NOVA FLEX

Flexible Grazer Test Report

Light efficiency:

65 Lumen/Watt

Light quality:

CRI: 84.8

Color temperature:

2986 K

Output: 528 lm
Peak: 852 cd

Power: 8.1 W
PF: 1.0

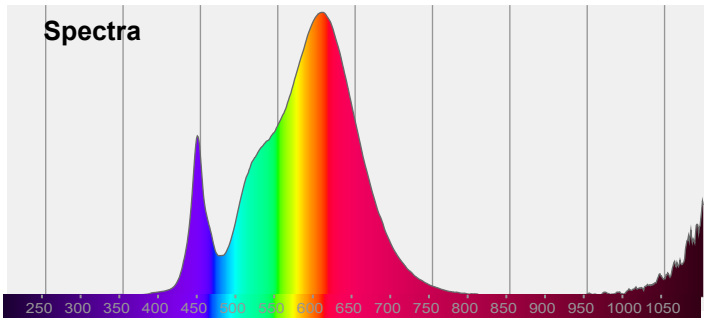
Tracking number: VT250711-007826

Product name:
GZF-BK-15X60-24-IP67-30 compact

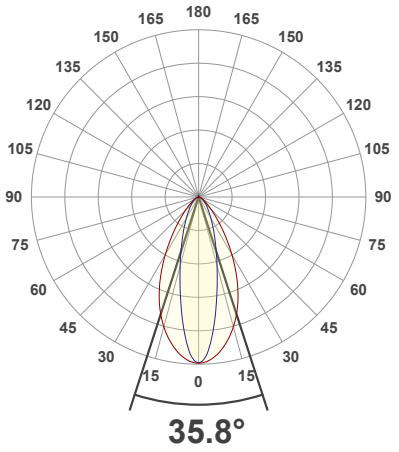
Item number:
GZF-BK-15X60-24-IP67-30

Date and time:
7/11/25 12:42:41 PM

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

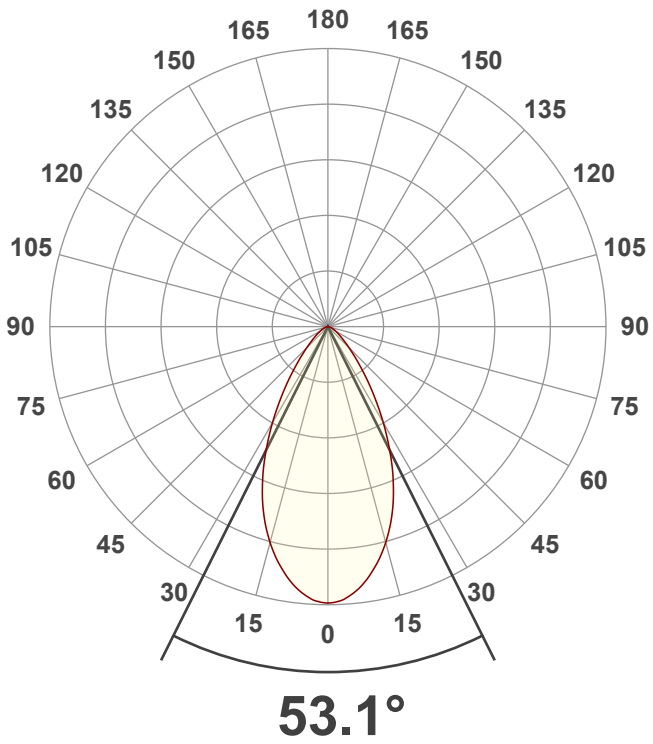


Average Beam Angle

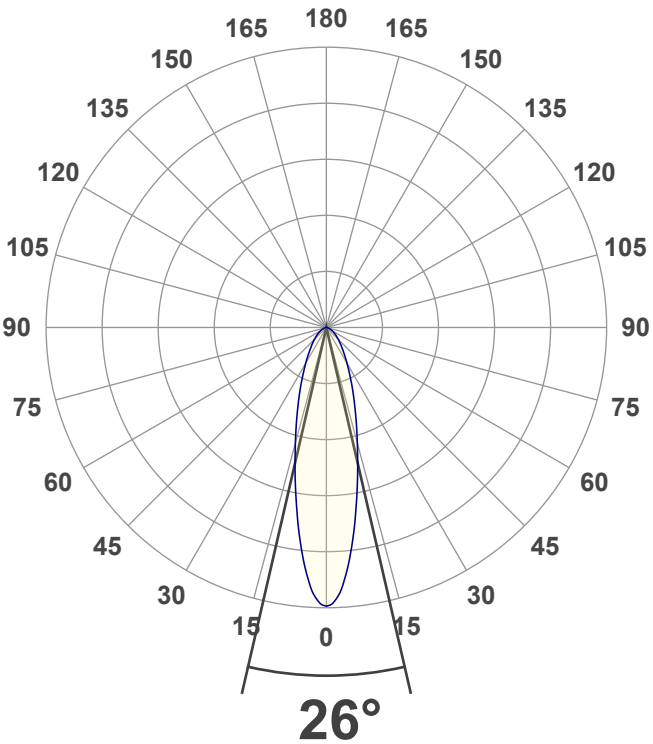


C Plane Resolution: 18°

Angular Distribution 0 ° Plane

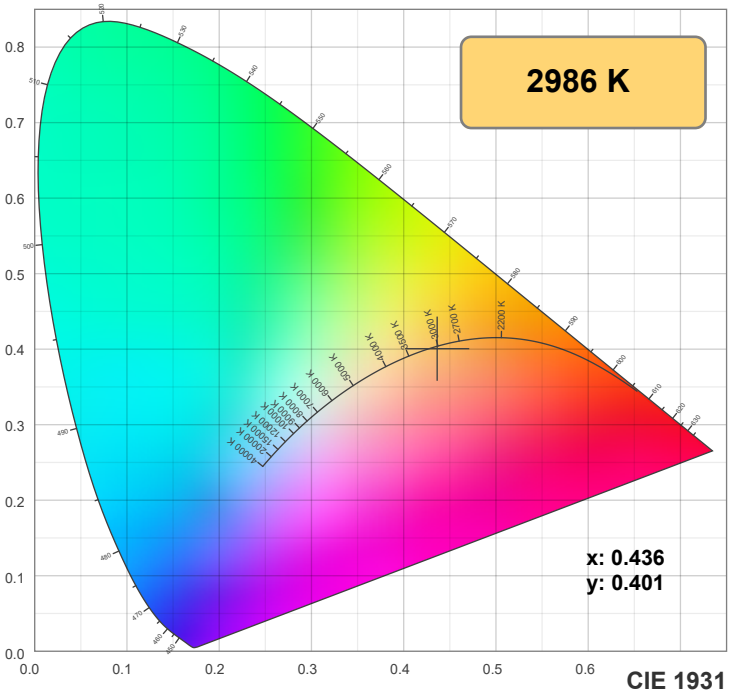


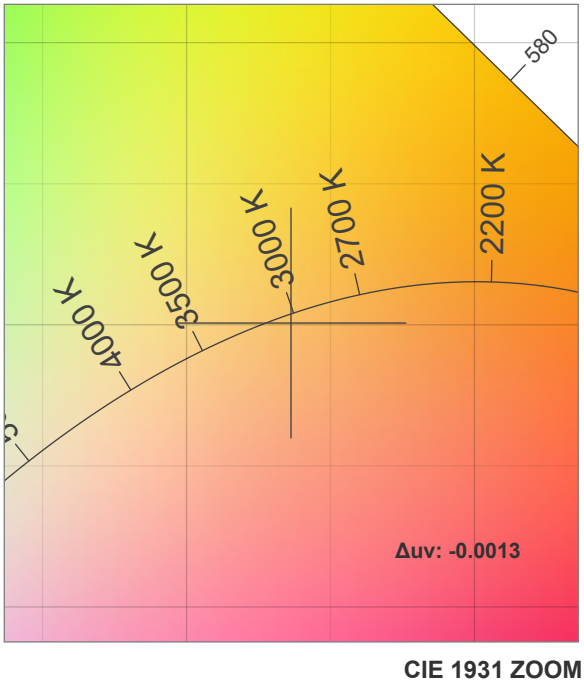
Angular Distribution 90 ° Plane



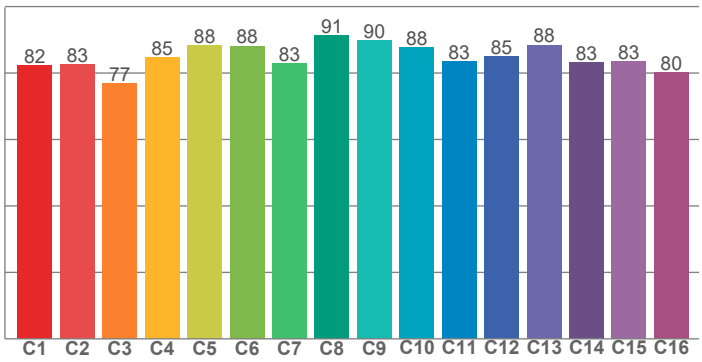
NOVA FLEX

Color details

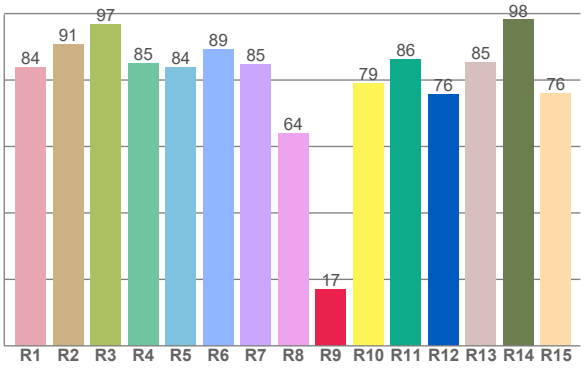




TM-30: 84.8



CRI: (R1-R8): 84.8



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
83.8	90.7	96.7	85.0	83.9	89.3	84.7	63.9	16.9	79.1	86.1	75.8	85.4	98.1	76.0

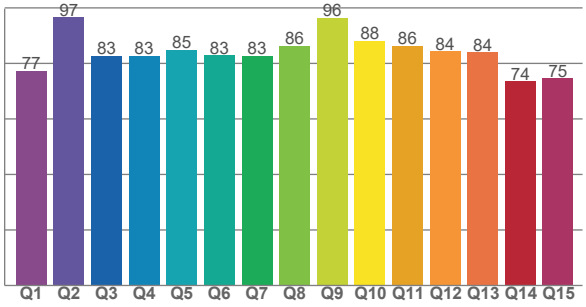
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.4	82.5	76.8	84.7	88.4	88.1	82.9	91.4	89.8	87.8	83.4	85.0	88.5	83.1	83.4	80.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.2	96.6	82.6	82.8	84.8	82.9	82.8	86.3	96.4	88.1	86.3	84.3	83.9	73.6	74.6

CQS: 82.9



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
2986 K	84.8	16.9	84.8	99.6	82.9	0.436	0.401	0.252	0.347	-0.0013

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TM-30 details

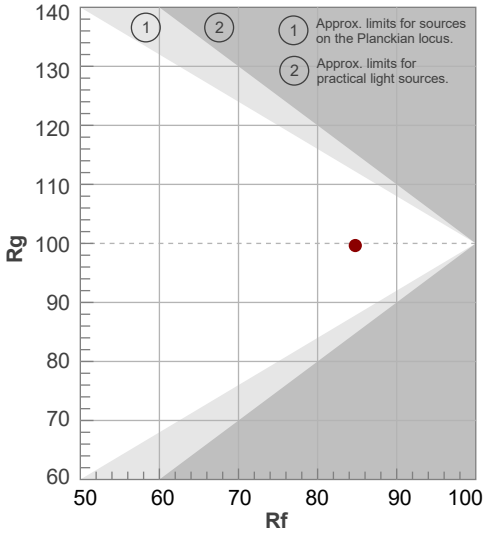
Rf 84.8

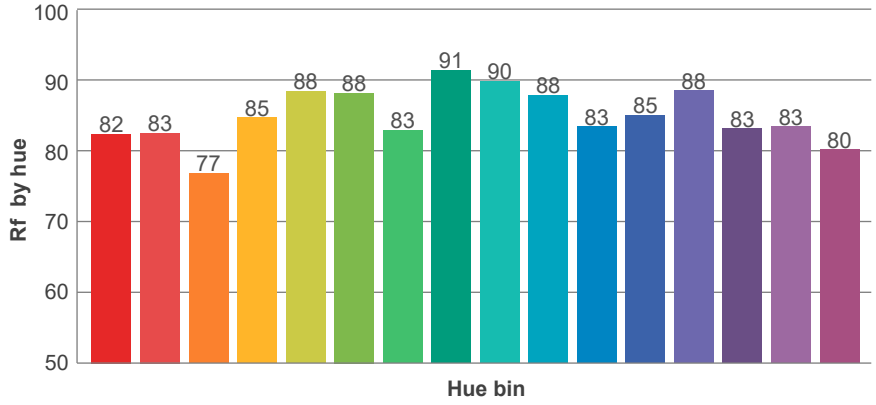
Fidelity index Rf

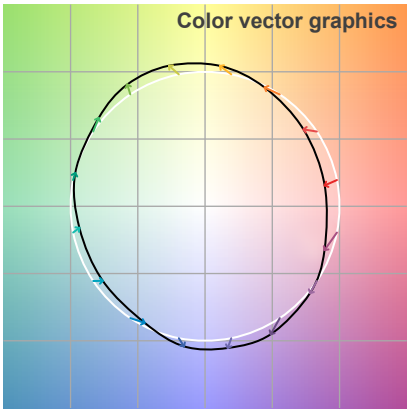
Rg 99.6

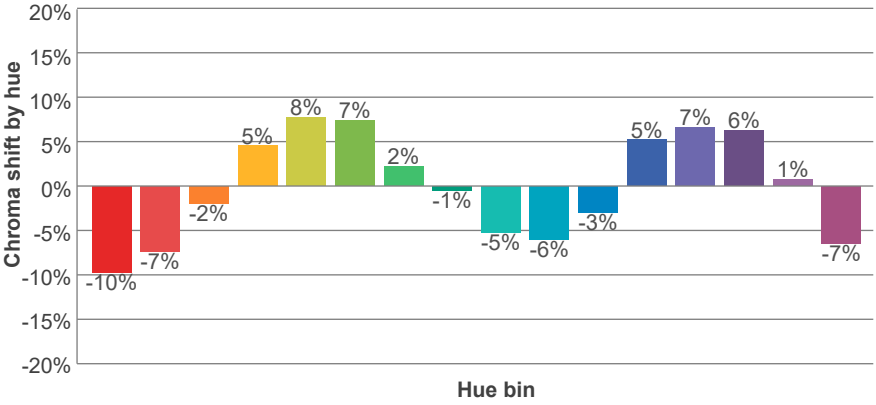
Gamut index Rg

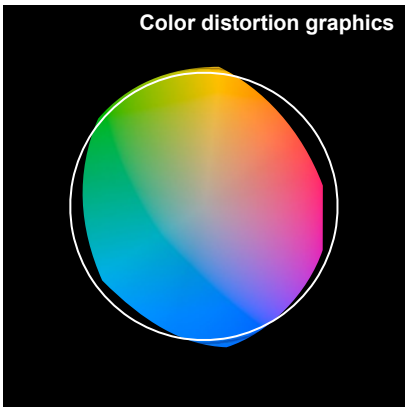
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	82	-10%	-2%
2	83	-7%	7%
3	77	-2%	12%
4	85	5%	9%
5	88	8%	6%
6	88	7%	-2%
7	83	2%	-11%
8	91	-1%	-5%
9	90	-5%	-3%
10	88	-6%	4%
11	83	-3%	11%
12	85	5%	5%
13	88	7%	-4%
14	83	6%	-12%
15	83	1%	-10%
16	80	-7%	-15%

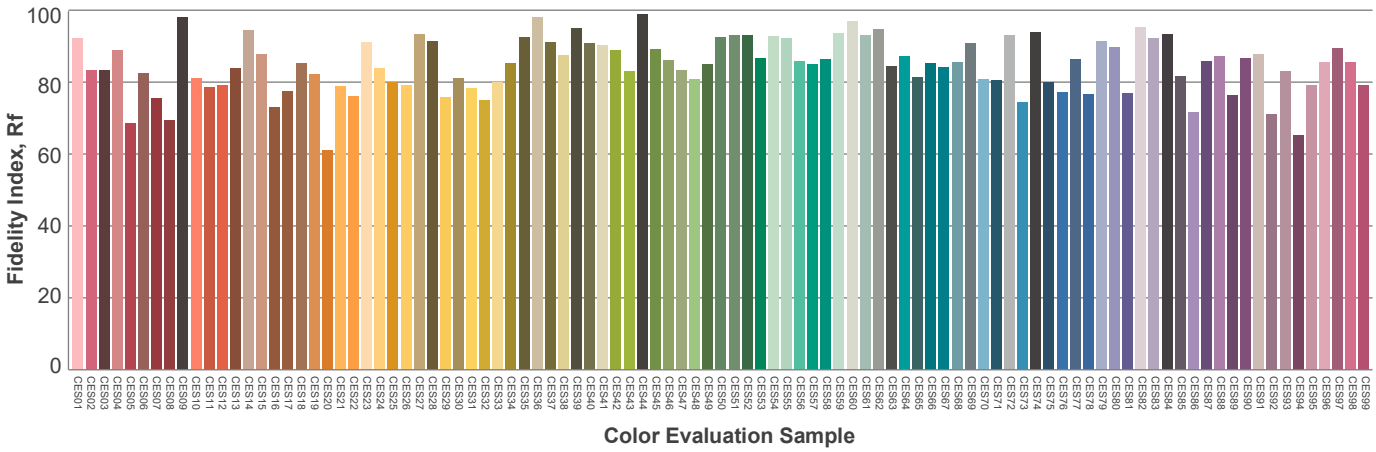






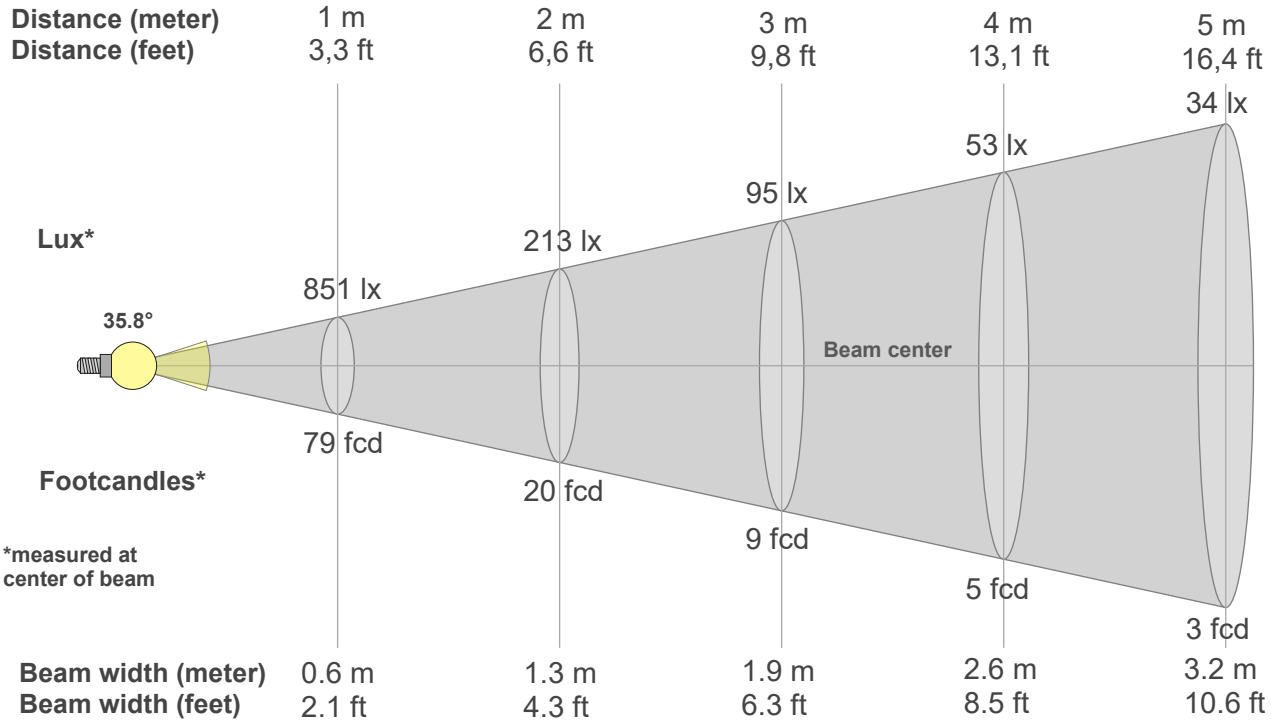






NOVA FLEX

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
851lx	213lx	95lx	53lx	34lx	24lx	17lx	13lx	11lx	9lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx	2lx
79.1fcd	19.8fcd	8.8fcd	4.9fcd	3.2fcd	2.2fcd	1.6fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd

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°
851	848	838	821	798	771	741	707	670	630	587	539	491	440	390	341	294	251	212	176
100%	100%	98%	96%	94%	91%	87%	83%	79%	74%	69%	63%	58%	52%	46%	40%	35%	29%	25%	21%

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°
851	830	775	697	614	532	459	393	339	293	252	219	190	165	144	126	110	97	86	76
100%	97%	91%	82%	72%	62%	54%	46%	40%	34%	30%	26%	22%	19%	17%	15%	13%	11%	10%	9%

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°
851	848	838	821	798	771	741	707	670	630	587	539	491	440	390	341	294	251	212	176
100%	100%	98%	96%	94%	91%	87%	83%	79%	74%	69%	63%	58%	52%	46%	40%	35%	29%	25%	21%

Intensities in 270° c-plane

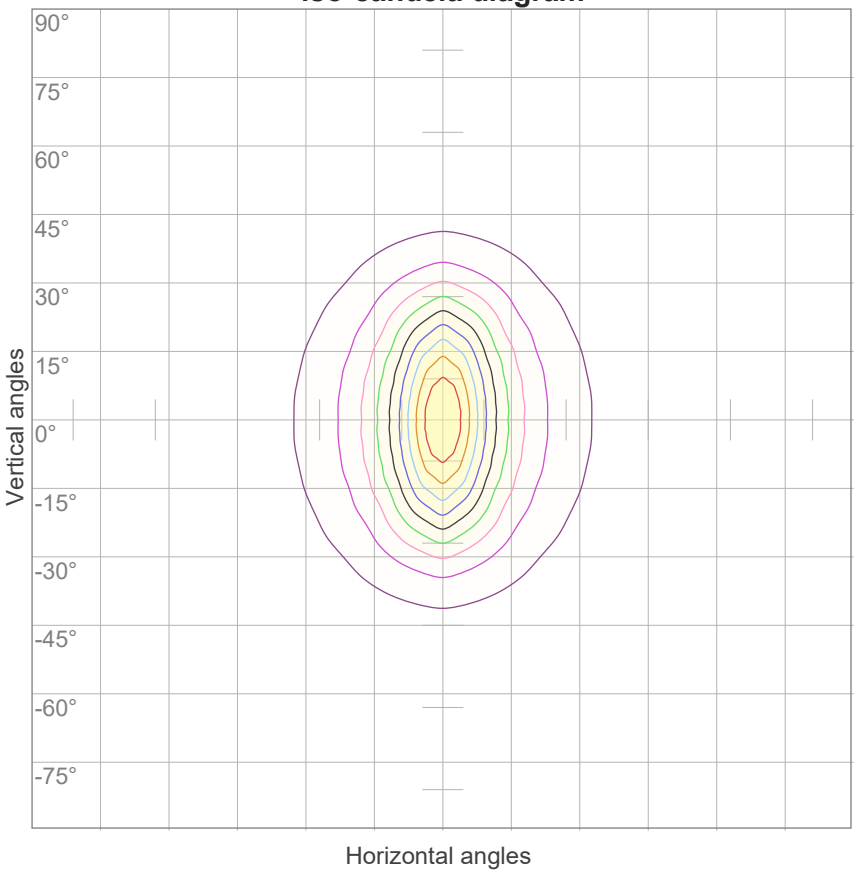
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
851	830	775	697	614	532	459	393	339	293	252	219	190	165	144	126	110	97	86	76
100%	97%	91%	82%	72%	62%	54%	46%	40%	34%	30%	26%	22%	19%	17%	15%	13%	11%	10%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
35.8°	80.7°	122.1°	94.7%	84.8%

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Iso Diagrams

iso-candela diagram



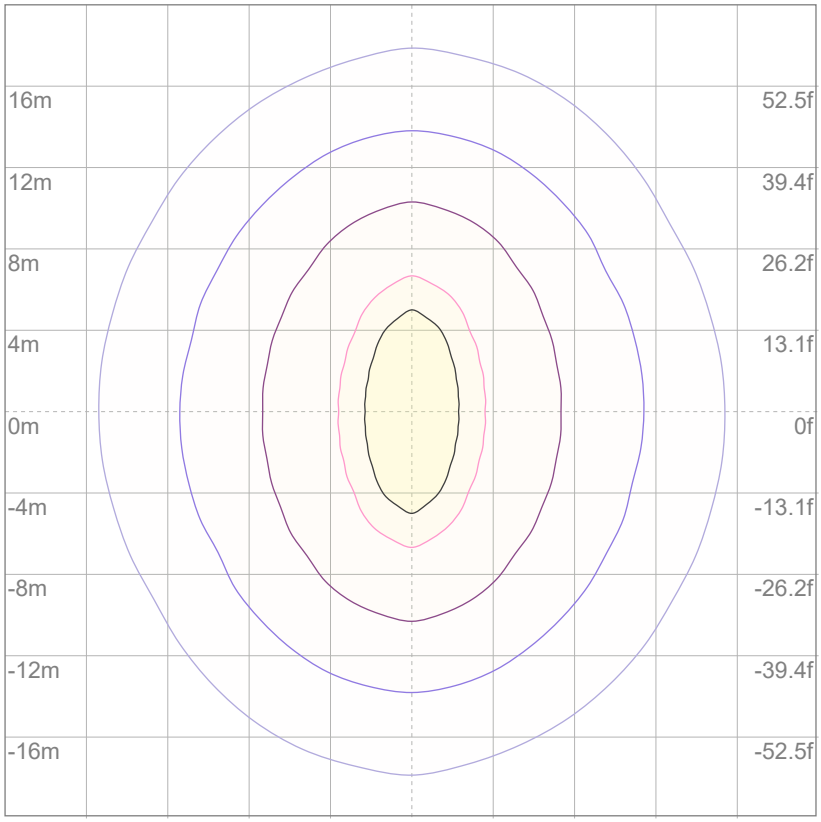
10%	85 cd
20%	170 cd
30%	255 cd
40%	341 cd
50%	426 cd
60%	511 cd
70%	596 cd
80%	681 cd
90%	766 cd

Conditions:

Number of c-planes: 20

Candela at center: 851 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.255 lx
5%	0.426 lx
10%	0.851 lx
30%	2.55 lx
50%	4.26 lx

Conditions:

Number of c-planes: 20

Lux at center: 8.51 lx

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

NOVAFLEX

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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
CIE 117-1995. Corrected glare indices referring to 528 lm total luminous flux										

UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry (UGR not defined for asymmetrical distributions)..

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83
3	100	93	87	83	98	92	86	82	89	84	81	86	83	80	84	81	78	77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	81	71	64	60	79	70	64	60	69	63	59	67	62	59	66	62	58	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53
9	73	63	57	52	72	62	56	52	61	56	52	60	56	52	60	55	52	50
10	70	60	54	50	69	59	53	49	58	53	49	57	53	49	57	52	49	48

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
70.0 lm	137 lm	126 lm	85.7 lm	51.4 lm	30.0 lm	16.0 lm	7.48 lm	2.75 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.419 lm	0.350 lm	0.328 lm	0.297 lm	0.119 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

LCS table

BUG rating:	B1 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	167.1	31.7%
Medium(30-60):	83.9	15.9%
High(60-80):	11.8	2.2%
Very high(80-90):	1.4	0.3%
Back light		
Low(0-30):	167.1	31.7%
Medium(30-60):	83.9	15.9%
High(60-80):	11.8	2.2%
Very high(80-90):	1.4	0.3%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

