ECOSENSE

TROV Spectral and TM-30 Data

Product name:
L35 10-12W and L50 ALL 22K 80CRI

Date and time:
7/16/2021 2:51:35 PM

Description:
ALL L35 10W to 12W and ALL L50 Power Levels
2200K 80CRI

Light quality:

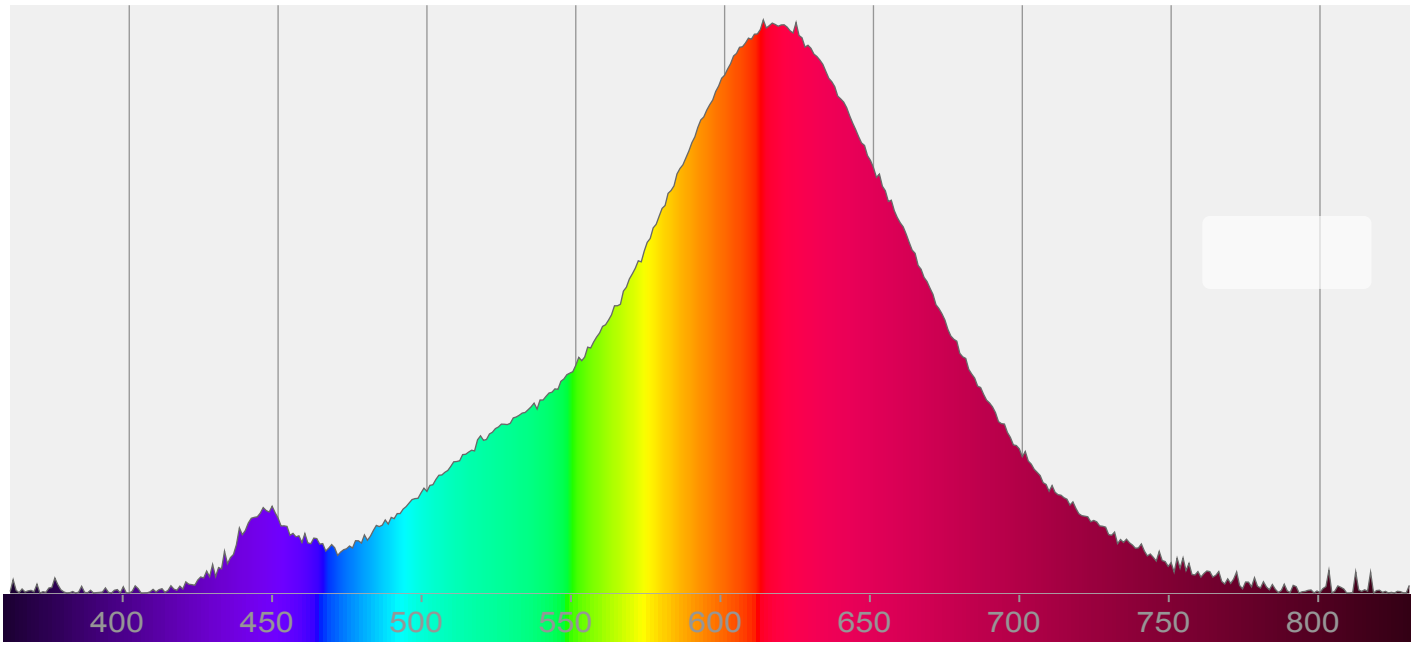
CRI: 84.5

Color temperature:

2203 K

CIE 1931
x: 0.506
y: 0.416

Spectra



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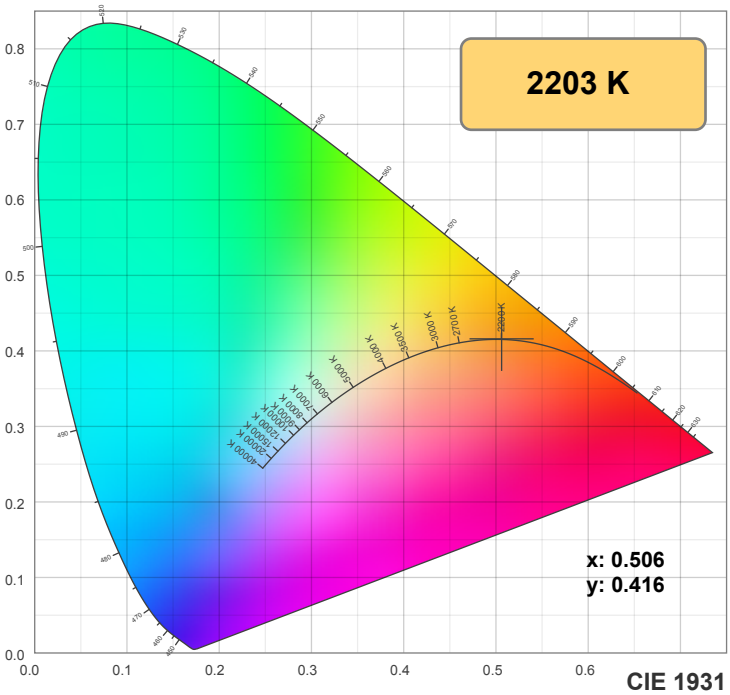
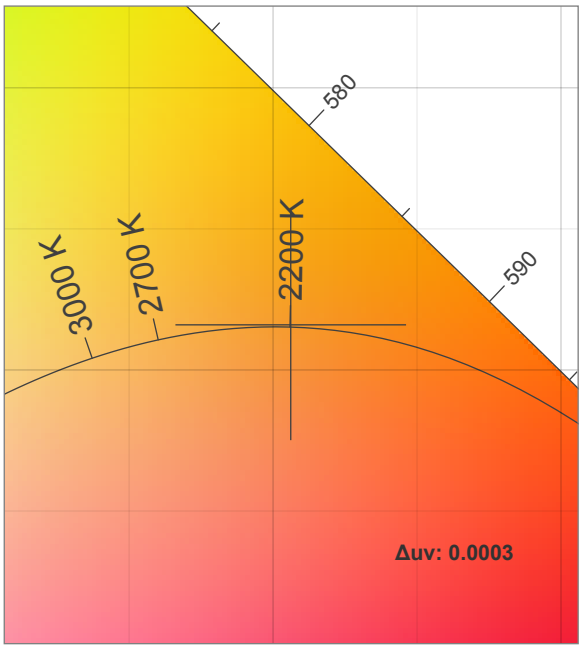
Color details

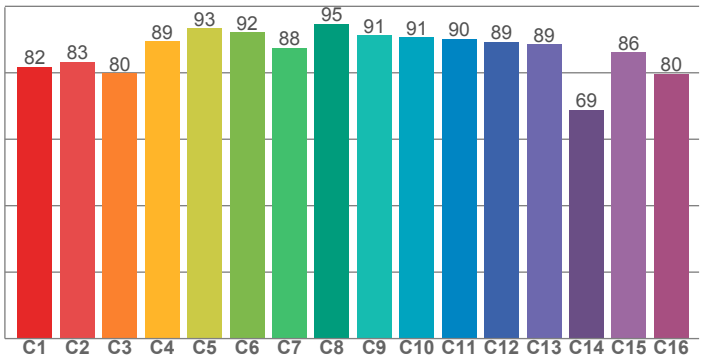


CIE 1931

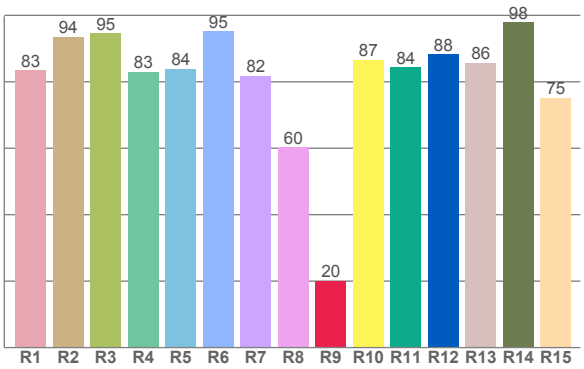


CIE 1931 ZOOM

TM30: 86.9



CRI: 84.5 (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
83.5	93.6	94.7	83.0	84.0	95.3	81.8	60.2	20.2	86.6	84.4	88.4	85.8	98.0	75.2

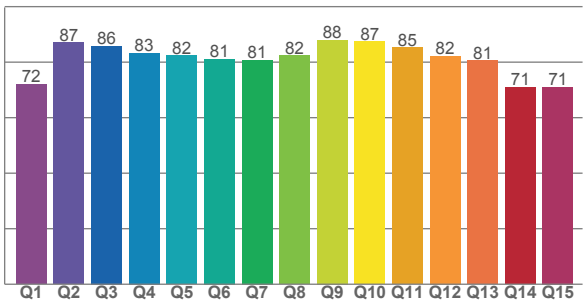
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.7	83.2	79.8	89.5	93.3	92.1	87.6	94.7	91.3	90.7	90.3	89.3	88.6	68.9	86.1	79.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
72.0	87.0	85.7	83.3	82.3	81.2	80.7	82.4	88.0	87.5	85.3	82.3	80.5	70.9	71.1

CQS: 80.0



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2203 K	84.5	20.2	86.9	97.5	80.0	0.506	0.416	0.290	0.358	0.0003

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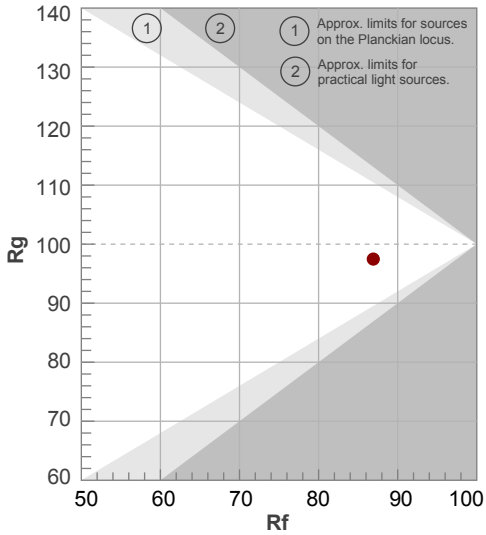
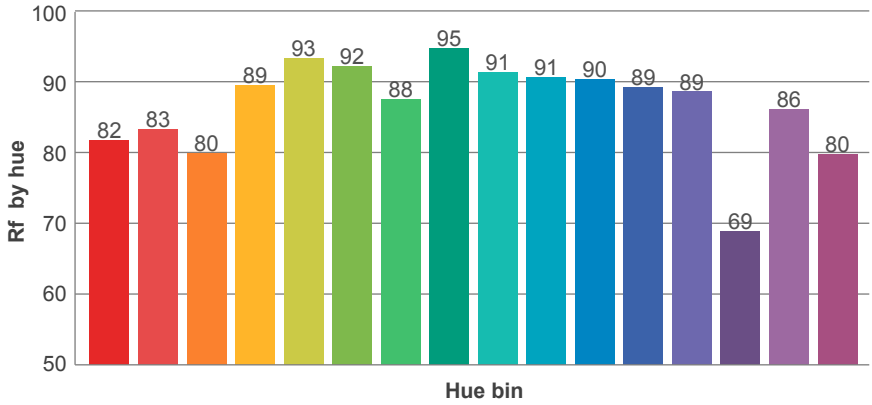
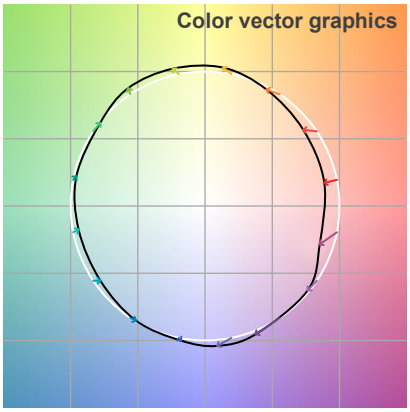
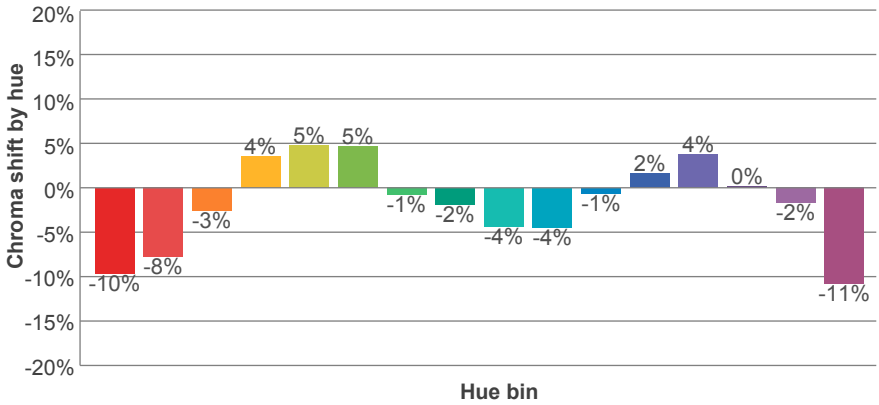
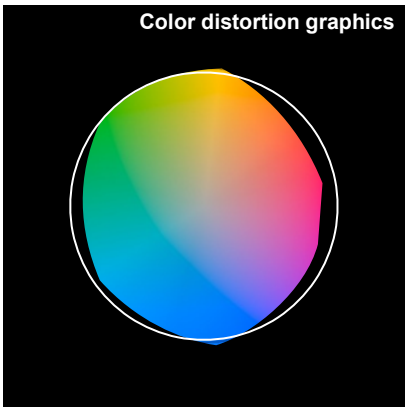
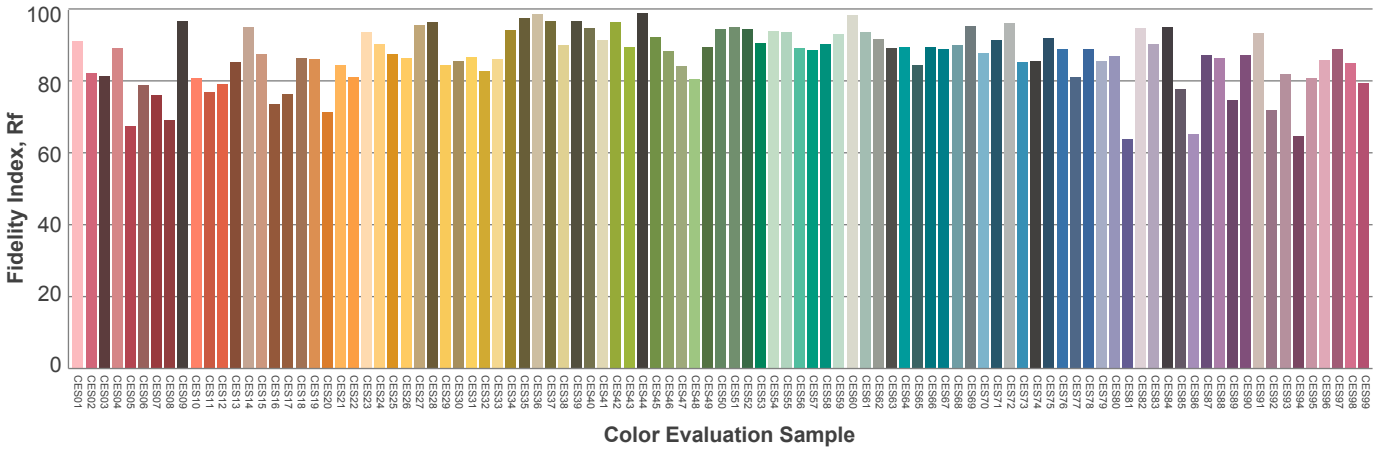
TM30 details

Rf 86.9

Fidelity index Rf

Rg 97.5

Gammut index Rg

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	82	-10%	0%
2	83	-8%	7%
3	80	-3%	10%
4	89	4%	7%
5	93	5%	4%
6	92	5%	-1%
7	88	-1%	-8%
8	95	-2%	-3%
9	91	-4%	-1%
10	91	-4%	3%
11	90	-1%	5%
12	89	2%	2%
13	89	4%	-11%
14	69	0%	-22%
15	86	-2%	-10%
16	80	-11%	-11%