

Light efficiency:

42 Lumen/Watt

Output: 3807 lm

Light quality:

CRI: 0.0

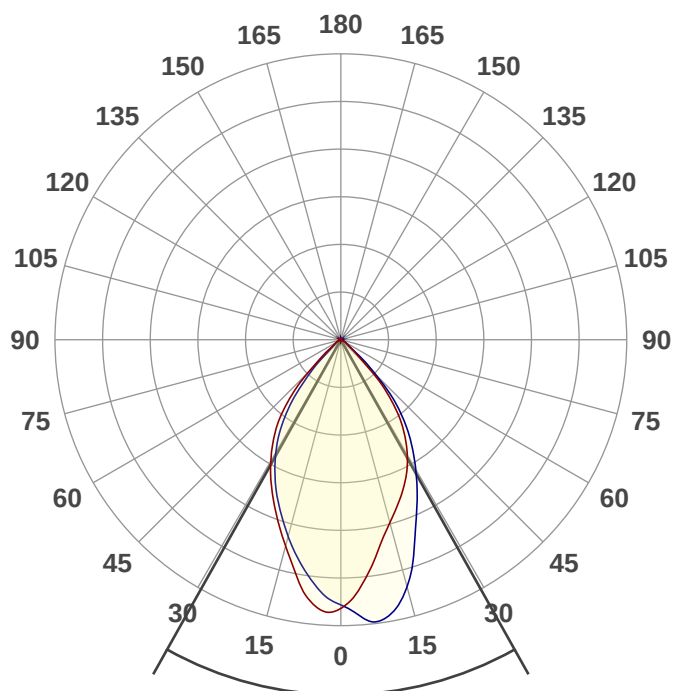
Peak: 4201 cd

Color temperature:

0 K

Power: 91.4 W

PF: 0.99



Product name:

GLR-130W12F-VBD All On

Date and time:

7/20/2020 10:38:27 AM

Beam angle

58.6°

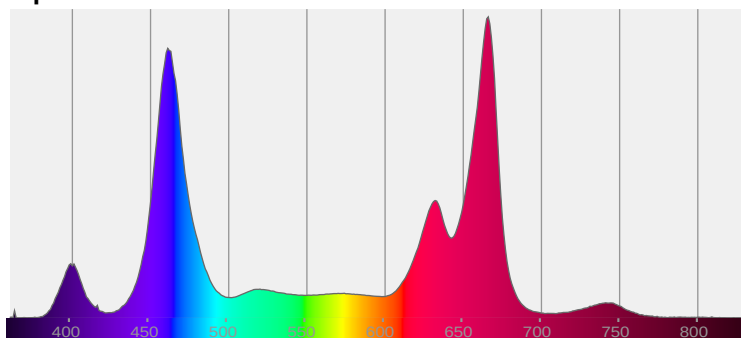


CIE 1931

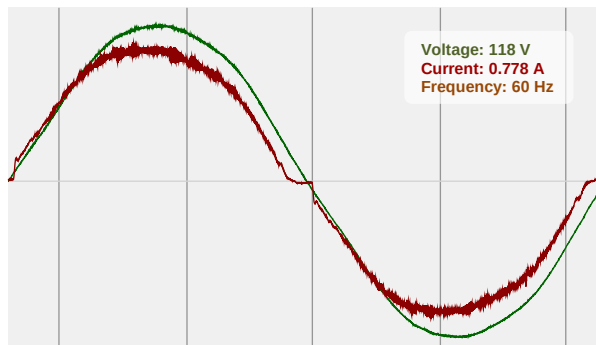
x: 0.294

y: 0.189

Spectra



Power



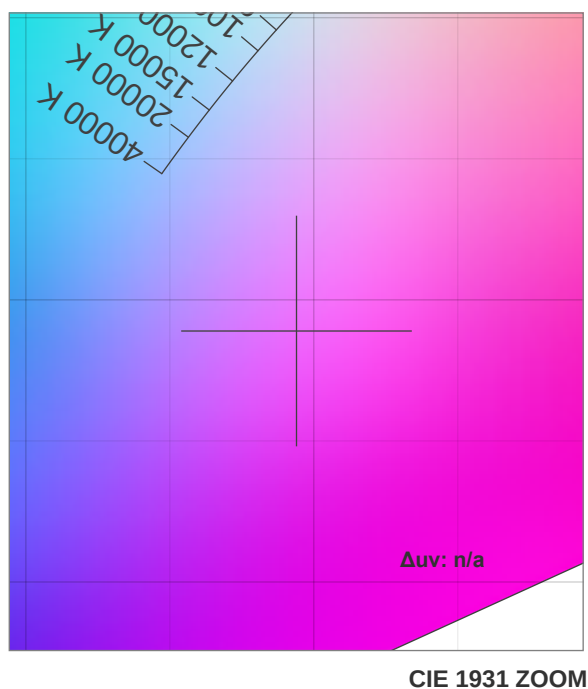
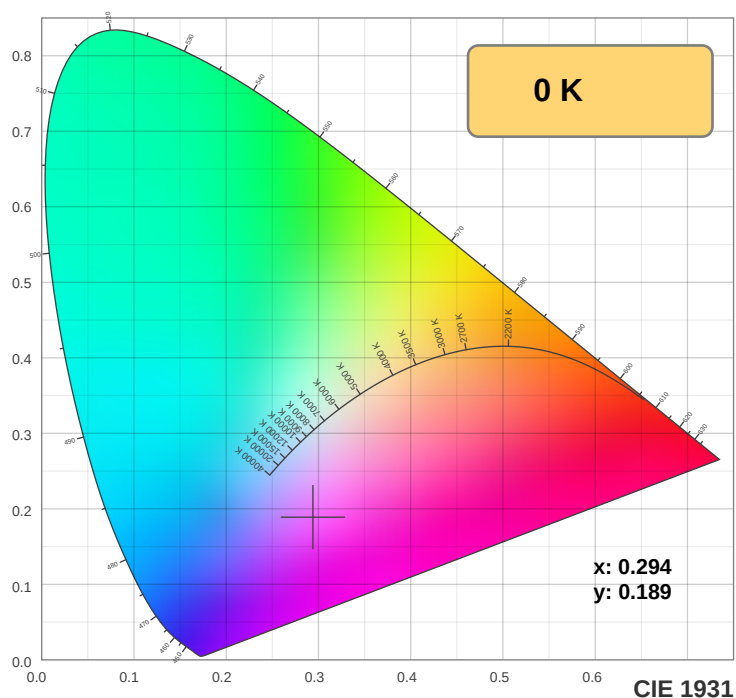
T 314.743.3067

F 314.972.6202

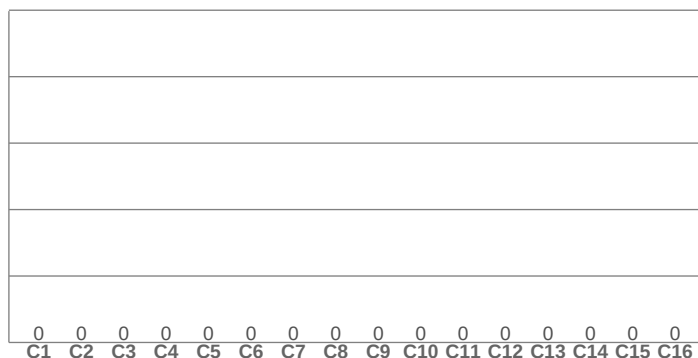
email: commercial-sales@superbrightleds.com

www.superbrightleds.com/

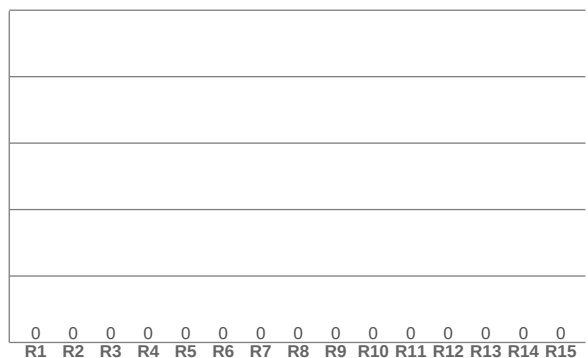
Color Specifications



TM30: 0.0



CRI: 0.0 (R1-R8)



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
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

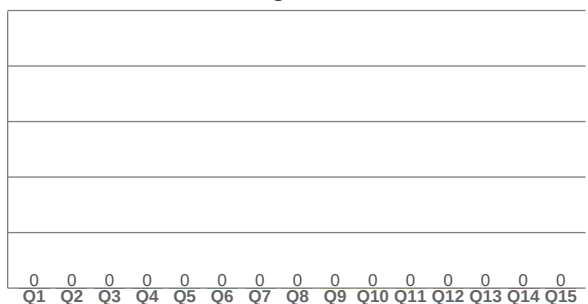
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS: 0.0



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.294	0.189	0.251	0.242	n/a



TM30 Report

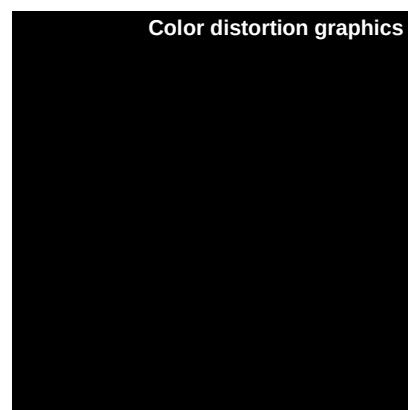
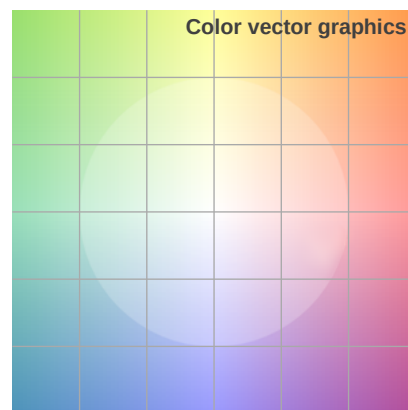
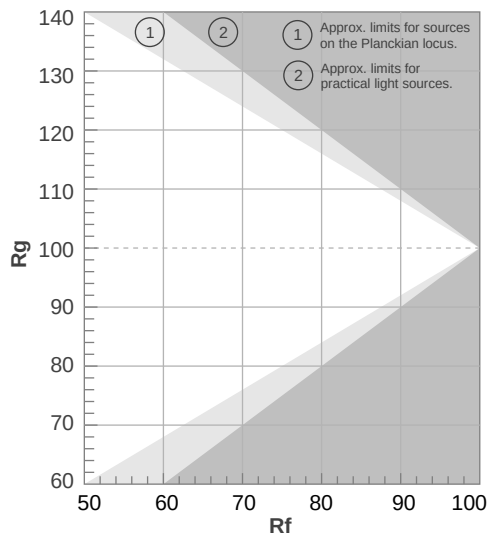
Rf 0.0

Fidelity index Rf

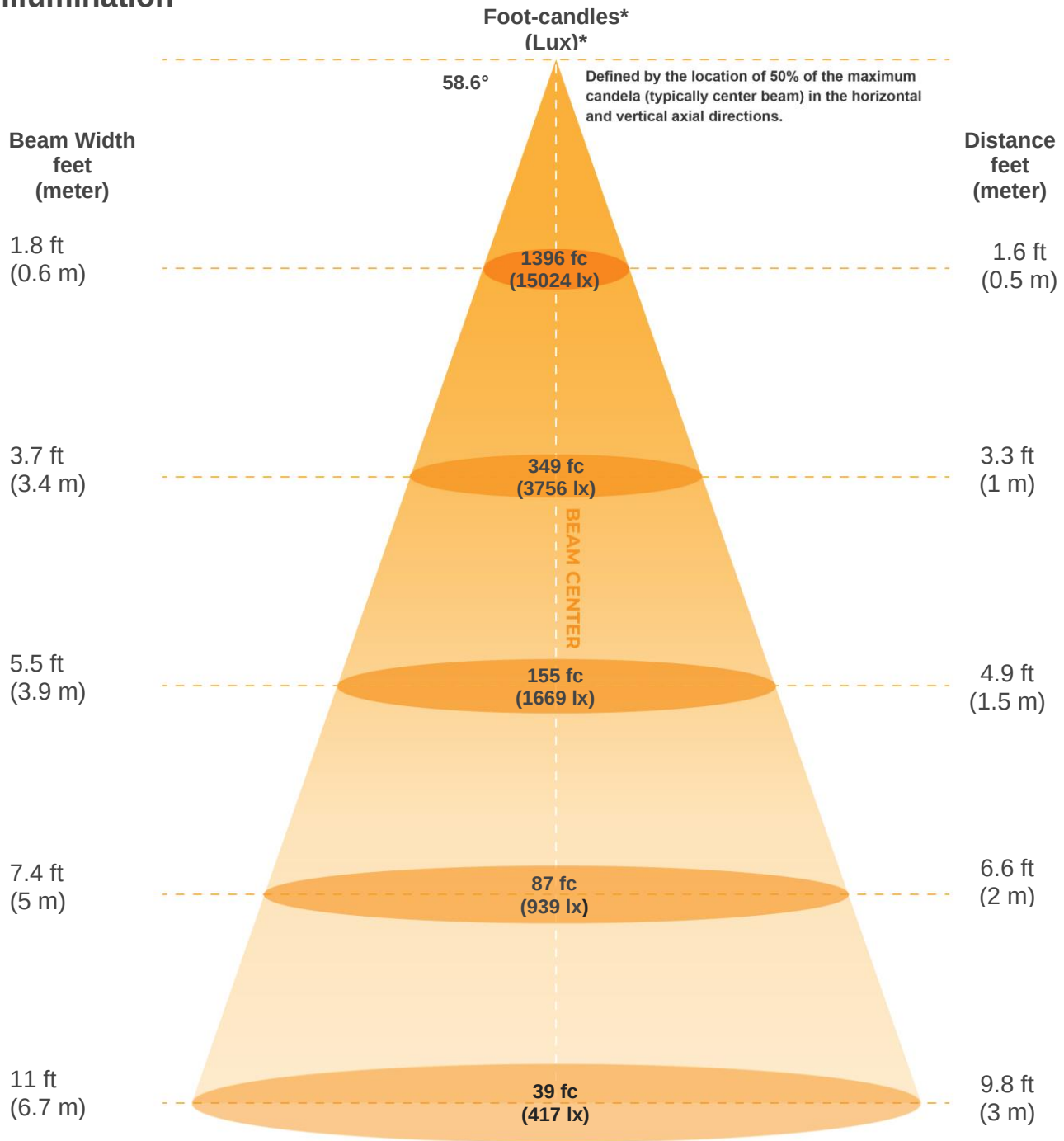
Rg 0.0

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Illumination



*measured at center of beam

Beam intensities from 1-20m

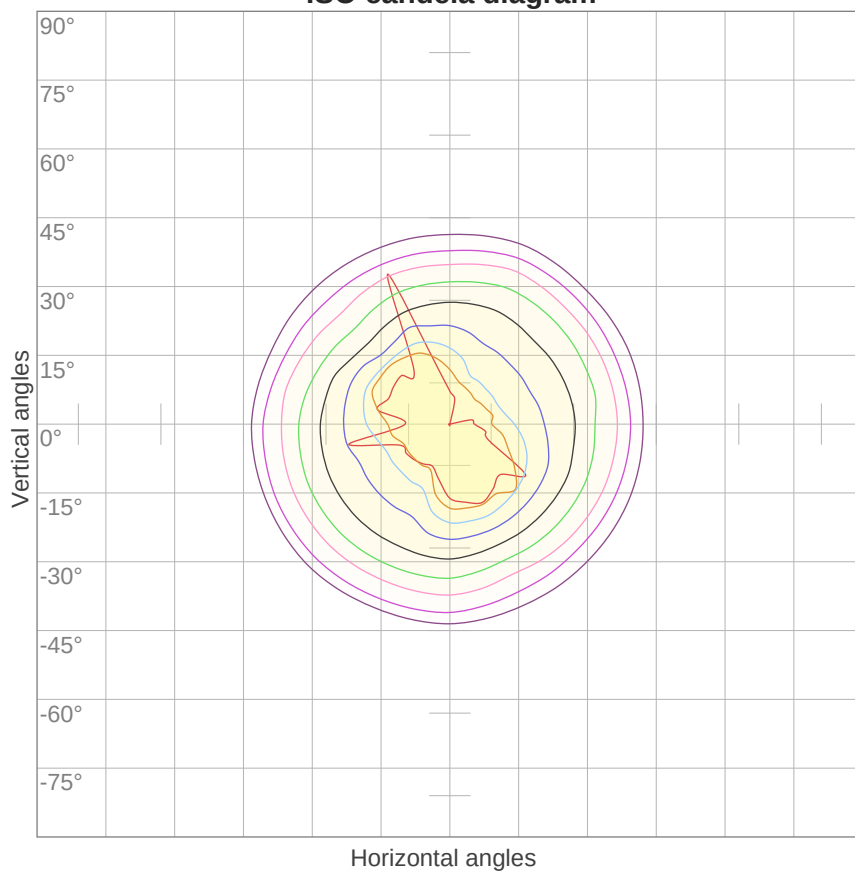
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
3756lx	939lx	417lx	235lx	150lx	104lx	77lx	59lx	46lx	38lx	31lx	26lx	22lx	19lx	17lx	15lx	13lx	12lx	10lx	9lx
348.9fc	87.2fcd	38.8fcd	21.8fcd	14fcd	9.7fcd	7.1fcd	5.5fcd	4.3fcd	3.5fcd	2.9fcd	2.4fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58.6°	94.1°	110.5°	98.2%	91.9%



ISO Diagrams

ISO candela diagram



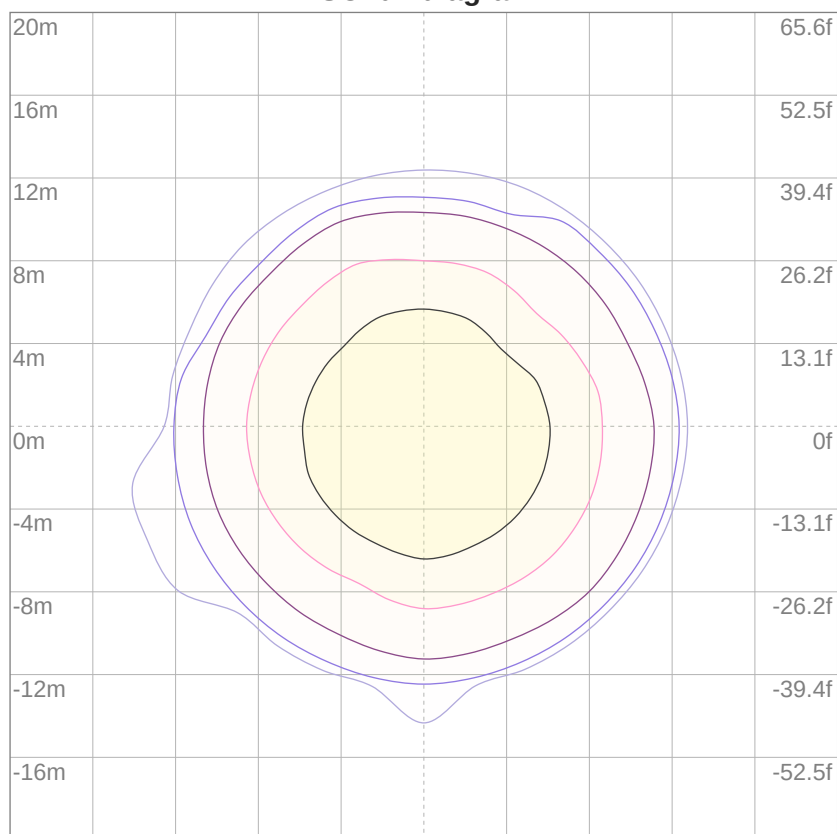
10%	376 cd
20%	751 cd
30%	1127 cd
40%	1502 cd
50%	1878 cd
60%	2254 cd
70%	2629 cd
80%	3005 cd
90%	3380 cd

Conditions:

Number of c-planes: 16

Candela at center: 3756 cd

ISO lux diagram



3%	1.13 lx
5%	1.88 lx
10%	3.76 lx
30%	11.3 lx
50%	18.8 lx

Conditions:

Number of c-planes: 16

Lux at center: 37.6 lx

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



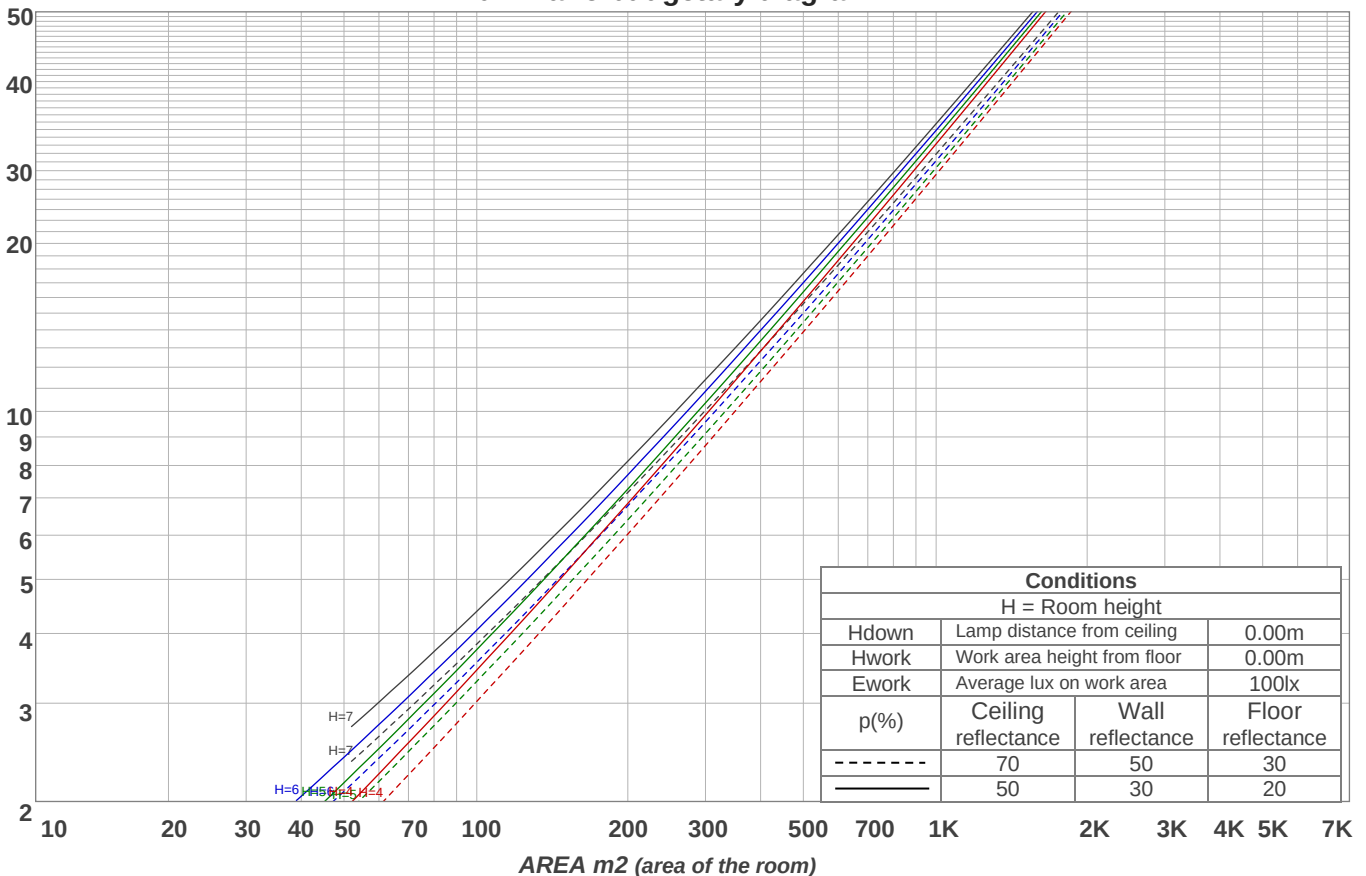
Light Planning

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	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	84	75	68	64	83	74	68	63	72	67	63	71	66	62	69	65	62	60
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56
8	75	65	59	54	74	65	58	54	63	58	54	62	57	54	61	57	53	52
9	72	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	54	50	46	45

LAMPS (number of lamps)

Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
346 lm	851 lm	1039 lm	951 lm	455 lm	94.8 lm	43.8 lm	12.4 lm	2.24 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.12 lm	1.17 lm	1.15 lm	1.62 lm	1.64 lm	1.77 lm	1.58 lm	1.11 lm	0.389 lm

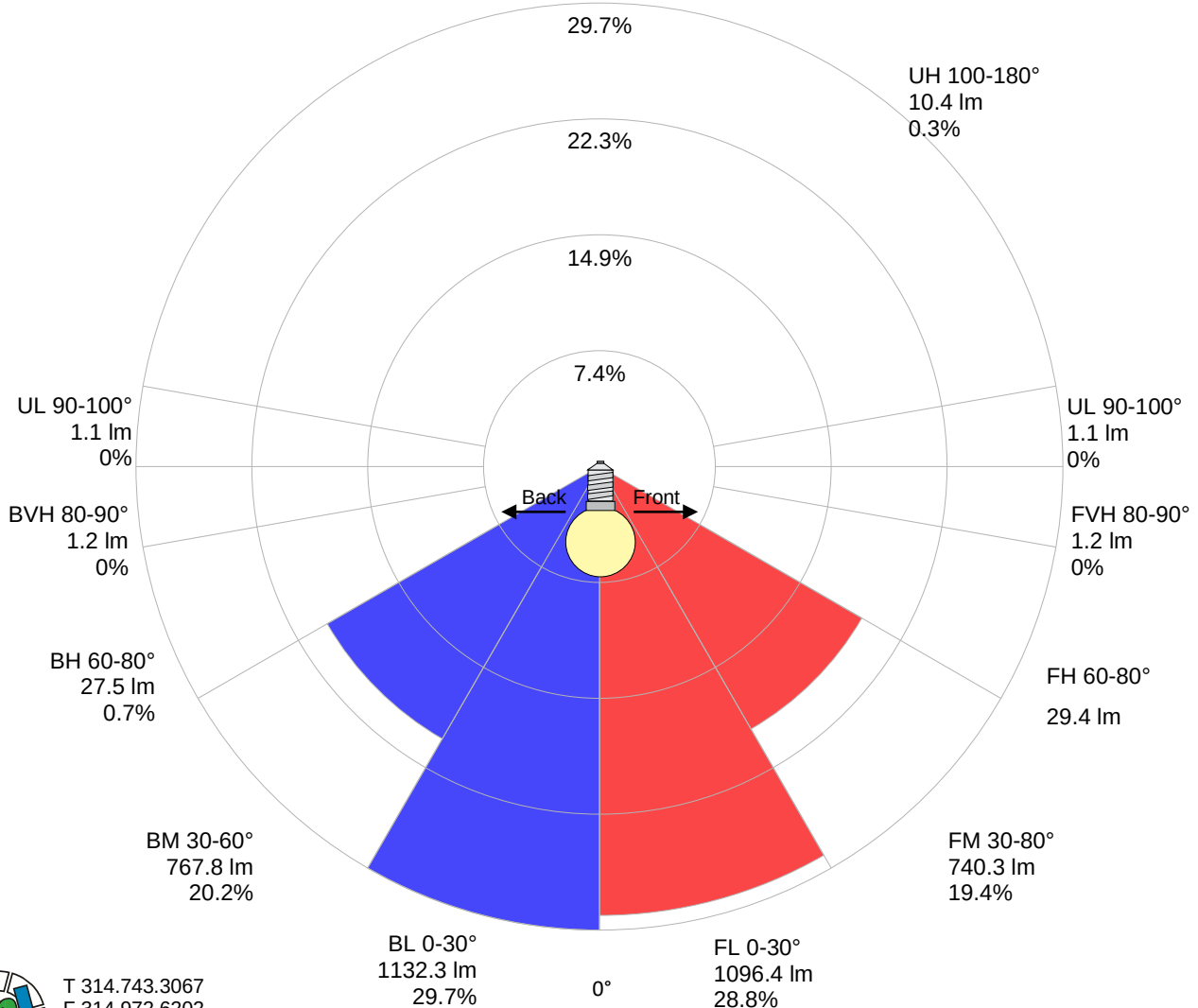


Road Report

LCS table

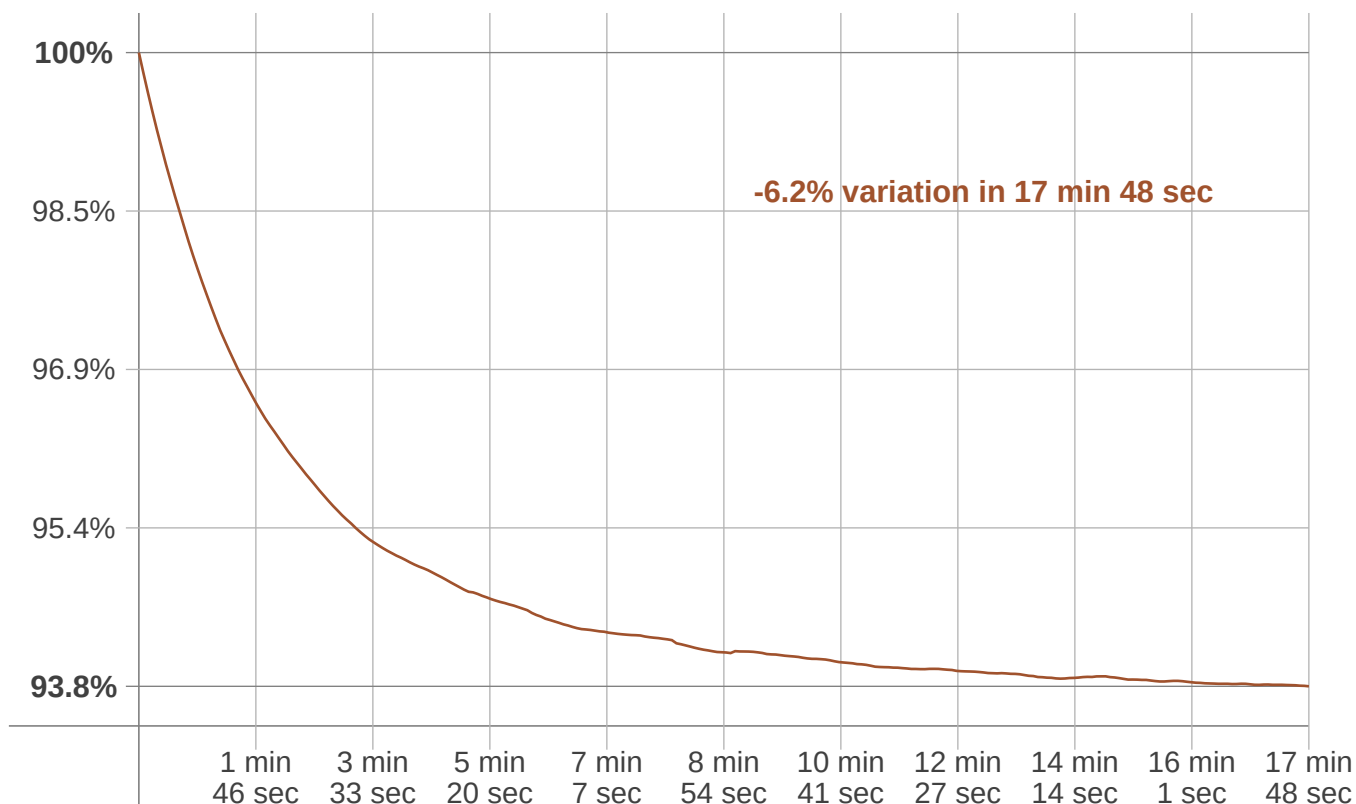
BUG rating:	B3 U2 G0	
Forward light	Lumens	Lumens %
Low(0-30):	1096.4	28.8%
Medium(30-60):	740.3	19.4%
High(60-80):	29.4	0.8%
Very high(80-90):	1.2	0%
Back light		
Low(0-30):	1132.3	29.7%
Medium(30-60):	767.8	20.2%
High(60-80):	27.5	0.7%
Very high(80-90):	1.2	0%
Uplight		
Low(90-100):	1.1	0%
High(100-180):	10.4	0.3%

LCS graph



Stabilization

Warmup curve



Warmup result

Warmup time:	17 min 48 sec
Warmup variation	-6.2%

Warmup conditions

Stable period:	15 min
Stable change max:	2.0%
Minimum time:	15 min

Color temperature change

CCT start	CCT change	CCT end
0 K	0 K	0 K

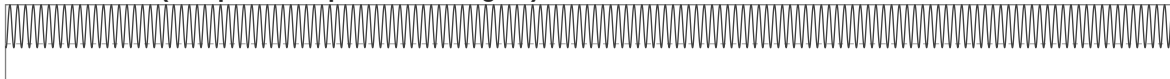
Output change

Output start	Output change	Output end
4040 lm	-233 lm	3807 lm

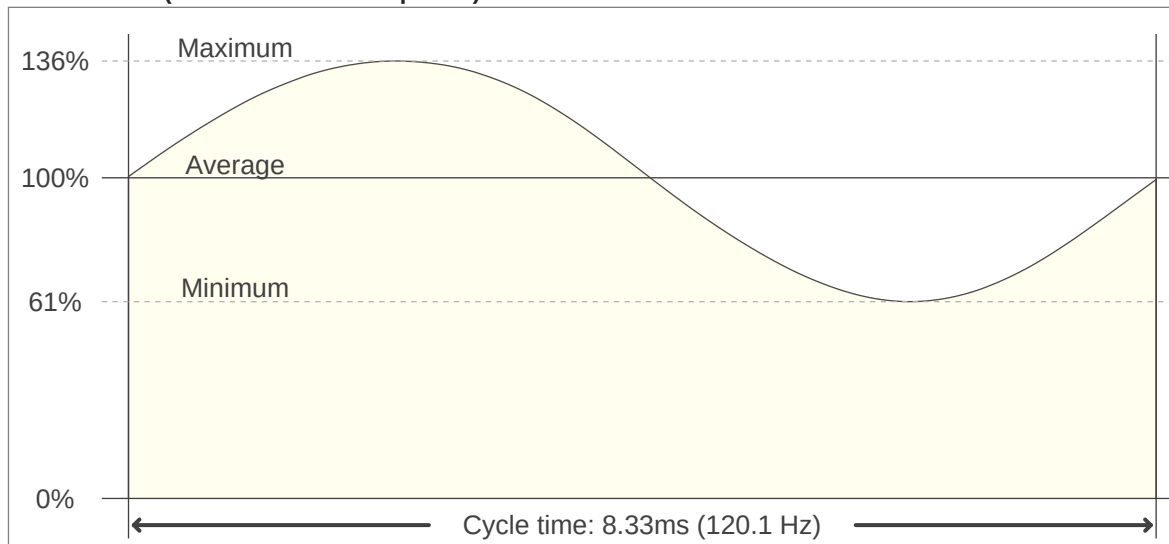


Flicker

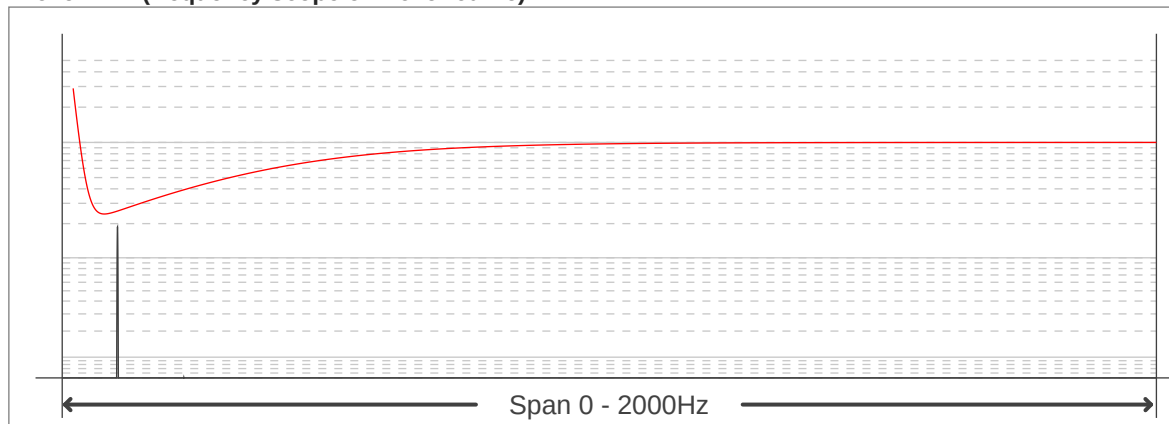
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:	120.12 Hz
Flicker index:	0.12
Flicker percentage:	38.06 %
SVM: (Visual flicker)	1.36

Flicker conditions:

Sample rate:	40000 samples/second
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