

Light efficiency:



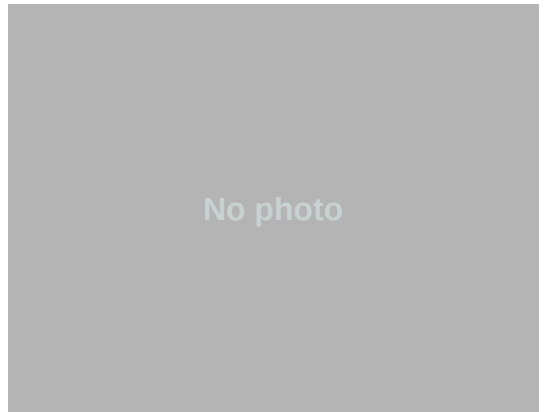
Light quality:



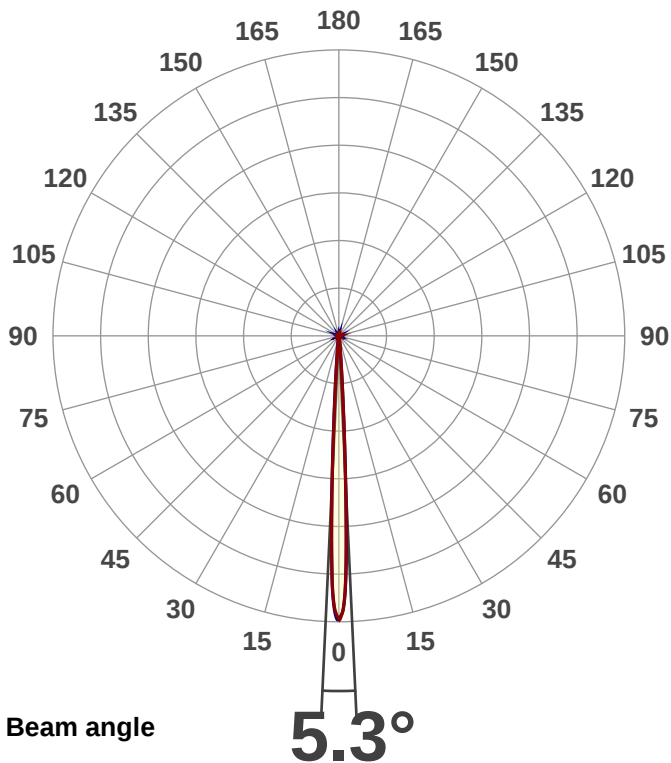
Color temperature:



Output: 385 lm
Peak: 28284 cd
Power: 11.8 W
PF: 0.99

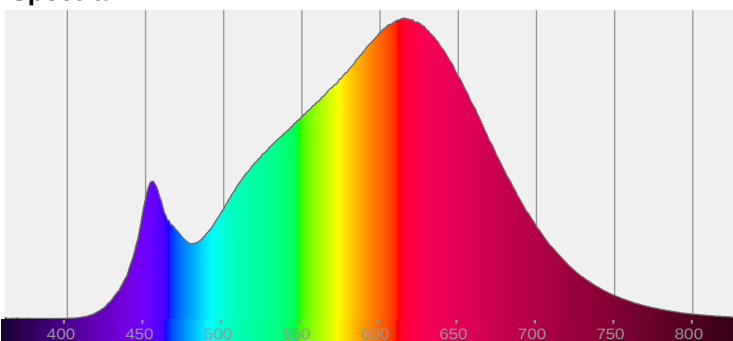


Product name:
F080-1S-HO-30-8-05-X-X-X HC
Item number:
RISE F080
Date and time:
11/8/2018 2:27:17 PM
Description:

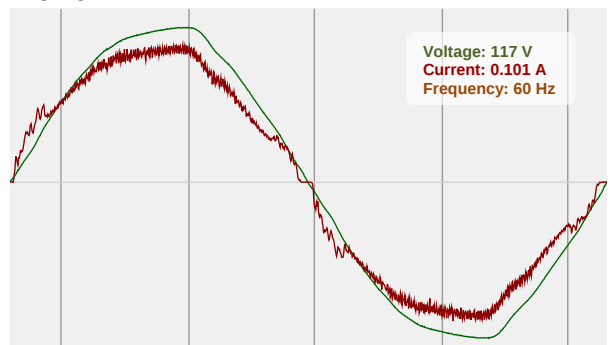


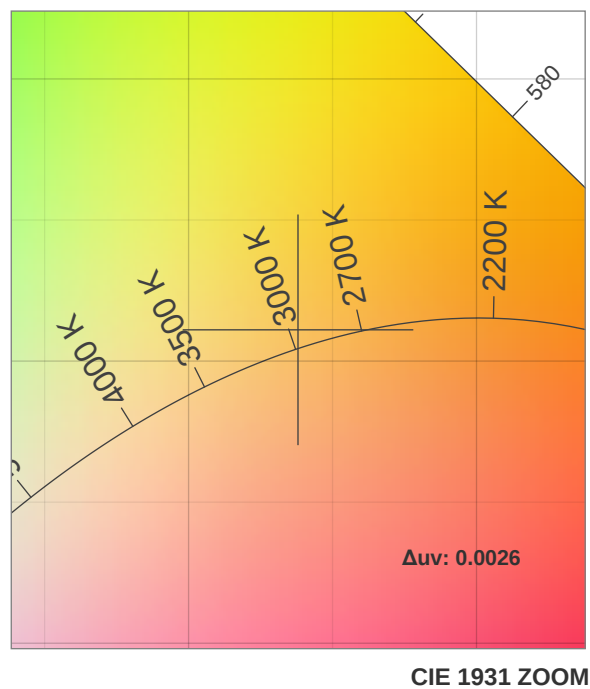
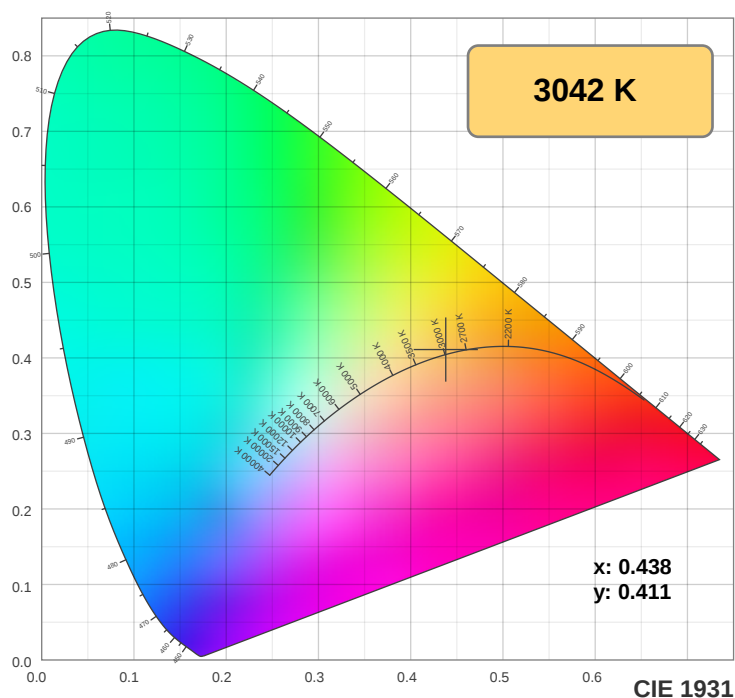
CIE 1931
x: 0.438
y: 0.411

Spectra

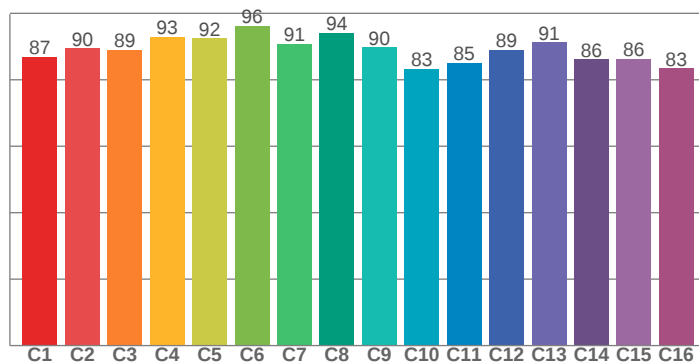


Power

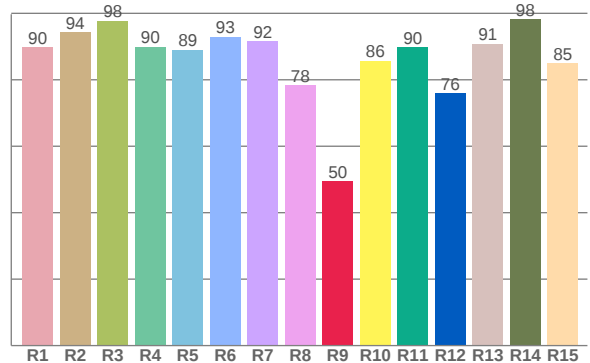




TM30: 89.2



CRI: 90.5 (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
89.9	94.3	97.8	90.0	89.0	92.9	91.7	78.4	49.5	85.8	89.8	75.9	90.9	98.1	84.9

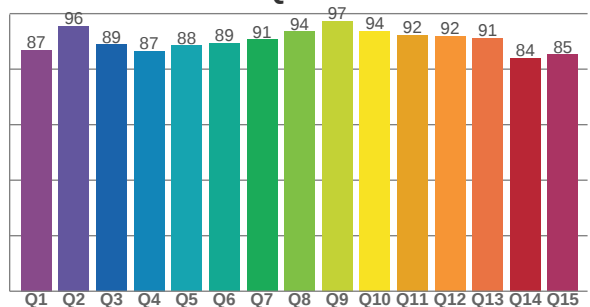
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
86.9	89.5	89.1	92.9	92.4	96.2	90.8	94.1	89.8	83.3	85.1	89.1	91.3	86.1	86.3	83.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86.8	95.5	88.9	86.5	88.5	89.3	90.7	93.5	97.3	93.8	92.3	91.9	91.3	84.0	85.3

CQS: 89.6



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3042 K	90.5	49.5	89.2	96.5	89.6	0.438	0.411	0.248	0.350	0.0026

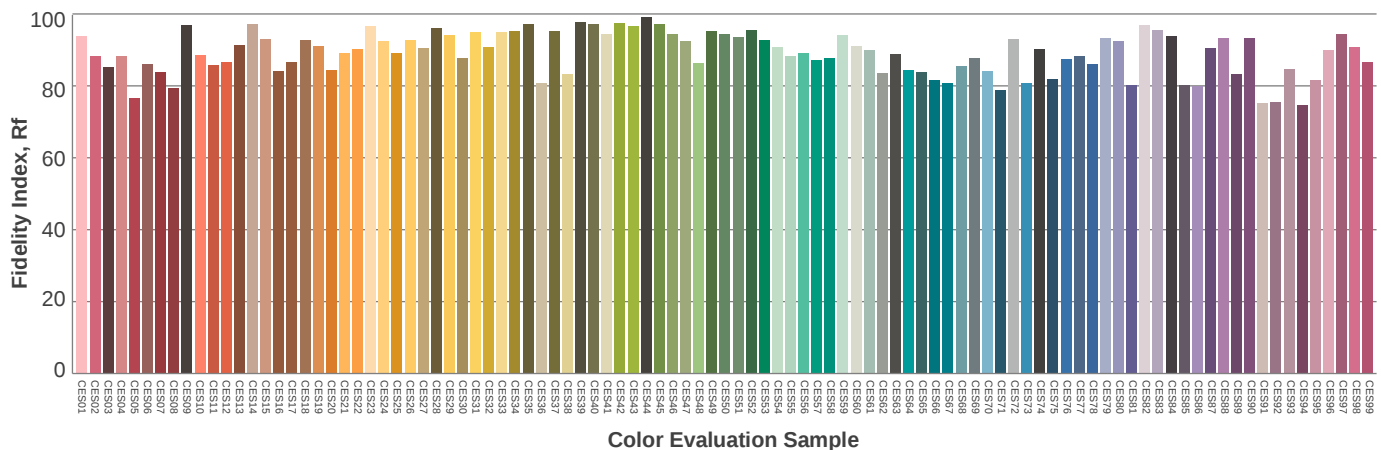
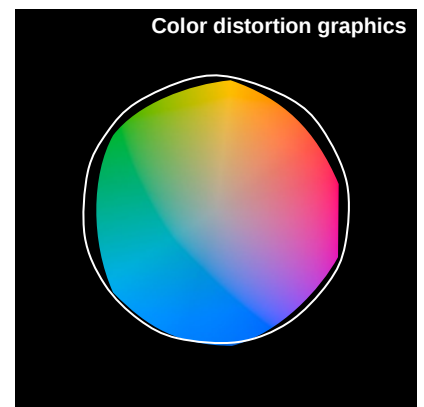
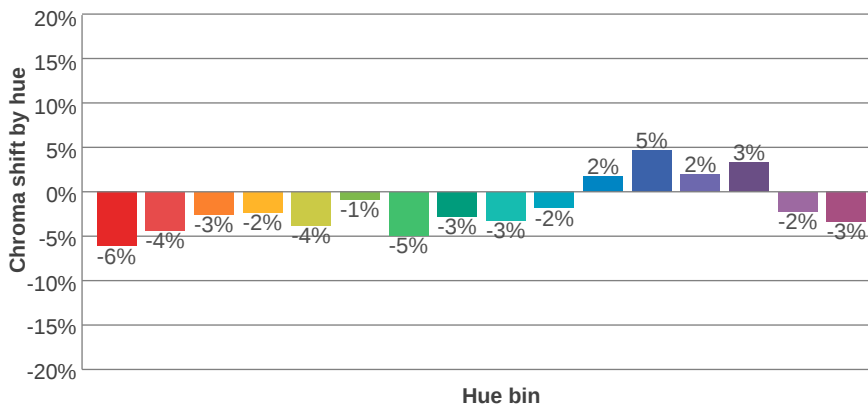
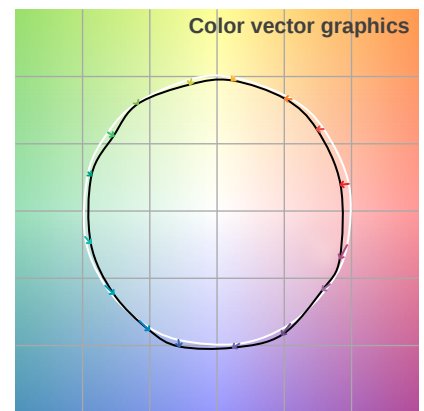
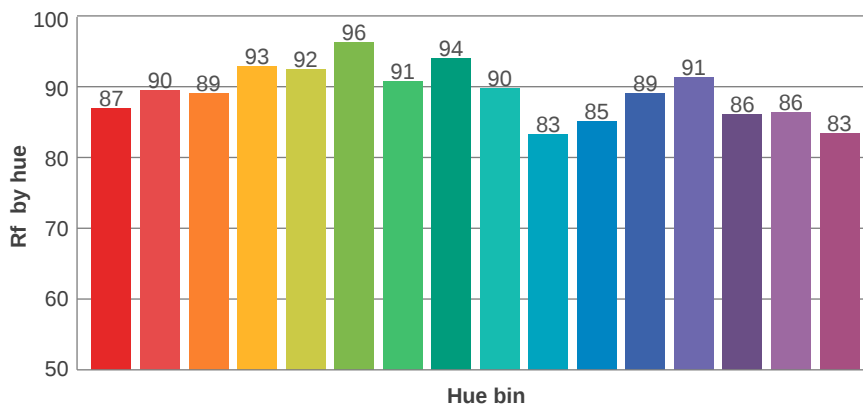
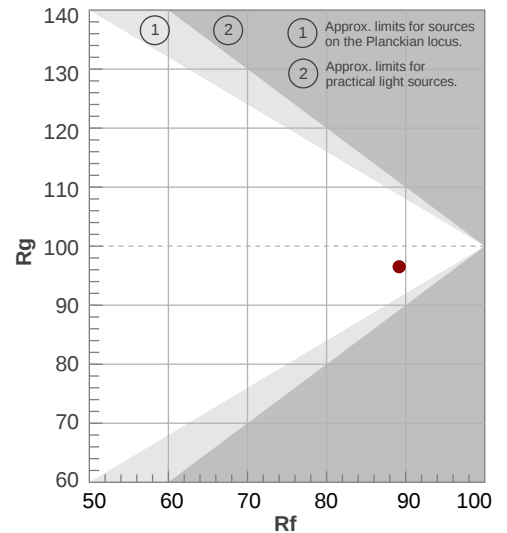
Rf 89.2

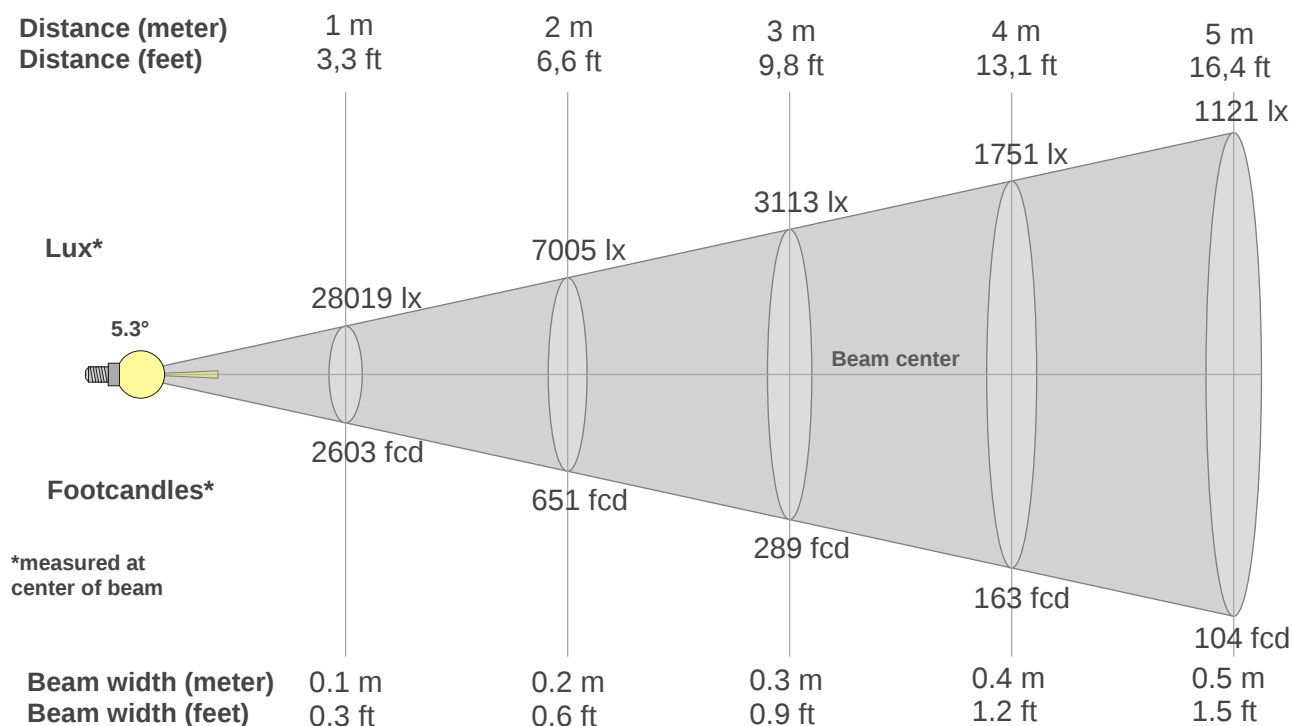
Fidelity index Rf

Rg 96.5

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	87	-6%	0%
2	90	-4%	3%
3	89	-3%	4%
4	93	-2%	2%
5	92	-4%	2%
6	96	-1%	0%
7	91	-5%	0%
8	94	-3%	2%
9	90	-3%	5%
10	83	-2%	9%
11	85	2%	10%
12	89	5%	2%
13	91	2%	-5%
14	86	3%	-9%
15	86	-2%	-7%
16	83	-3%	-11%




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
28019lx	7005lx	3113lx	1751lx	1121lx	778lx	572lx	438lx	346lx	280lx	232lx	195lx	166lx	143lx	125lx	109lx	97lx	86lx	78lx	70lx
2603.1fcd	650.8fcd	289.2fcd	162.7fcd	104.1fcd	72.3fcd	53.1fcd	40.7fcd	32.1fcd	26fcd	21.5fcd	18.1fcd	15.4fcd	13.3fcd	11.6fcd	10.2fcd	9fcd	8fcd	7.2fcd	6.5fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
28.0K	26.9K	20.6K	11.0K	5.0K	2.3K	1.3K	0.8K	0.6K	0.4K	0.4K	0.3K	0.2K	0.2K	0.2K	0.2K	0.1K	0.1K	0.1K	0.1K
100%	96%	74%	39%	18%	8%	5%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%	0%	0%	0%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
28.0K	26.8K	21.2K	11.1K	4.7K	2.1K	1.2K	0.7K	0.5K	0.4K	0.3K	0.3K	0.2K	0.2K	0.2K	0.2K	0.1K	0.1K	0.1K	0.1K
100%	96%	76%	40%	17%	8%	4%	3%	2%	1%	1%	1%	1%	1%	1%	1%	1%	0%	0%	0%

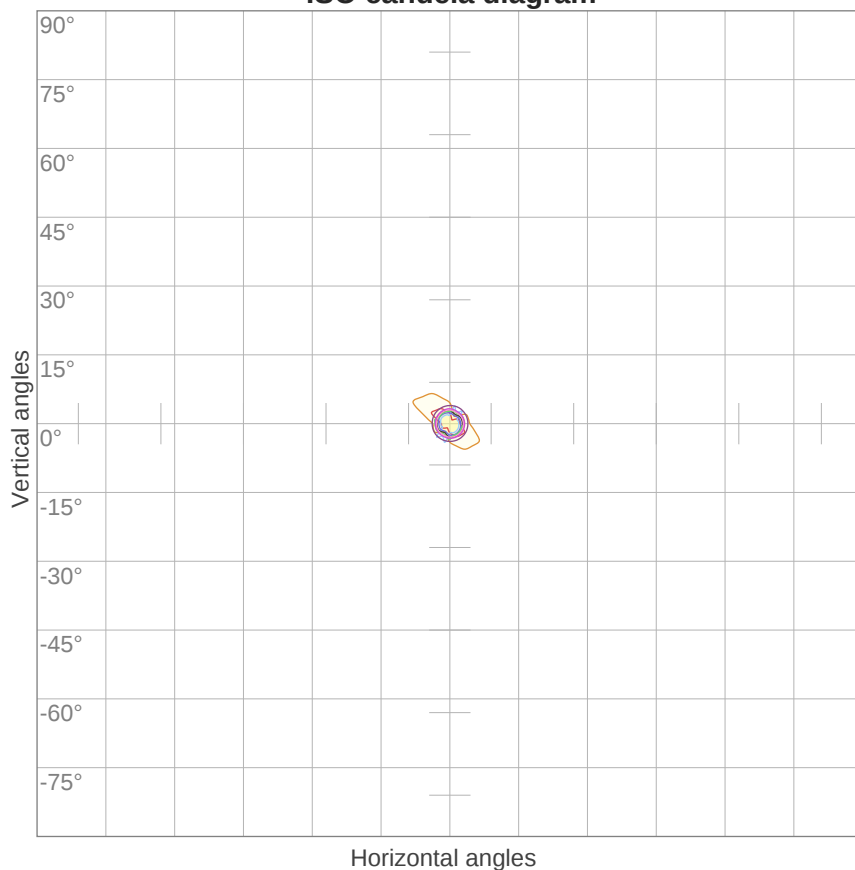
Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
28.0K	26.7K	20.8K	10.9K	4.5K	2.0K	1.1K	0.7K	0.5K	0.4K	0.3K	0.3K	0.2K	0.2K	0.2K	0.2K	0.1K	0.1K	0.1K	0.1K
100%	95%	74%	39%	16%	7%	4%	2%	2%	1%	1%	1%	1%	1%	1%	1%	1%	0%	0%	0%

Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
28.0K	26.9K	20.5K	11.3K	5.1K	2.3K	1.3K	0.8K	0.6K	0.4K	0.4K	0.3K	0.2K	0.2K	0.2K	0.2K	0.1K	0.1K	0.1K	0.1K
100%	96%	73%	40%	18%	8%	5%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
5.3°	9.4°	14.4°	97.1%	96.5%

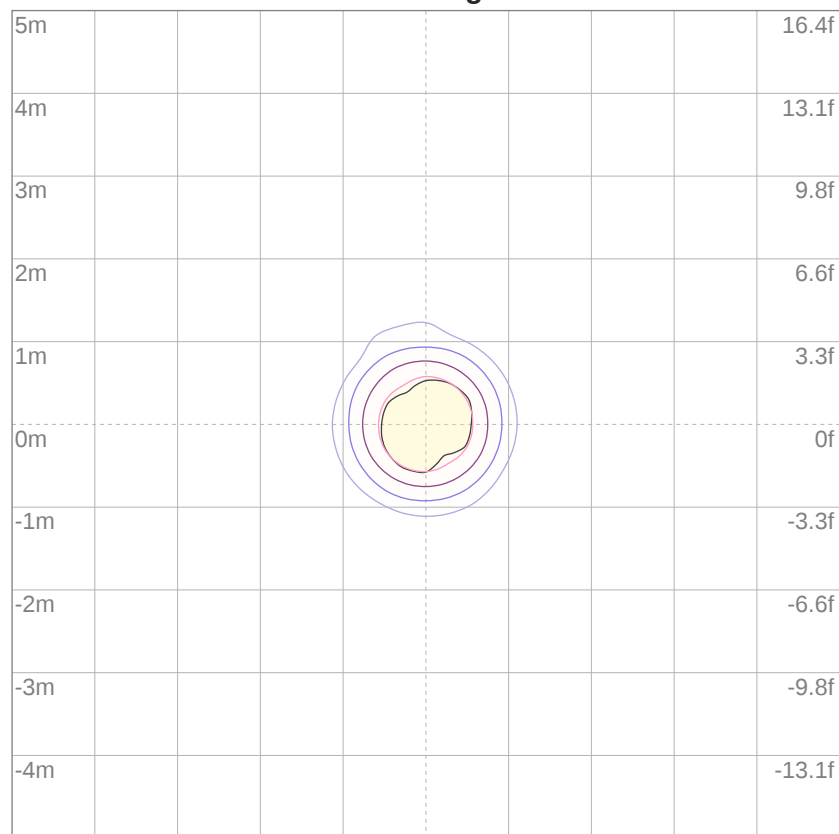
ISO candela diagram


10%	2802 cd
20%	5604 cd
30%	8406 cd
40%	11208 cd
50%	14010 cd
60%	16811 cd
70%	19613 cd
80%	22415 cd
90%	25217 cd

Conditions:

Number of c-planes: 12

Candela at center: 28019 cd

ISO lux diagram


3%	8.41 lx
5%	14.0 lx
10%	28.0 lx
30%	84.1 lx
50%	140 lx

Conditions:

Number of c-planes: 12

Lux at center: 280 lx

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

Glare Evaluation According to UGR

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	-1.2	-0.6	-0.9	-0.3	-0.1	-1.4	-0.8	-1.1	-0.5	-0.3
	3H	0.6	1.2	0.9	1.4	1.7	0.8	1.4	1.1	1.6	1.9
	4H	1.4	1.9	1.7	2.2	2.5	2.0	2.5	2.3	2.8	3.1
	6H	3.9	4.4	4.3	4.7	5.1	2.9	3.5	3.3	3.8	4.1
	8H	5.2	5.7	5.6	6.0	6.4	3.2	3.7	3.6	4.1	4.4
	12H	6.1	6.5	6.4	6.9	7.2	3.9	4.4	4.3	4.7	5.1
4H	2H	-0.6	-0.0	-0.3	0.2	0.5	-0.4	0.1	-0.1	0.4	0.7
	3H	1.6	2.0	2.0	2.4	2.7	2.1	2.5	2.4	2.9	3.2
	4H	2.6	3.0	3.0	3.4	3.8	3.5	3.9	3.9	4.2	4.6
	6H	5.3	5.6	5.7	6.0	6.4	4.6	4.9	5.0	5.3	5.7
	8H	6.7	7.0	7.1	7.4	7.8	5.0	5.3	5.5	5.7	6.2
	12H	7.7	8.0	8.2	8.4	8.9	5.9	6.1	6.3	6.6	7.0
8H	4H	3.2	3.5	3.6	3.9	4.3	4.0	4.3	4.5	4.7	5.2
	6H	6.1	6.3	6.5	6.7	7.2	5.5	5.7	6.0	6.2	6.7
	8H	7.7	7.9	8.2	8.3	8.8	6.3	6.5	6.8	7.0	7.5
	12H	9.0	9.2	9.5	9.7	10.2	7.5	7.7	8.0	8.2	8.7
12H	4H	3.3	3.6	3.8	4.0	4.5	4.2	4.4	4.6	4.8	5.3
	6H	6.3	6.5	6.8	7.0	7.5	5.8	6.0	6.3	6.5	7.0
	8H	8.0	8.2	8.5	8.7	9.2	6.9	7.0	7.4	7.5	8.0
Variation of the observer position for the luminaire distance S											
S = 1.0H		+0.2 / -0.2					+0.3 / -0.2				
S = 1.5H		+0.6 / -0.4					+0.8 / -0.5				
S = 2.0H		+1.0 / -0.5					+1.2 / -0.6				
Standard table		---					BK10				
Correction summand		---					-10.0				
Corrected glare indices referring to 385 lm total luminous flux											

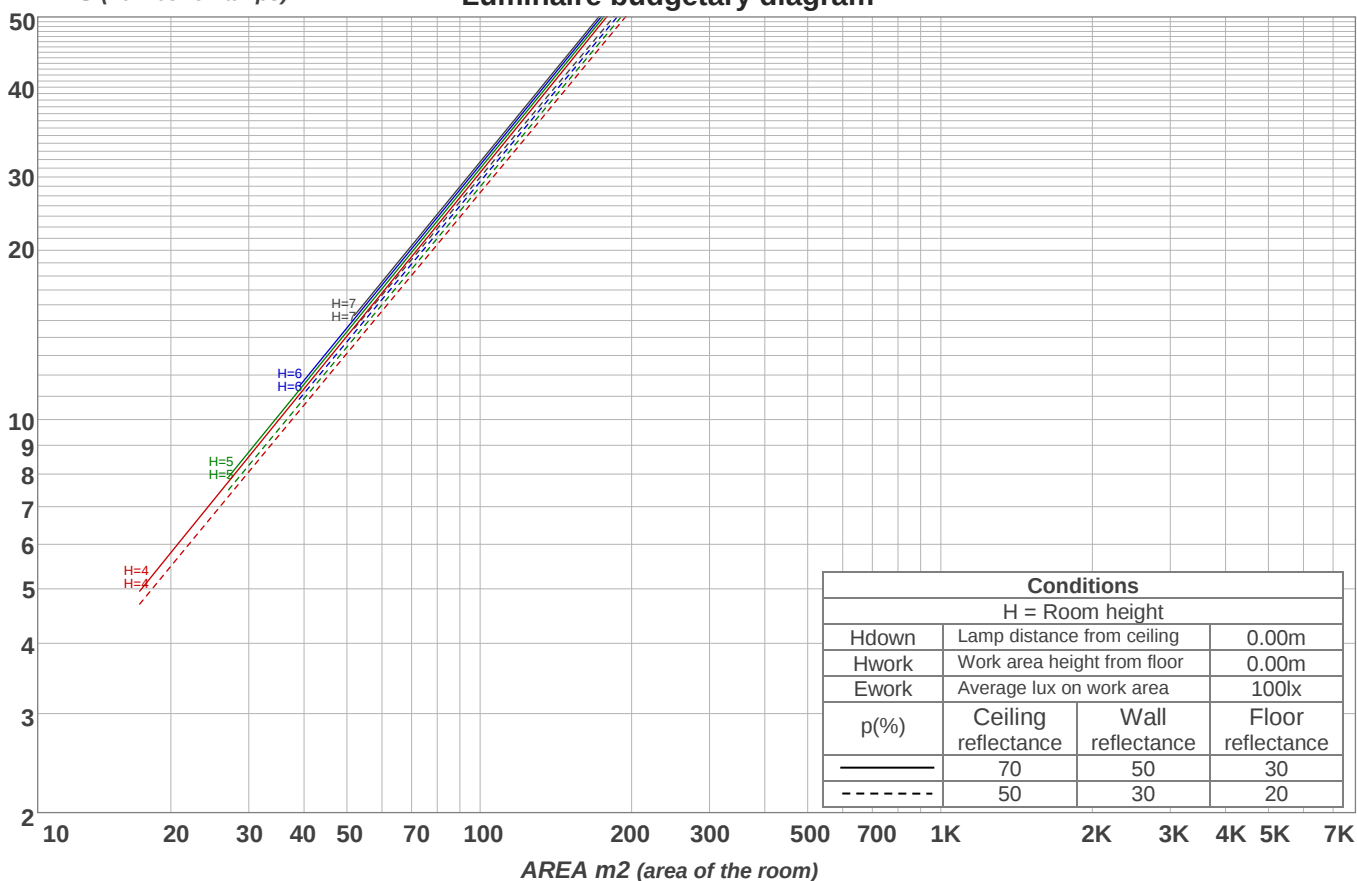
UGR data could be incorrect as lamp output is not symmetrical. Goto Edit->Photometric->Corrections and select Correct asymmetry.

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	105	105	105	100	100	100	98
1	115	114	112	110	113	111	110	109	107	106	105	103	102	101	99	99	98	96
2	113	110	107	105	110	108	106	104	104	103	101	101	100	99	98	98	97	95
3	110	106	104	101	108	105	102	100	102	100	99	100	98	97	98	96	95	94
4	108	104	101	99	106	103	100	98	101	98	97	99	97	95	97	95	94	93
5	106	102	99	96	105	101	98	96	99	97	95	98	96	94	96	94	93	92
6	104	100	97	95	103	99	96	94	98	95	94	96	94	93	95	94	92	91
7	103	98	95	93	102	98	95	93	97	94	92	95	93	92	94	93	91	91
8	102	97	94	92	101	96	94	92	96	93	91	95	93	91	94	92	91	90
9	100	96	93	91	100	95	93	91	95	92	91	94	92	90	93	91	90	89
10	99	95	92	90	99	94	92	90	94	91	90	93	91	90	92	91	89	89

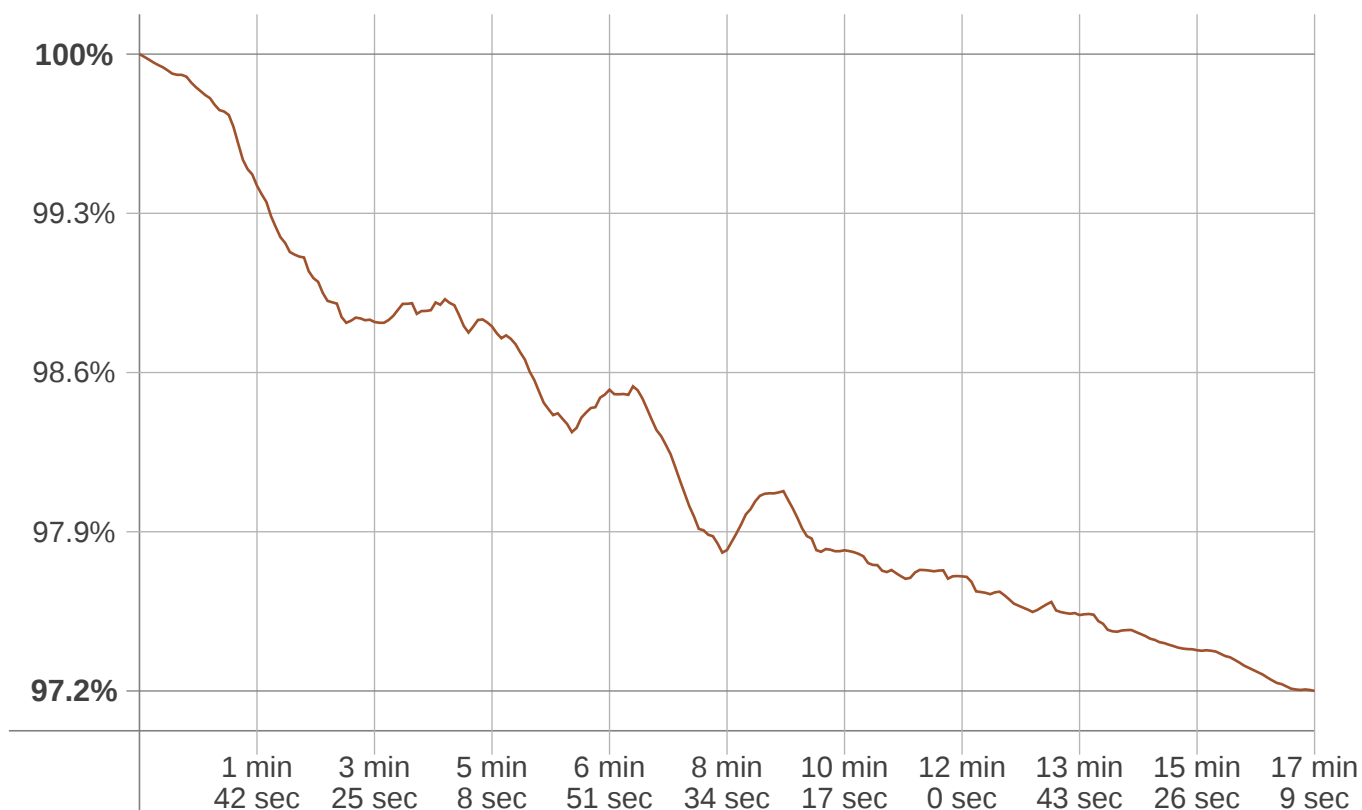
LAMPS (number of lamps)

Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
299 lm	47.6 lm	18.1 lm	5.82 lm	1.78 lm	1.44 lm	1.38 lm	1.27 lm	1.24 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.19 lm	1.26 lm	1.15 lm	0.983 lm	0.981 lm	0.754 lm	0.572 lm	0.333 lm	0.120 lm

Warmup curve

Warmup result

Warmup time:	17 min 9 sec
Warmup variation	-2.8%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
3043 K	-1 K	3042 K

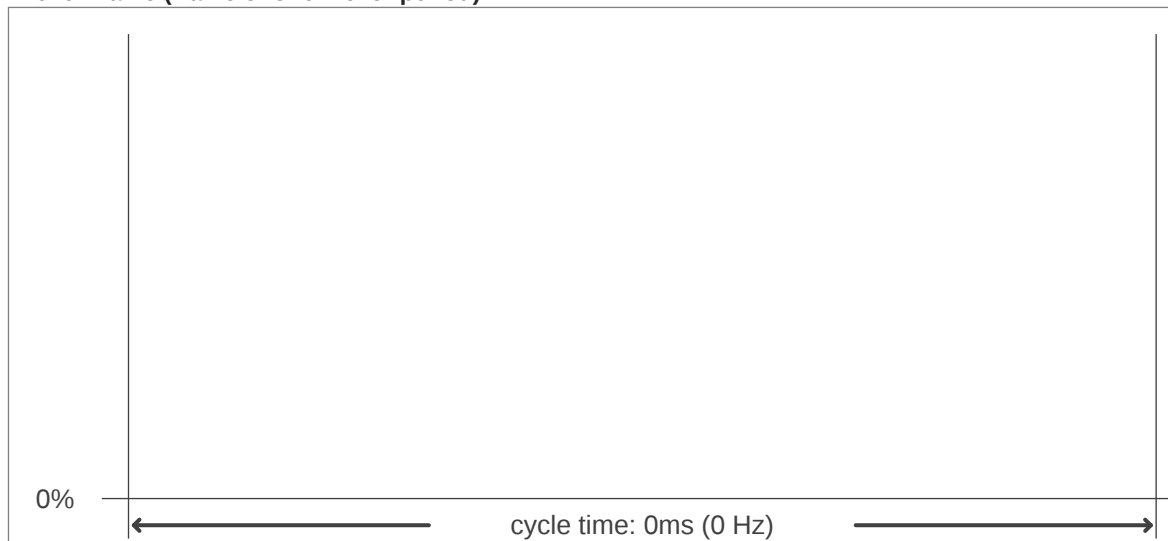
Output change

Output start	Output change	Output end
396 lm	-11 lm	385 lm

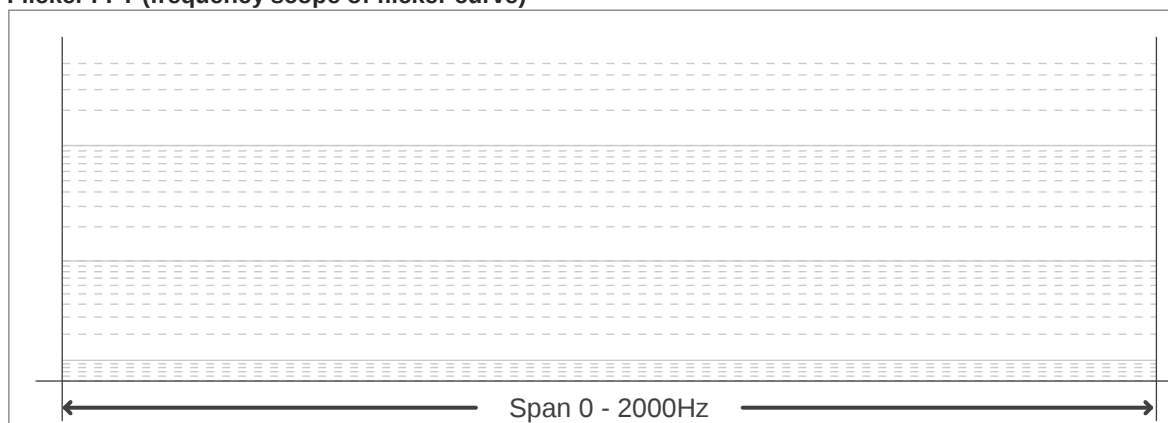
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:	n/a Hz
Flicker index:	n/a
Flicker percentage:	n/a %
SVM: (Visual flicker)	n/a

Flicker conditions:

Sample rate:	60.000 samples/second
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