

# PHOTOMETRIC TEST REPORT

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BURLINGTON 400 CE - PHASE -  
2700K

astro

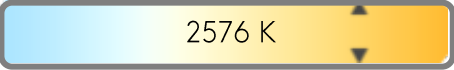
LIGHT EFFICIENCY:



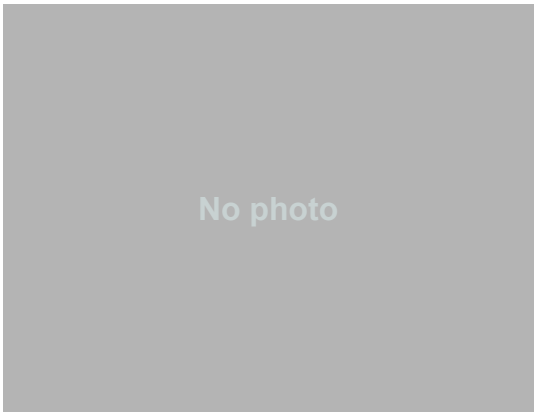
LIGHT QUALITY:



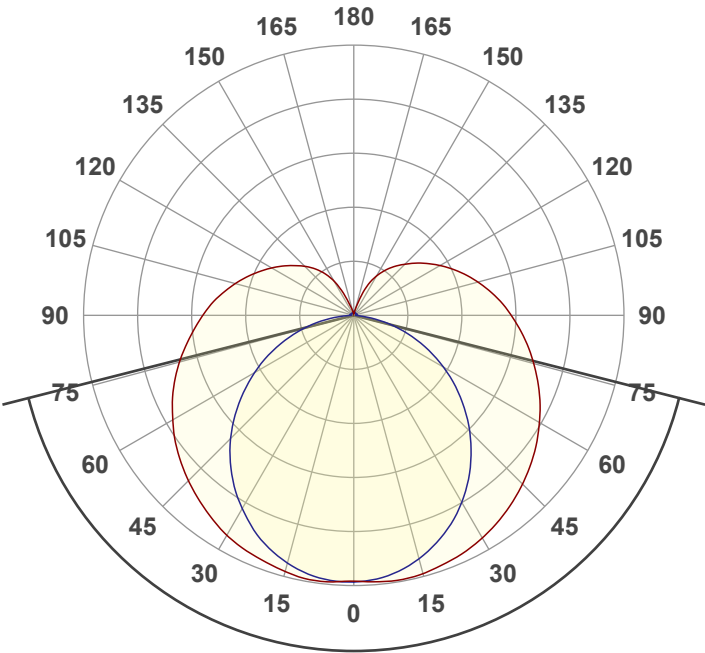
COLOR TEMPERATURE:



OUTPUT: 418 lm  
PEAK: 80.7 cd  
POWER: 9.8 W  
PF: 0.83



Tracking number: [n/a](#)  
Product name:  
Burlington 400 CE - Phase - 2700K  
Item number:  
1477xxx  
Date and time:  
05/04/2024 12:44:42  
Description:  
IP44 bathroom wall light - 2700K

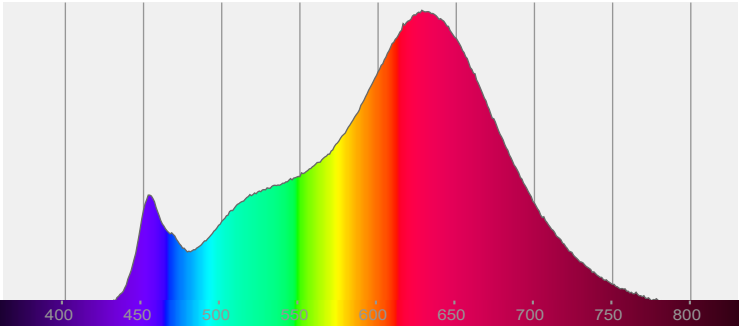


151.5°

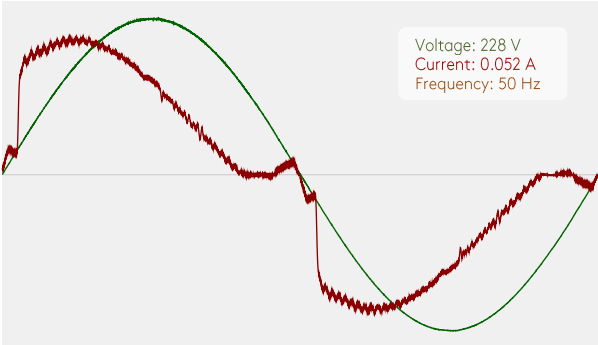


CIE 1931  
x: 0.460  
y: 0.395

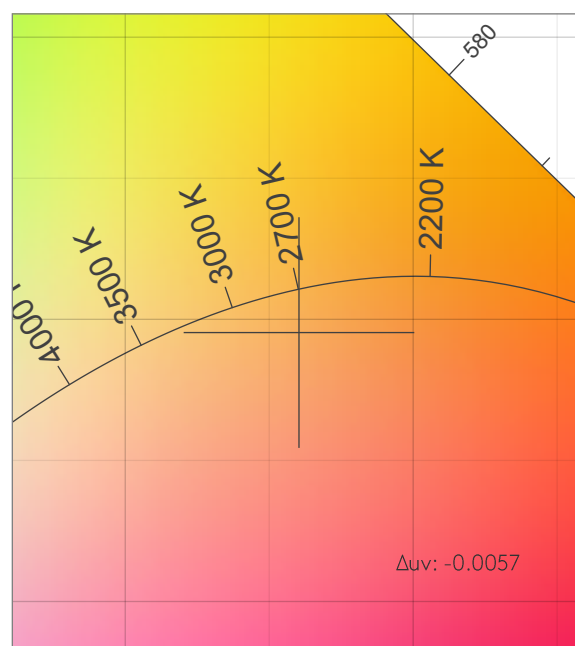
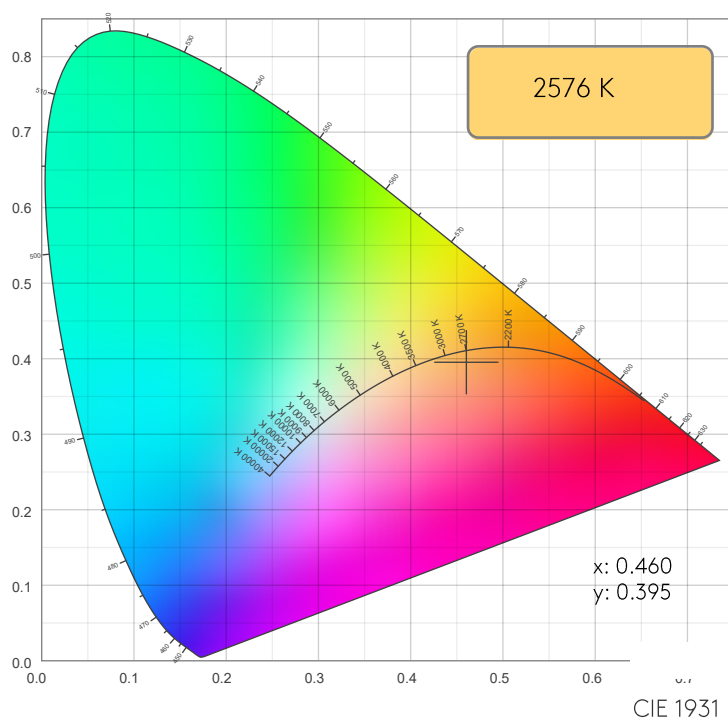
SPECTRA



POWER

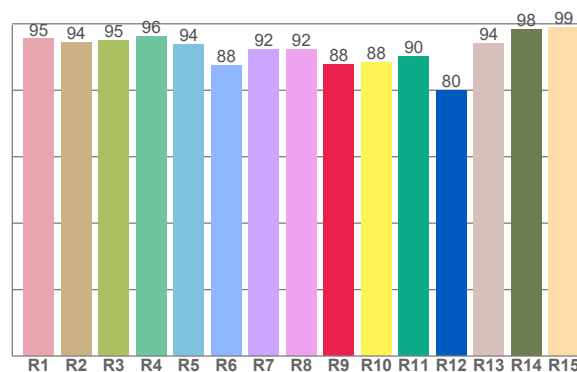
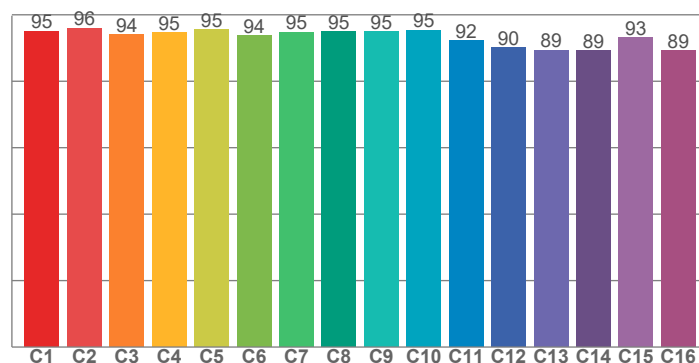


## COLOR DETAILS



TM30: 93.6

CRI: 93.4 (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
95.4	94.3	94.9	96.3	93.8	87.5	92.3	92.2	87.8	88.4	90.2	80.0	94.1	98.3	99.0

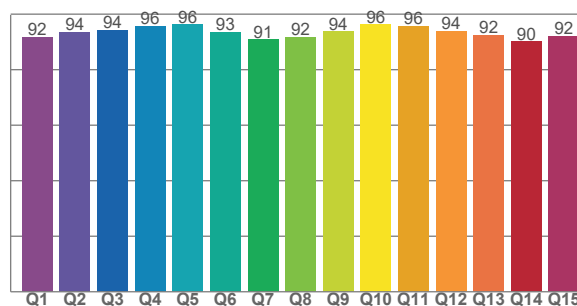
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.1	96.0	94.1	94.6	95.5	93.7	94.8	95.0	95.0	95.4	92.2	90.2	89.4	89.3	93.2	89.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.8	93.7	94.3	95.7	96.3	93.4	90.8	91.7	93.8	96.3	95.6	93.9	92.4	90.1	92.0

CQS: 93.0



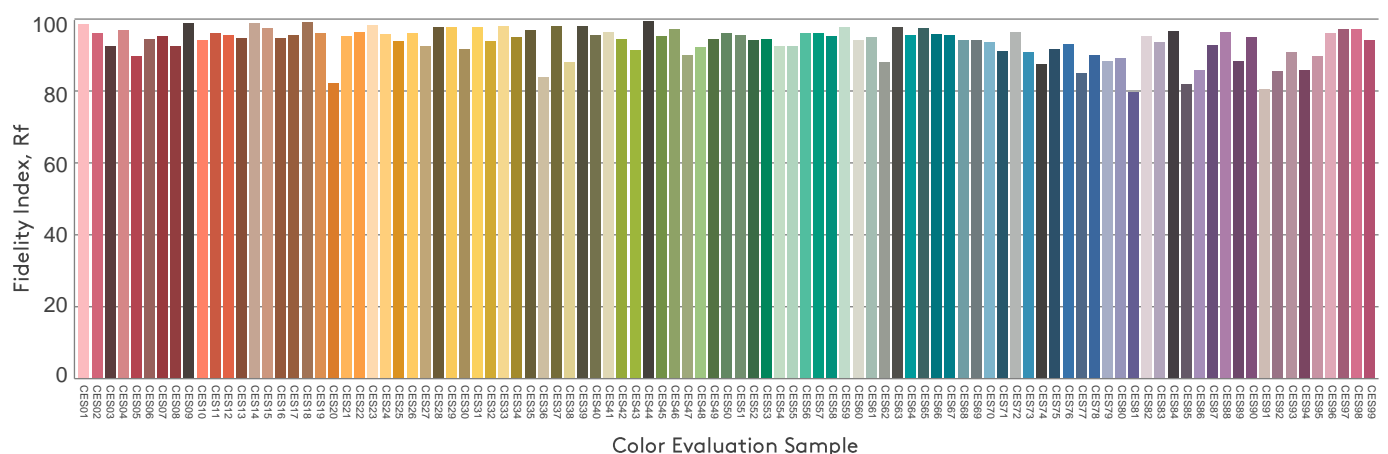
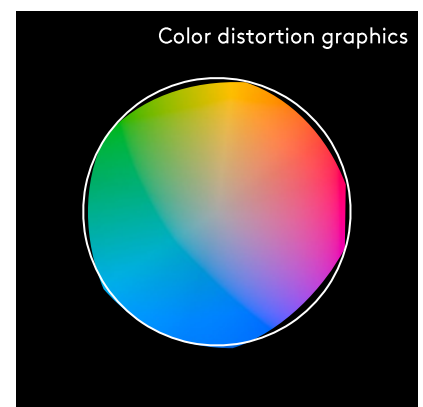
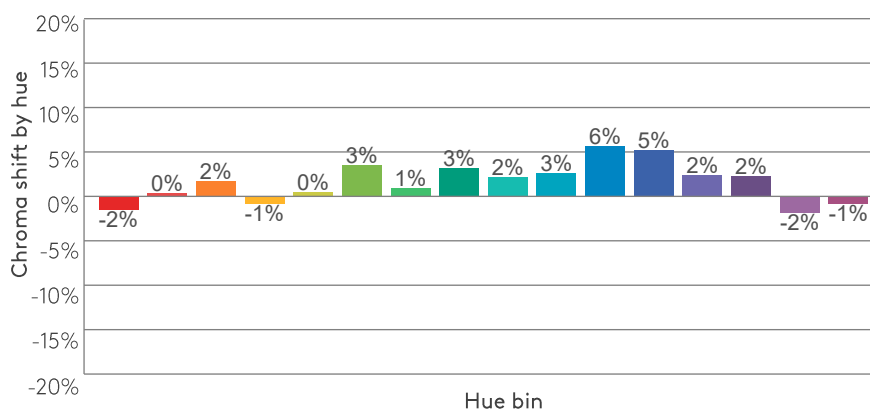
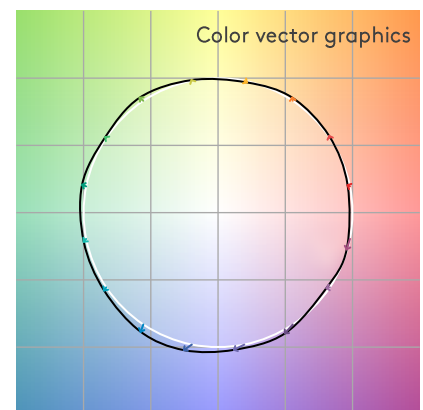
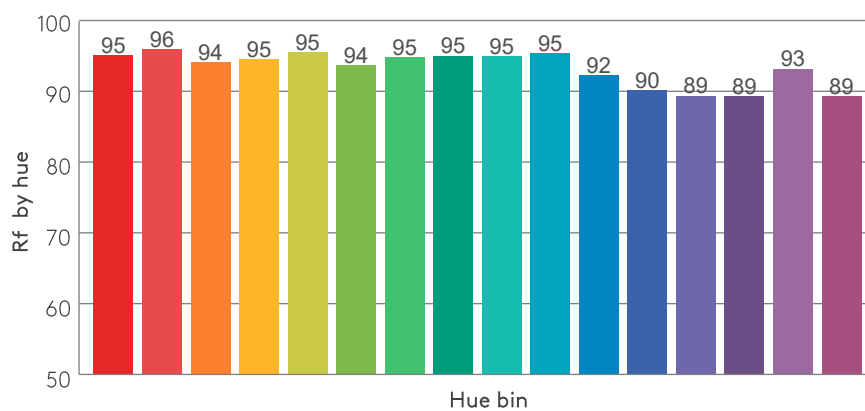
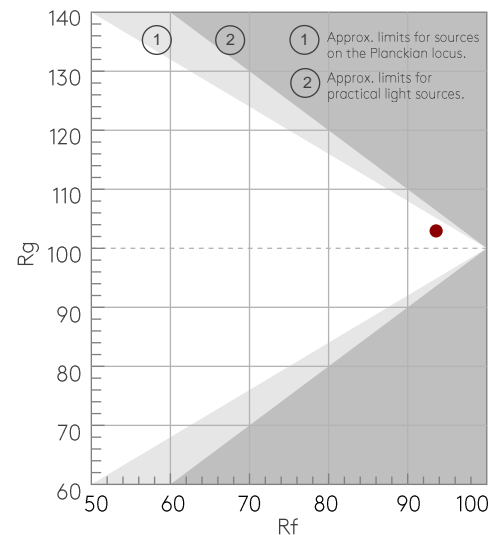
## COLOR PARAMETERS

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	$\Delta uv$
2576 K	93.4	87.8	93.6	102.9	93.0	0.460	0.395	0.270	0.348	-0.0057

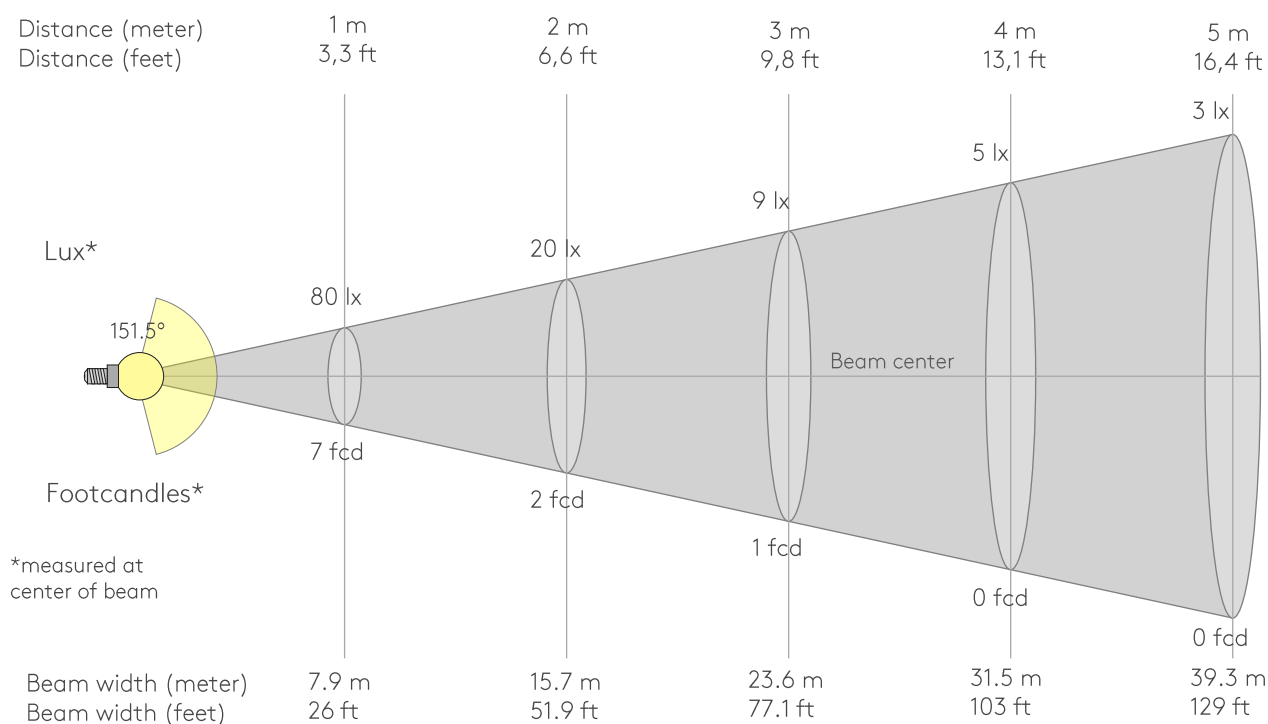
Rf 93.6  
Fidelity index Rf

Rg 102.9  
Gammut index Rg

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	1%
2	96	0%	1%
3	94	2%	2%
4	95	-1%	-2%
5	95	0%	0%
6	94	3%	1%
7	95	1%	0%
8	95	3%	-1%
9	95	2%	2%
10	95	3%	1%
11	92	6%	1%
12	90	5%	-5%
13	89	2%	-8%
14	89	2%	-8%
15	93	-2%	-2%
16	89	-1%	-8%



## 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
80lx	20lx	9lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
7.4fcd	1.9fcd	0.8fcd	0.5fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
80.0	80.6	79.8	78.0	75.2	71.7	67.5	62.8	57.7	52.5	47.3	42.2	36.9	31.6	26.6	21.7	17.1	11.6	3.6	0.8
100%	101%	100%	98%	94%	90%	84%	79%	72%	66%	59%	53%	46%	40%	33%	27%	21%	15%	4%	1%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
80.0	78.3	73.9	67.5	59.1	49.2	38.5	27.3	16.2	5.6	0.8	1.1	1.1	0.9	0.8	0.8	0.8	0.9	0.9	0.9
100%	98%	92%	84%	74%	62%	48%	34%	20%	7%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%

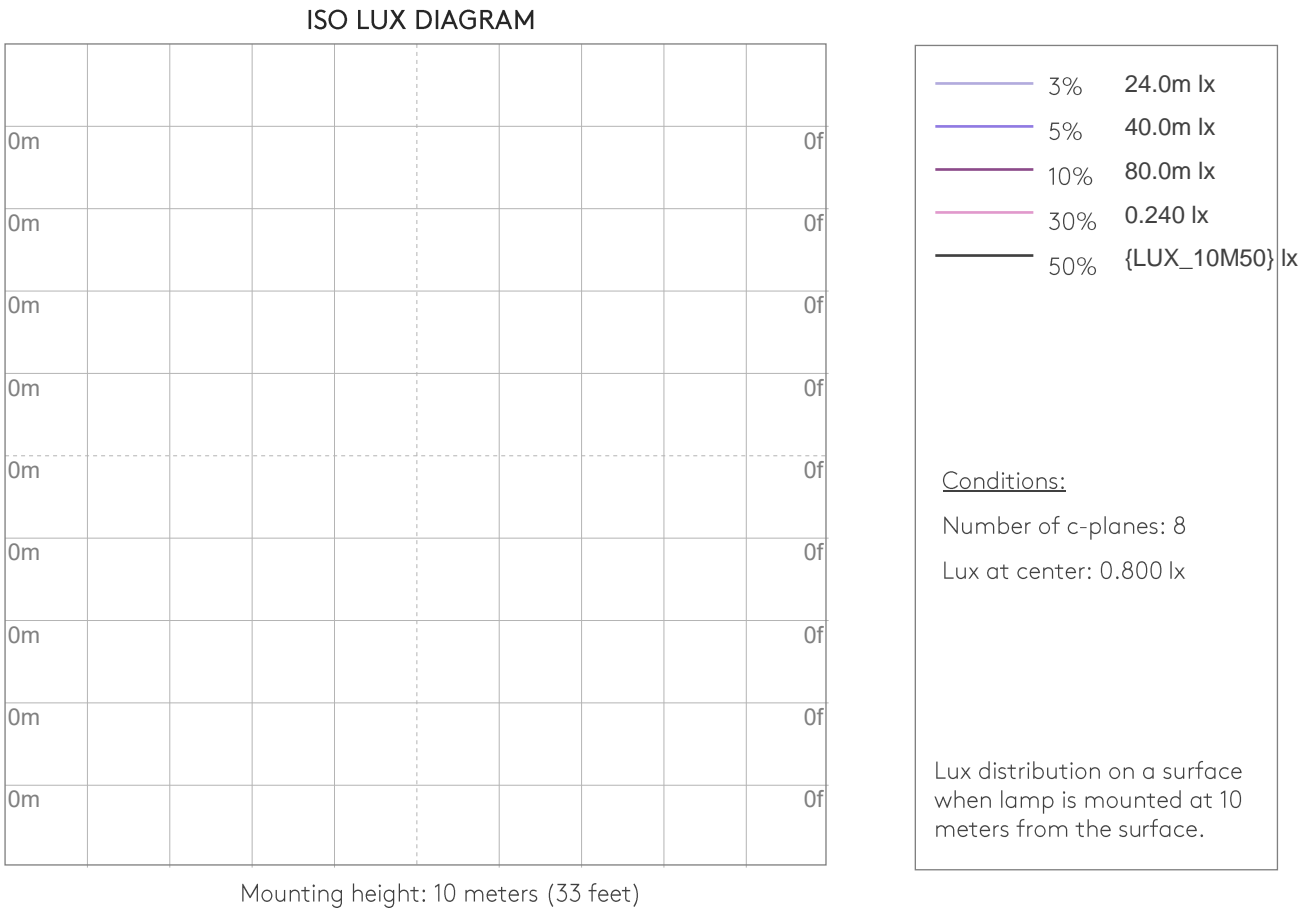
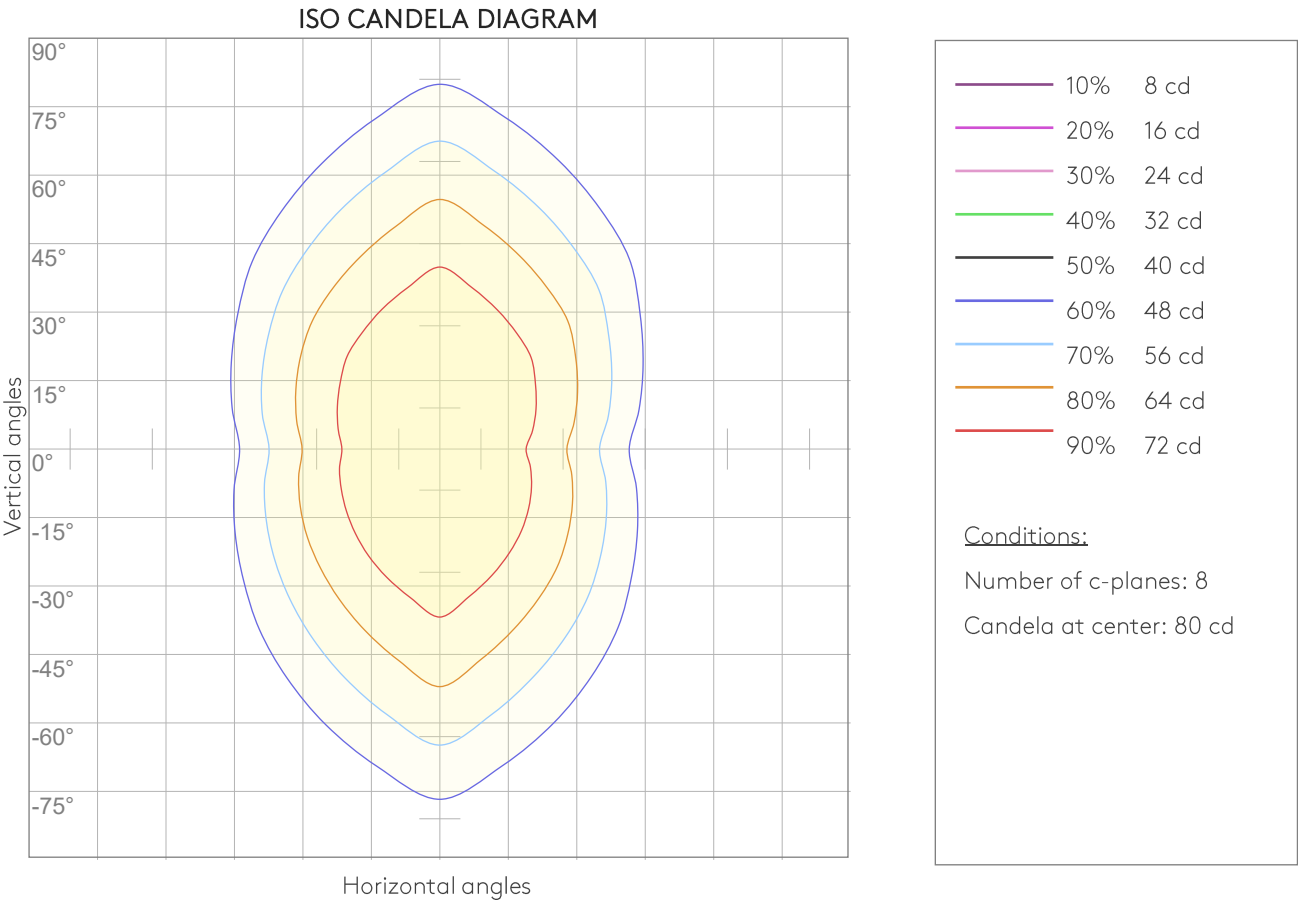
Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
80.0	80.4	79.0	77.1	74.0	70.2	66.0	61.2	56.0	50.5	45.4	40.3	35.1	30.1	25.3	20.8	16.0	9.2	2.4	0.8
100%	101%	99%	96%	93%	88%	83%	76%	70%	63%	57%	50%	44%	38%	32%	26%	20%	11%	3%	1%

Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
80.0	79.2	75.5	69.4	61.6	52.3	41.7	30.8	19.6	8.9	1.1	1.0	1.1	1.0	0.7	0.7	0.8	0.9	0.9	0.9
100%	99%	94%	87%	77%	65%	52%	38%	24%	11%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
151.5°	260.8°	285°	48.4%	31.2%



## GLARE EVALUATION ACCORDING TO UGR

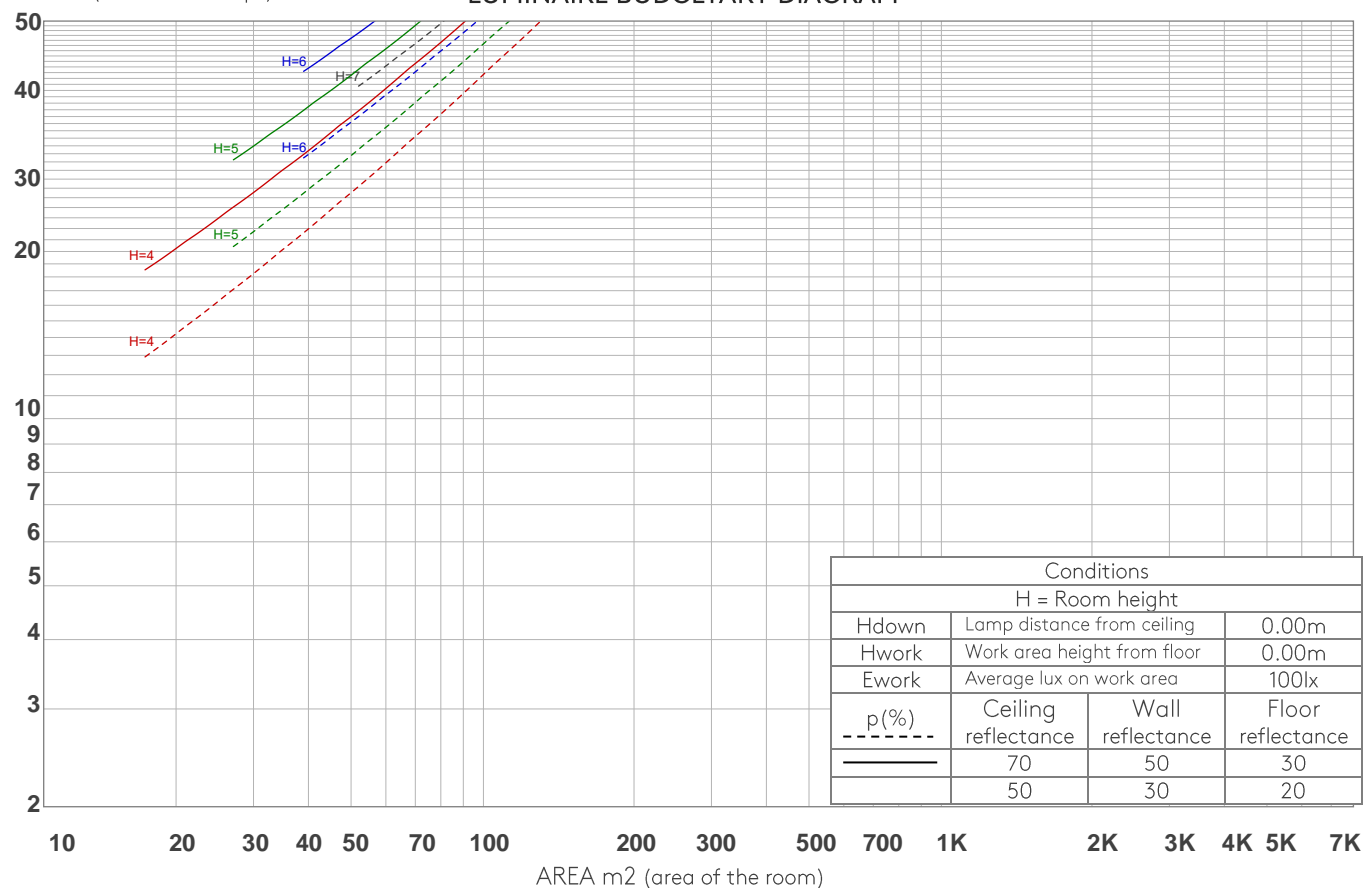
UGR data could not be calculated due to missing/wrong symmetry. Goto Edit->Photometric->Corrections and select Correct asymmetry.

## 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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	100	94	89	84	95	89	85	80	81	77	73	73	70	67	65	63	61	57
2	90	80	72	66	85	76	69	63	69	63	58	62	57	53	56	52	49	45
3	81	70	61	53	77	66	58	51	60	53	47	54	48	44	48	44	40	37
4	74	61	52	44	70	58	49	43	53	45	40	47	41	37	43	38	34	31
5	68	54	45	38	64	52	43	36	47	39	34	42	36	31	38	33	29	26
6	62	48	39	32	59	46	38	31	42	35	29	38	32	27	34	29	25	22
7	58	44	35	28	54	42	33	27	38	31	26	34	28	24	31	26	22	20
8	53	40	31	25	51	38	30	24	35	28	23	32	25	21	29	23	20	17
9	50	36	28	22	47	35	27	22	32	25	20	29	23	19	26	21	18	15
10	47	33	25	20	44	32	24	19	29	23	18	27	21	17	24	19	16	14

LAMPS (number of lamps)

## LUMINAIRE BUDGETARY DIAGRAM



## ZONAL LUMEN SUMMARY

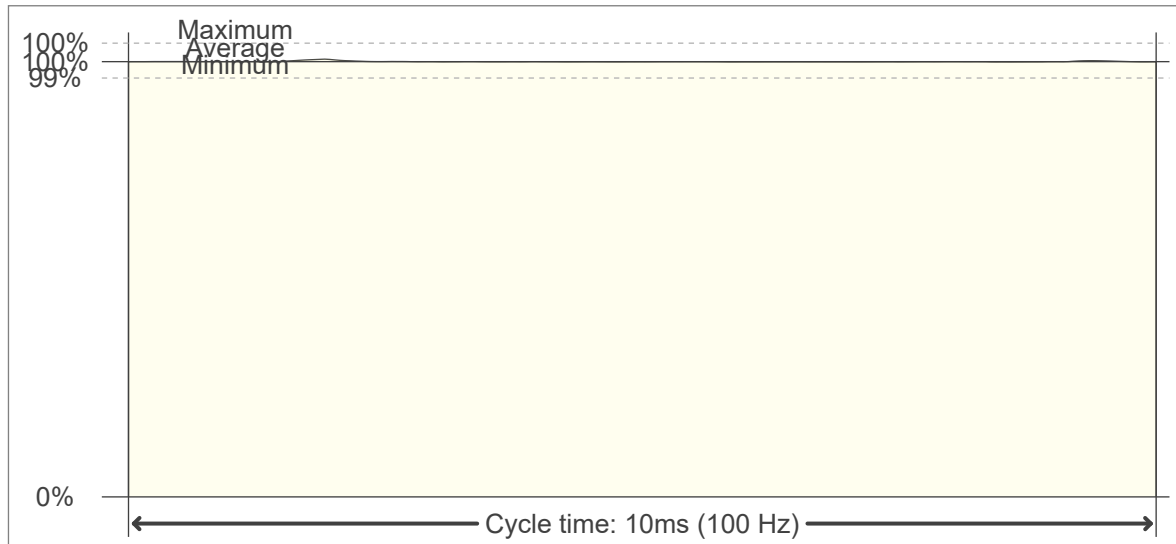
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
7.63 lm	22.2 lm	34.3 lm	43.0 lm	47.5 lm	47.9 lm	44.8 lm	39.3 lm	32.6 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
27.6 lm	23.0 lm	18.3 lm	13.8 lm	9.24 lm	4.84 lm	1.90 lm	0.390 lm	0.083 lm

## FLICKER

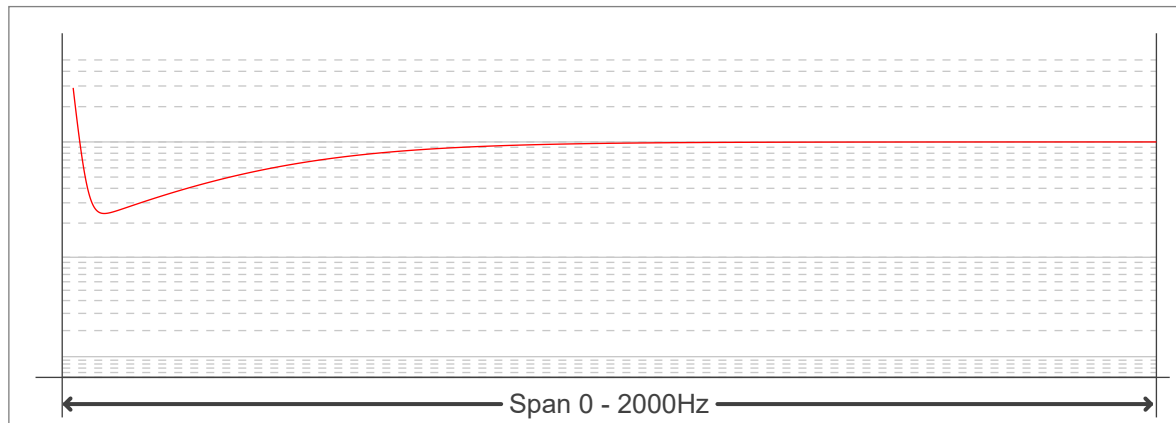
## FLICKER CURVE (COMPLETE SAMPLED)



## FLICKER FRAME (FRAME OF ONE FLICKER)



## FLICKER FFT (FREQUENCY SCOPE OF FLICKER)



## FLICKER RESULTS:

Flicker frequency:	100 Hz
Flicker index:	0
Flicker percentage:	0.57 %
SVM: (Visual flicker)	0

## FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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