

Light efficiency:



Light quality:



Color temperature:

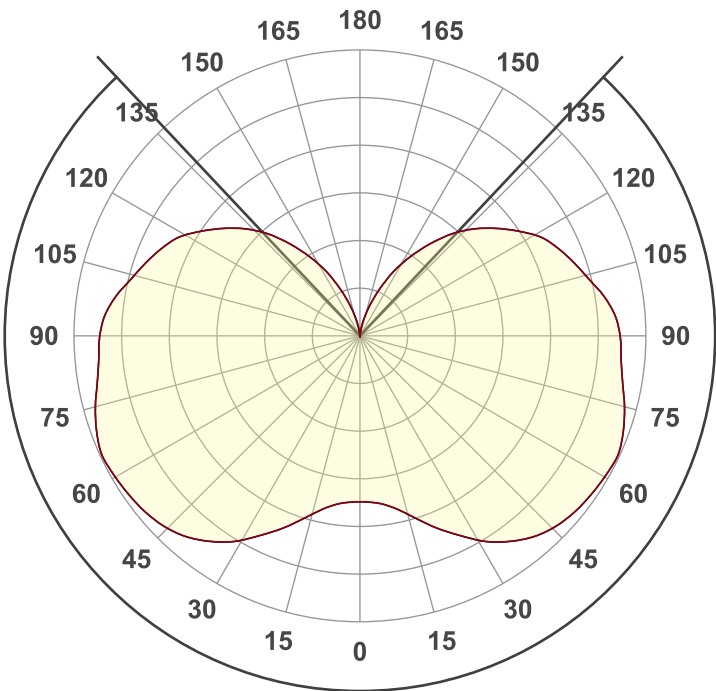


Output: 3945 lm

Peak: 405 cd

Power: 30.2 W

PF: 0.99



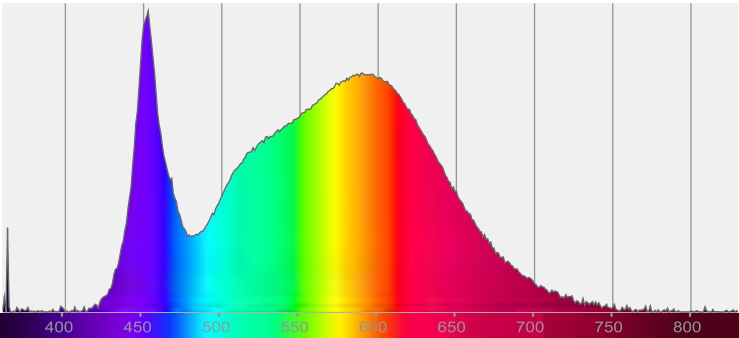
Beam angle **273.5°**



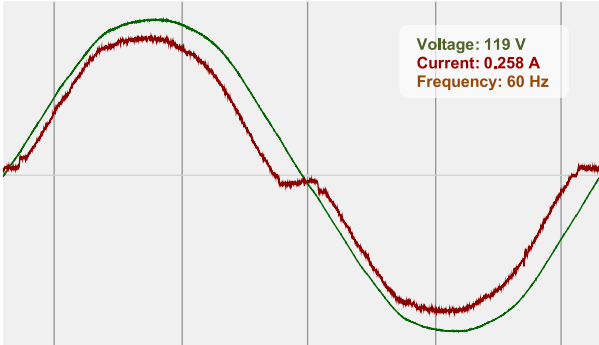
CIE 1931
x: 0.374
y: 0.375

Product name:
CL-NW30
Item number:
CL-NW30
Date and time:
2/28/2019 12:24:33 PM
Description:
4000K
30 Watts
E26 Base

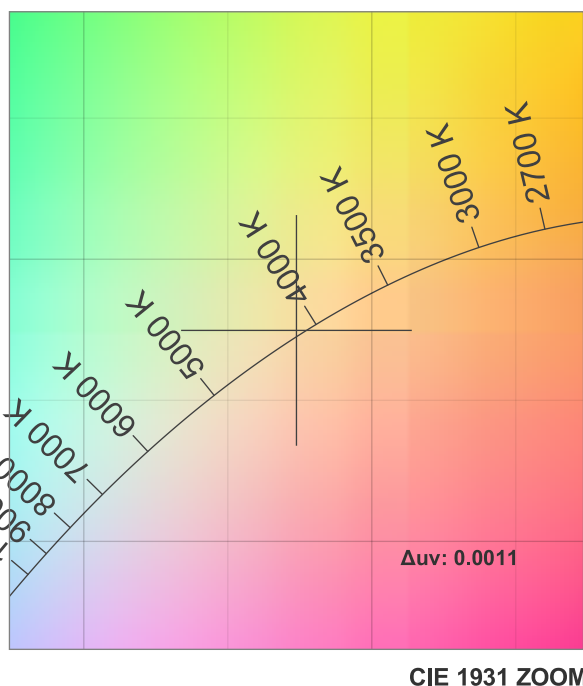
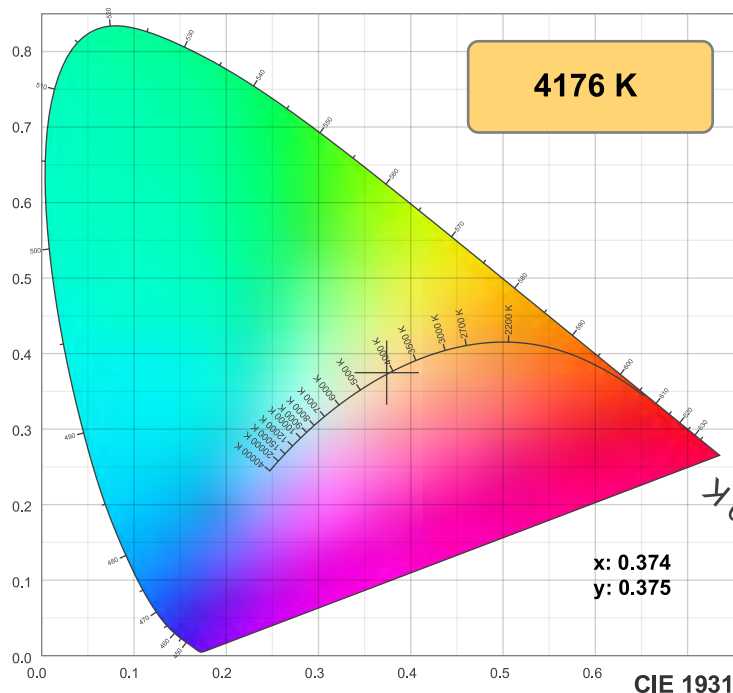
Spectra



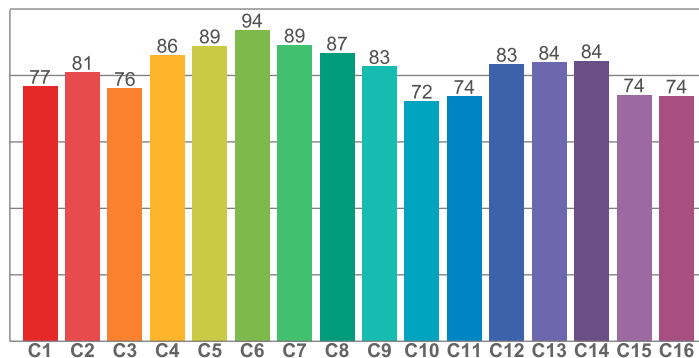
Power



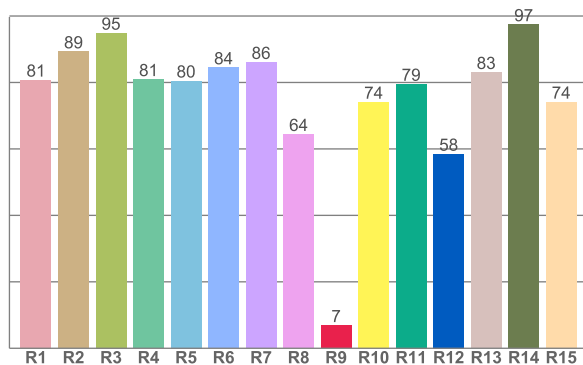
Color details



TM30: 81.4



CRI: 82.6 (R1-R8)



CRIR 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
80.7	89.3	94.9	80.9	80.5	84.5	86.1	64.4	6.9	74.1	79.5	58.4	83.0	97.4	74.1

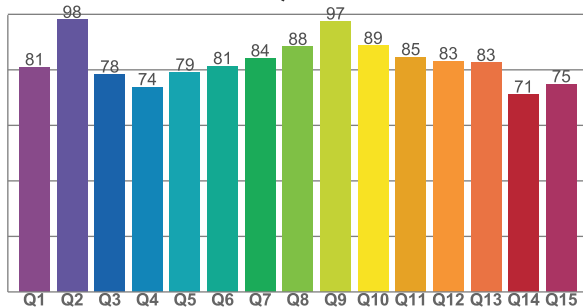
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
76.7	80.9	76.1	86.1	88.9	93.7	89.1	86.7	82.7	72.3	73.7	83.4	83.9	84.4	74.2	73.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81.0	98.1	78.4	73.8	79.1	81.4	84.2	88.3	97.5	88.7	84.6	83.1	82.6	71.1	74.9

CQS: 81.5



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
4176 K	82.6	6.9	81.4	94.3	81.5	0.374	0.375	0.222	0.333	0.0011



T 314.743.3067

F 314.972.6202

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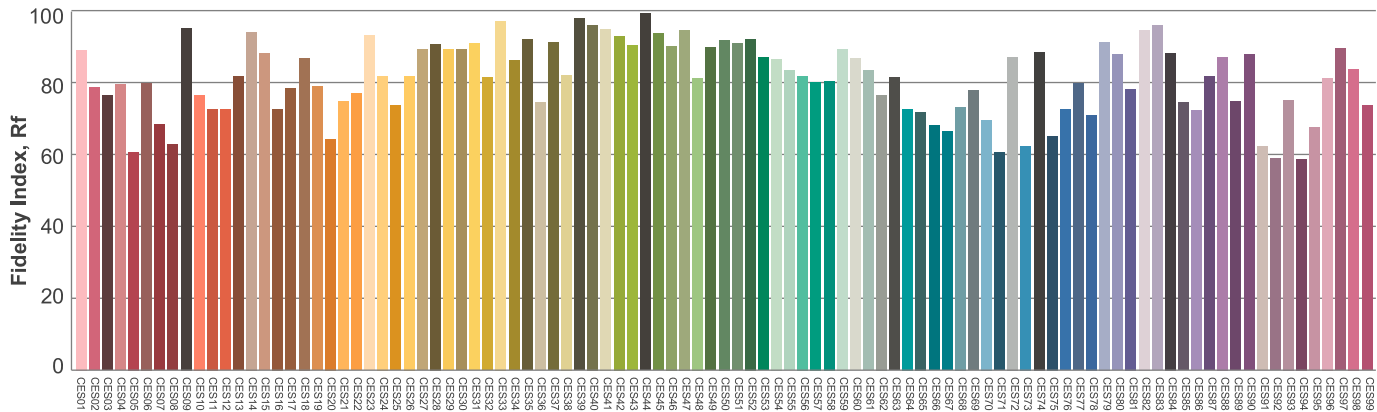
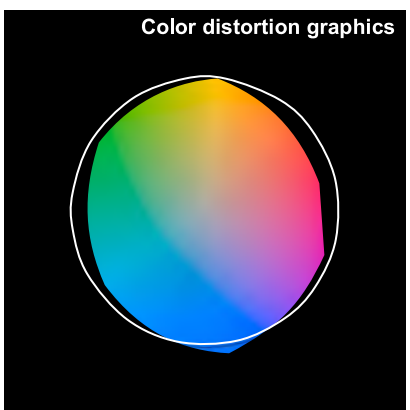
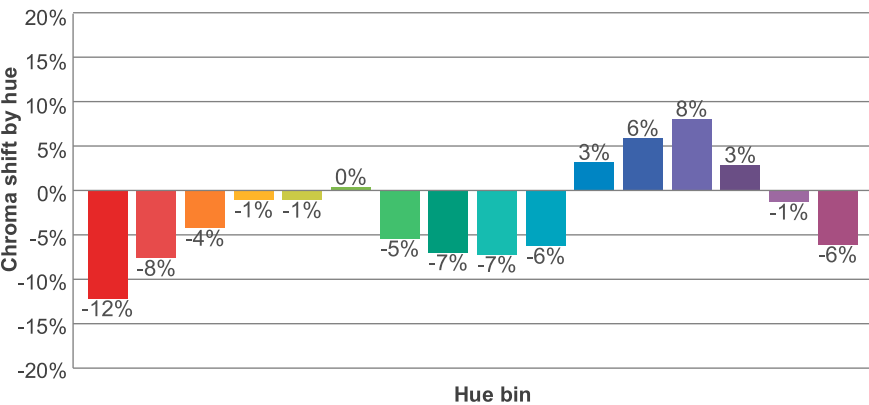
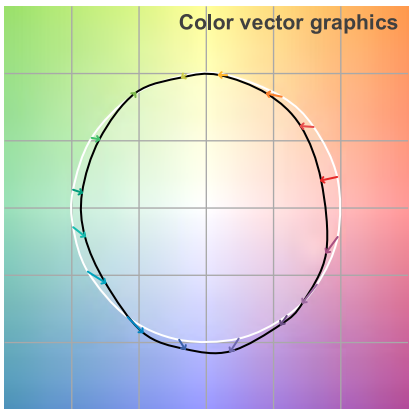
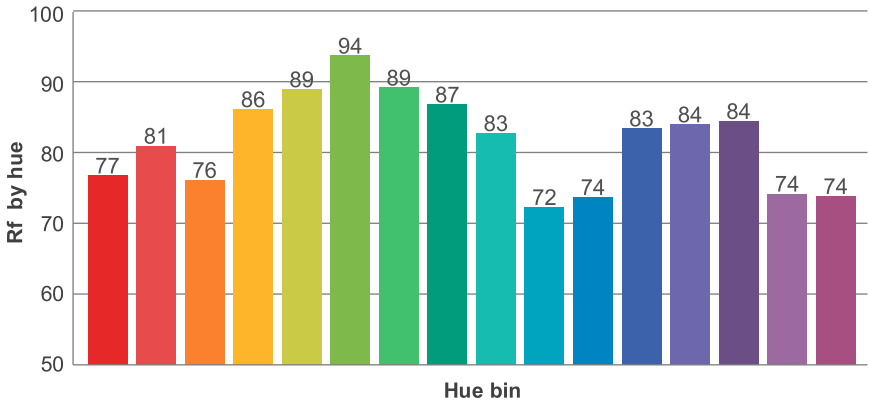
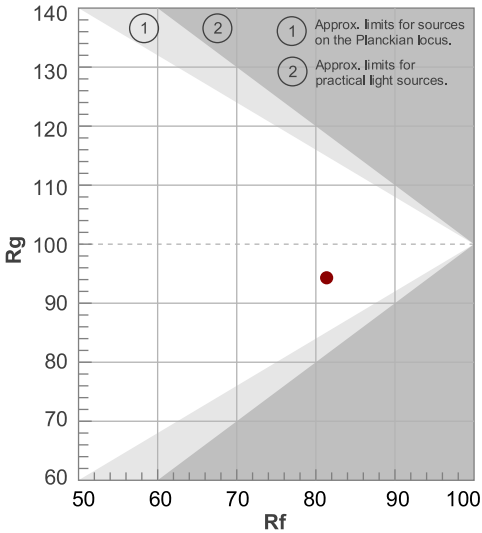
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TM30 details

Rf 81.4

Rg 94.3
Gammut index Rg

Hue Bin	R _i	Graphic shifts (%)	
		Chroma	Hue
1	77	-12%	0%
2	81	-8%	6%
3	76	-4%	11%
4	86	-1%	6%
5	89	-1%	3%
6	94	0%	-2%
7	89	-5%	-2%
8	87	-7%	1%
9	83	-7%	8%
10	72	-6%	14%
11	74	3%	16%
12	83	6%	6%
13	84	8%	-8%
14	84	3%	-7%
15	74	-1%	-17%
16	74	-6%	-13%

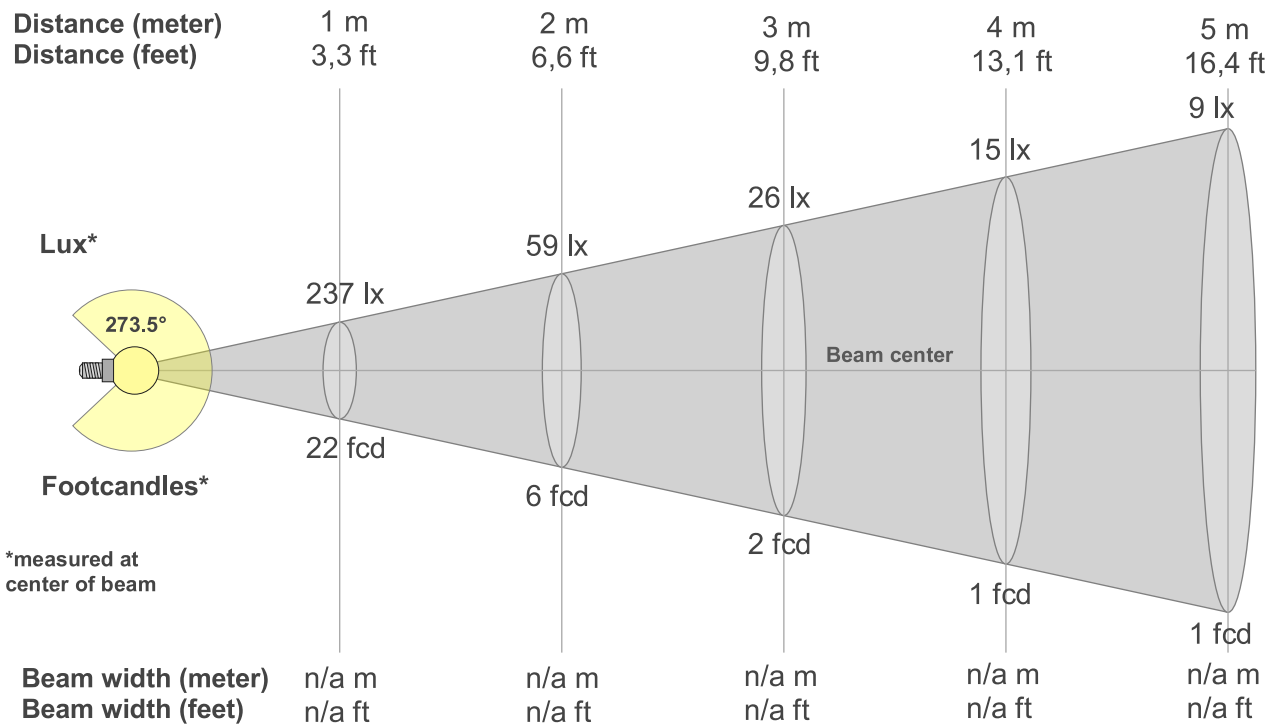


Color Evaluation Sample



Beam details

Distance (meter)
Distance (feet)



*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
237lx	59lx	26lx	15lx	9lx	7lx	5lx	4lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx
22fcd	5.5fcd	2.4fcd	1.4fcd	0.9fcd	0.6fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
273.5°	326.3°	342°	28.5%	15.5%



T 314.743.3067

F 314.972.6202

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UGR

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	26.5	27.6	27.3	28.4	29.4	26.5	27.6	27.3	28.4	29.4
	3H	29.7	30.7	30.6	31.6	32.6	29.7	30.7	30.6	31.6	32.6
	4H	31.5	32.4	32.3	33.3	34.4	31.5	32.4	32.3	33.3	34.4
	6H	33.4	34.3	34.3	35.2	36.3	33.4	34.3	34.3	35.2	36.3
	8H	34.5	35.4	35.4	36.2	37.4	34.5	35.4	35.4	36.2	37.4
	12H	35.8	36.6	36.6	37.5	38.6	35.8	36.6	36.6	37.5	38.6
4H	2H	27.6	28.5	28.4	29.4	30.5	27.6	28.5	28.4	29.4	30.5
	3H	30.9	31.7	31.8	32.6	33.7	30.9	31.7	31.8	32.6	33.7
	4H	32.8	33.6	33.7	34.5	35.6	32.8	33.6	33.7	34.5	35.6
	6H	34.9	35.6	35.8	36.5	37.7	34.9	35.6	35.8	36.5	37.7
	8H	36.1	36.7	37.0	37.6	38.8	36.1	36.7	37.0	37.6	38.8
	12H	37.5	38.0	38.4	39.0	40.2	37.5	38.0	38.4	39.0	40.2
8H	4H	33.6	34.2	34.5	35.1	36.3	33.6	34.2	34.5	35.1	36.3
	6H	35.9	36.5	36.9	37.4	38.6	35.9	36.5	36.9	37.4	38.6
	8H	37.3	37.8	38.3	38.7	39.9	37.3	37.8	38.3	38.7	39.9
	12H	38.9	39.3	39.8	40.2	41.5	38.9	39.3	39.8	40.2	41.5
12H	4H	33.8	34.3	34.7	35.3	36.5	33.8	34.3	34.7	35.3	36.5
	6H	36.3	36.7	37.2	37.7	38.9	36.3	36.7	37.2	37.7	38.9
	8H	37.7	38.1	38.7	39.1	40.4	37.7	38.1	38.7	39.1	40.4
Variation of the observer position for the luminaire distance S											
S = 1.0H		+0.2 / -0.2					+0.2 / -0.2				
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3				
S = 2.0H		+0.5 / -0.5					+0.5 / -0.5				
Standard table		---					---				
Correction summand		---					---				
Corrected glare indices referring to 3945 lm total luminous flux											



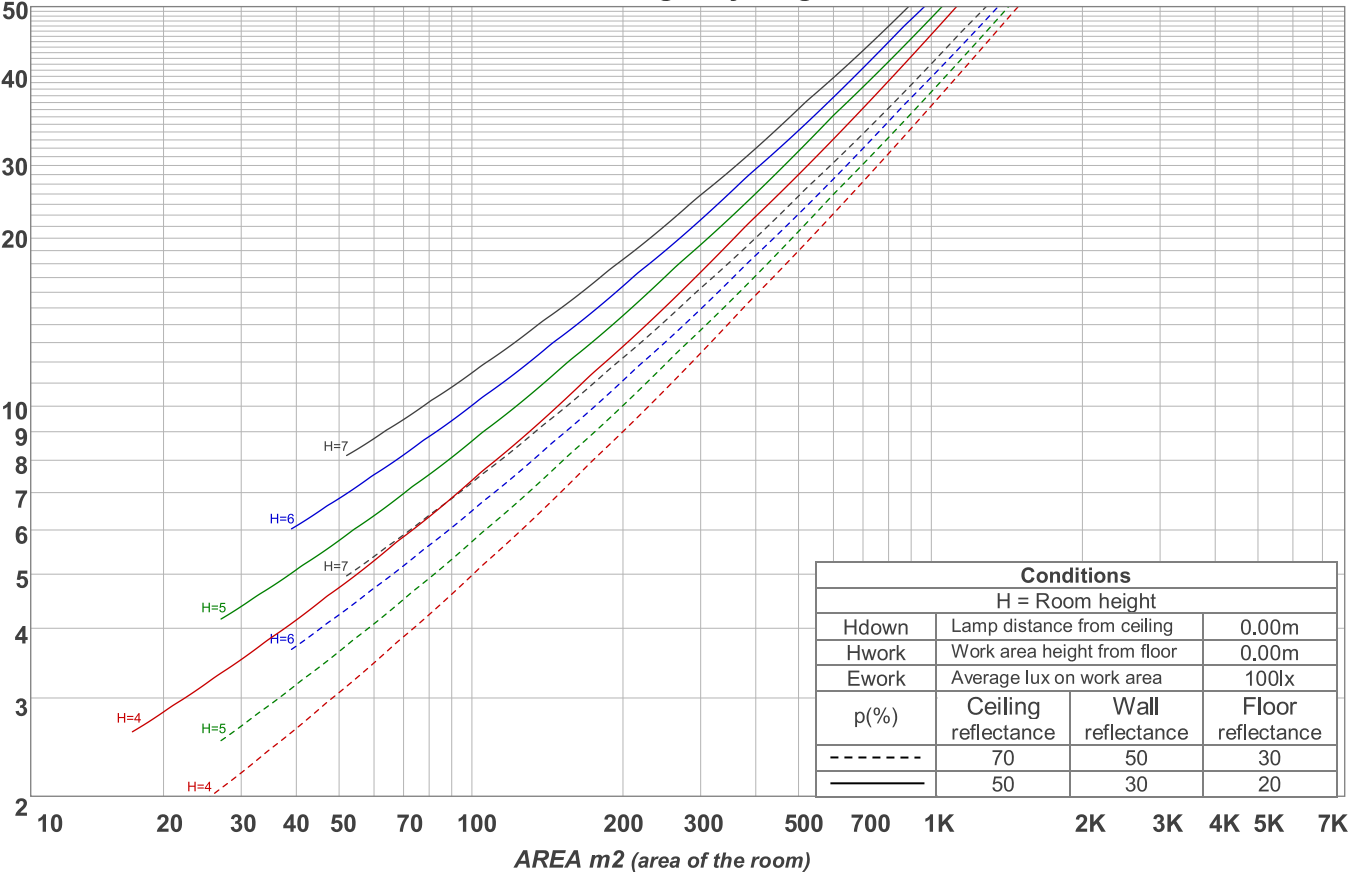
Light planning

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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	59
1	95	88	82	77	88	82	76	72	70	66	62	59	56	53	49	47	44	39
2	84	74	66	58	77	69	61	55	58	52	47	49	44	40	40	37	33	29
3	75	63	54	46	69	59	50	43	50	43	37	42	36	32	34	30	26	22
4	68	55	45	38	63	51	42	35	43	36	30	36	30	26	29	25	21	17
5	62	48	39	31	57	45	36	29	38	31	25	32	26	21	26	21	17	14
6	57	43	33	26	52	40	31	25	34	27	21	28	22	18	23	18	15	12
7	52	38	29	23	48	36	27	21	30	23	18	25	20	15	21	16	13	10
8	48	35	26	20	45	32	24	18	27	21	16	23	17	13	19	14	11	9
9	45	31	23	17	41	29	21	16	25	18	14	21	16	12	17	13	10	7
10	42	29	21	15	39	27	19	14	23	17	12	19	14	10	16	12	9	6

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°
23.0 lm	75.5 lm	145 lm	225 lm	300 lm	358 lm	400 lm	412 lm	408 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
395 lm	353 lm	303 lm	237 lm	165 lm	95.1 lm	40.6 lm	9.82 lm	0.524 lm

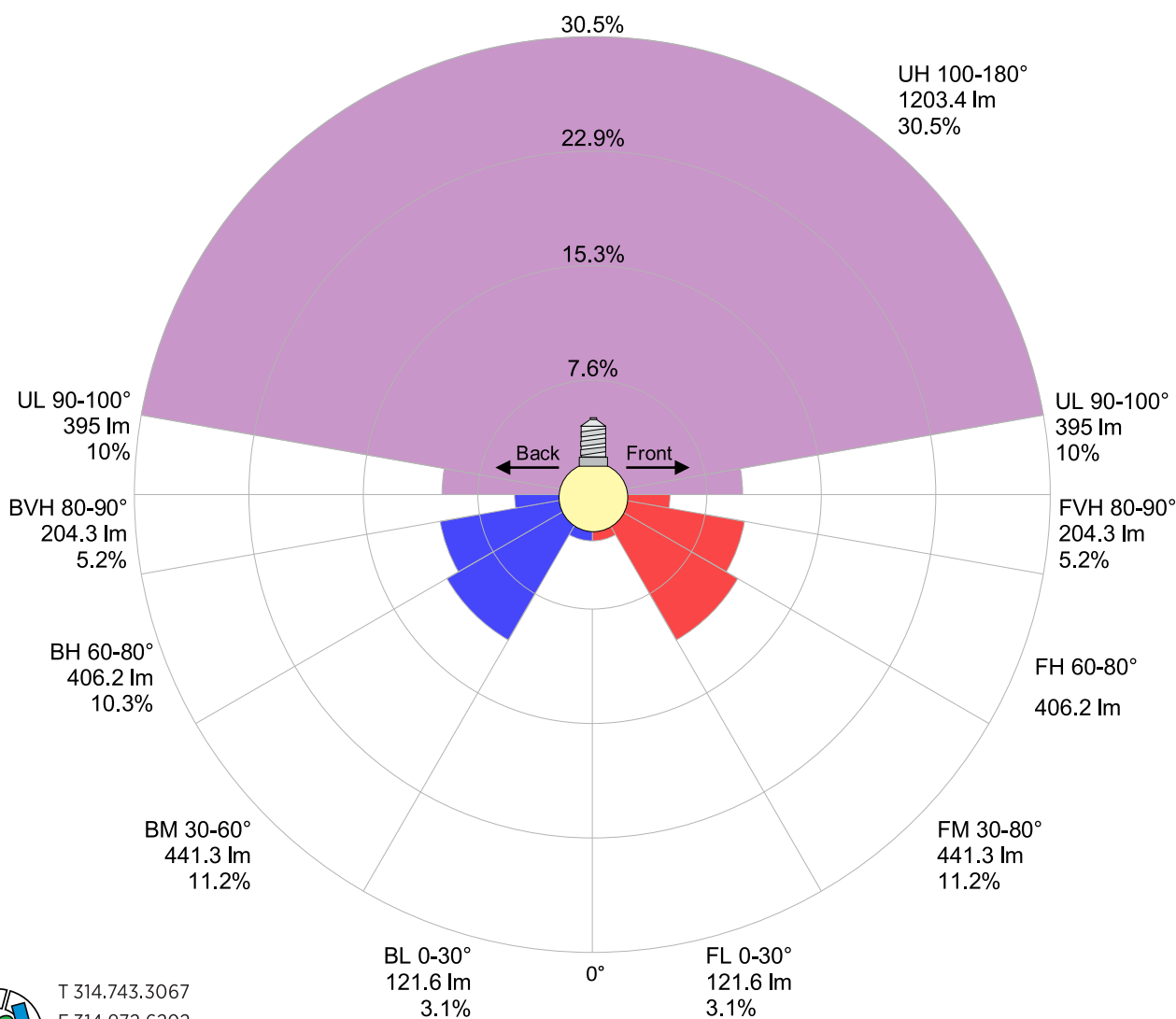


Road report

LCS table

BUG rating:	B1 U5 G2	
Forward light	Lumens	Lumens %
Low(0-30):	121.6	3.1%
Medium(30-60):	441.3	11.2%
High(60-80):	406.2	10.3%
Very high(80-90):	204.3	5.2%
Back light		
Low(0-30):	121.6	3.1%
Medium(30-60):	441.3	11.2%
High(60-80):	406.2	10.3%
Very high(80-90):	204.3	5.2%
Uplight		
Low(90-100):	395	10%
High(100-180):	1203.4	30.5%

LCS graph



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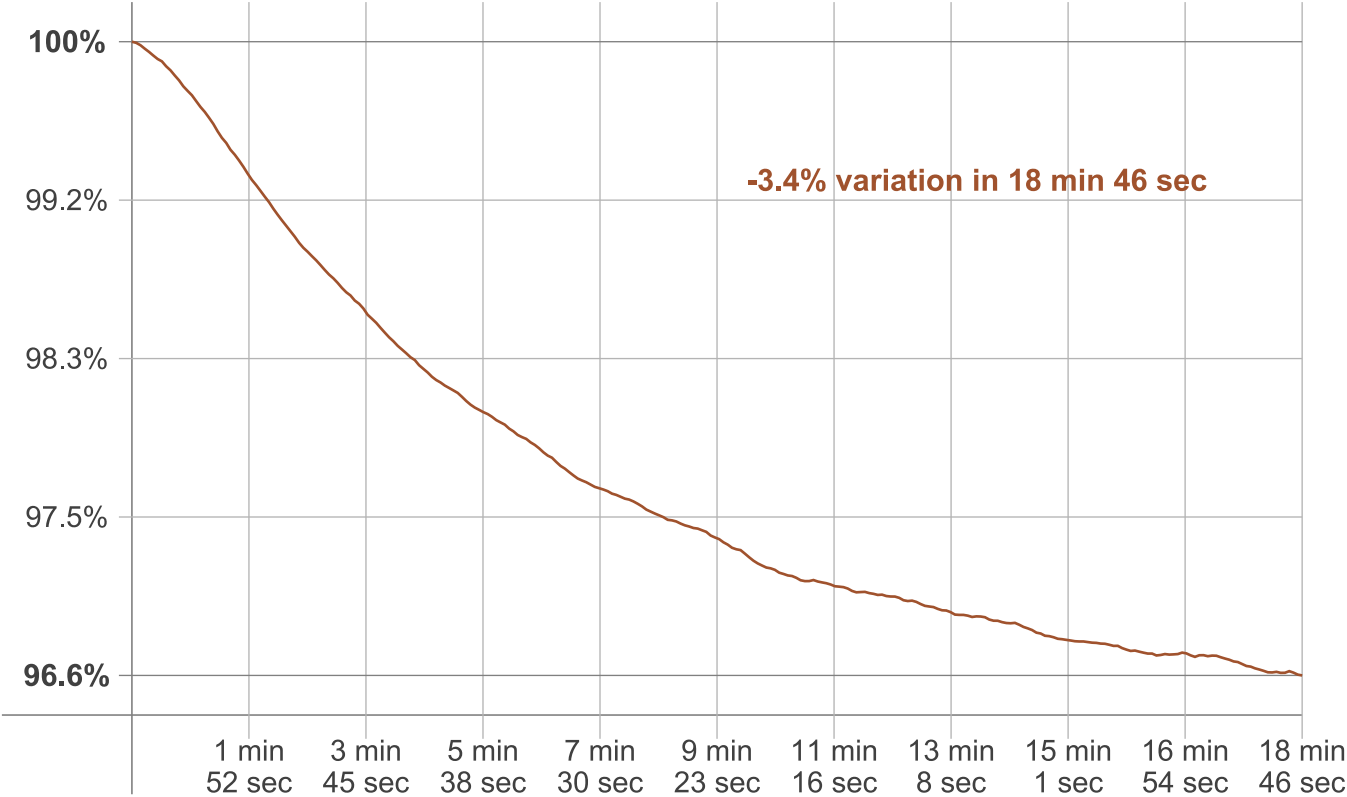
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Stabilization

Warmup curve



Warmup result

Warmup time:	18 min 46 sec
Warmup variation	-3.4%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
4135 K	+41 K	4176 K

Output change

Output start	Output change	Output end
4078 lm	-133 lm	3945 lm

