NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

102 Lumen/Watt

Light quality:

CRI: 69.9

Color temperature:

5840 K

Output: 819 lm
Peak: 2175 cd

Power: 8.0 W
PF: 1.0

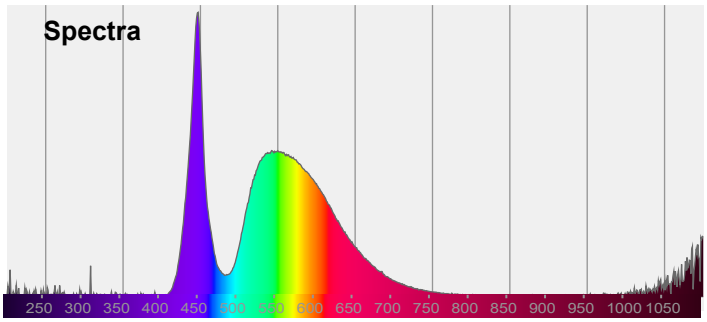
Tracking number: VT250723-004487

Product name:
GRZ White 25 24 57

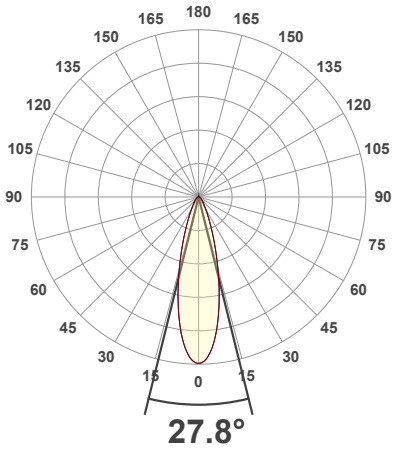
Item number:
1 foot Flex Grazer White 5700K 25° Optic

Date and time:
7/23/25 1:02:54 PM

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

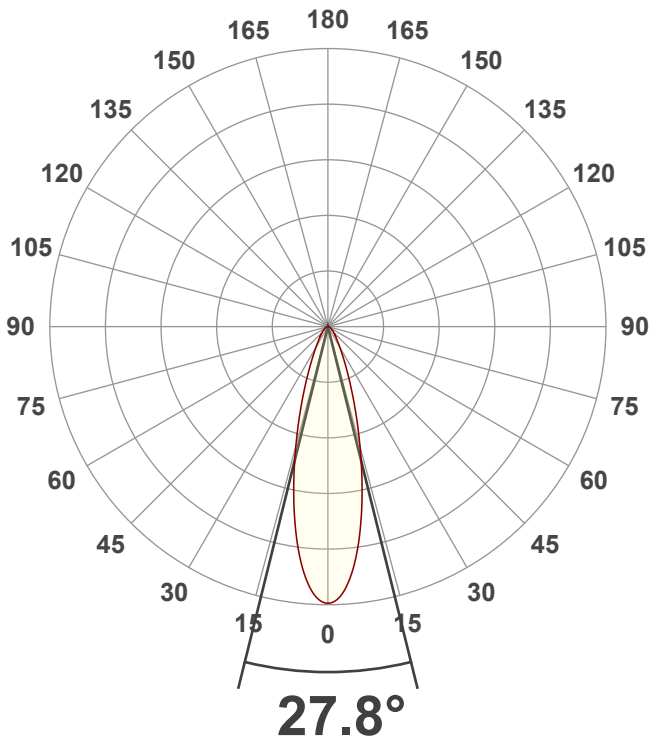


Average Beam Angle

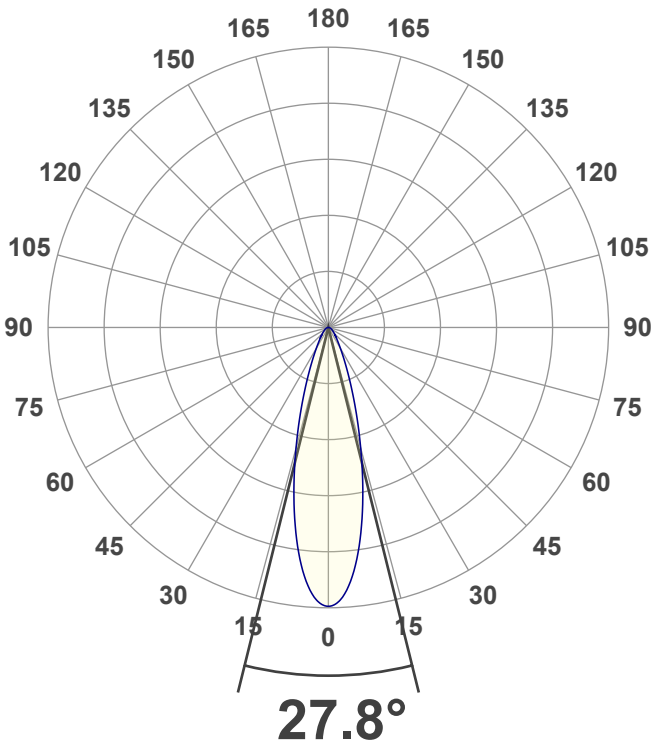


C Plane Resolution: 5°

Angular Distribution 0 ° Plane

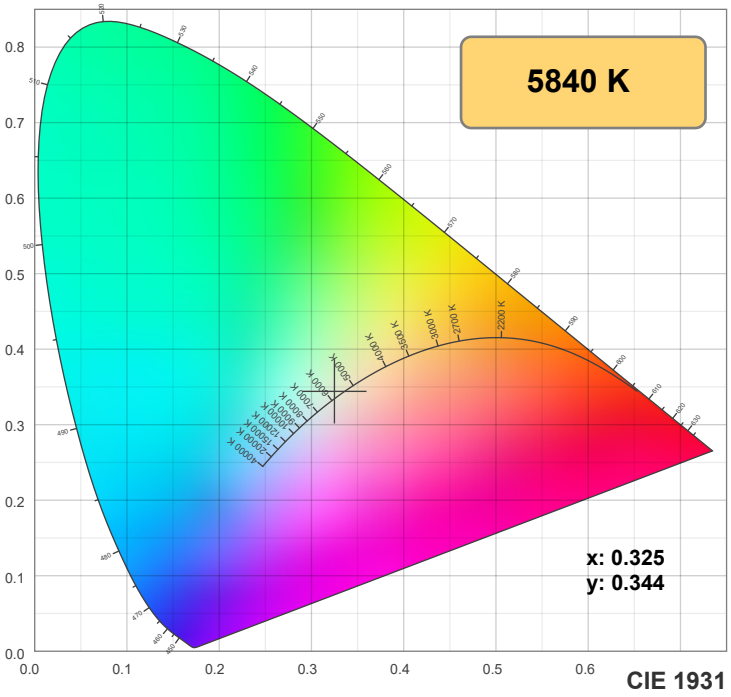


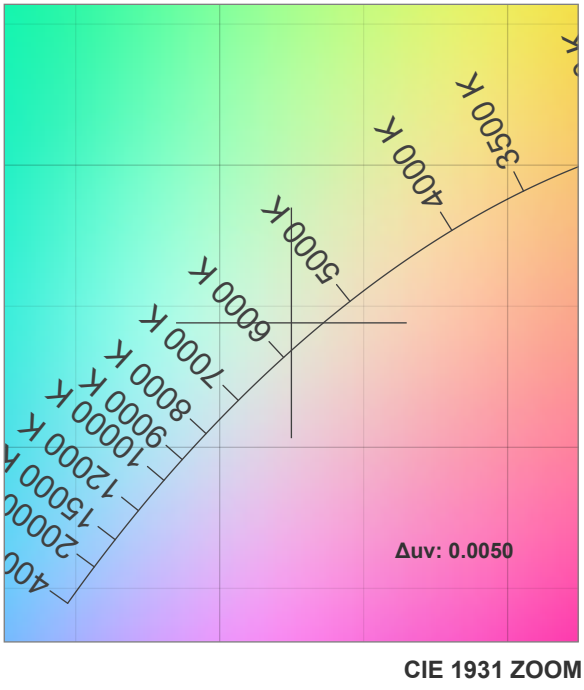
Angular Distribution 90 ° Plane



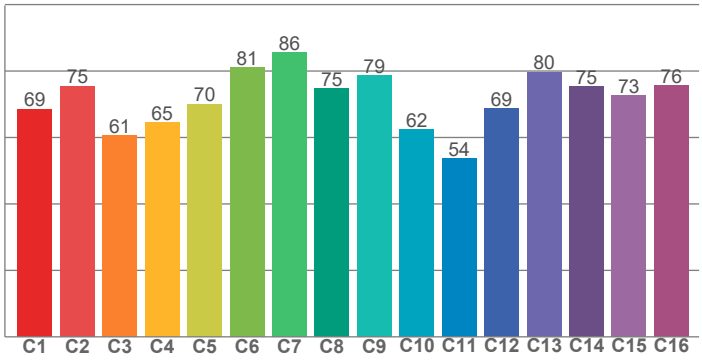
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Color details

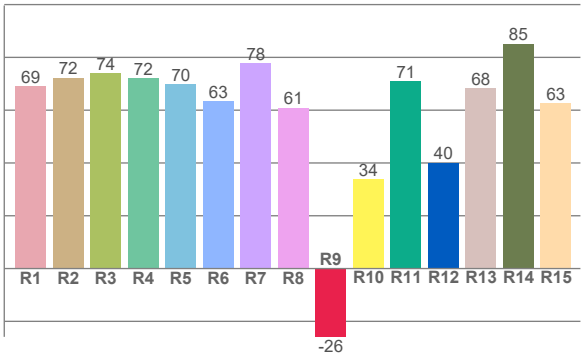




TM-30: 71.0



CRI: (R1-R8): 69.9



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
69.0	72.3	73.9	72.2	69.8	63.4	77.8	60.9	-25.9	33.9	70.9	40.1	68.3	85.2	62.7

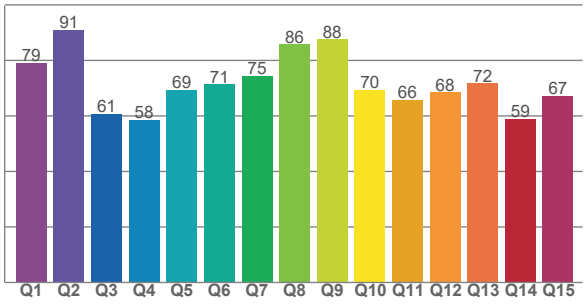
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
68.6	75.5	60.7	64.7	70.1	81.2	85.7	74.9	78.7	62.3	53.7	68.8	79.7	75.5	72.6	75.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79.1	91.0	60.8	58.5	69.3	71.3	74.5	85.8	87.6	69.5	65.8	68.4	71.7	58.9	67.3

CQS: 70.3



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
5840 K	69.9	-25.9	71.0	95.9	70.3	0.325	0.344	0.201	0.319	0.0050

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TM-30 details

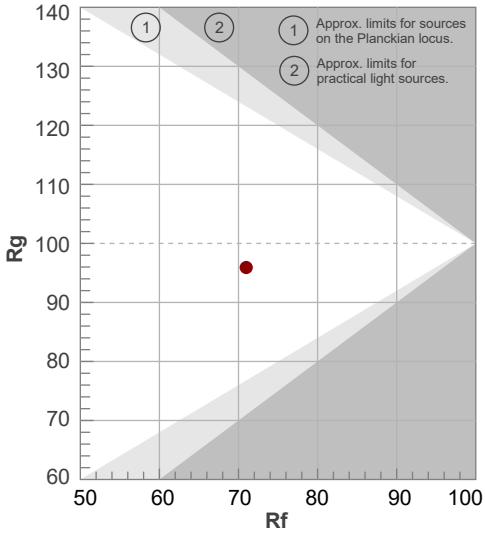
Rf 71.0

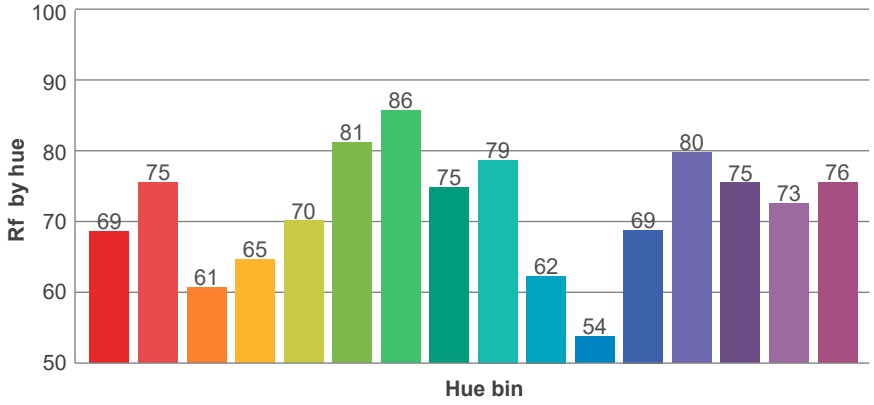
Fidelity index Rf

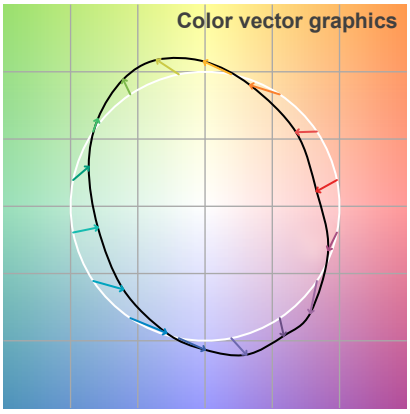
Rg 95.9

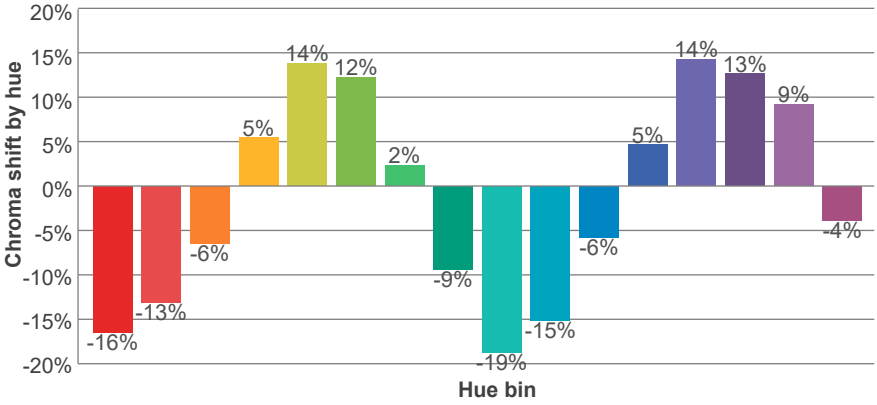
Gamut index Rg

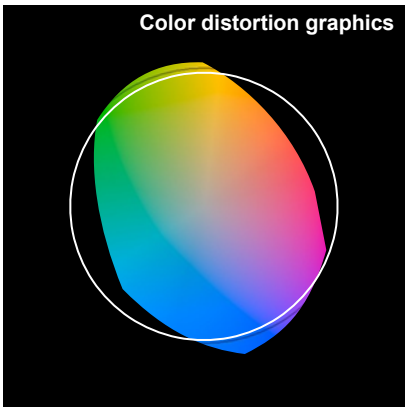
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	69	-16%	-5%
2	75	-13%	8%
3	61	-6%	22%
4	65	5%	22%
5	70	14%	14%
6	81	12%	-2%
7	86	2%	-10%
8	75	-9%	-12%
9	79	-19%	0%
10	62	-15%	18%
11	54	-6%	28%
12	69	5%	21%
13	80	14%	9%
14	75	13%	-5%
15	73	9%	-22%
16	76	-4%	-14%

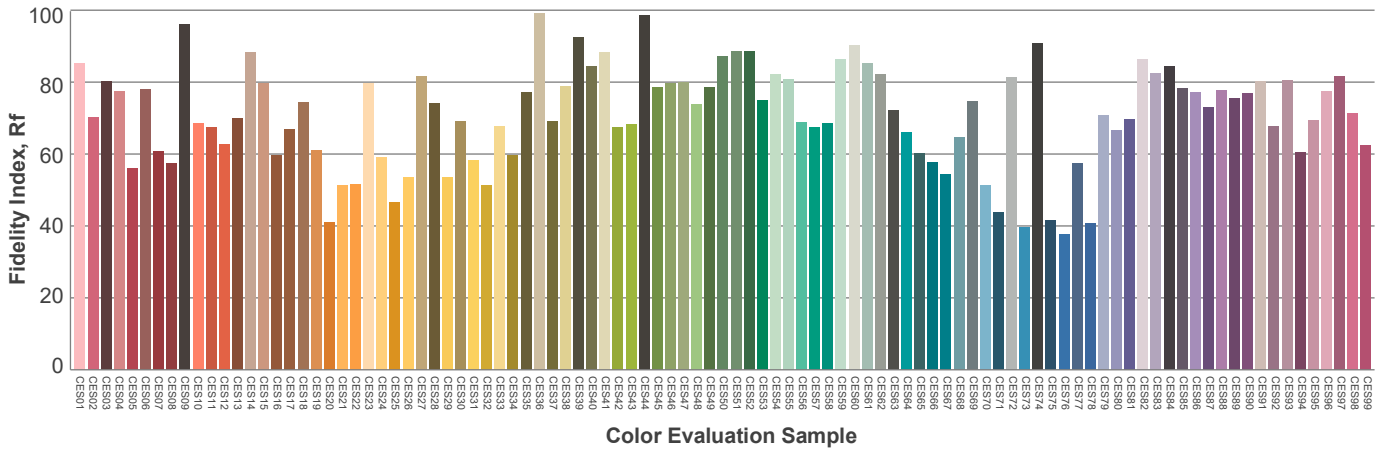






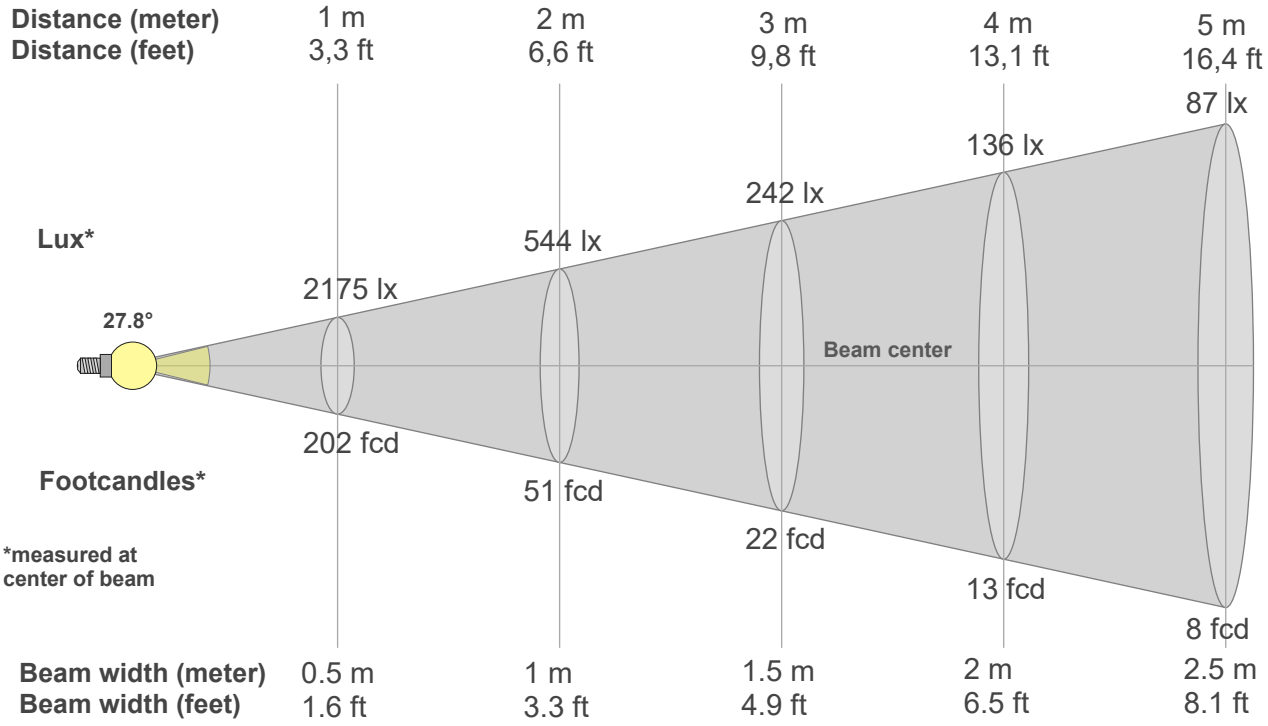






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Beam details



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
2175lx	544lx	242lx	136lx	87lx	60lx	44lx	34lx	27lx	22lx	18lx	15lx	13lx	11lx	10lx	8lx	8lx	7lx	6lx	5lx
202.1fc	50.5fcd	22.5fcd	12.6fcd	8.1fcd	5.6fcd	4.1fcd	3.2fcd	2.5fcd	2fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	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°
2175	2145	2054	1909	1725	1514	1294	1079	880	708	563	446	354	283	229	188	156	132	113	97
100%	99%	94%	88%	79%	70%	59%	50%	40%	33%	26%	20%	16%	13%	11%	9%	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°
2175	2145	2054	1909	1725	1514	1294	1079	880	708	563	446	354	283	229	188	156	132	113	97
100%	99%	94%	88%	79%	70%	59%	50%	40%	33%	26%	20%	16%	13%	11%	9%	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°
2175	2145	2054	1909	1725	1514	1294	1079	880	708	563	446	354	283	229	188	156	132	113	97
100%	99%	94%	88%	79%	70%	59%	50%	40%	33%	26%	20%	16%	13%	11%	9%	7%	6%	5%	4%

Intensities in 270° c-plane

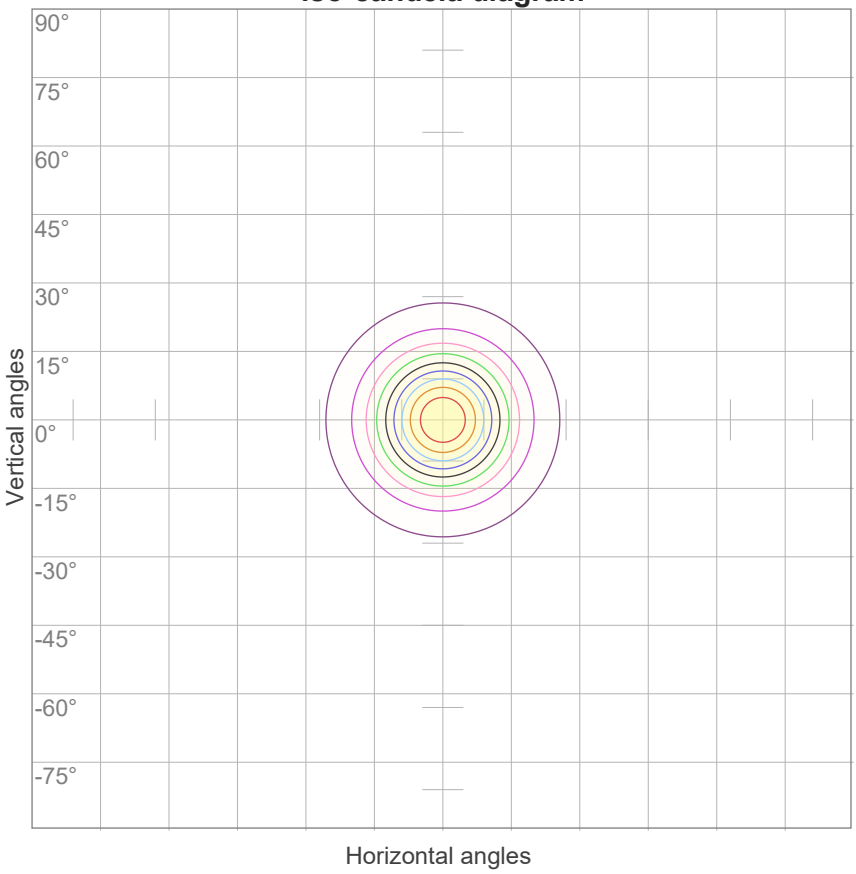
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2175	2145	2054	1909	1725	1514	1294	1079	880	708	563	446	354	283	229	188	156	132	113	97
100%	99%	94%	88%	79%	70%	59%	50%	40%	33%	26%	20%	16%	13%	11%	9%	7%	6%	5%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27.8°	57°	95.7°	92.2%	85.2%

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Iso Diagrams

iso-candela diagram



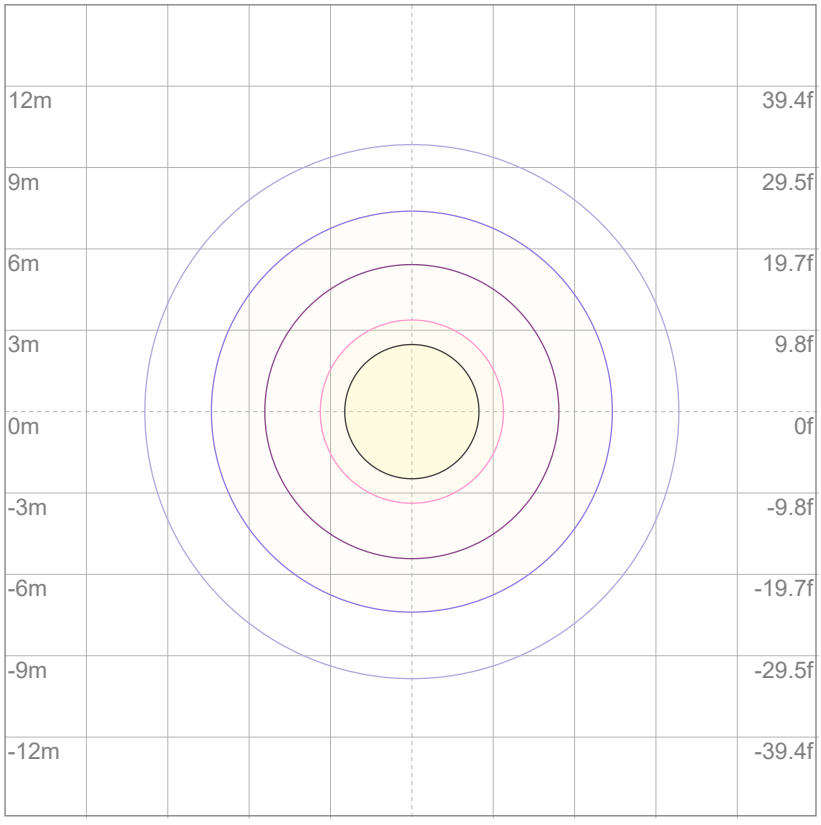
10%	218 cd
20%	435 cd
30%	653 cd
40%	870 cd
50%	1088 cd
60%	1305 cd
70%	1523 cd
80%	1740 cd
90%	1958 cd

Conditions:

Number of c-planes: 72

Candela at center: 2175 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.653 lx
5%	1.09 lx
10%	2.18 lx
30%	6.53 lx
50%	10.9 lx

Conditions:

Number of c-planes: 72

Lux at center: 21.8 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	17.0	17.7	17.1	17.9	18.1	17.7	18.3	17.8	18.6	18.8
	3H	17.7	18.5	18.1	18.7	18.9	18.6	19.4	19.0	19.6	19.8
	4H	18.1	18.8	18.5	19.1	19.3	19.1	19.9	19.5	20.1	20.3
	6H	18.5	19.1	18.8	19.4	19.7	19.7	20.3	20.0	20.6	21.0
	8H	18.5	19.2	18.9	19.5	19.9	19.9	20.5	20.2	20.8	21.2
	12H	18.6	19.2	18.9	19.5	19.9	20.0	20.6	20.4	21.0	21.4
4H	2H	17.3	18.0	17.7	18.3	18.5	17.9	18.6	18.2	18.8	19.1
	3H	18.4	19.0	18.7	19.3	19.7	19.1	19.7	19.5	20.1	20.5
	4H	18.8	19.3	19.2	19.8	20.3	19.7	20.3	20.2	20.7	21.2
	6H	19.2	19.8	19.7	20.1	20.5	20.4	21.0	20.9	21.3	21.6
	8H	19.3	19.9	19.9	20.2	20.6	20.6	21.1	21.1	21.5	21.9
	12H	19.4	19.8	19.9	20.2	20.7	20.8	21.2	21.3	21.6	22.1
8H	4H	19.0	19.6	19.5	19.9	20.3	19.9	20.4	20.4	20.8	21.1
	6H	19.6	20.0	20.1	20.4	20.9	20.7	21.0	21.2	21.5	22.0
	8H	19.8	20.1	20.3	20.6	21.3	21.0	21.3	21.5	21.8	22.4
	12H	19.9	20.2	20.5	20.7	21.3	21.3	21.5	21.8	22.0	22.6
12H	4H	19.0	19.4	19.5	19.9	20.3	19.8	20.3	20.3	20.7	21.1
	6H	19.7	20.0	20.2	20.5	21.1	20.7	21.0	21.2	21.5	22.2
	8H	19.9	20.1	20.5	20.6	21.2	21.0	21.3	21.6	21.8	22.4
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.5 / -0.4					0.4 / -0.3				
S = 1.5H		1.2 / -0.7					1.0 / -0.5				
S = 2.0H		2.1 / -1.1					1.8 / -0.9				
CIE 117-1995. Corrected glare indices referring to 819 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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	112	109	107	104	110	107	105	103	103	101	99	98	97	96	95	93	92	90
2	107	102	97	94	104	100	96	93	96	93	90	93	90	88	90	88	86	84
3	102	95	90	86	99	93	89	85	90	87	83	88	84	82	85	82	80	78
4	97	89	84	79	95	88	83	79	85	81	78	83	79	77	81	78	75	74
5	92	84	78	74	91	83	78	74	81	76	73	79	75	72	77	74	71	70
6	88	80	74	70	87	79	73	70	77	72	69	76	71	68	74	70	68	66
7	85	76	70	66	83	75	70	66	74	69	65	72	68	65	71	67	64	63
8	81	72	67	63	80	72	66	63	70	66	62	69	65	62	68	64	61	60
9	78	69	64	60	77	69	63	60	68	63	60	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°
174 lm	268 lm	150 lm	78.3 lm	50.3 lm	34.4 lm	23.4 lm	14.8 lm	5.16 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	20.3 lm

LCS table

BUG rating:	B1 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	303.4	37%
Medium(30-60):	83.3	10.2%
High(60-80):	19.7	2.4%
Very high(80-90):	3.1	0.4%
Back light		
Low(0-30):	303.4	37%
Medium(30-60):	83.3	10.2%
High(60-80):	19.7	2.4%
Very high(80-90):	3.1	0.4%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

