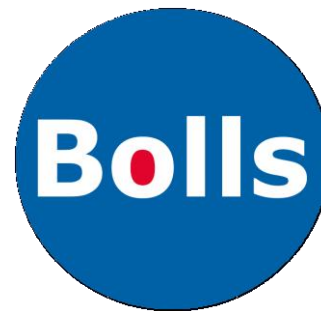




Light Measurement Report



Picture of product

Customer: Tallykey

Product name: Talleykey top

Report no.: B2020270

Date: 03-12-2020

Test engineer: Lars Bringstrup

Signature:

Bolls ApS

Light measurement report



Measurement results

(Graphs on following pages)

Product name:

Talleykey top

Additional information:

Electrical Power: [W]

6,6

Power factor:

0,95

Luminous Flux: [lm]

183

Peak: [cd]

42,2

Luminous efficiency: [lm/W]

28

Beam angle: [°]

164,8

Color temperature: [K]

2903

CRI / Ra:

80,7

TM30 Rf:

83,5

TM30 Rg:

94,6

CQS:

80,3

CIE 1931:

x: 0,437 y: 0,404

SDCM step / Mac Adam:

x 3,5 @ 3000K

Flicker frequency: [Hz]

100

Flicker index:

0,26

Flicker percentage: [%]

79,81

SVM (stroboscopic visibility): 3,1 (max 0.4 *)

P_{st}^{LM} (flicker): 0,1 (max 1 *)

*) According to EU eco-design dir. from september 2021, luminaire non dimmed

Test conditions

Operating voltage: [V]

230

Frequency: [Hz]

50

Temperature: [°C]

25

Minimum stabilization time:

n/a

(Luminaire may have been pre-heating before start of the measurement)

List of instruments

Goniophotometer:

Viso Systems, Lab Spion

Spectrometer:

Ibsen

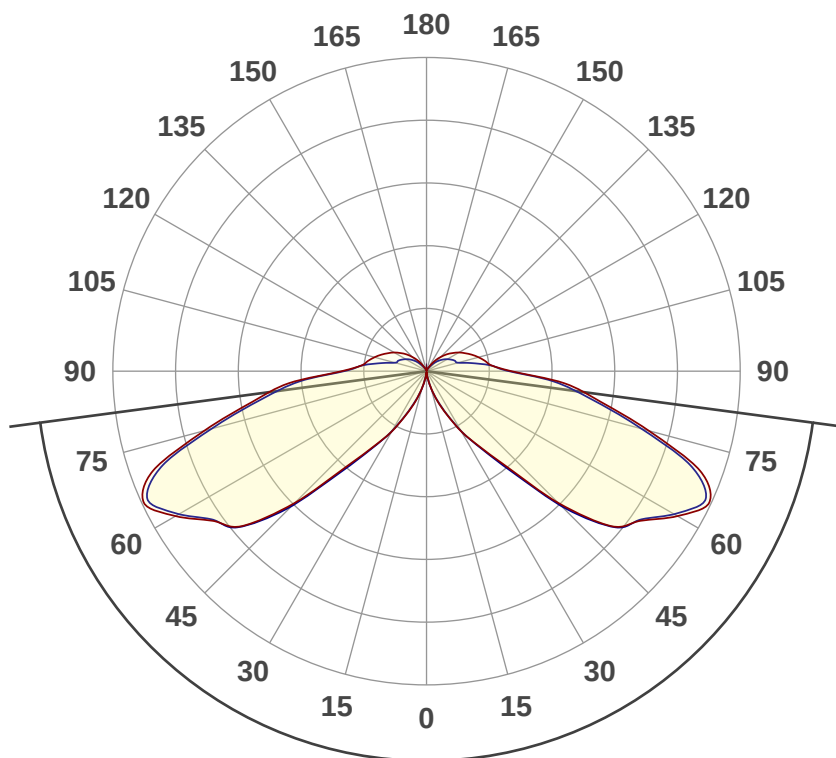
AC Power Source:

GW Instek APS-7050E

Light measurement report



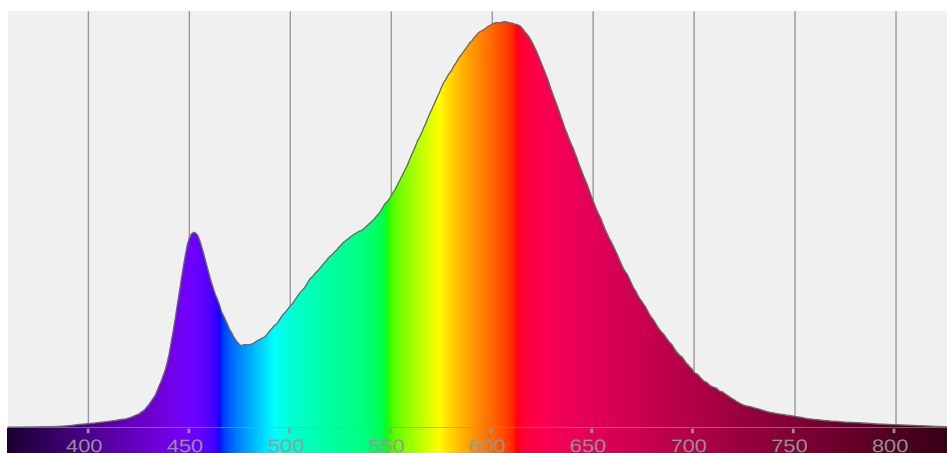
Beam angle distribution



164,8°

2 Planes (Red: Angular distribution 0° plane, blue: 90° plane)

Color spectral distribution

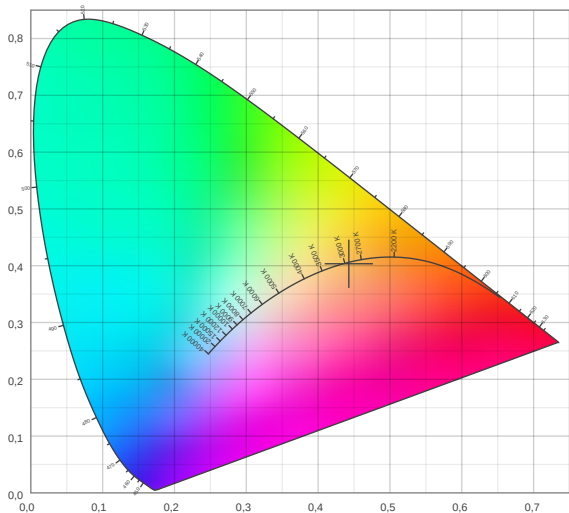


Wavelength [nm]

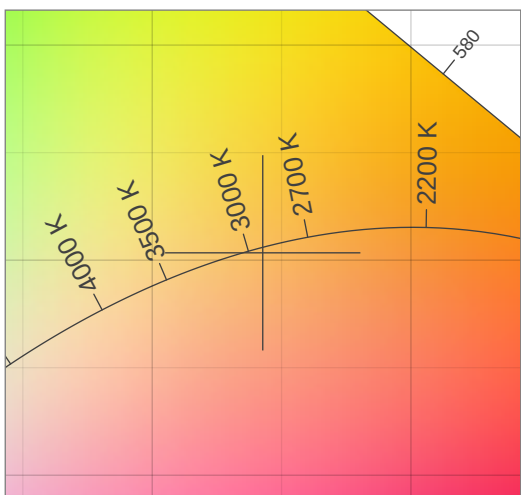
Light measurement report



CIE 1931



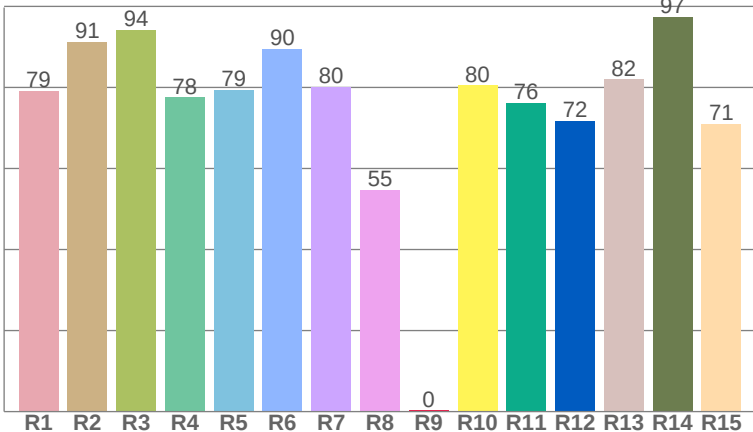
CIE 1931 zoomed



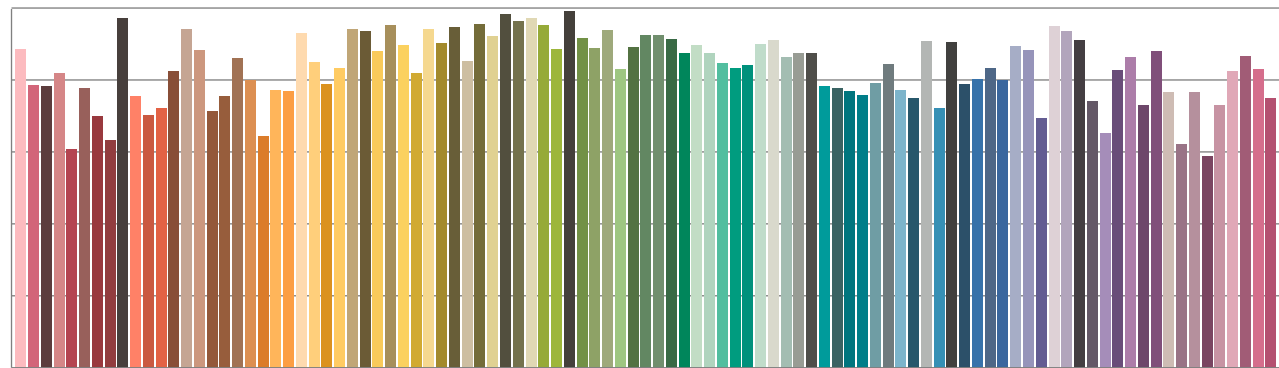
MacAdam ellipses



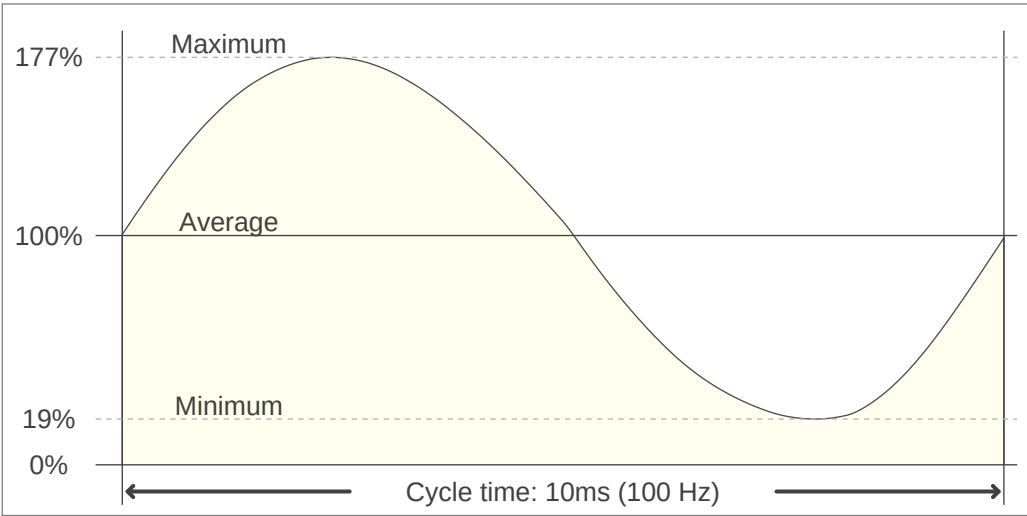
CRI graph



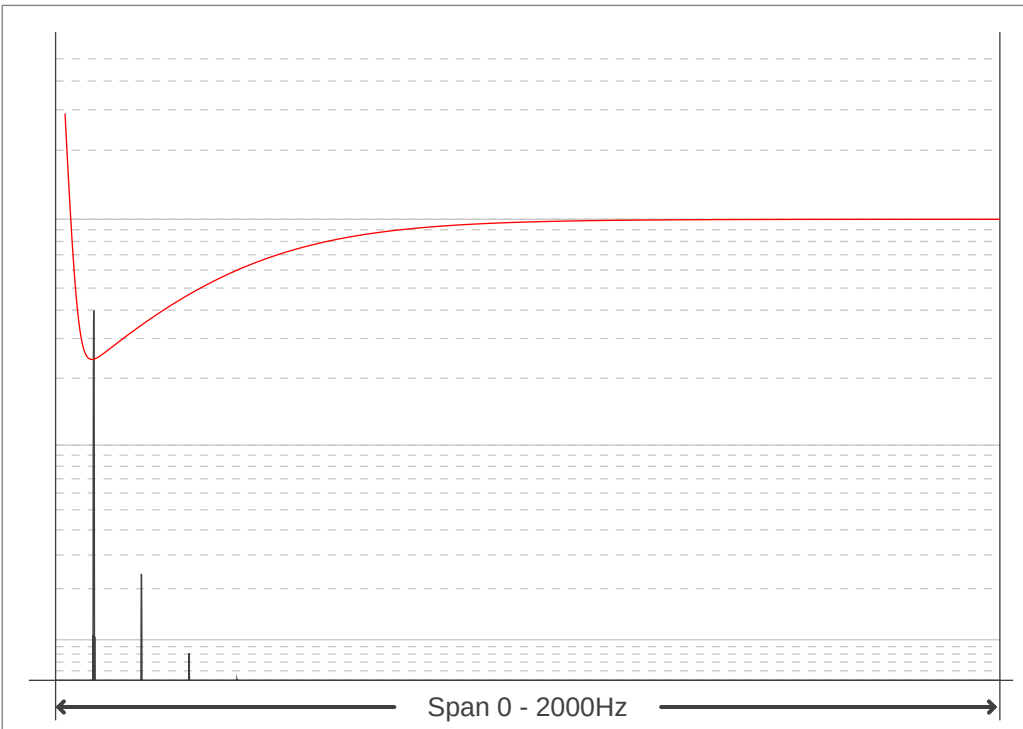
TM30 graph



Flicker, time domain



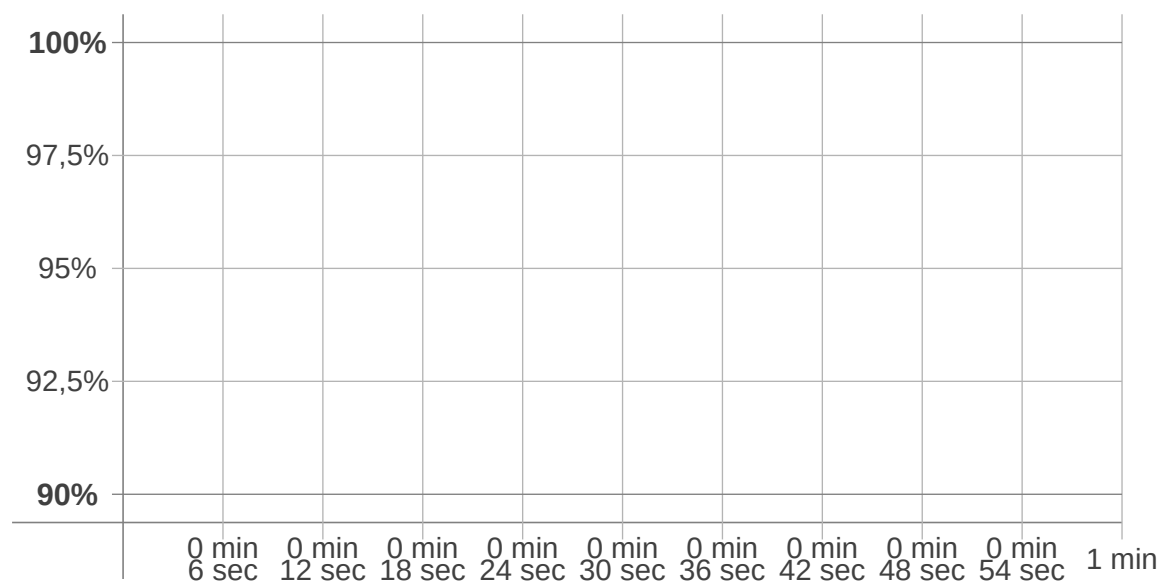
Flicker, frequency domain



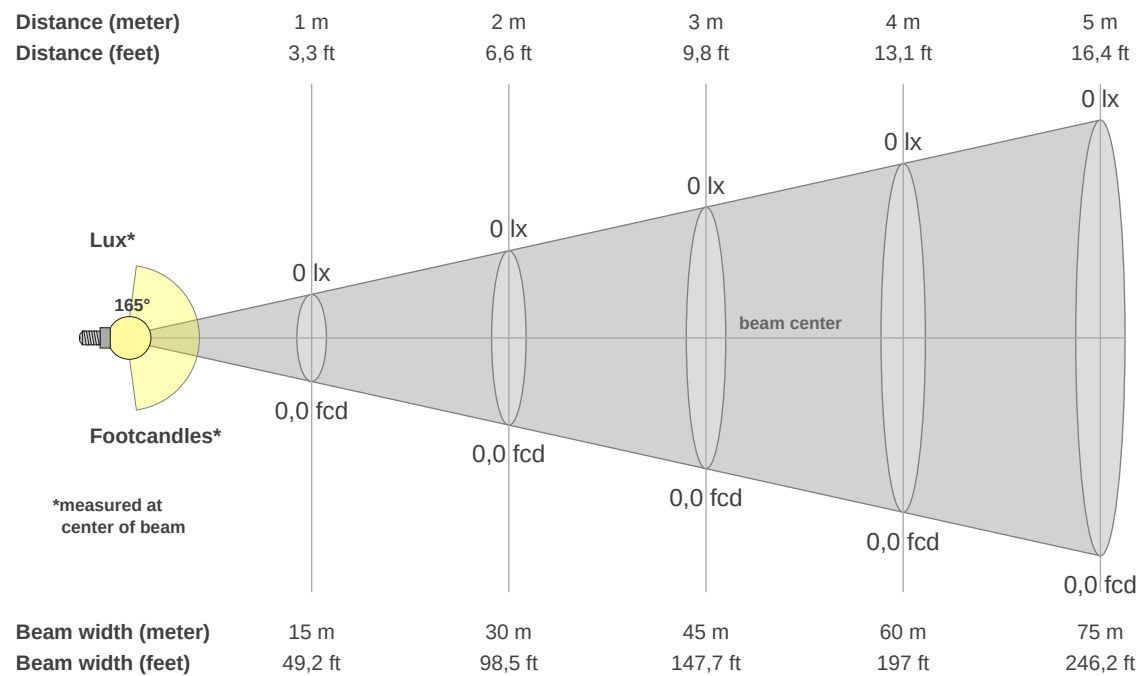
Light measurement report



Warm up



Cone diagram



Light measurement report



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	11,8	13,3	12,3	13,9	14,5	11,8	13,3	12,3	13,9	14,4
	3H	14,8	16,2	15,4	16,8	17,4	14,6	16,1	15,3	16,7	17,3
	4H	15,8	17,2	16,4	17,8	18,4	15,7	17,1	16,3	17,7	18,2
	6H	16,6	17,9	17,1	18,4	19,1	16,5	17,7	17,0	18,3	19,0
	8H	16,9	18,2	17,5	18,7	19,4	16,8	18,0	17,3	18,6	19,3
	12H	17,2	18,5	17,7	19,0	19,7	17,0	18,3	17,6	18,8	19,5
4H	2H	12,8	14,2	13,4	14,8	15,4	12,8	14,2	13,4	14,8	15,4
	3H	15,8	17,1	16,4	17,6	18,3	15,7	17,0	16,3	17,5	18,2
	4H	16,8	18,2	17,5	18,6	19,4	16,7	18,1	17,4	18,5	19,3
	6H	17,7	18,8	18,4	19,4	20,0	17,6	18,7	18,2	19,2	19,9
	8H	18,1	19,0	18,7	19,7	20,3	17,9	18,9	18,6	19,5	20,2
	12H	18,4	19,2	19,1	19,9	20,6	18,3	19,1	18,9	19,8	20,5
8H	4H	17,2	18,1	17,8	18,8	19,4	17,1	18,0	17,8	18,7	19,3
	6H	18,2	19,0	18,9	19,7	20,5	18,1	18,9	18,8	19,6	20,4
	8H	18,7	19,4	19,4	20,1	21,0	18,5	19,3	19,2	20,0	20,9
	12H	19,1	19,8	19,9	20,5	21,3	19,0	19,6	19,7	20,3	21,1
12H	4H	17,2	18,0	17,9	18,7	19,4	17,1	18,0	17,8	18,6	19,4
	6H	18,3	19,0	19,0	19,7	20,6	18,2	18,9	18,9	19,6	20,5
	8H	18,8	19,4	19,6	20,2	21,0	18,7	19,3	19,4	20,0	20,9
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,0 / 0,0					0,0 / 0,0				
S = 1.5H		0,0 / -0,1					0,1 / -0,1				
S = 2.0H		0,2 / -0,2					0,2 / -0,2				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 183 lm total luminous flux											