NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

76 Lumen/Watt

Light quality:

CRI: 85.4

Color temperature:

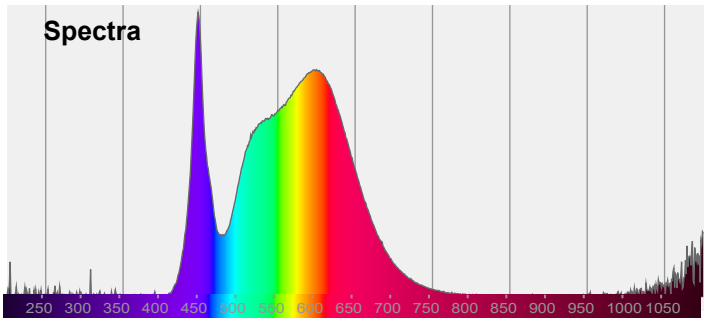
4103 K

Output: 619 lm
Peak: 1363 cd

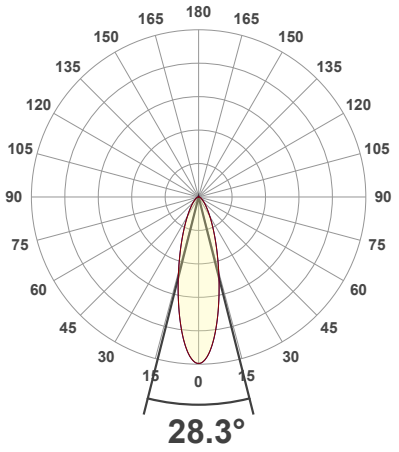
Power: 8.1 W
PF: 1.0

Tracking number: VT250711-009692

Product name:
GZF-BK-10X40-24-IP67-40
Item number:
GZF-BK-10X40-24-IP67-40
Date and time:
7/11/25 11:02:50 AM
All values scaled to 1 foot
From 0.75 M sample tested @ 11 M

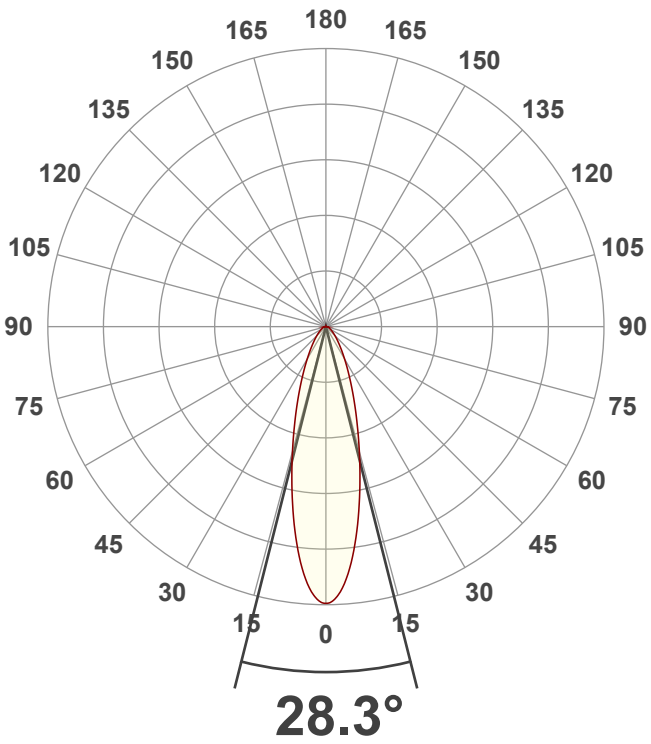


Average Beam Angle

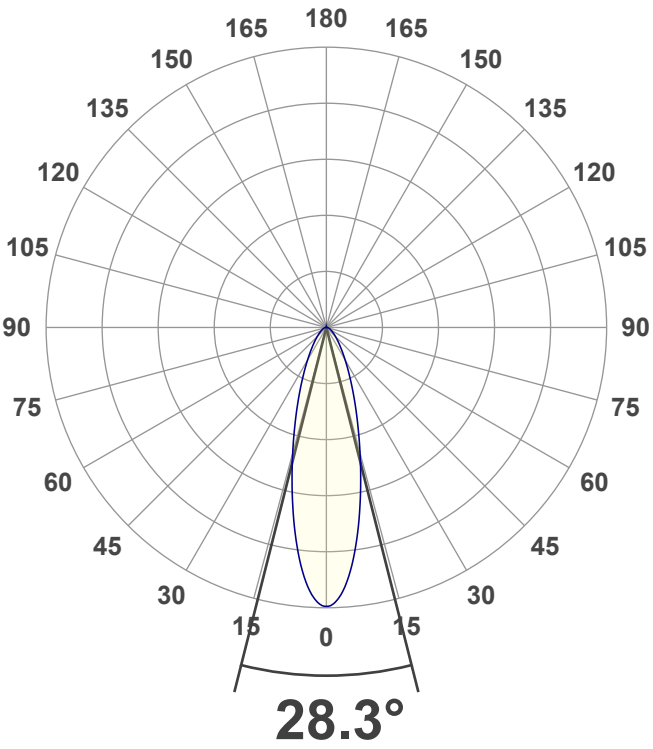


C Plane Resolution: 18°

Angular Distribution 0 ° Plane

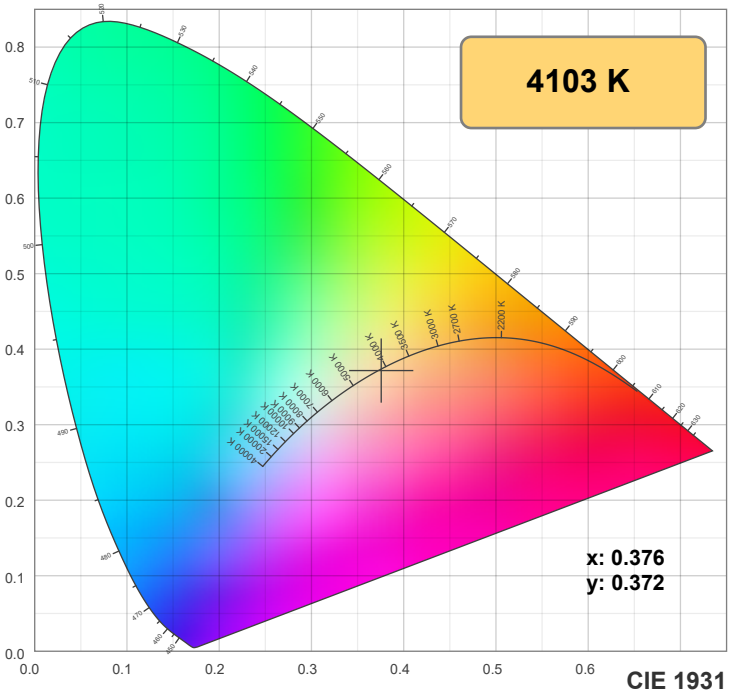


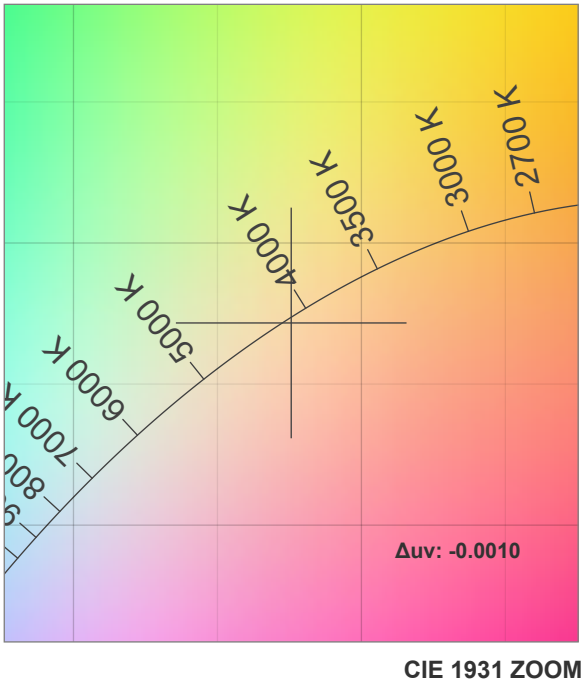
Angular Distribution 90 ° Plane



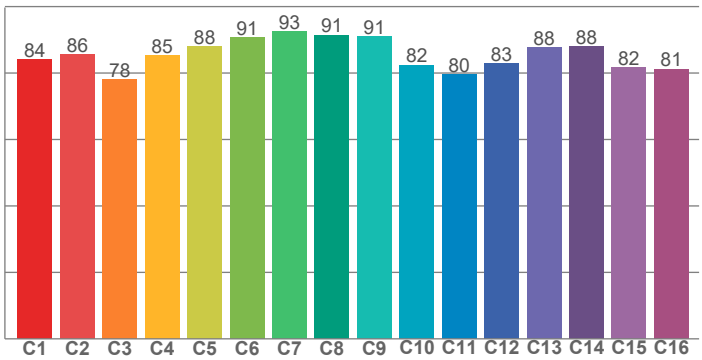
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Color details

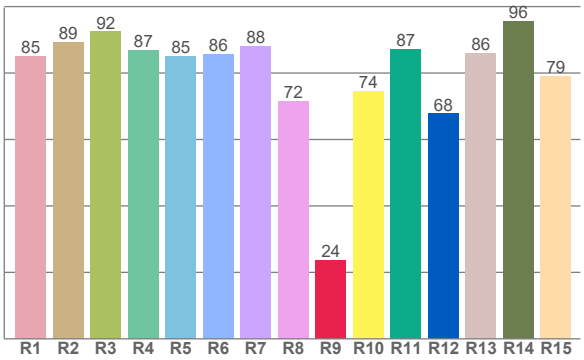




TM-30: 85.3



CRI: (R1-R8): 85.4



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
85.1	89.2	92.4	86.8	85.1	85.5	88.0	71.5	23.7	74.4	87.2	67.7	85.9	95.6	79.1

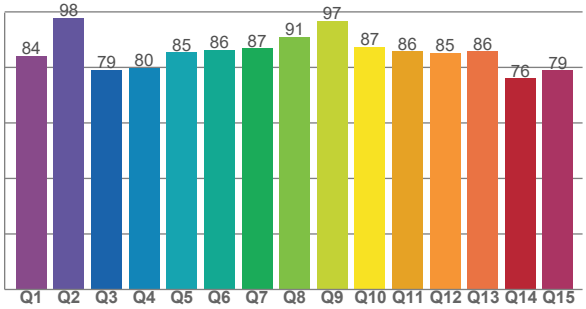
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
84.0	85.7	78.0	85.3	88.1	90.8	92.6	91.4	90.9	82.4	79.7	83.0	87.8	88.0	81.6	81.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84.1	97.8	79.1	79.7	85.4	86.2	86.8	90.9	96.8	87.3	85.8	85.3	85.7	76.0	78.9

CQS: 84.6



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
4103 K	85.4	23.7	85.3	99.1	84.6	0.376	0.372	0.224	0.332	-0.0010

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TM-30 details

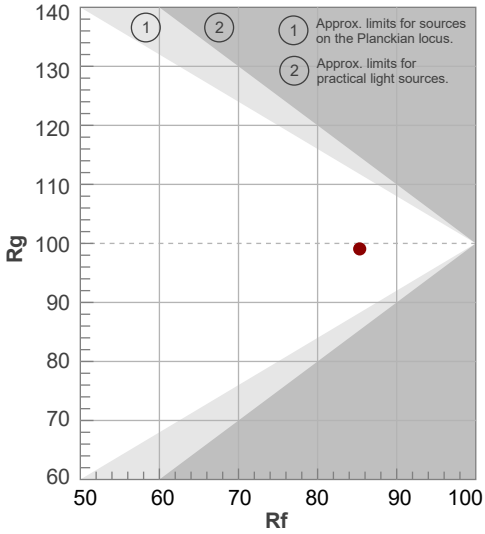
Rf 85.3

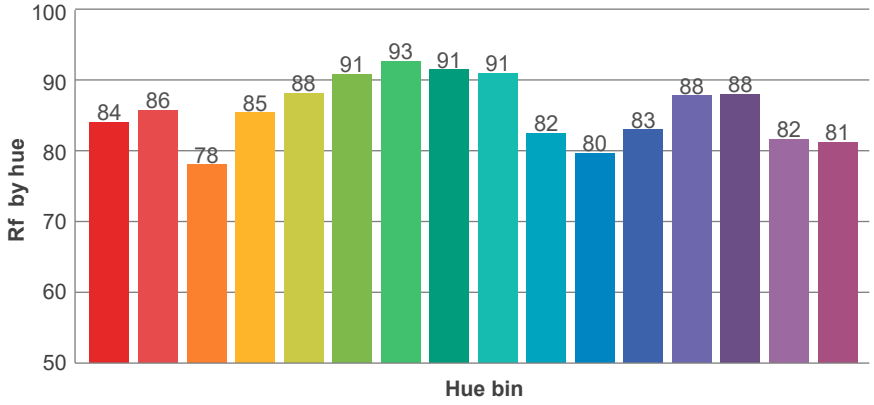
Fidelity index Rf

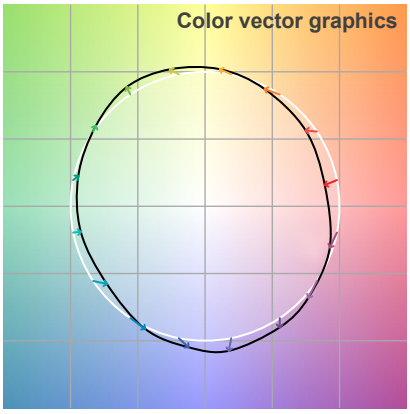
Rg 99.1

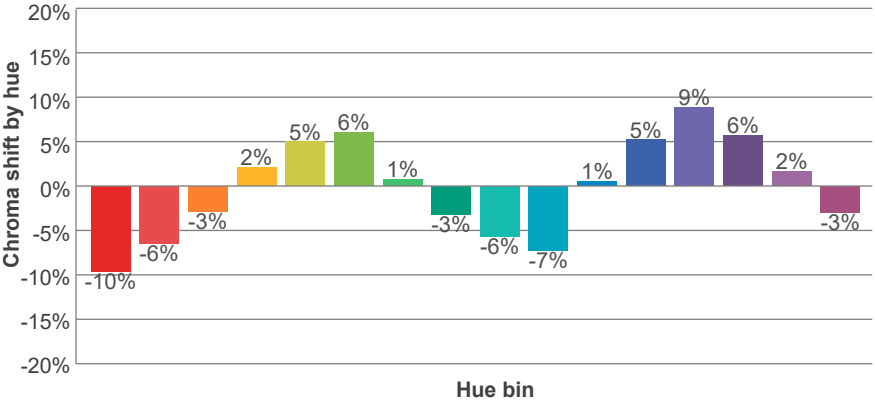
Gamut index Rg

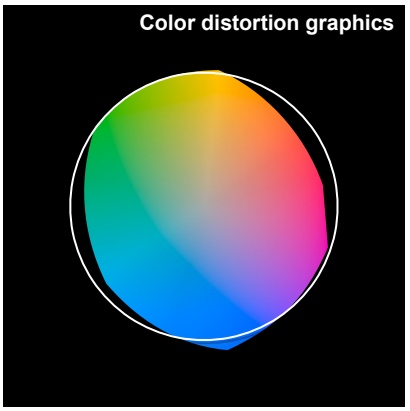
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	84	-10%	-2%
2	86	-6%	5%
3	78	-3%	12%
4	85	2%	9%
5	88	5%	6%
6	91	6%	-1%
7	93	1%	-5%
8	91	-3%	-4%
9	91	-6%	1%
10	82	-7%	7%
11	80	1%	14%
12	83	5%	8%
13	88	9%	-4%
14	88	6%	-4%
15	82	2%	-14%
16	81	-3%	-12%

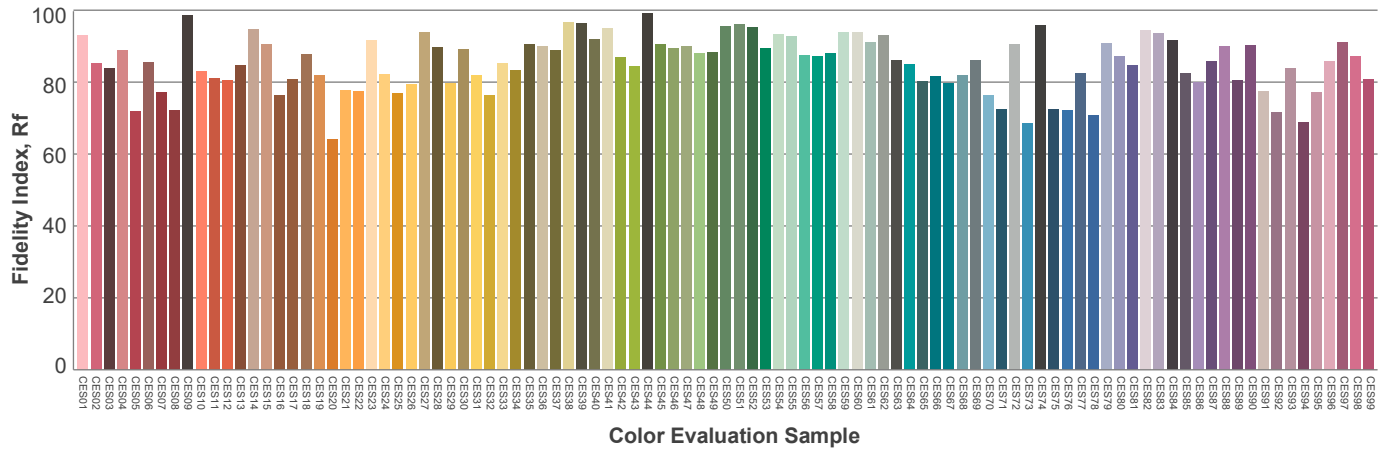






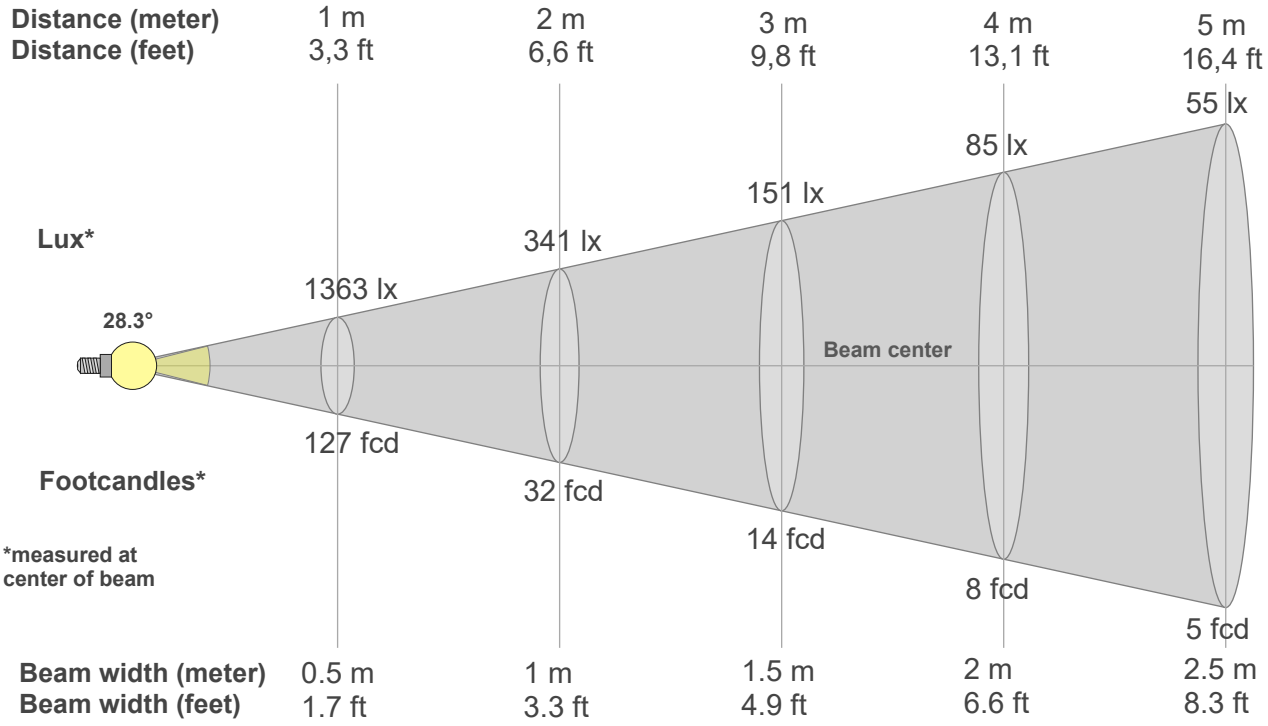






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Beam details



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
1363lx	341lx	151lx	85lx	55lx	38lx	28lx	21lx	17lx	14lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
126.7fc	31.7fcd	14.1fcd	7.9fcd	5.1fcd	3.5fcd	2.6fcd	2fcd	1.6fcd	1.3fcd	1fcd	0.9fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.4fcd	0.3fcd

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°
1363	1341	1275	1176	1057	931	806	691	587	497	420	355	300	254	216	184	158	136	117	101
100%	98%	94%	86%	78%	68%	59%	51%	43%	36%	31%	26%	22%	19%	16%	14%	12%	10%	9%	7%

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°
1363	1341	1275	1176	1057	931	806	691	587	497	420	355	300	254	216	184	158	136	117	101
100%	98%	94%	86%	78%	68%	59%	51%	43%	36%	31%	26%	22%	19%	16%	14%	12%	10%	9%	7%

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°
1363	1341	1275	1176	1057	931	806	691	587	497	420	355	300	254	216	184	158	136	117	101
100%	98%	94%	86%	78%	68%	59%	51%	43%	36%	31%	26%	22%	19%	16%	14%	12%	10%	9%	7%

Intensities in 270° c-plane

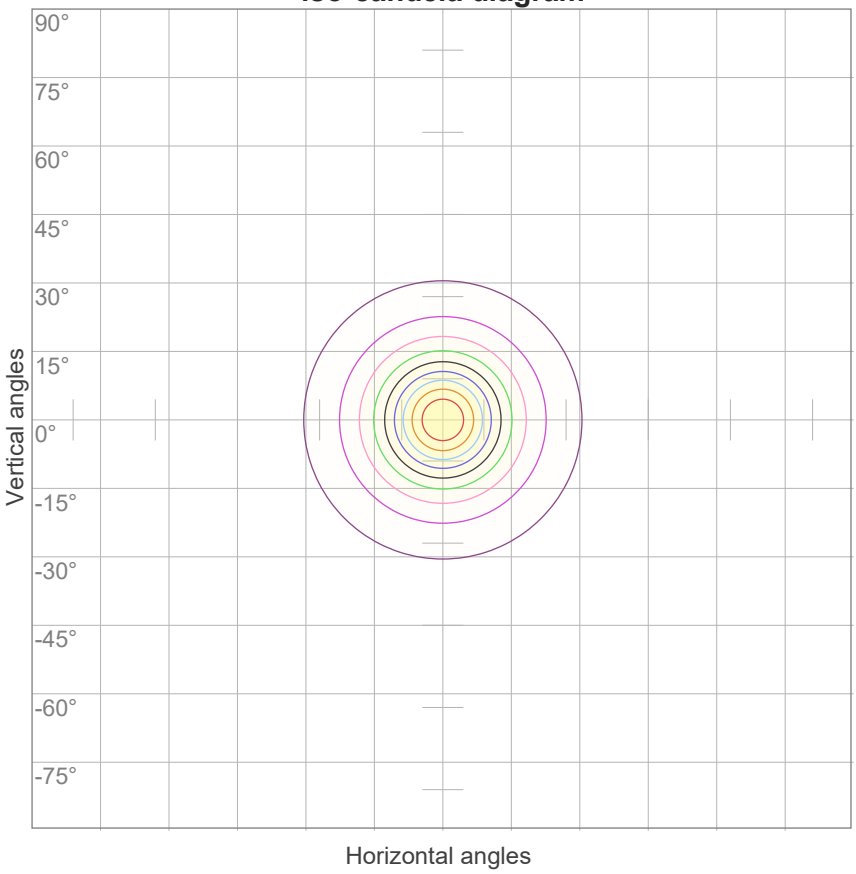
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1363	1341	1275	1176	1057	931	806	691	587	497	420	355	300	254	216	184	158	136	117	101
100%	98%	94%	86%	78%	68%	59%	51%	43%	36%	31%	26%	22%	19%	16%	14%	12%	10%	9%	7%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28.3°	67.9°	110.5°	92.6%	84.1%

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Iso Diagrams

iso-candela diagram



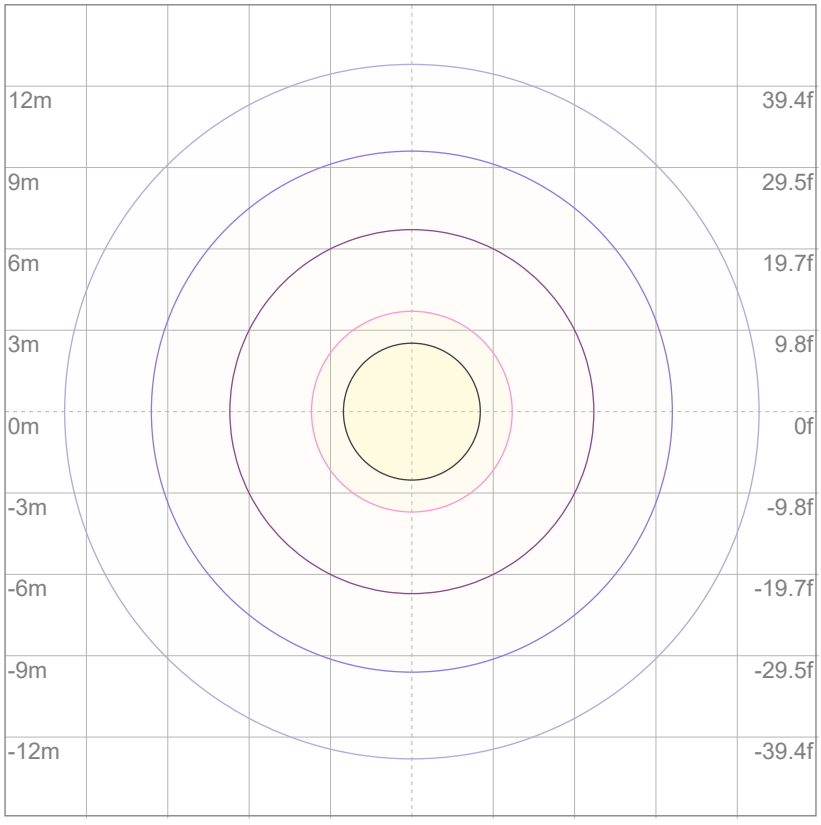
10%	136 cd
20%	273 cd
30%	409 cd
40%	545 cd
50%	682 cd
60%	818 cd
70%	954 cd
80%	1091 cd
90%	1227 cd

Conditions:

Number of c-planes: 20

Candela at center: 1363 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.409 lx
5%	0.682 lx
10%	1.36 lx
30%	4.09 lx
50%	6.82 lx

Conditions:

Number of c-planes: 20

Lux at center: 13.6 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

NOVA FLEX

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	17.6	18.3	17.7	18.5	18.7	18.2	18.9	18.3	19.2	19.4
	3H	18.1	18.9	18.5	19.2	19.3	18.9	19.8	19.3	20.0	20.2
	4H	18.4	19.2	18.8	19.5	19.7	19.4	20.2	19.8	20.5	20.7
	6H	18.8	19.5	19.1	19.8	20.1	20.0	20.7	20.3	21.0	21.3
	8H	18.9	19.6	19.2	19.9	20.3	20.2	20.9	20.6	21.2	21.6
	12H	19.0	19.6	19.3	20.0	20.4	20.4	21.1	20.8	21.4	21.8
4H	2H	17.7	18.5	18.1	18.8	19.0	18.3	19.1	18.7	19.3	19.6
	3H	18.7	19.3	19.0	19.6	20.1	19.4	20.0	19.8	20.4	20.8
	4H	19.0	19.6	19.5	20.1	20.6	19.9	20.5	20.4	21.0	21.5
	6H	19.5	20.1	20.0	20.4	20.8	20.6	21.2	21.1	21.6	21.9
	8H	19.6	20.2	20.2	20.6	20.9	20.9	21.5	21.4	21.8	22.2
	12H	19.7	20.2	20.2	20.6	21.1	21.2	21.6	21.7	22.0	22.5
8H	4H	19.2	19.8	19.8	20.2	20.5	20.1	20.6	20.6	21.0	21.3
	6H	19.8	20.2	20.3	20.7	21.2	20.9	21.3	21.4	21.7	22.3
	8H	20.1	20.5	20.6	21.0	21.6	21.3	21.7	21.8	22.2	22.8
	12H	20.3	20.6	20.9	21.1	21.7	21.7	22.0	22.3	22.5	23.1
12H	4H	19.2	19.7	19.7	20.1	20.6	20.0	20.5	20.5	20.9	21.4
	6H	20.0	20.3	20.5	20.8	21.4	21.0	21.3	21.5	21.8	22.4
	8H	20.2	20.5	20.8	21.0	21.6	21.4	21.7	22.0	22.2	22.8
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.6 / -0.5					0.5 / -0.3				
S = 1.5H		1.5 / -0.9					1.2 / -0.6				
S = 2.0H		2.5 / -1.2					2.1 / -1.0				
CIE 117-1995. Corrected glare indices referring to 619 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	101	101	101	99
1	112	109	106	104	110	107	104	102	103	100	99	99	97	95	95	94	92	91
2	106	101	96	92	104	99	95	91	95	92	89	92	89	87	89	87	85	83
3	100	93	88	84	98	92	87	83	89	85	81	86	83	80	84	81	79	77
4	95	87	81	77	93	86	80	76	84	79	75	81	77	74	79	76	73	72
5	90	82	76	71	89	81	75	71	79	74	70	77	73	69	75	71	68	67
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	71	67	64	63
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	59
8	78	69	63	59	77	68	63	59	67	62	58	66	61	58	65	61	58	56
9	75	65	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	59	55	52	51

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
107 lm	176 lm	128 lm	79.9 lm	49.7 lm	31.2 lm	20.3 lm	12.9 lm	5.61 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.42 lm	1.38 lm	1.29 lm	1.17 lm	0.611 lm	0.358 lm	0.264 lm	0.161 lm	0.054 lm

LCS table

BUG rating:	B1 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	208.4	33.7%
Medium(30-60):	81.4	13.2%
High(60-80):	16.7	2.7%
Very high(80-90):	2.9	0.5%
Back light		
Low(0-30):	208.4	33.7%
Medium(30-60):	81.4	13.2%
High(60-80):	16.7	2.7%
Very high(80-90):	2.9	0.5%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

