

Light efficiency:

94 Lumen/Watt

Light quality:

CRI: 82,4

Color temperature:

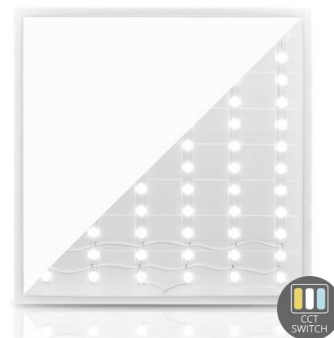
5000 K

Output: 1387 lm

Peak: 470 cd

Power: 14,7 W

PF: 0,95



Tracking number: [VT240920-004429](#)

Product name:

272125-5000K

Item number:

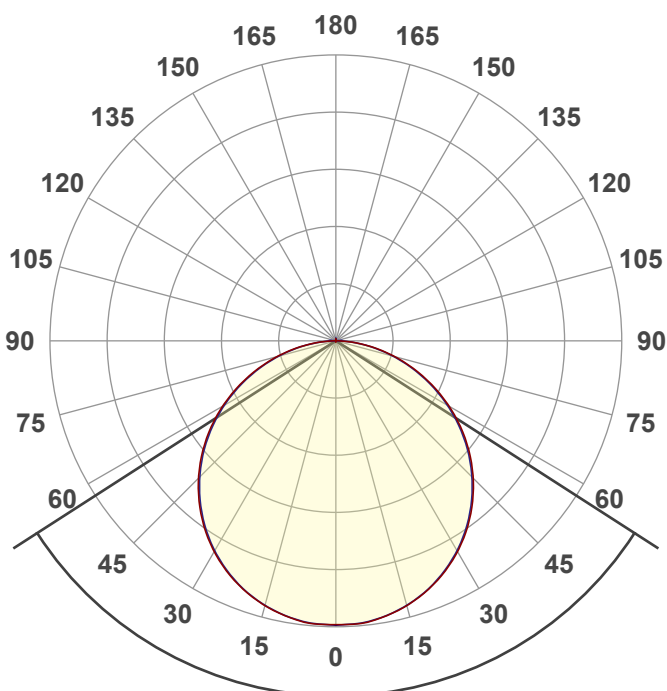
272125-5000K

Date and time:

20-9-2024 15:54:00

Description:

BACK-LIT LED PANEEL | LEDA |
30X30CM | 15W | CCT-SWITCH



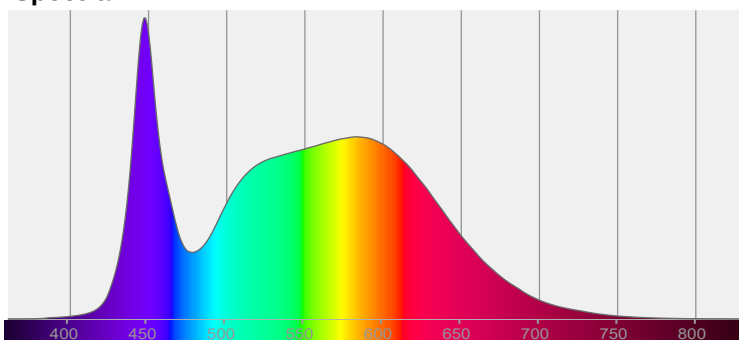
Beam angle

114,5°

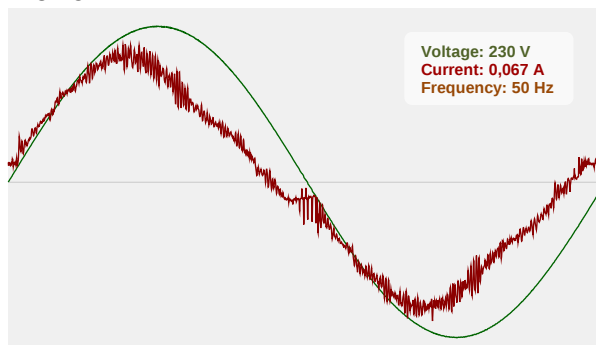


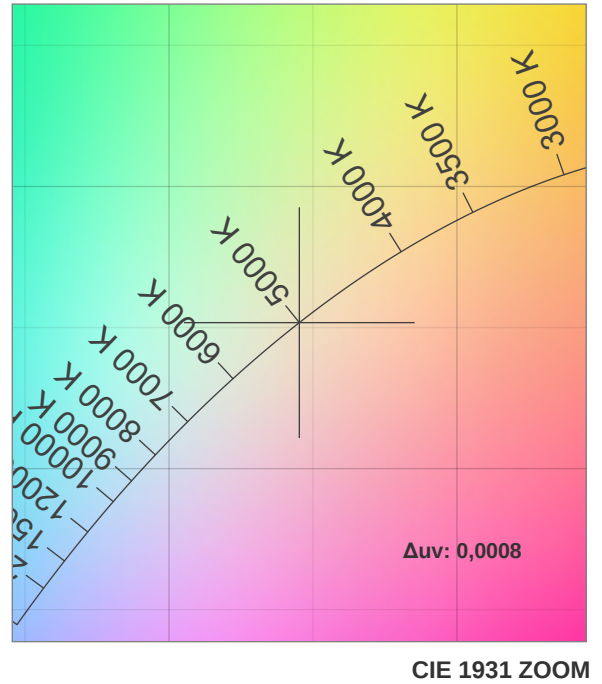
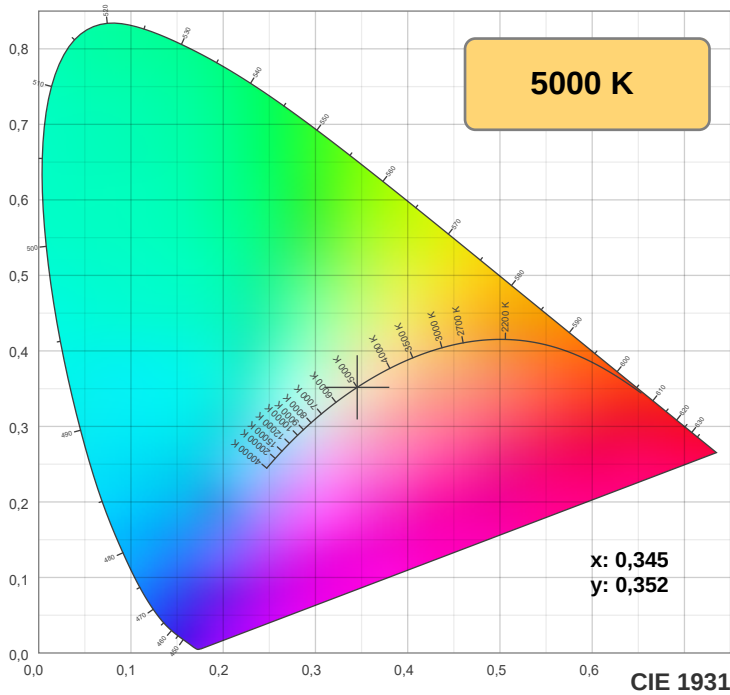
CIE 1931
x: 0,345
y: 0,352

Spectra

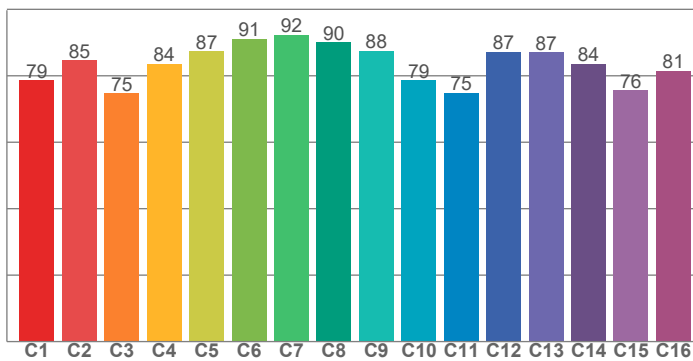


Power

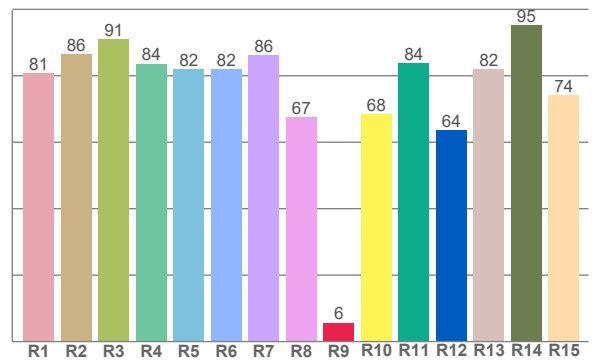




TM-30: 83,3



CRI: 82,4 (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
80,9	86,4	90,9	83,6	81,9	81,9	86,2	67,4	5,7	68,4	83,9	63,7	82,1	95,1	74,2

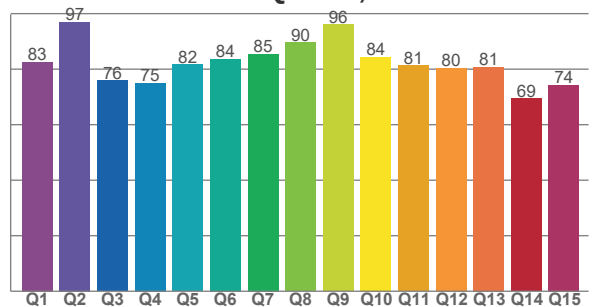
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78,6	84,7	74,8	83,6	87,4	91,1	92,4	90,1	87,5	78,7	74,9	87,2	87,1	83,7	75,6	81,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,6	96,9	75,9	75,0	81,7	83,7	85,4	89,7	96,1	84,3	81,3	80,4	80,7	69,5	74,4

CQS: 81,0



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
5000 K	82,4	5,7	83,3	97,6	81,0	0,345	0,352	0,211	0,323	0,0008

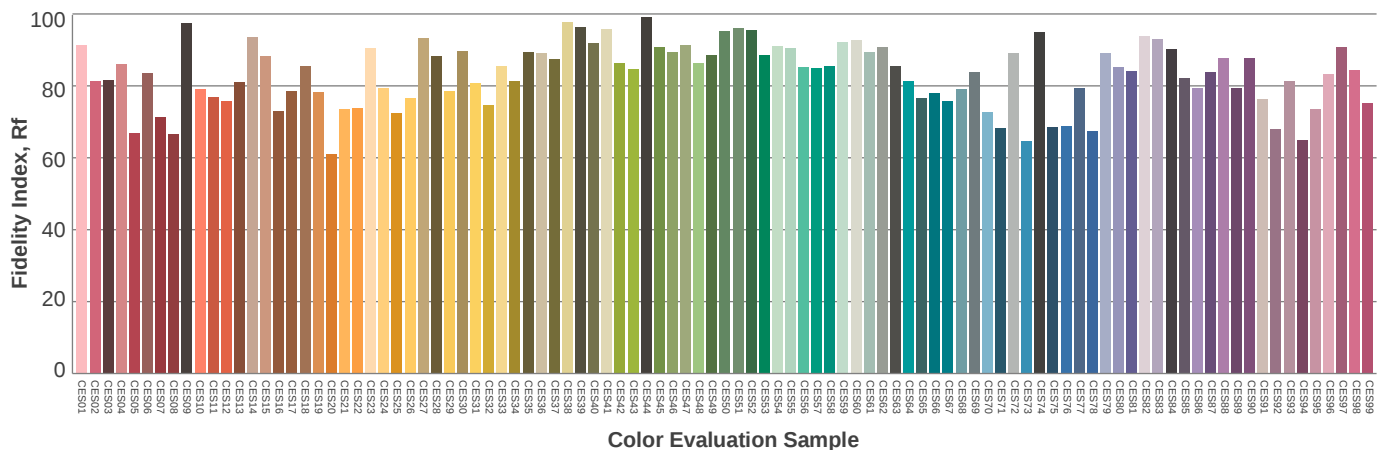
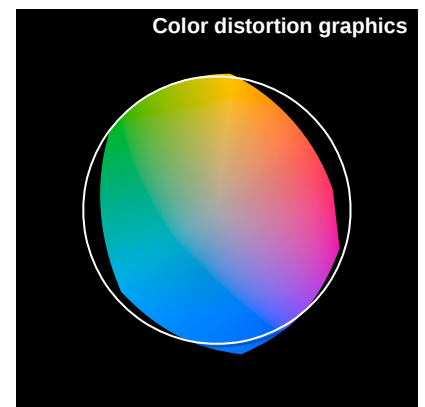
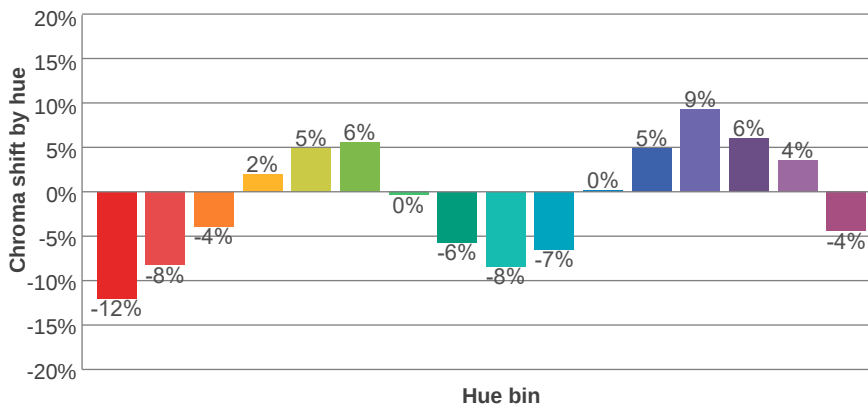
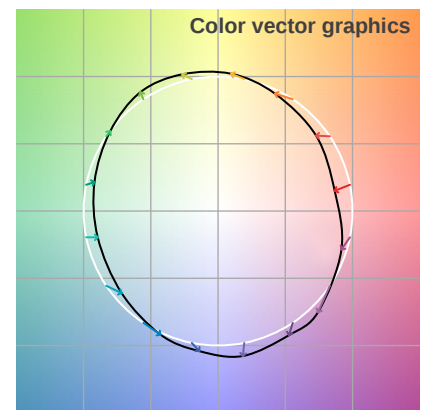
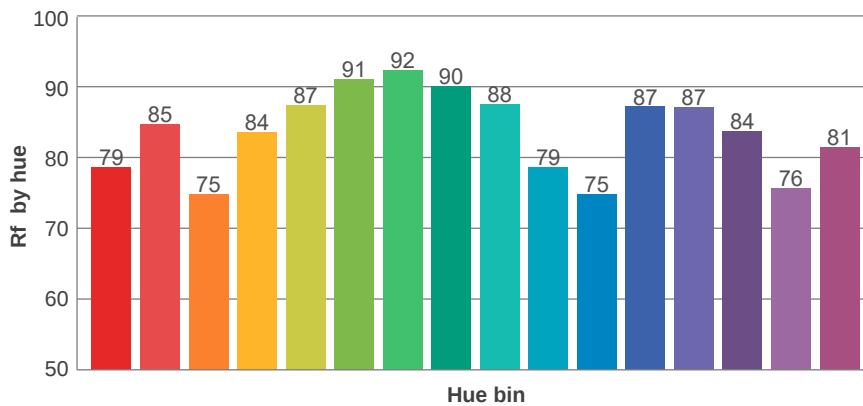
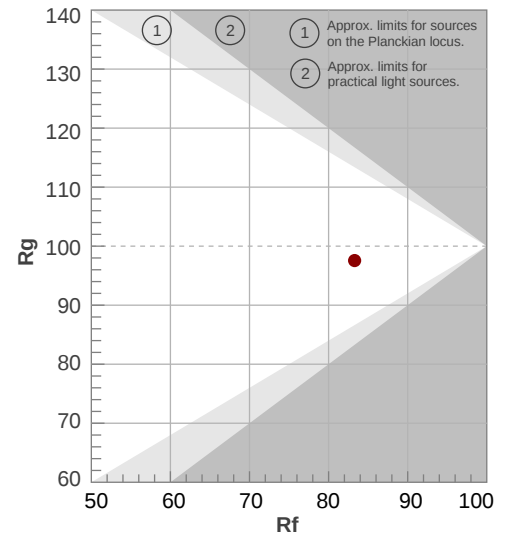
Rf 83,3

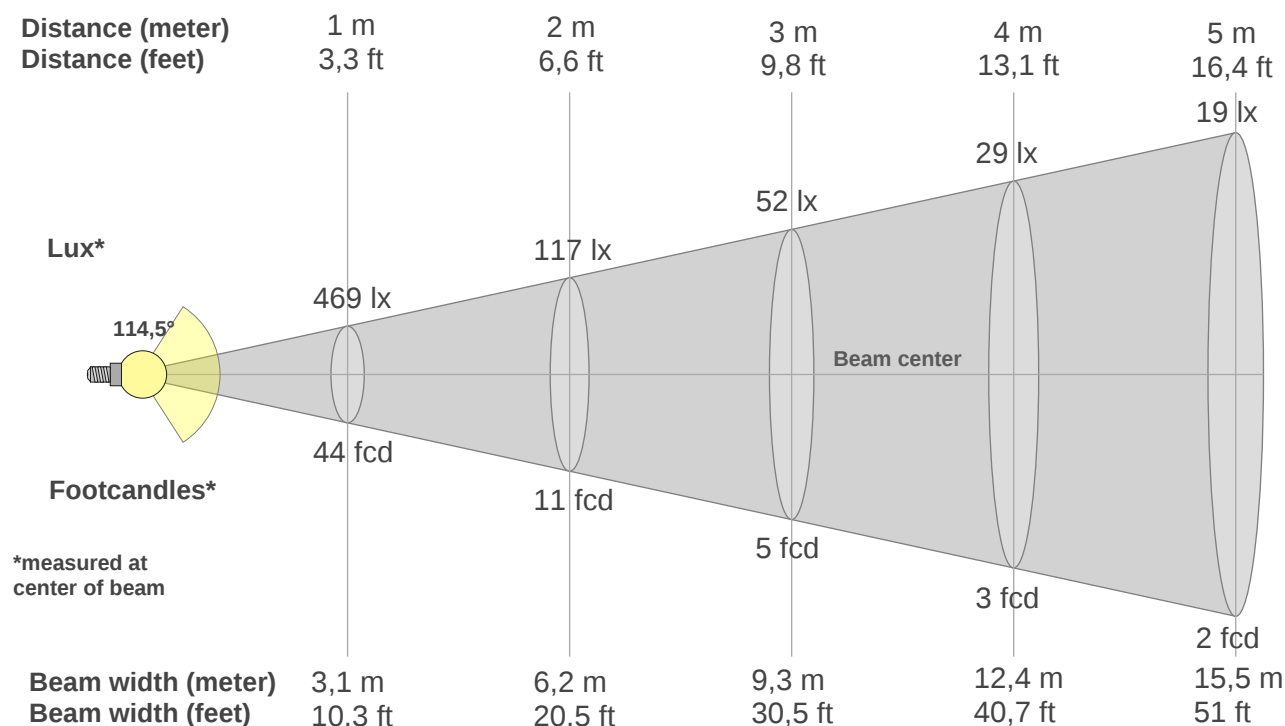
Fidelity index Rf

Rg 97,6

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	79	-12%	-2%
2	85	-8%	6%
3	75	-4%	13%
4	84	2%	10%
5	87	5%	6%
6	91	6%	-1%
7	92	0%	-5%
8	90	-6%	-3%
9	88	-8%	2%
10	79	-7%	11%
11	75	0%	15%
12	87	5%	7%
13	87	9%	-3%
14	84	6%	-7%
15	76	4%	-21%
16	81	-4%	-10%




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
469lx	117lx	52lx	29lx	19lx	13lx	10lx	7lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx
43,6fcd	10,9fcd	4,8fcd	2,7fcd	1,7fcd	1,2fcd	0,9fcd	0,7fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
469	468	462	452	439	422	401	378	350	320	288	253	216	177	139	101	64	30	6	0
100%	100%	98%	96%	94%	90%	86%	80%	75%	68%	61%	54%	46%	38%	30%	21%	14%	6%	1%	0%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
469	467	461	452	438	421	400	375	348	317	285	249	212	174	136	98	61	28	5	0
100%	100%	98%	96%	93%	90%	85%	80%	74%	68%	61%	53%	45%	37%	29%	21%	13%	6%	1%	0%

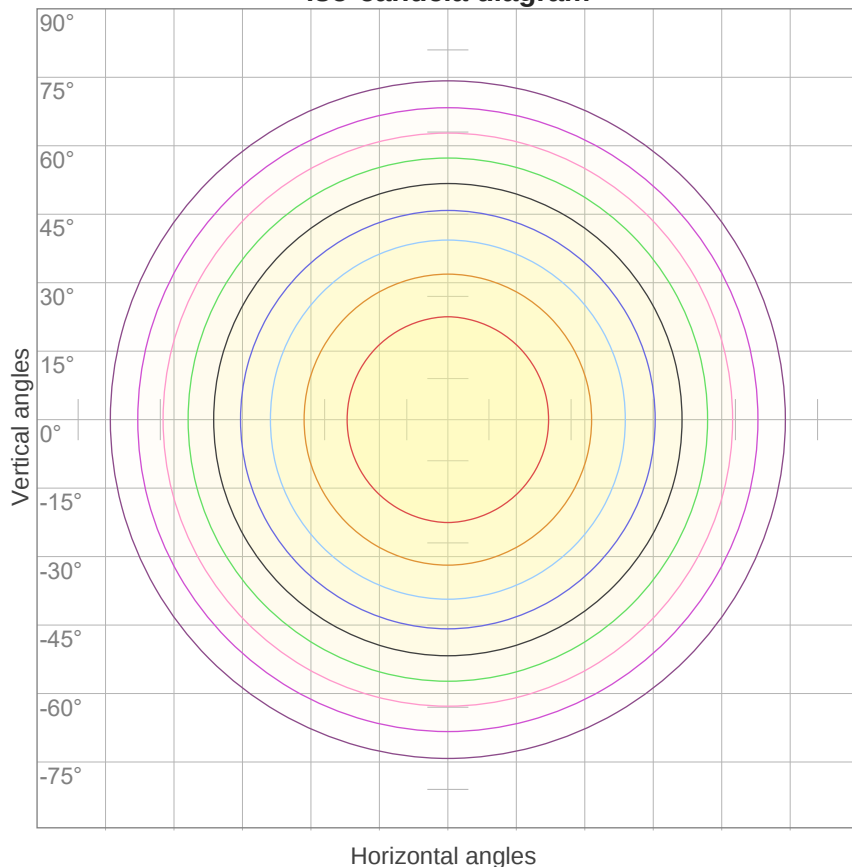
Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
469	468	462	452	439	422	401	378	350	320	288	253	216	177	139	101	64	30	6	0
100%	100%	98%	96%	94%	90%	86%	80%	75%	68%	61%	54%	46%	38%	30%	21%	14%	6%	1%	0%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
469	467	461	452	438	421	400	375	348	317	285	249	212	174	136	98	61	28	5	0
100%	100%	98%	96%	93%	90%	85%	80%	74%	68%	61%	53%	45%	37%	29%	21%	13%	6%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,5°	164,5°	176,7°	77,3%	52,3%

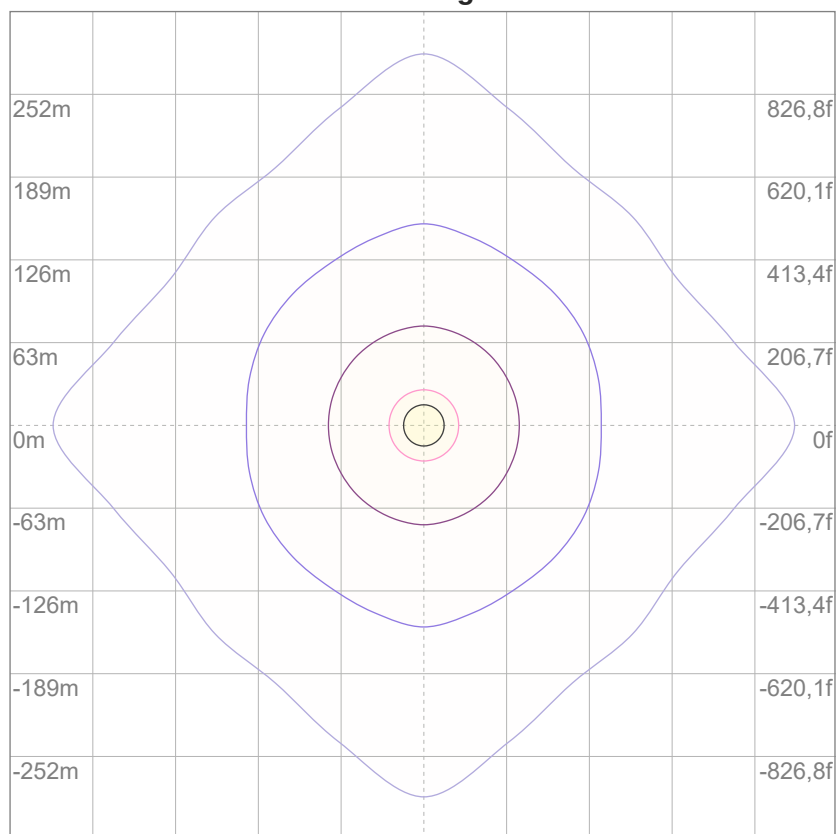
iso-candela diagram


10%	47 cd
20%	94 cd
30%	141 cd
40%	188 cd
50%	235 cd
60%	282 cd
70%	328 cd
80%	375 cd
90%	422 cd

Conditions:

Number of c-planes: 12

Candela at center: 469 cd

iso-lux diagram


3%	0,141 lx
5%	0,235 lx
10%	0,469 lx
30%	1,41 lx
50%	2,35 lx

Conditions:

Number of c-planes: 12

Lux at center: 4,69 lx

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

Glare evaluation according to UGR

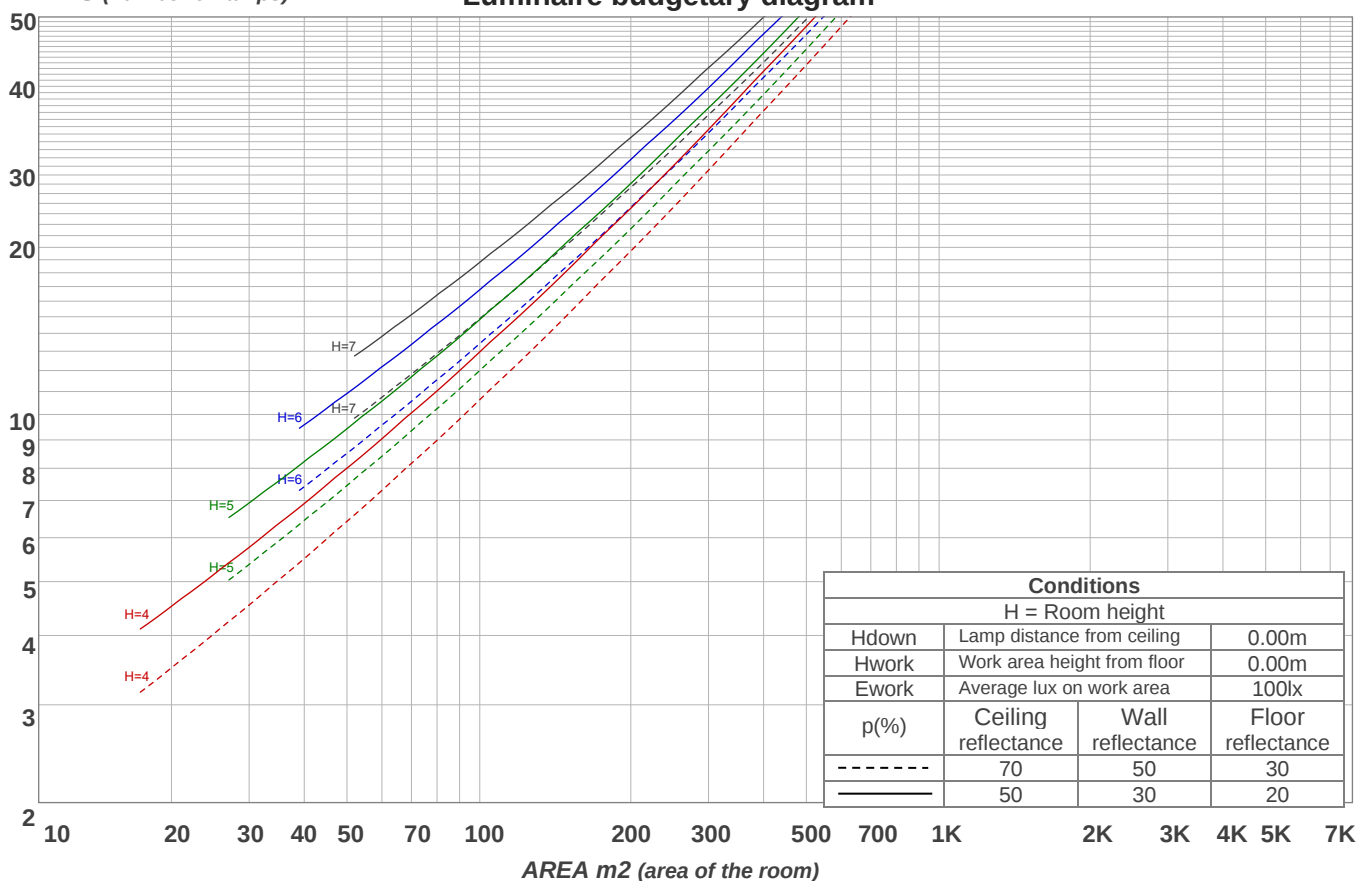
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	19,1	20,3	19,3	20,7	20,9	19,0	20,3	19,3	20,6	20,8
	3H	20,6	21,9	21,0	22,2	22,4	20,5	21,8	20,9	22,1	22,3
	4H	21,3	22,5	21,7	22,8	23,0	21,2	22,4	21,6	22,7	22,9
	6H	21,8	22,9	22,2	23,2	23,6	21,7	22,8	22,0	23,1	23,5
	8H	22,0	23,1	22,4	23,4	23,8	21,9	22,9	22,2	23,2	23,6
	12H	22,1	23,1	22,5	23,5	23,9	21,9	23,0	22,3	23,3	23,8
4H	2H	19,7	20,9	20,1	21,2	21,5	19,6	20,9	20,1	21,2	21,4
	3H	21,5	22,5	21,9	22,9	23,3	21,4	22,5	21,8	22,8	23,3
	4H	22,2	23,2	22,7	23,6	24,1	22,1	23,1	22,6	23,5	24,0
	6H	22,9	23,8	23,4	24,1	24,5	22,7	23,6	23,2	24,0	24,4
	8H	23,1	23,9	23,6	24,3	24,7	22,9	23,8	23,5	24,1	24,5
	12H	23,2	23,9	23,7	24,3	24,8	23,1	23,8	23,6	24,2	24,7
8H	4H	22,5	23,3	23,0	23,7	24,1	22,4	23,3	22,9	23,6	24,0
	6H	23,3	23,9	23,8	24,4	25,0	23,2	23,8	23,7	24,3	24,8
	8H	23,6	24,2	24,1	24,7	25,4	23,5	24,1	24,0	24,6	25,2
	12H	23,9	24,3	24,4	24,8	25,4	23,7	24,2	24,3	24,7	25,3
12H	4H	22,5	23,2	23,0	23,6	24,1	22,5	23,1	23,0	23,6	24,1
	6H	23,4	23,9	23,9	24,5	25,1	23,3	23,8	23,8	24,4	25,0
	8H	23,7	24,2	24,3	24,7	25,3	23,6	24,1	24,2	24,6	25,2
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,1					0,1 / -0,1				
S = 1.5H		0,1 / -0,2					0,1 / -0,2				
S = 2.0H		0,4 / -0,4					0,4 / -0,5				
CIE 117-1995. Corrected glare indices referring to 1387 lm total luminous flux											

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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

LAMPS (number of lamps)

Luminaire budgetary diagram



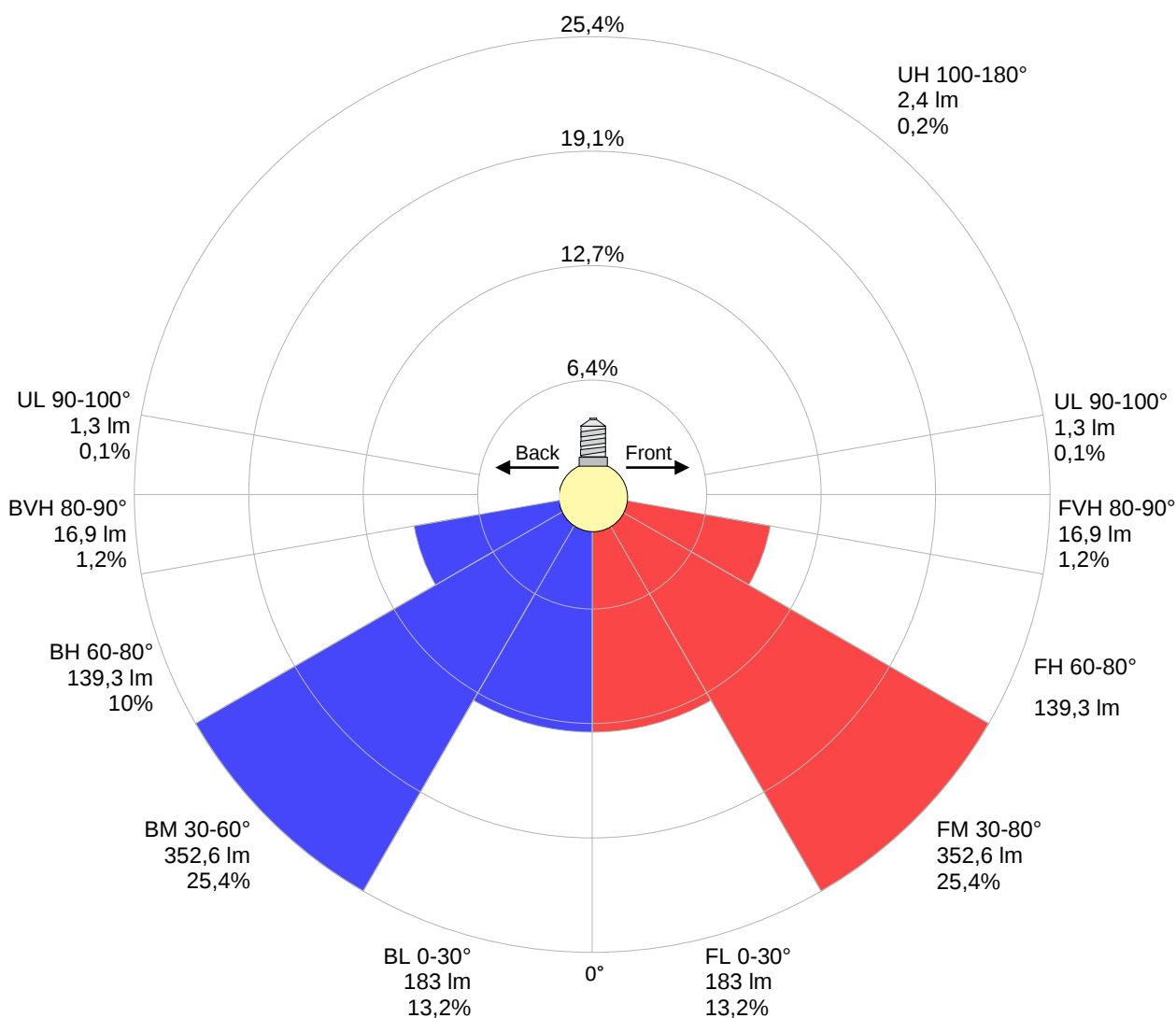
Zonal Lumen Summary

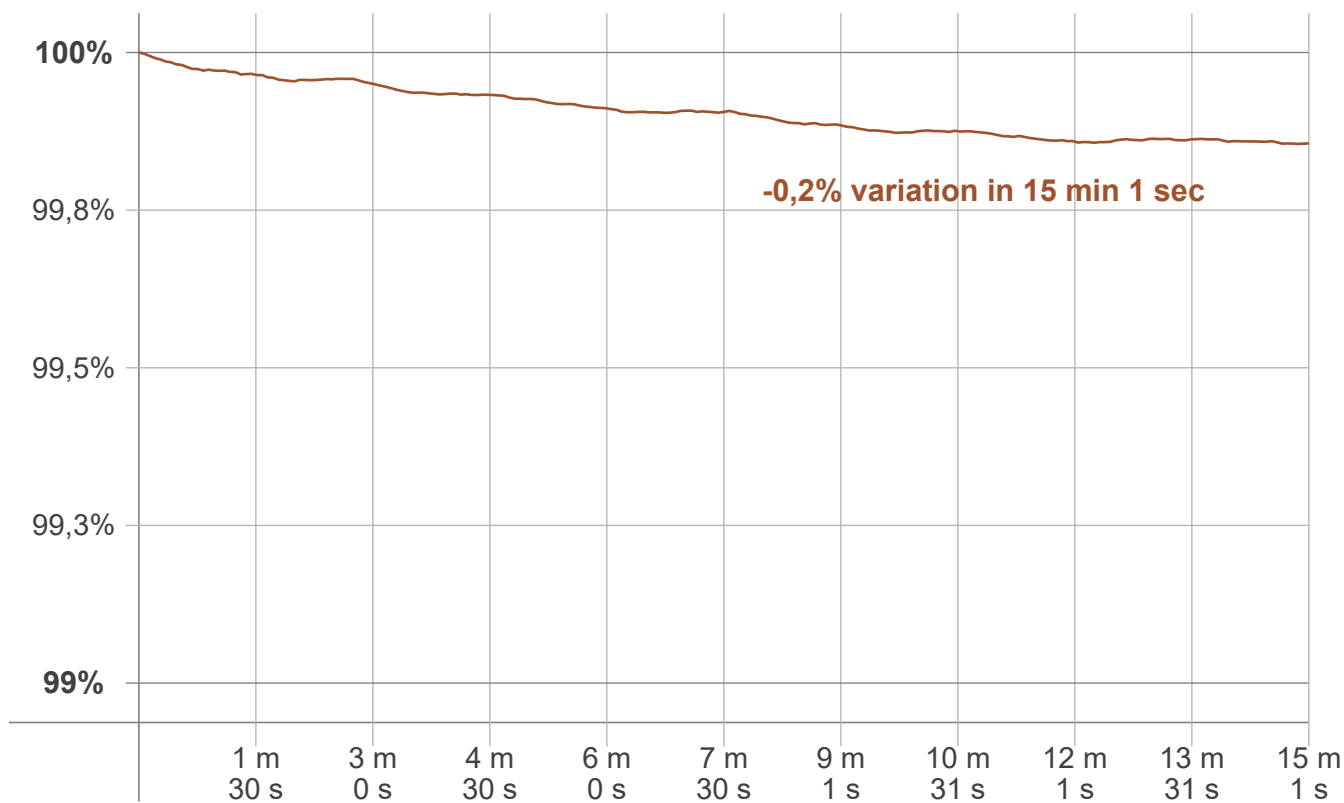
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	128 lm	194 lm	236 lm	246 lm	224 lm	174 lm	105 lm	32,7 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,677 lm	0,346 lm	0,370 lm	0,412 lm	0,406 lm	0,368 lm	0,284 lm	0,192 lm	0,067 lm

LCS table

BUG rating:	B1 U1 G1	
Forward light	Lumens	Lumens %
Low(0-30):	183	13,2%
Medium(30-60):	352,6	25,4%
High(60-80):	139,3	10%
Very high(80-90):	16,9	1,2%
Back light		
Low(0-30):	183	13,2%
Medium(30-60):	352,6	25,4%
High(60-80):	139,3	10%
Very high(80-90):	16,9	1,2%
Uplight		
Low(90-100):	1,3	0,1%
High(100-180):	2,4	0,2%

LCS graph



Warmup curve

Warmup result

Warmup time:	Lamp stabilized in 15 min 1 sec
Warmup variation	-0,2%

Warmup conditions

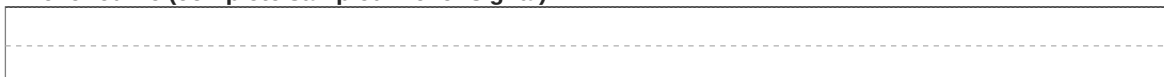
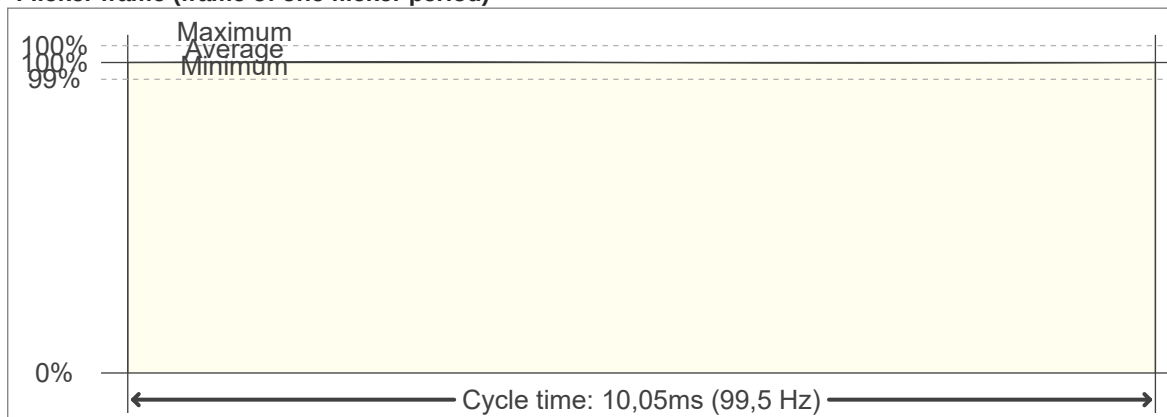
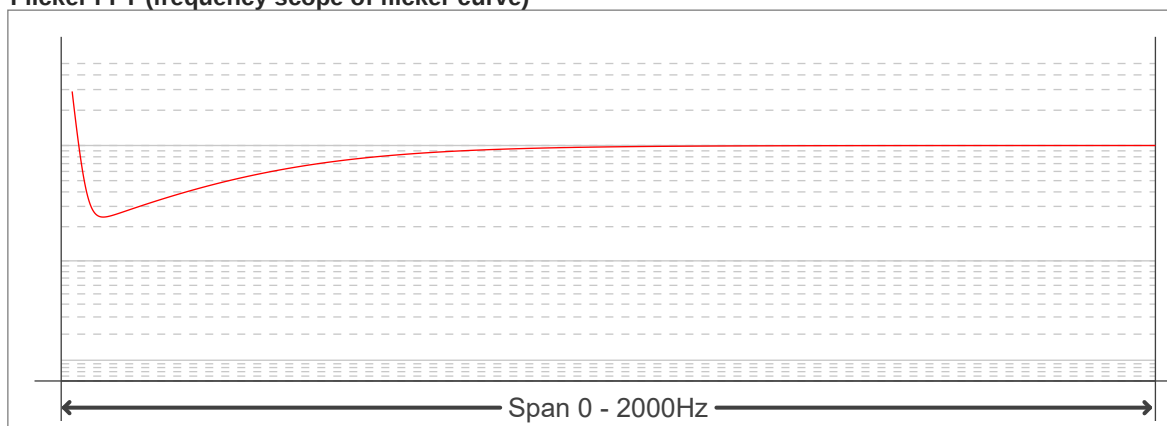
Stable period:	15 min
Stable change max:	2,0%
Minimum time:	15 min

Color temperature change

CCT start	CCT change	CCT end
4996 K	+4 K	5000 K

Output change

Output start	Output change	Output end
1389 lm	-2 lm	1387 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:		99,5 Hz	
Flicker index:	0	JA8/10 40Hz	0,02 %
Flicker percentage:	0,29 %	JA8/10 90Hz	0,03 %
SVM: (Visual flicker)	0,01	JA8/10 200Hz	0,28 %
PstLM	0,02	JA8/10 400Hz	0,28 %
Mp	0,01	JA8/10 1000Hz	0,29 %

Flicker conditions:

Sample rate:	20000 samples/second
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