

Light efficiency:



Light quality:



Color temperature:

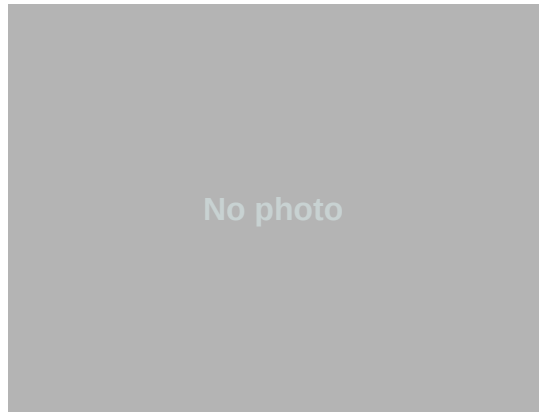


Output: 289 lm

Peak: 1873 cd

Power: 11.9 W

PF: 0.99



Product name:

F080-1S-HO-30-9-20-X-X-X HC

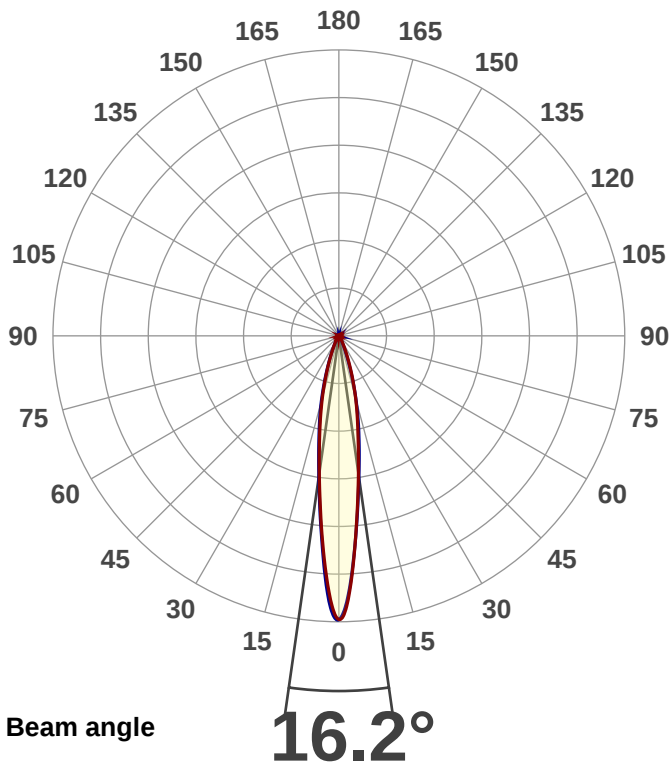
Item number:

RISE F080

Date and time:

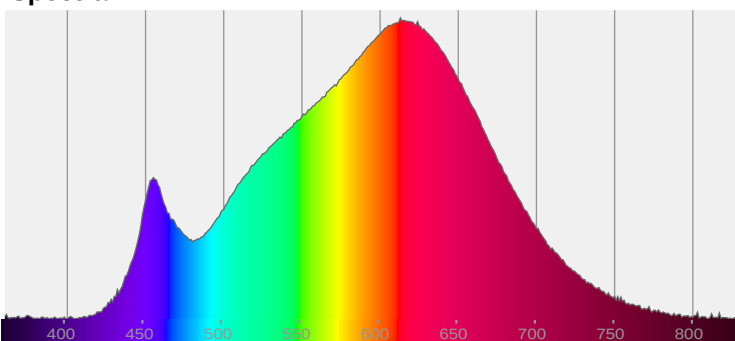
11/8/2018 3:30:18 PM

Description:

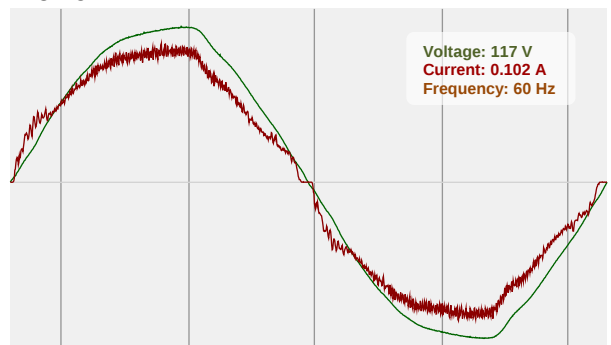


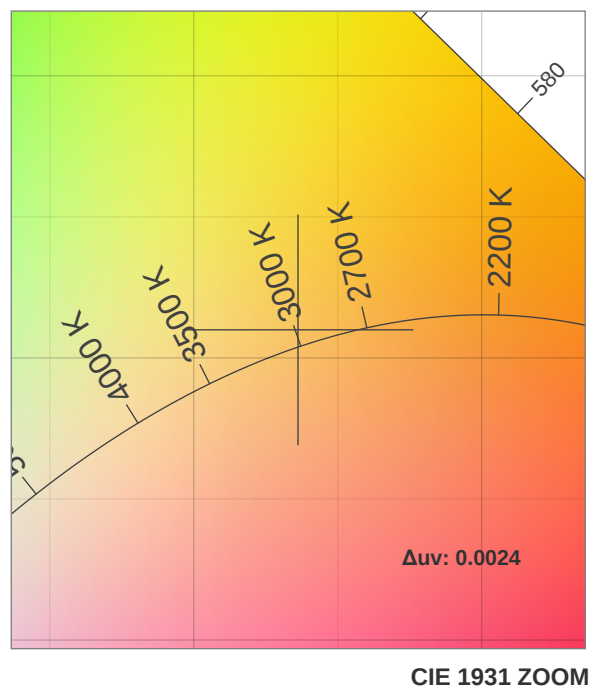
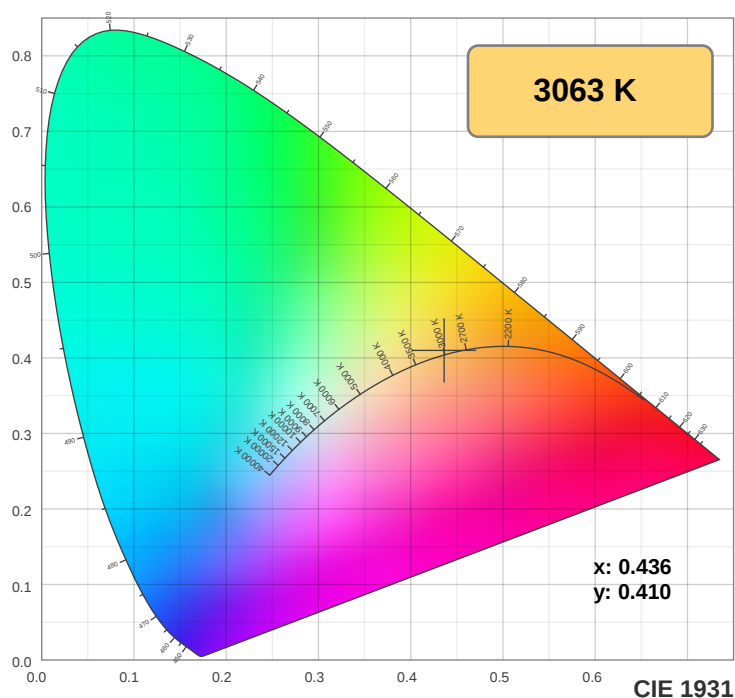
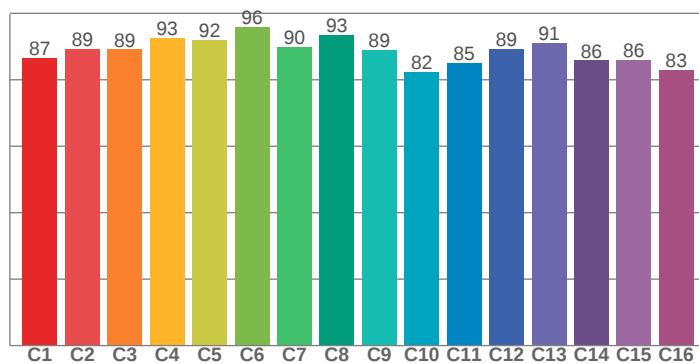
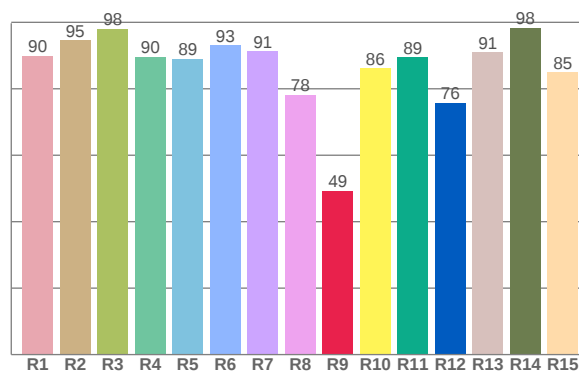
CIE 1931
x: 0.436
y: 0.410

Spectra



Power




TM30: 88.8

CRI: 90.5 (R1-R8)

CRI R values, only R1-R8 are used to calculate final CRI value

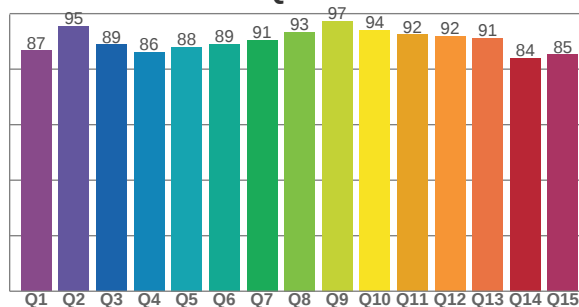
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
89.9	94.5	98.1	89.6	89.0	93.2	91.4	78.2	49.3	86.3	89.4	75.8	91.0	98.3	85.0

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
86.6	89.4	89.2	92.6	92.1	95.9	90.0	93.5	89.0	82.4	85.1	89.3	91.1	85.9	86.0	83.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86.6	95.4	88.8	86.1	88.0	88.9	90.5	93.4	97.3	94.0	92.5	91.9	91.2	84.0	85.3

CQS: 89.4


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
3063 K	90.5	49.3	88.8	96.4	89.4	0.436	0.410	0.248	0.349	0.0024

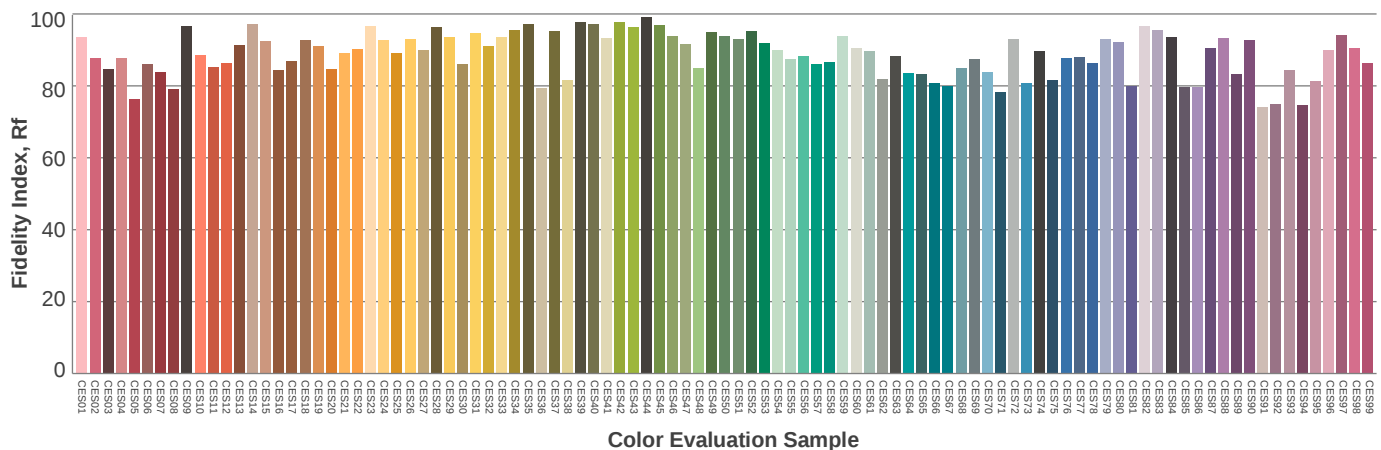
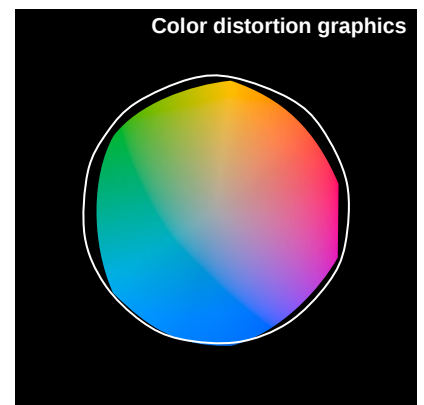
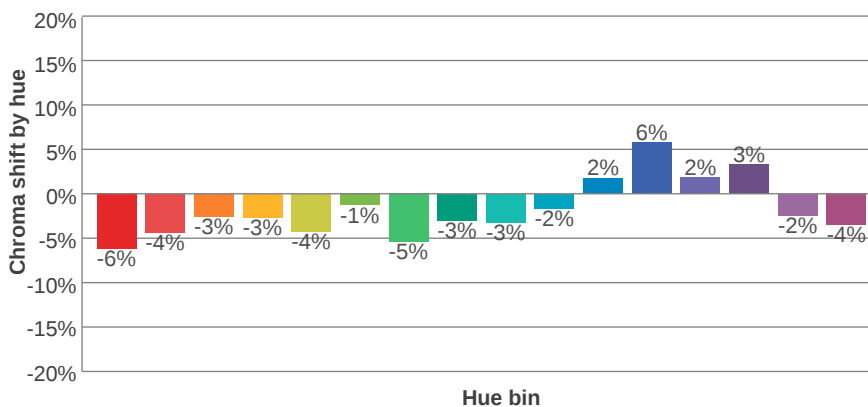
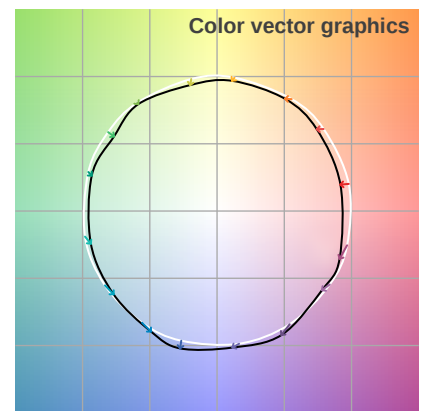
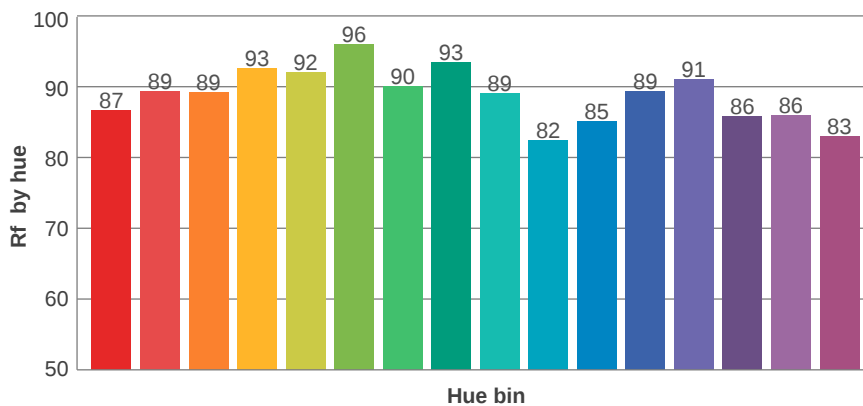
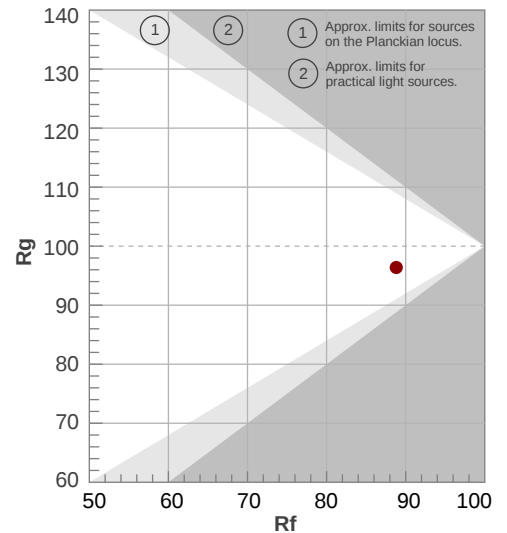
Rf 88.8

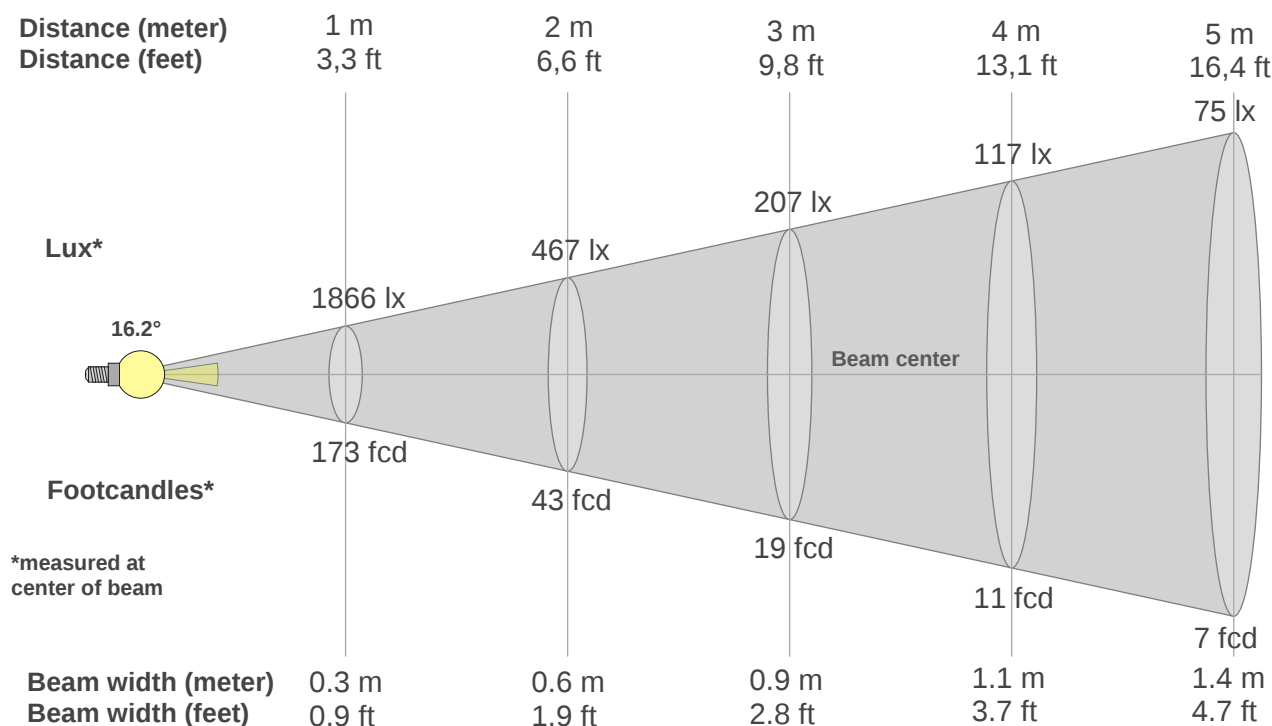
Fidelity index Rf

Rg 96.4

Gammut index Rg

Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	87	-6%	1%
2	89	-4%	3%
3	89	-3%	4%
4	93	-3%	1%
5	92	-4%	2%
6	96	-1%	0%
7	90	-5%	0%
8	93	-3%	2%
9	89	-3%	6%
10	82	-2%	9%
11	85	2%	9%
12	89	6%	0%
13	91	2%	-5%
14	86	3%	-10%
15	86	-2%	-7%
16	83	-4%	-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
1866lx	467lx	207lx	117lx	75lx	52lx	38lx	29lx	23lx	19lx	15lx	13lx	11lx	10lx	8lx	7lx	6lx	6lx	5lx	5lx
173.4fcd	43.4fcd	19.3fcd	10.8fcd	6.9fcd	4.8fcd	3.5fcd	2.7fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

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°
1866	1739	1448	1160	927	739	596	481	378	288	211	152	107	75	53	39	29	21	15	11
100%	93%	78%	62%	50%	40%	32%	26%	20%	15%	11%	8%	6%	4%	3%	2%	2%	1%	1%	1%

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°
1866	1718	1440	1171	948	773	628	497	379	271	183	119	79	55	40	30	24	19	14	11
100%	92%	77%	63%	51%	41%	34%	27%	20%	15%	10%	6%	4%	3%	2%	2%	1%	1%	1%	1%

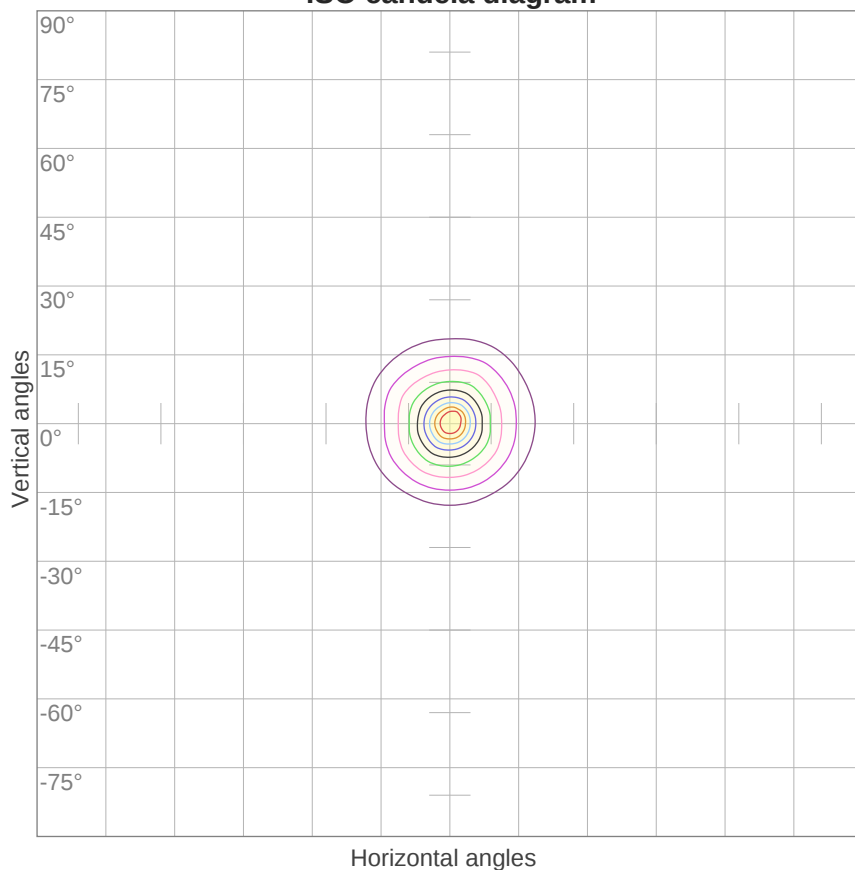
Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1866	1715	1437	1157	927	740	595	473	367	273	198	141	100	72	53	39	30	23	18	13
100%	92%	77%	62%	50%	40%	32%	25%	20%	15%	11%	8%	5%	4%	3%	2%	2%	1%	1%	1%

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°
1866	1762	1470	1182	948	765	621	503	389	289	207	147	102	71	51	37	27	19	14	10
100%	94%	79%	63%	51%	41%	33%	27%	21%	16%	11%	8%	5%	4%	3%	2%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.2°	41°	56.8°	98.5%	98.0%

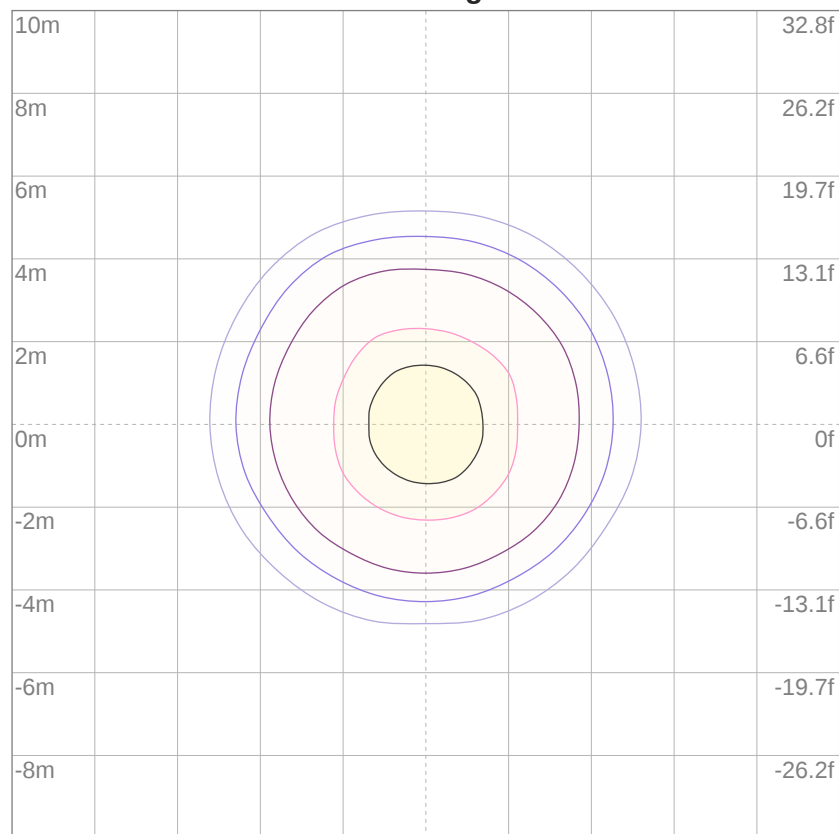
ISO candela diagram


10%	187 cd
20%	373 cd
30%	560 cd
40%	747 cd
50%	933 cd
60%	1120 cd
70%	1307 cd
80%	1493 cd
90%	1680 cd

Conditions:

Number of c-planes: 12

Candela at center: 1866 cd

ISO lux diagram


3%	0.560 lx
5%	0.933 lx
10%	1.87 lx
30%	5.60 lx
50%	9.33 lx

Conditions:

Number of c-planes: 12

Lux at center: 18.7 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	2.5	3.1	2.7	3.3	3.5	1.8	2.4	2.0	2.6	2.8
	3H	2.5	3.1	2.8	3.3	3.6	1.8	2.4	2.1	2.7	2.9
	4H	2.6	3.1	2.9	3.4	3.7	2.1	2.6	2.4	2.9	3.2
	6H	2.8	3.3	3.1	3.6	3.9	2.5	3.0	2.8	3.3	3.6
	8H	3.1	3.5	3.4	3.8	4.2	2.6	3.1	3.0	3.4	3.7
	12H	3.4	3.9	3.8	4.2	4.5	2.9	3.4	3.3	3.7	4.0
4H	2H	2.3	2.9	2.6	3.1	3.4	1.7	2.2	2.0	2.5	2.8
	3H	2.4	2.9	2.8	3.2	3.6	1.9	2.3	2.2	2.7	3.0
	4H	2.6	3.0	3.0	3.4	3.7	2.3	2.7	2.7	3.0	3.4
	6H	3.1	3.4	3.5	3.8	4.2	2.9	3.2	3.3	3.6	4.0
	8H	3.5	3.8	3.9	4.2	4.6	3.1	3.4	3.6	3.8	4.2
	12H	4.1	4.3	4.5	4.8	5.2	3.6	3.8	4.0	4.3	4.7
8H	4H	2.7	3.0	3.2	3.4	3.9	2.4	2.7	2.8	3.1	3.5
	6H	3.4	3.6	3.9	4.1	4.5	3.1	3.3	3.6	3.8	4.2
	8H	4.0	4.2	4.5	4.6	5.1	3.5	3.7	4.0	4.2	4.7
	12H	4.8	4.9	5.3	5.4	5.9	4.2	4.4	4.7	4.9	5.4
12H	4H	2.8	3.0	3.2	3.4	3.9	2.4	2.6	2.8	3.1	3.5
	6H	3.5	3.7	4.0	4.1	4.6	3.2	3.4	3.7	3.8	4.3
	8H	4.1	4.3	4.6	4.8	5.3	3.7	3.9	4.2	4.3	4.9
Variation of the observer position for the luminaire distance S											
S = 1.0H		+3.2 / -1.8					+2.8 / -1.5				
S = 1.5H		+5.5 / -2.1					+5.1 / -2.0				
S = 2.0H		+7.5 / -2.4					+7.0 / -2.1				
Standard table		---					---				
Correction summand		---					---				
Corrected glare indices referring to 289 lm total luminous flux											

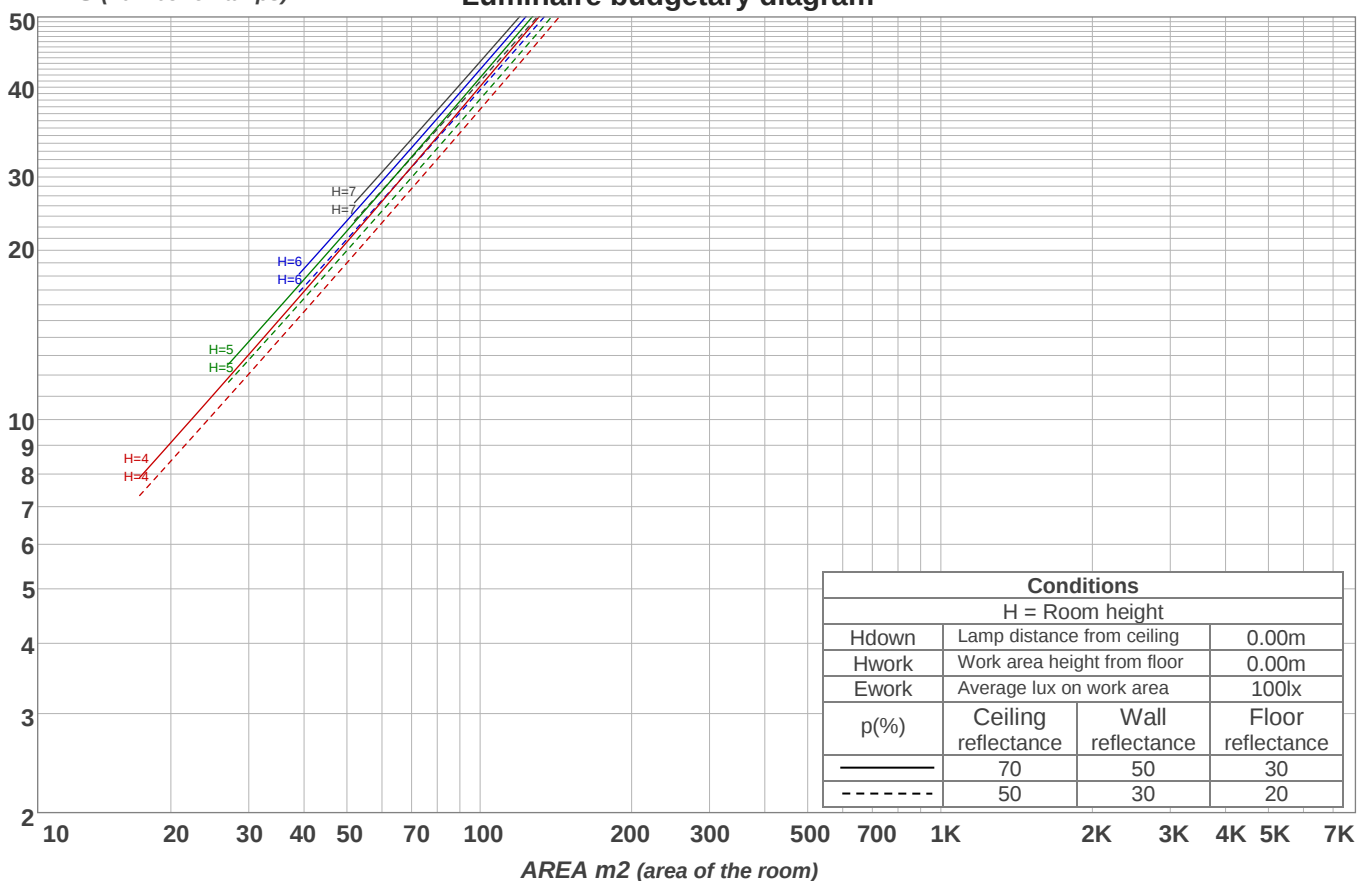
UGR data could be incorrect as lamp output is not symmetrical. Goto Edit->Photometric->Corrections and select Correct asymmetry.

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	111	111	111	106	106	106	101	101	101	99
1	115	113	111	109	112	110	109	107	106	105	104	102	101	100	99	98	97	96
2	111	107	104	102	109	105	103	100	102	100	98	99	97	96	96	95	94	92
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	89
4	104	99	95	92	102	97	94	91	95	92	90	93	91	89	92	89	88	87
5	101	95	91	88	99	94	90	87	92	89	87	91	88	86	89	87	85	84
6	98	92	88	85	97	91	87	84	90	86	84	88	85	83	87	85	83	81
7	95	89	85	82	94	88	84	82	87	84	81	86	83	81	85	82	80	79
8	93	86	82	79	92	86	82	79	85	81	79	84	81	78	83	80	78	77
9	90	84	80	77	89	83	79	77	82	79	76	82	78	76	81	78	76	75
10	88	81	77	75	87	81	77	75	80	77	74	80	76	74	79	76	74	73

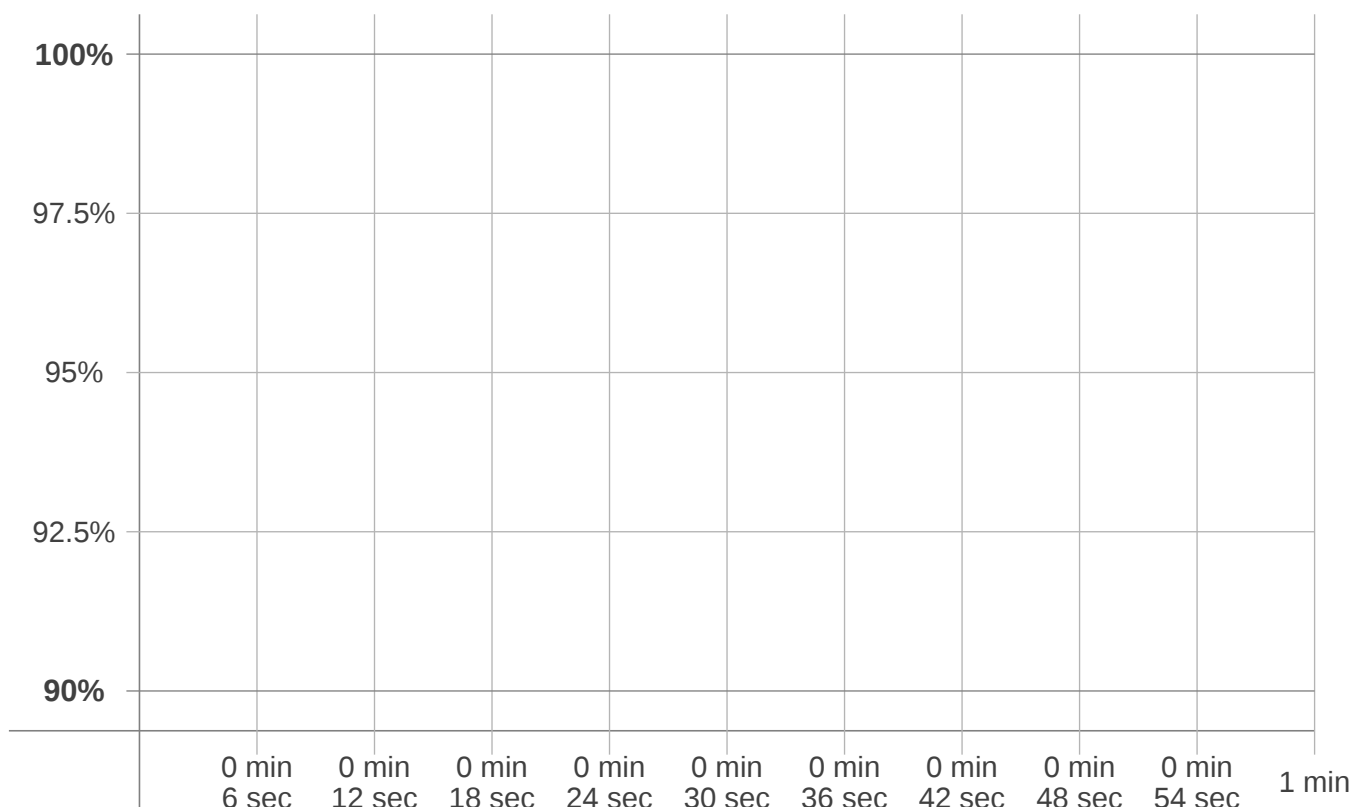
LAMPS (number of lamps)

Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
107 lm	121 lm	41.6 lm	11.7 lm	2.55 lm	0.807 lm	0.555 lm	0.495 lm	0.457 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.452 lm	0.433 lm	0.476 lm	0.388 lm	0.354 lm	0.293 lm	0.204 lm	0.123 lm	0.041 lm

Warmup curve

Warmup result

Warmup time:	n/a
Warmup variation	n/a%

Warmup conditions

Stable period:	n/a
Stable change max:	n/a%
Minimum time:	n/a

Color temperature change

CCT start	CCT change	CCT end
n/a K	n/a K	3063 K

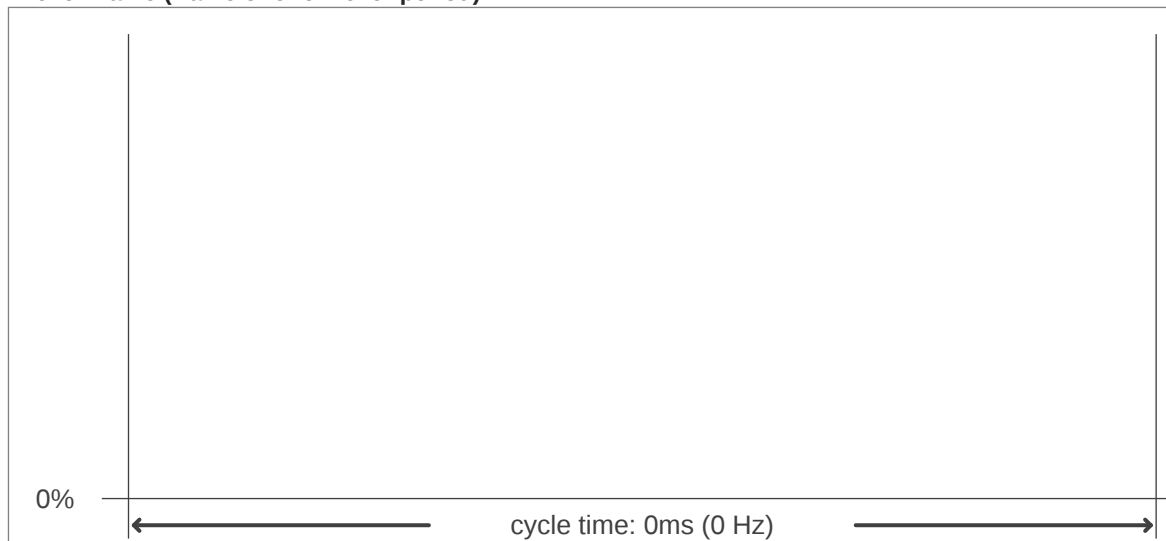
Output change

Output start	Output change	Output end
n/a lm	n/a lm	289 lm

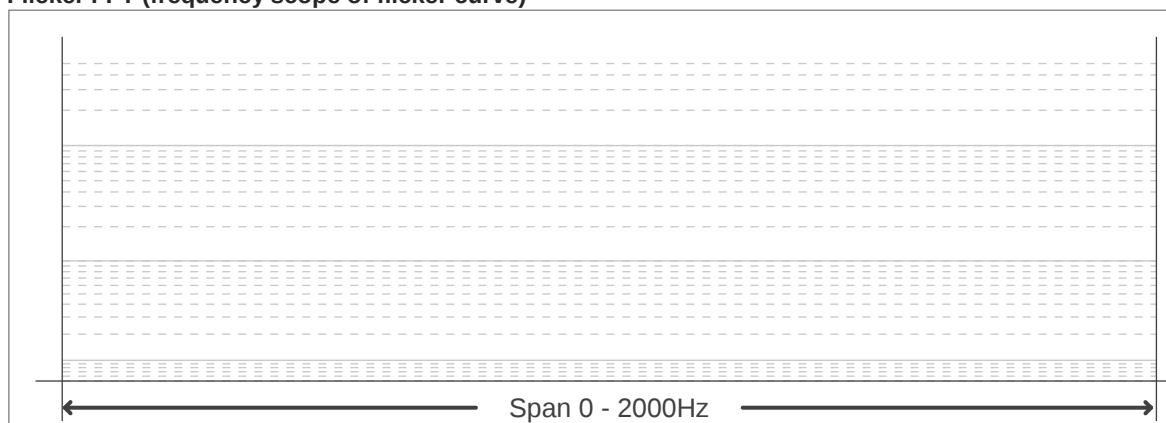
Flicker curve (complete sampled flicker signal)



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
---------------------	------------------------------