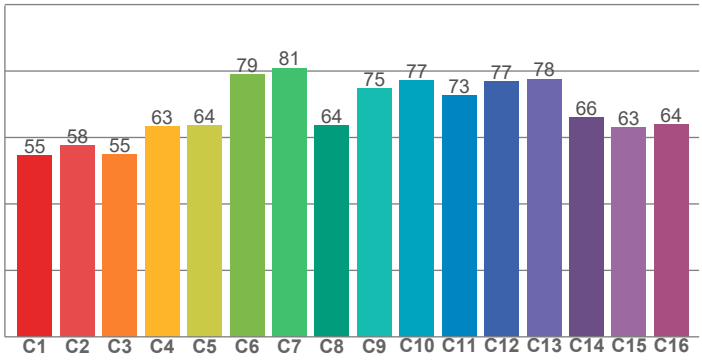


CIE 1931

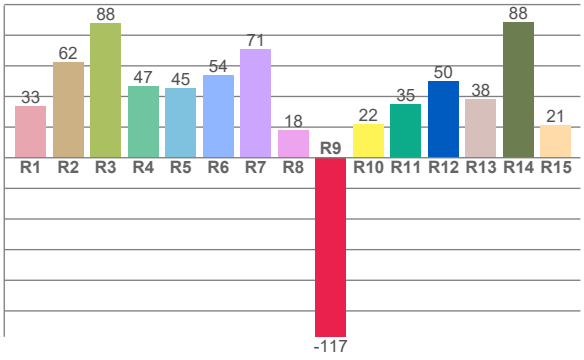


CIE 1931 ZOOM

TM-30: 67.8



CRI: (R1-R8): 52.3



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
33.5	62.2	88.0	46.7	45.1	53.9	71.0	17.9	-116.9	22.0	34.9	49.8	38.2	88.3	21.2

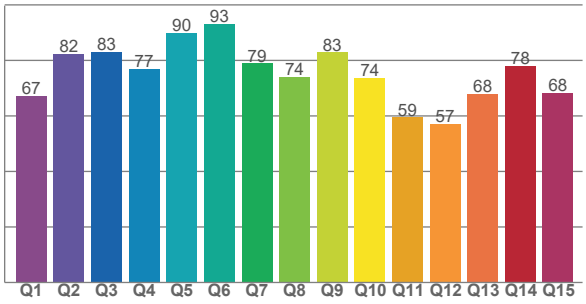
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
54.6	57.7	55.0	63.3	63.6	79.0	80.9	63.7	74.7	77.3	72.7	77.0	77.6	66.0	63.1	63.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
67.2	82.4	83.0	77.1	89.9	93.1	78.9	74.1	82.9	73.6	59.5	57.1	67.9	77.9	68.3

CQS: 73.6



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
6597 K	52.3	-116.9	67.8	107.1	73.6	0.315	0.302	0.210	0.302	-0.0128

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TM-30 details

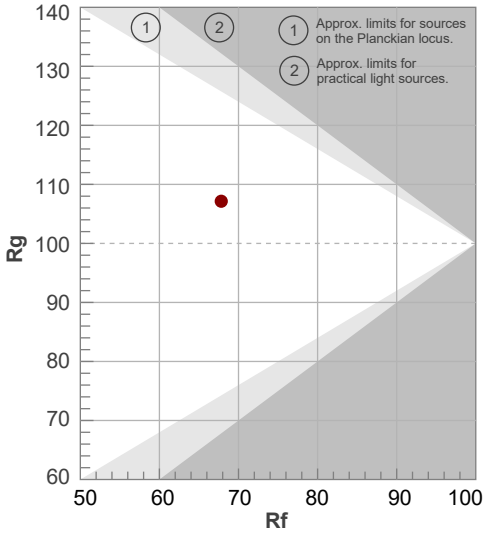
Rf 67.8

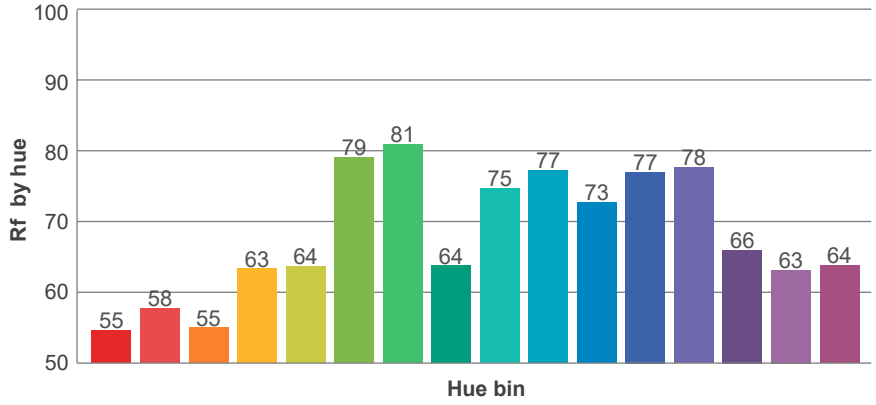
Fidelity index Rf

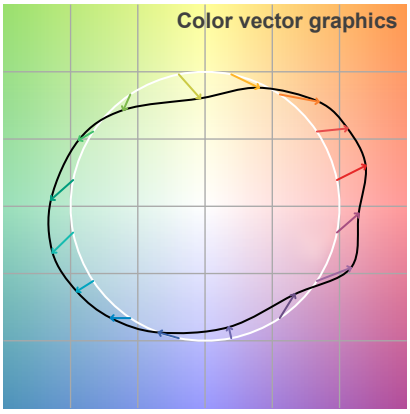
Rg 107.1

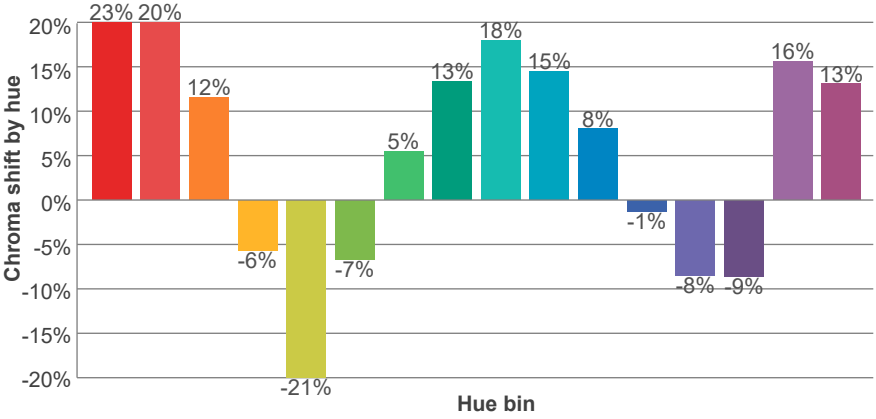
Gamut index Rg

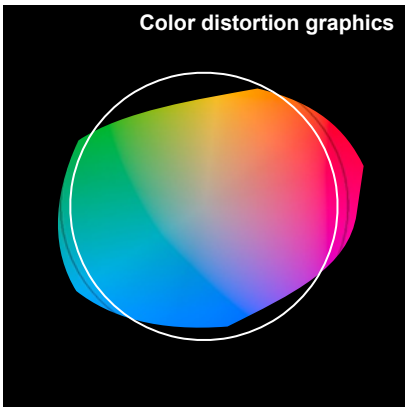
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	55	23%	6%
2	58	20%	-11%
3	55	12%	-27%
4	63	-6%	-22%
5	64	-21%	-12%
6	79	-7%	11%
7	81	5%	11%
8	64	13%	18%
9	75	18%	12%
10	77	15%	0%
11	73	8%	-12%
12	77	-1%	-16%
13	78	-8%	0%
14	66	-9%	19%
15	63	16%	22%
16	64	13%	17%

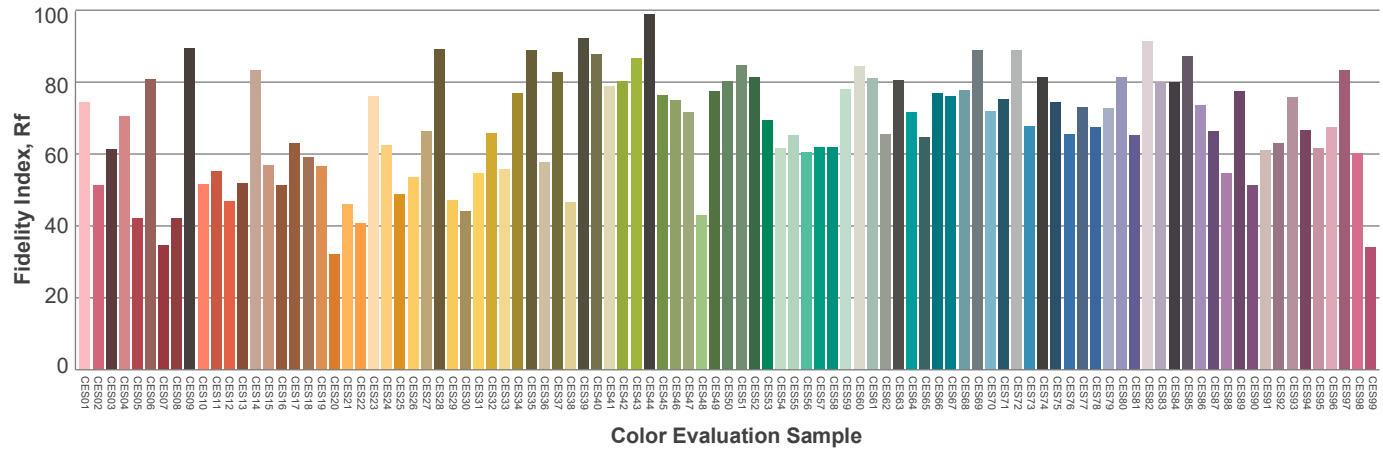






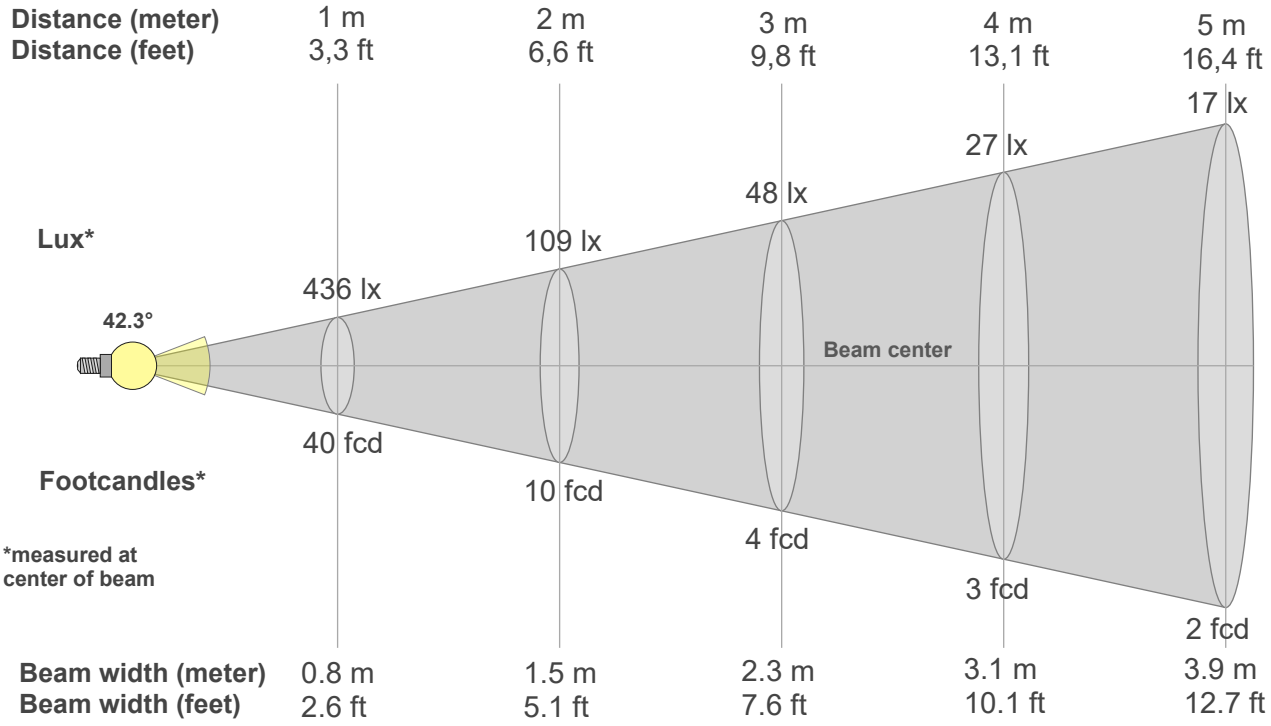






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Beam details



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
436lx	109lx	48lx	27lx	17lx	12lx	9lx	7lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx
40.5fcd	10.1fcd	4.5fcd	2.5fcd	1.6fcd	1.1fcd	0.8fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

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°
436	417	366	300	232	175	131	98	74	57	44	34	26	19	14	11	7	4	1	1
100%	96%	84%	69%	53%	40%	30%	22%	17%	13%	10%	8%	6%	4%	3%	2%	2%	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°
436	417	366	300	232	175	131	98	74	57	44	34	26	19	14	11	7	4	1	1
100%	96%	84%	69%	53%	40%	30%	22%	17%	13%	10%	8%	6%	4%	3%	2%	2%	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°
436	417	366	300	232	175	131	98	74	57	44	34	26	19	14	11	7	4	1	1
100%	96%	84%	69%	53%	40%	30%	22%	17%	13%	10%	8%	6%	4%	3%	2%	2%	1%	0%	0%

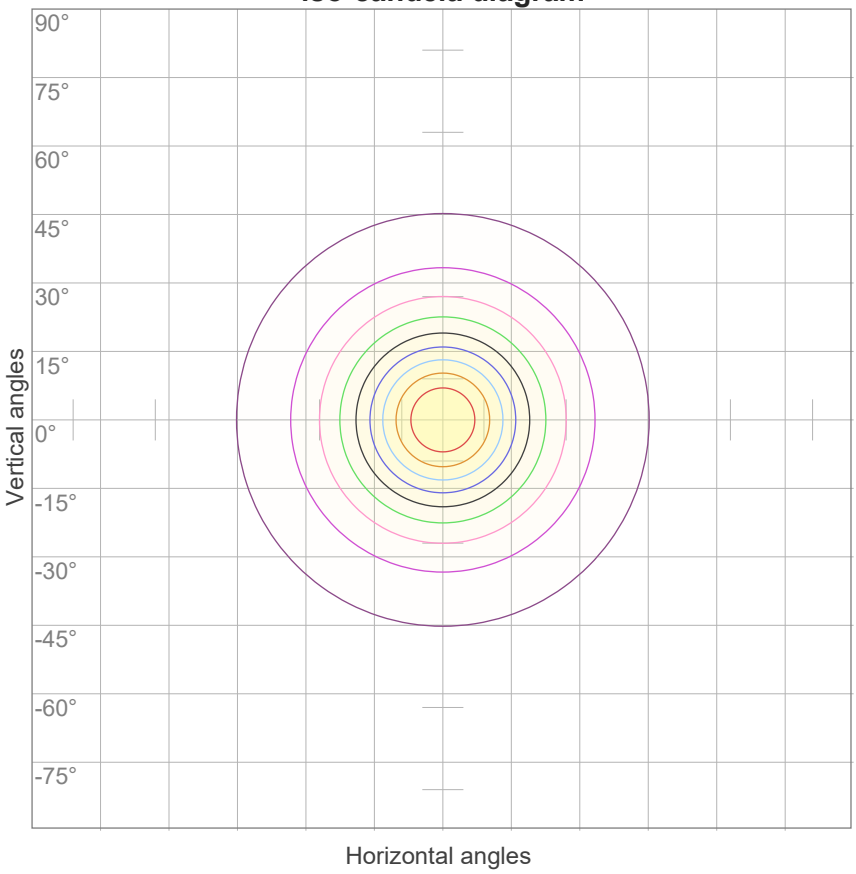
Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
436	417	366	300	232	175	131	98	74	57	44	34	26	19	14	11	7	4	1	1
100%	96%	84%	69%	53%	40%	30%	22%	17%	13%	10%	8%	6%	4%	3%	2%	2%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42.3°	100.5°	149.1°	89.7%	76.2%

Iso Diagrams

iso-candela diagram



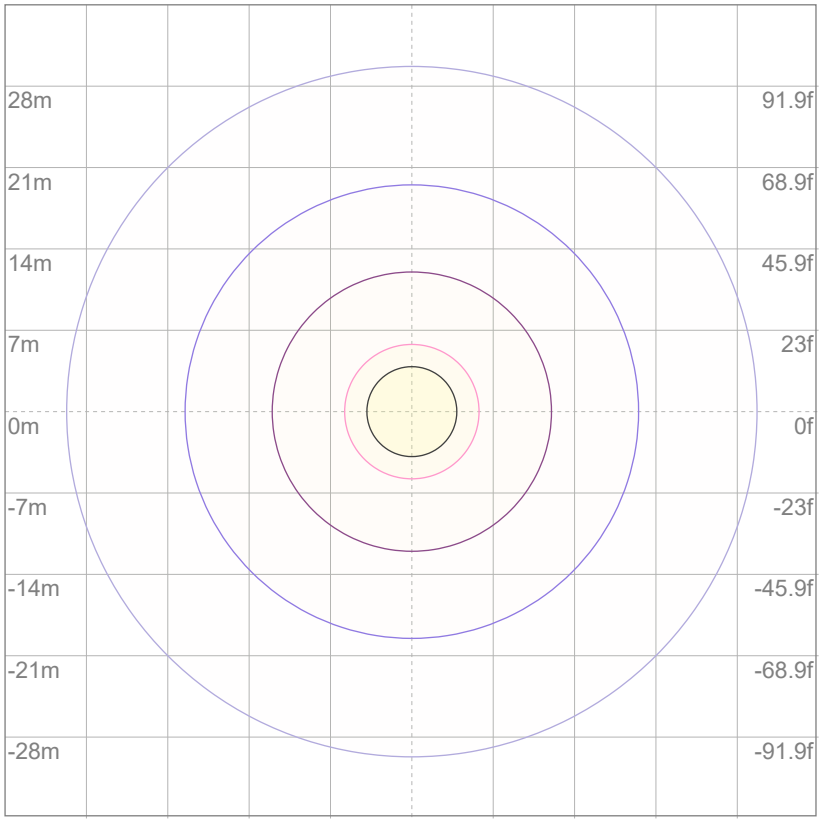
10%	44 cd
20%	87 cd
30%	131 cd
40%	174 cd
50%	218 cd
60%	261 cd
70%	305 cd
80%	349 cd
90%	392 cd

Conditions:

Number of c-planes: 20

Candela at center: 436 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.131 lx
5%	0.218 lx
10%	0.436 lx
30%	1.31 lx
50%	2.18 lx

Conditions:

Number of c-planes: 20

Lux at center: 4.36 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	18.6	19.5	18.8	19.7	19.9	19.3	20.1	19.4	20.4	20.6
	3H	19.2	20.1	19.6	20.4	20.6	20.0	21.0	20.4	21.2	21.4
	4H	19.5	20.4	19.9	20.6	20.9	20.5	21.4	20.9	21.6	21.9
	6H	19.8	20.5	20.1	20.8	21.2	20.9	21.7	21.2	22.0	22.3
	8H	19.8	20.6	20.1	20.9	21.3	21.0	21.8	21.4	22.1	22.5
	12H	19.8	20.6	20.2	20.9	21.3	21.1	21.9	21.5	22.2	22.7
4H	2H	18.9	19.8	19.3	20.0	20.3	19.4	20.3	19.8	20.6	20.8
	3H	19.8	20.5	20.1	20.9	21.3	20.5	21.3	20.9	21.6	22.1
	4H	20.1	20.8	20.5	21.2	21.7	21.0	21.7	21.4	22.1	22.6
	6H	20.4	21.1	20.9	21.4	21.8	21.5	22.2	22.0	22.5	22.9
	8H	20.5	21.1	21.0	21.5	21.9	21.7	22.3	22.2	22.7	23.0
	12H	20.6	21.1	21.0	21.5	21.9	21.8	22.3	22.3	22.8	23.2
8H	4H	20.3	20.9	20.8	21.2	21.6	21.1	21.7	21.6	22.1	22.5
	6H	20.7	21.2	21.2	21.6	22.2	21.7	22.2	22.2	22.6	23.2
	8H	20.9	21.3	21.4	21.8	22.4	22.0	22.4	22.5	22.9	23.5
	12H	21.0	21.3	21.6	21.8	22.4	22.2	22.5	22.8	23.0	23.7
12H	4H	20.3	20.8	20.8	21.2	21.6	21.1	21.6	21.6	22.0	22.5
	6H	20.8	21.2	21.3	21.7	22.3	21.8	22.1	22.3	22.7	23.3
	8H	20.9	21.3	21.5	21.8	22.4	22.0	22.3	22.6	22.9	23.5
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.4 / -0.4					0.3 / -0.3				
S = 1.5H		1.0 / -0.9					0.9 / -0.7				
S = 2.0H		1.7 / -1.4					1.5 / -1.2				
CIE 117-1995. Corrected glare indices referring to 377 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	111	108	104	101	109	105	102	100	101	99	96	97	95	93	93	92	90	88
2	104	98	92	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	80	74	69	78	73	68	76	71	67	74	70	66	65
5	86	76	68	63	84	74	68	63	72	67	62	70	65	61	69	64	61	59
6	81	70	63	58	79	69	62	58	67	61	57	66	61	57	64	60	56	54
7	76	65	58	53	75	64	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	48	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°
38.2 lm	82.7 lm	80.6 lm	61.7 lm	44.2 lm	30.7 lm	19.4 lm	11.1 lm	4.12 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.754 lm	0.718 lm	0.674 lm	0.609 lm	0.526 lm	0.426 lm	0.314 lm	0.192 lm	0.065 lm

LCS table

BUG rating:	B0 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	101.9	27%
Medium(30-60):	69.1	18.3%
High(60-80):	15.4	4.1%
Very high(80-90):	2.1	0.6%
Back light		
Low(0-30):	101.9	27%
Medium(30-60):	69.1	18.3%
High(60-80):	15.4	4.1%
Very high(80-90):	2.1	0.6%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

