

Light efficiency:

Infinity Lumen/Watt

Output: 38952 lm

Light quality:

CRI: 81.4

Peak: 19579 cd

Color temperature:

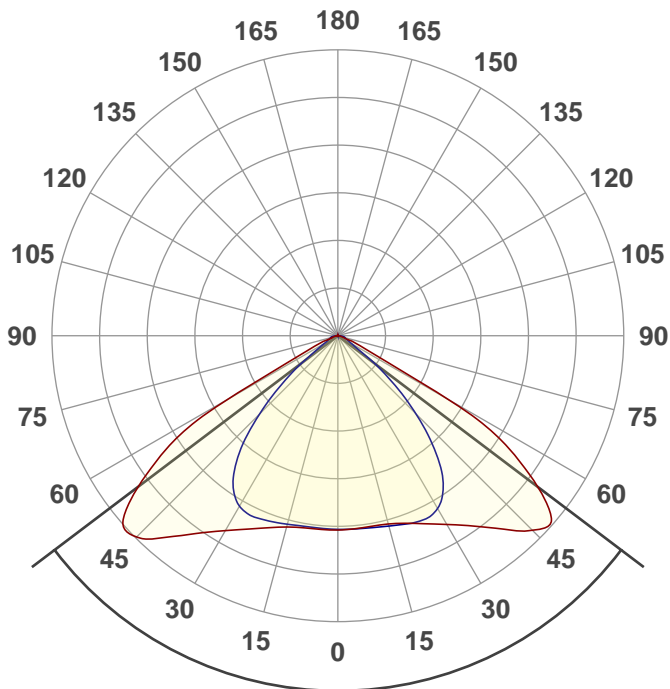
5142 K

Product name:

ALD-50K30W-C-BRC3 NEMA 6x5

Date and time:

4/17/2019 3:24:39 PM

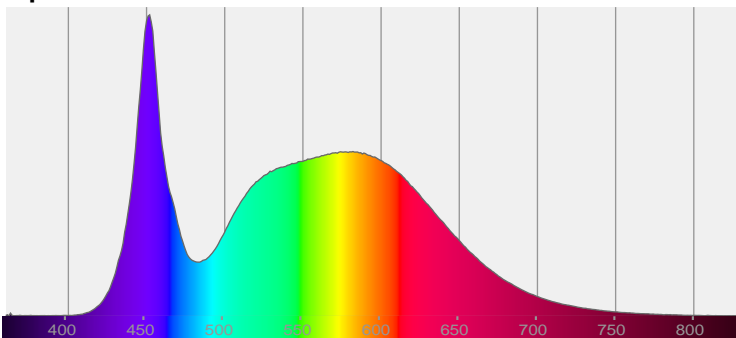


Beam angle **105.8°**

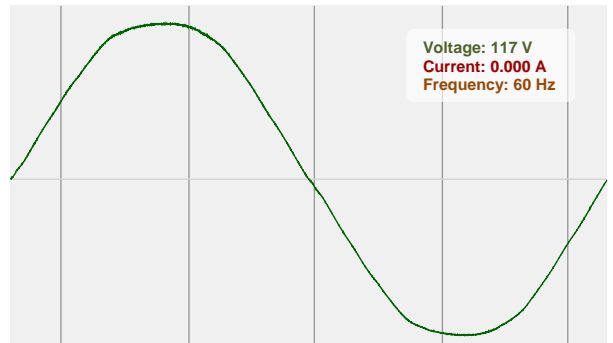


CIE 1931
x: 0.341
y: 0.349

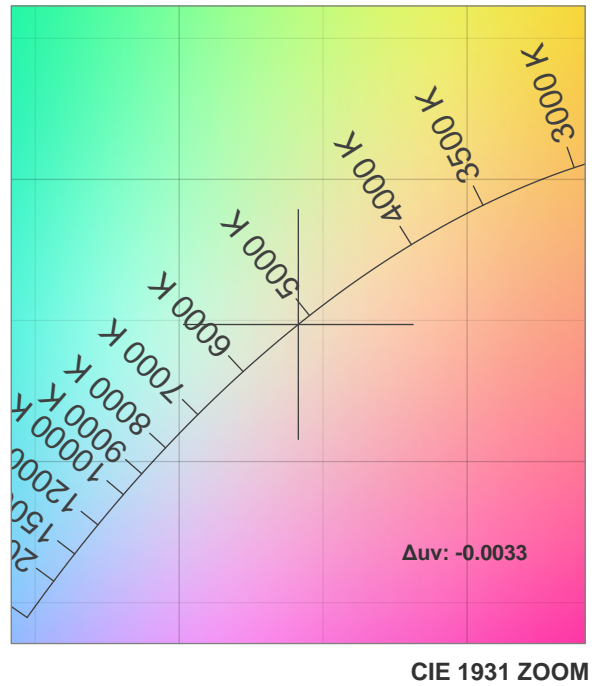
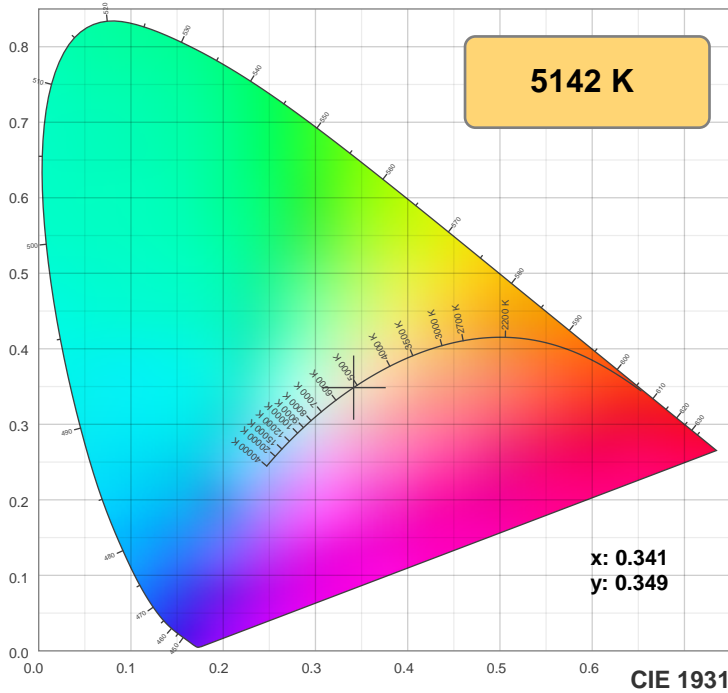
Spectra



Power

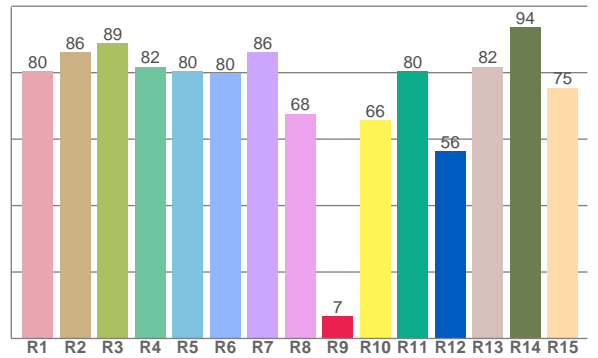
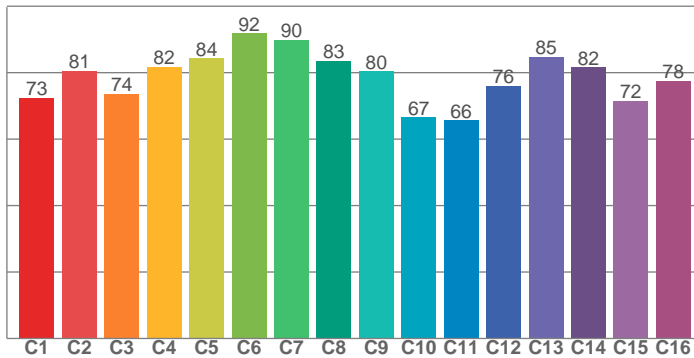


Color Specifications



TM30: 79.1

CRI: 81.4 (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
80.4	86.1	88.8	81.8	80.5	79.8	86.2	67.7	6.8	65.7	80.5	56.4	81.8	93.8	75.5

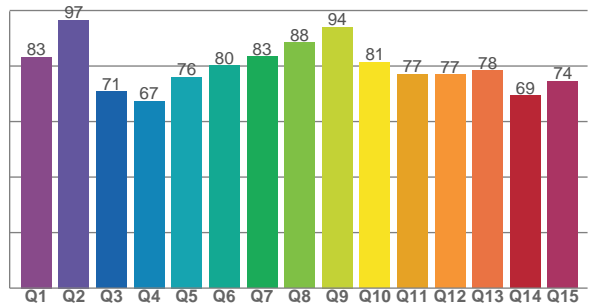
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
72.5	80.5	73.6	81.7	84.4	91.8	89.8	83.5	80.4	66.6	65.7	76.1	84.8	81.6	71.5	77.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83.2	96.6	70.7	67.4	76.1	80.1	83.4	88.4	94.0	81.4	77.1	76.9	78.3	69.3	74.5

CQS: 78.2



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 division from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
5142 K	81.4	6.8	79.1	95.2	78.2	0.341	0.349	0.210	0.322	-0.0033

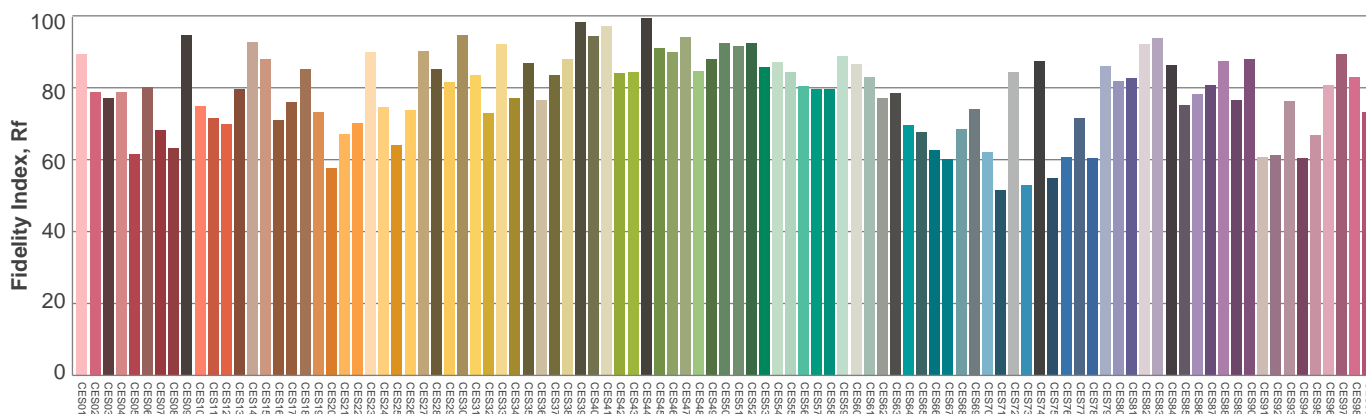
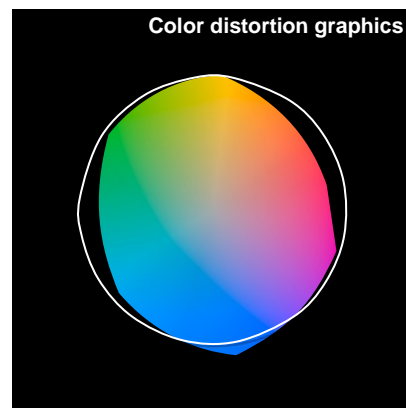
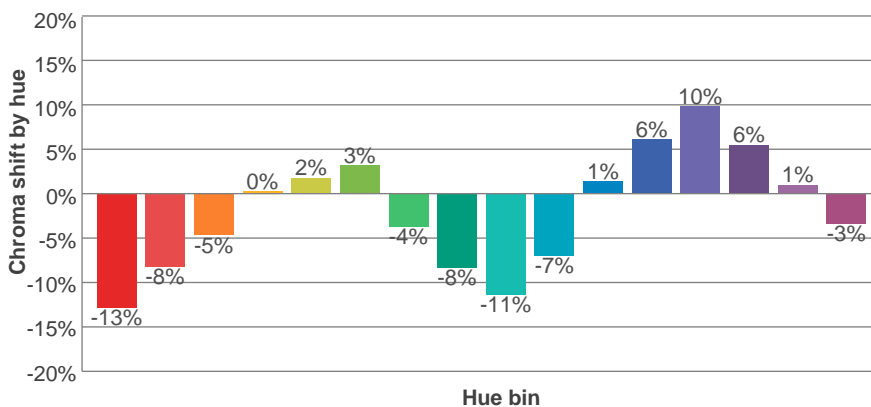
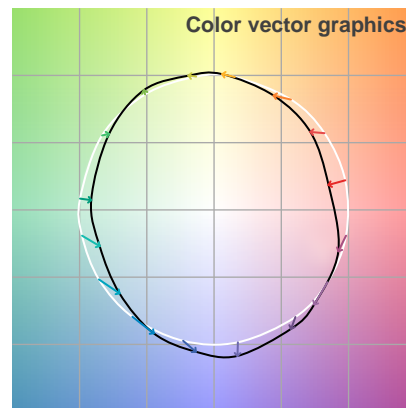
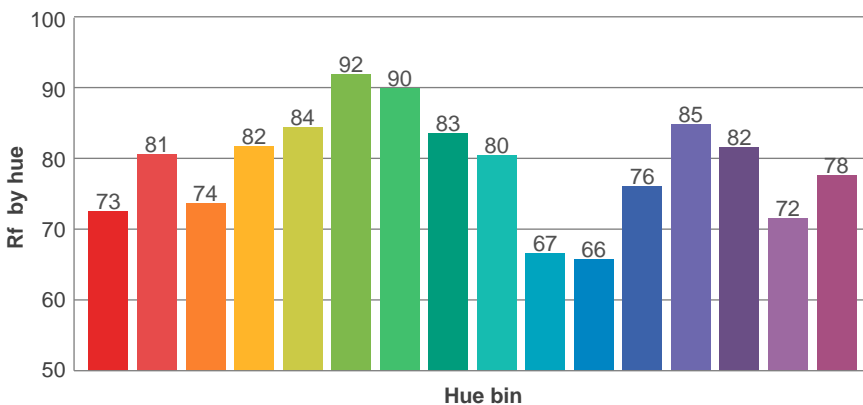
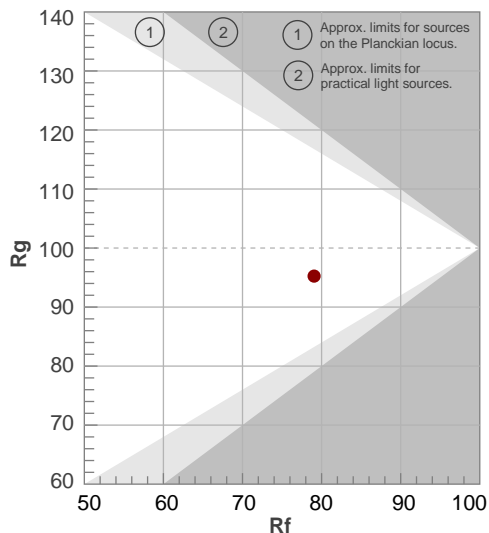


TM30 Report

Rf 79.1
Fidelity index Rf

Rg 95.2
Gammut index Rg

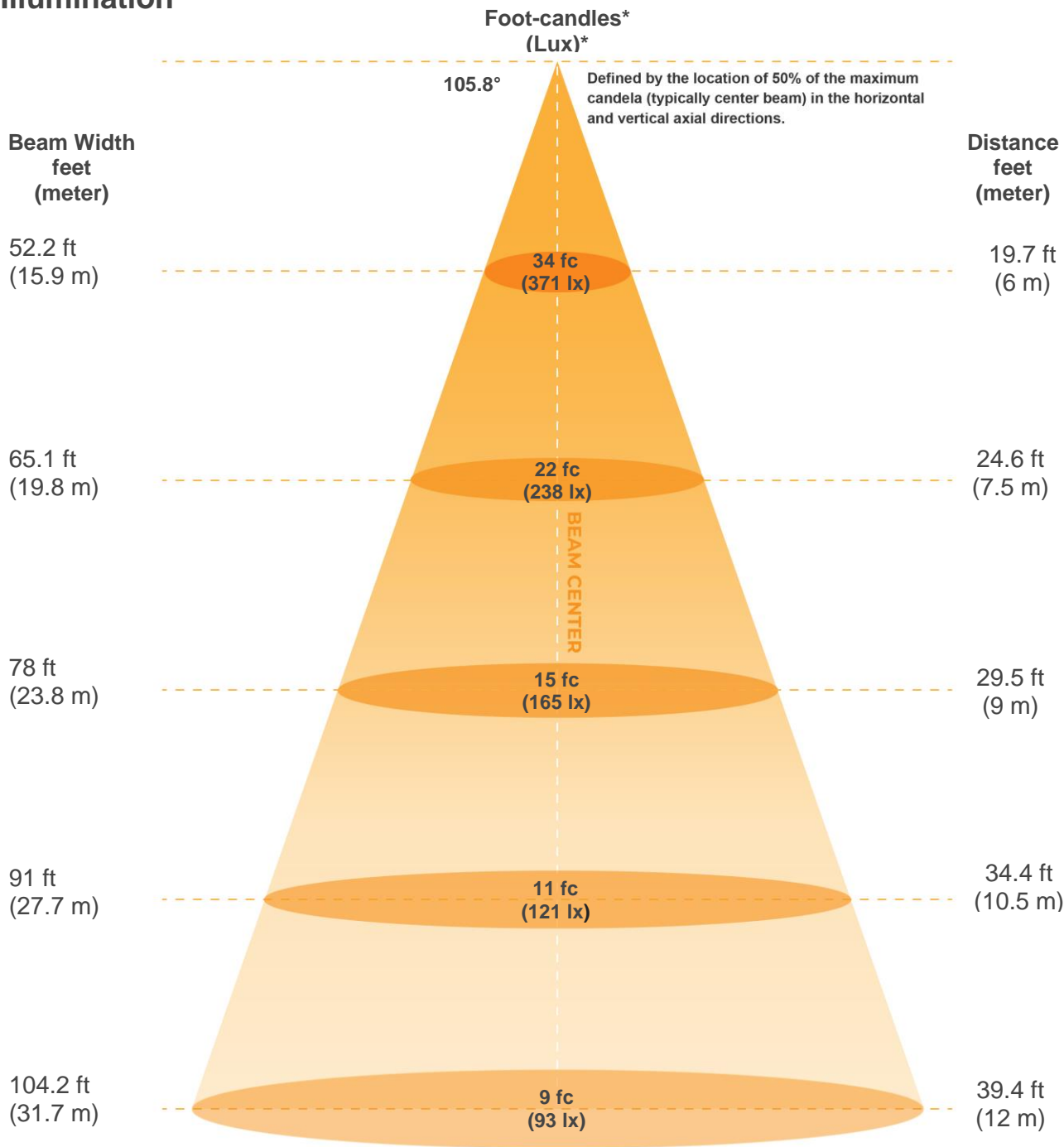
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	73	-13%	-1%
2	81	-8%	7%
3	74	-5%	12%
4	82	0%	10%
5	84	2%	6%
6	92	3%	-1%
7	90	-4%	-4%
8	83	-8%	-1%
9	80	-11%	10%
10	67	-7%	17%
11	66	1%	20%
12	76	6%	11%
13	85	10%	-2%
14	82	6%	-8%
15	72	1%	-19%
16	78	-3%	-12%



Color Evaluation Sample



Illumination



*measured at center of beam

Beam intensities from 1-20m

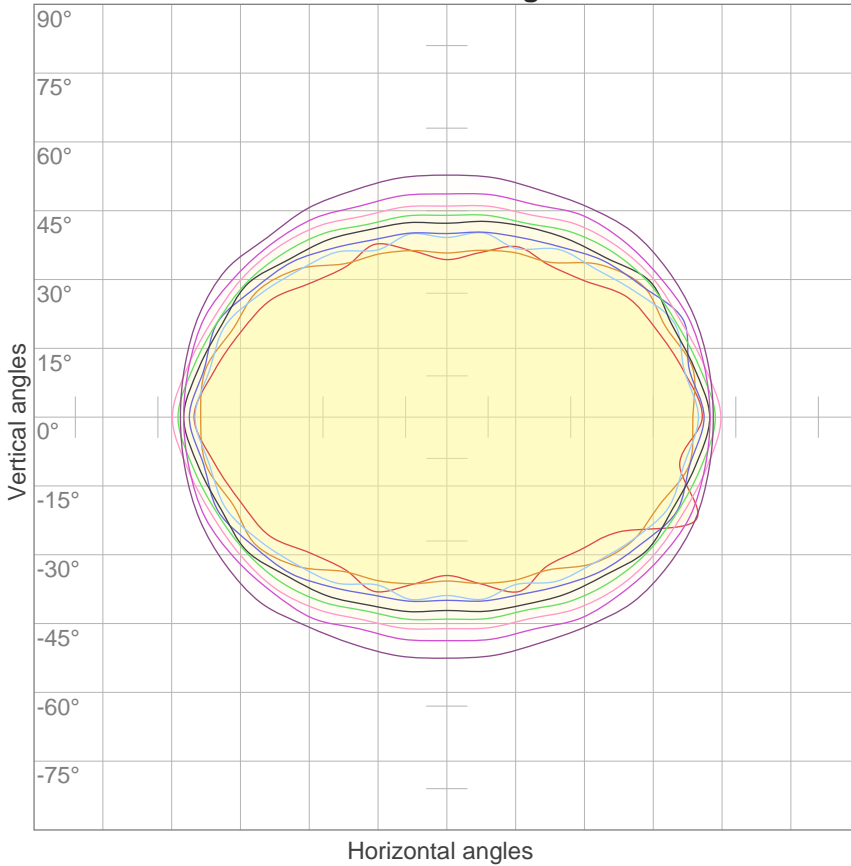
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
13365lx	3341lx	1485lx	835lx	535lx	371lx	273lx	209lx	165lx	134lx	110lx	93lx	79lx	68lx	59lx	52lx	46lx	41lx	37lx	33lx
1241.7f	310.4fc	138fcd	77.6fcd	49.7fcd	34.5fcd	25.3fcd	19.4fcd	15.3fcd	12.4fcd	10.3fcd	8.6fcd	7.3fcd	6.3fcd	5.5fcd	4.9fcd	4.3fcd	3.8fcd	3.4fcd	3.1fcd

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
105.8°	124.9°	155.6°	94.2%	65.6%



ISO Diagrams

ISO candela diagram



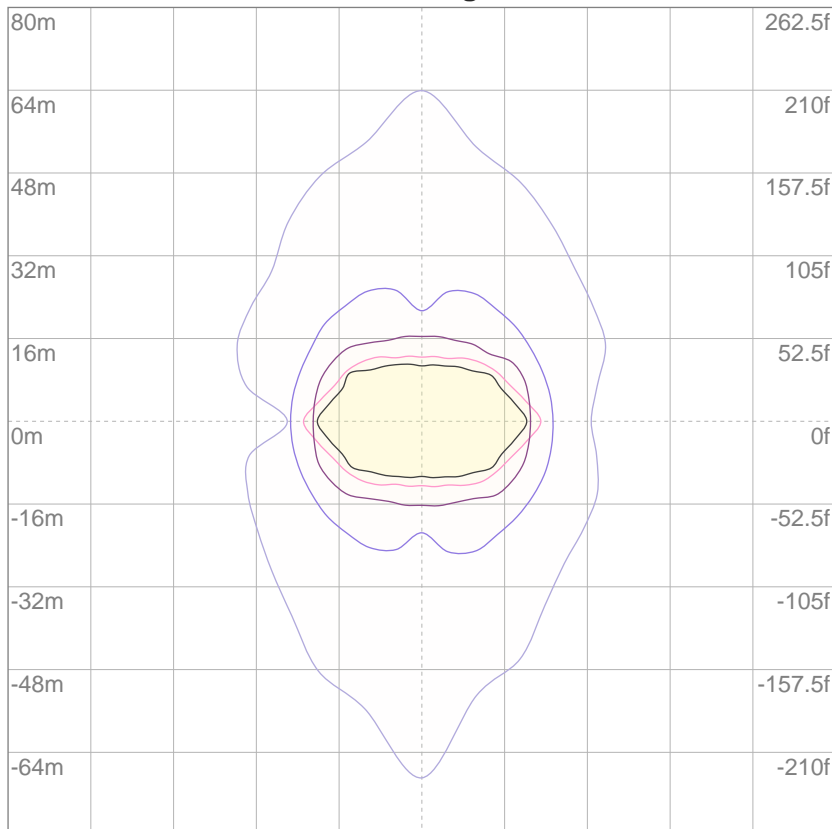
10%	1337 cd
20%	2673 cd
30%	4010 cd
40%	5346 cd
50%	6683 cd
60%	8019 cd
70%	9356 cd
80%	10692 cd
90%	12029 cd

Conditions:

Number of c-planes: 16

Candela at center: 13365 cd

ISO lux diagram



3%	4.01 lx
5%	6.68 lx
10%	13.4 lx
30%	40.1 lx
50%	66.8 lx

Conditions:

Number of c-planes: 16

Lux at center: 134 lx

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

Mounting height: 10 meters (33 feet)



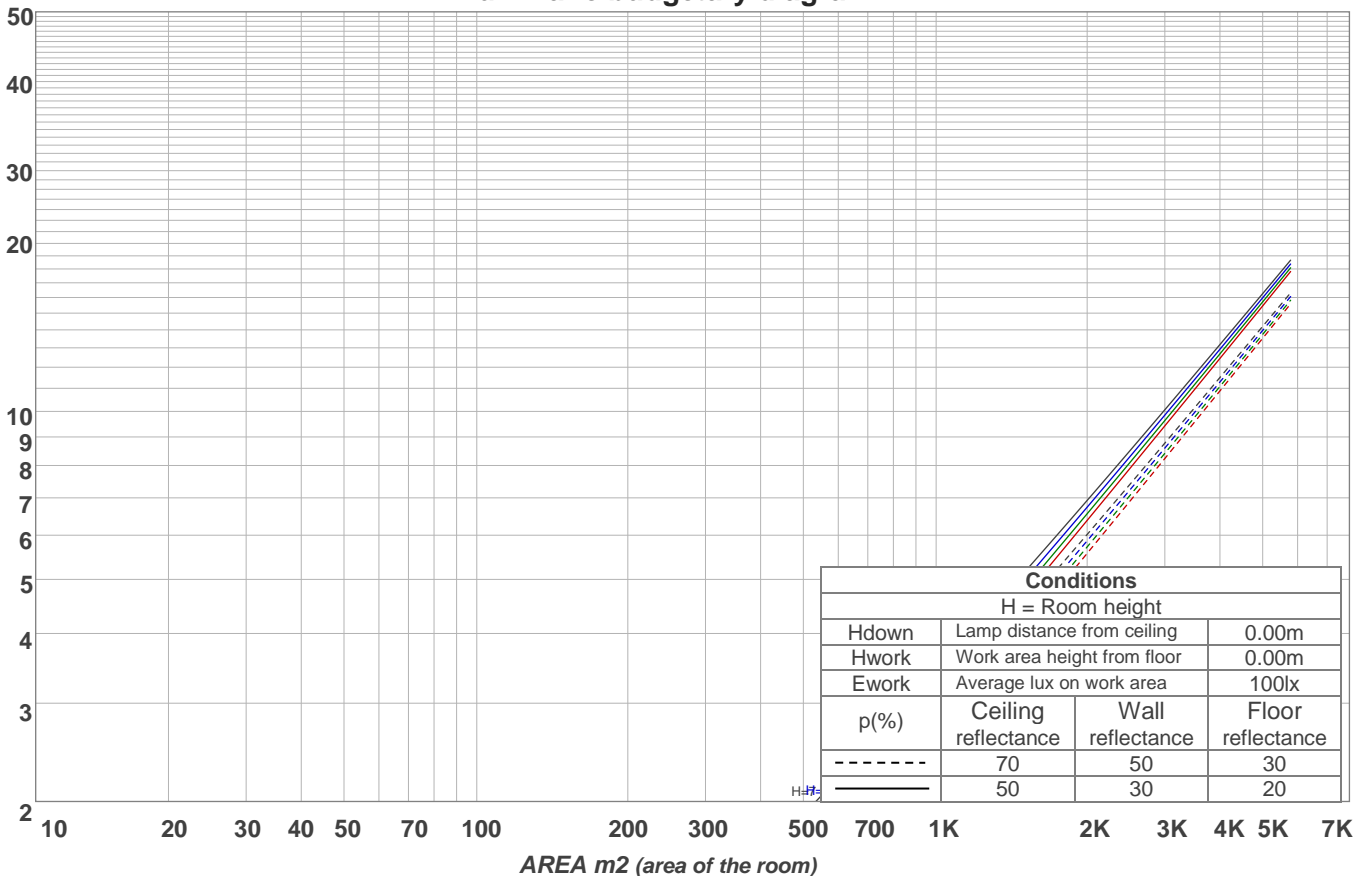
Light Planning

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	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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76			
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	75	71	68	66			
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44			
7	68	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	34			
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28			

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°
1276 lm	3834 lm	6515 lm	8994 lm	9668 lm	6398 lm	1511 lm	496 lm	155 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
12.0 lm	9.26 lm	12.4 lm	15.7 lm	16.4 lm	15.6 lm	12.8 lm	8.50 lm	2.95 lm

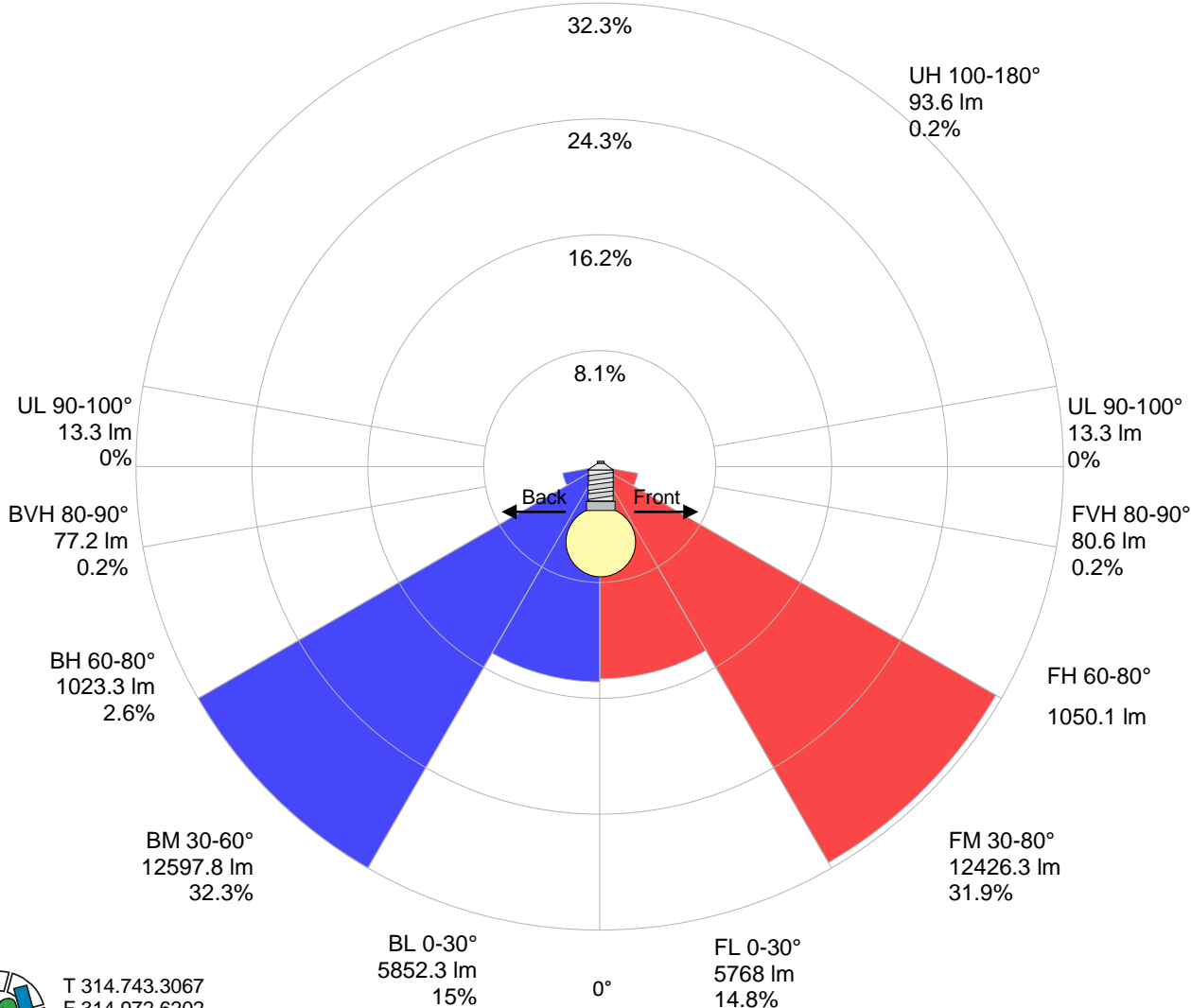


Road Report

LCS table

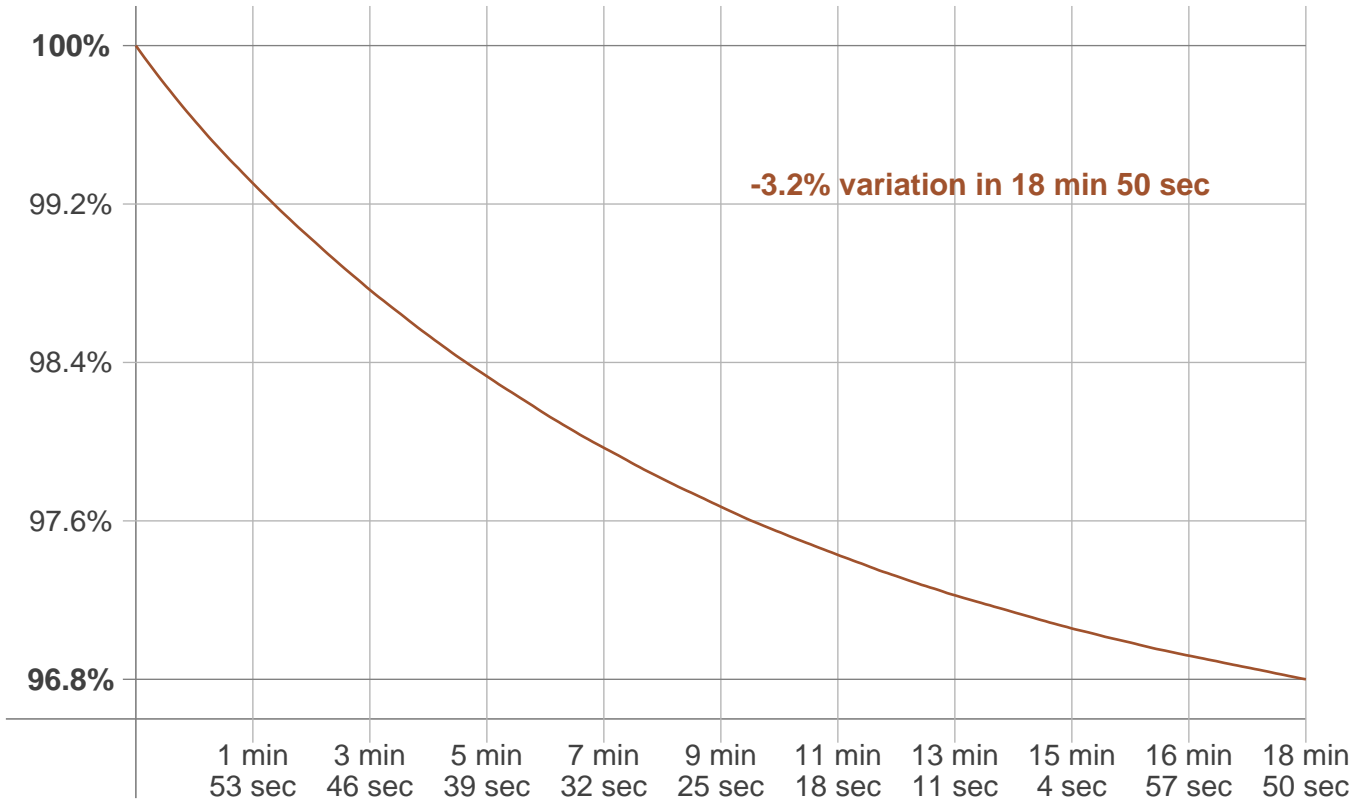
BUG rating:	B5 U3 G3	
Forward light	Lumens	Lumens %
Low(0-30):	5768	14.8%
Medium(30-60):	12426.3	31.9%
High(60-80):	1050.1	2.7%
Very high(80-90):	80.6	0.2%
Back light		
Low(0-30):	5852.3	15%
Medium(30-60):	12597.8	32.3%
High(60-80):	1023.3	2.6%
Very high(80-90):	77.2	0.2%
Uplight		
Low(90-100):	13.3	0%
High(100-180):	93.6	0.2%

LCS graph



Stabilization

Warmup curve



Warmup result

Warmup time:	18 min 50 sec
Warmup variation	-3.2%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
5081 K	+61 K	5142 K

Output change

Output start	Output change	Output end
40215 lm	-1263 lm	38952 lm

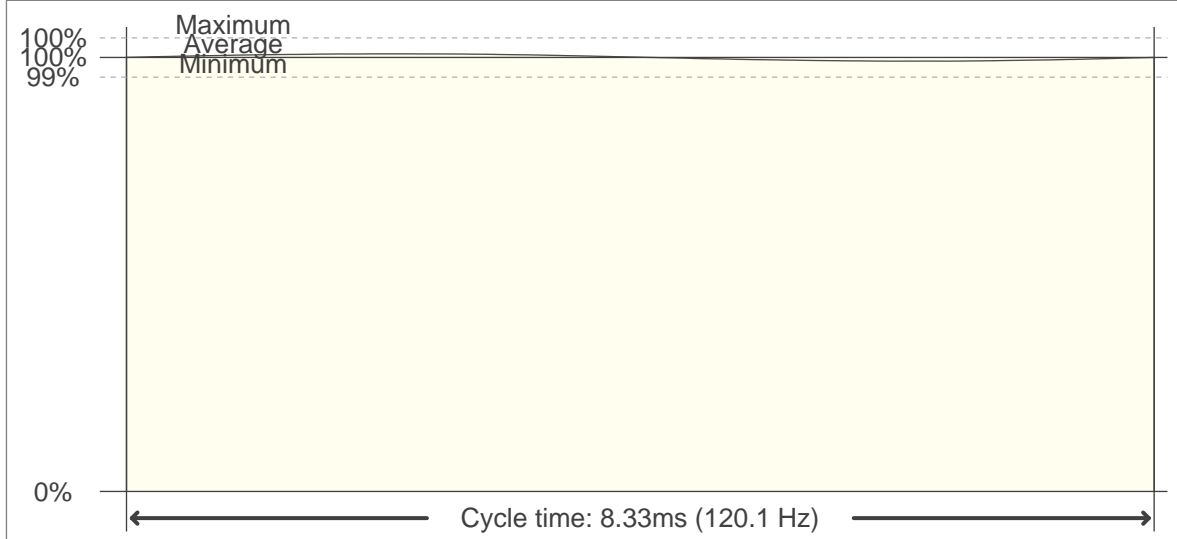


Flicker

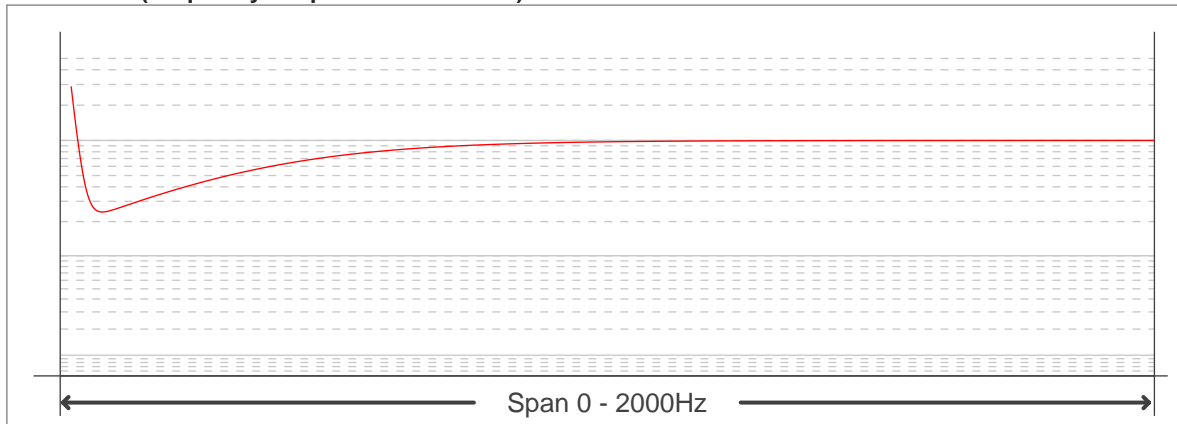
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:	120.12 Hz
Flicker index:	0
Flicker percentage:	0.9 %
SVM: (Visual flicker)	0.03

Flicker conditions:

Sample rate:	40000 samples/second
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