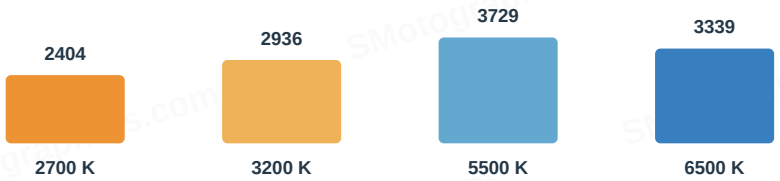
Key values at maximum brightness

For each target CCT and RGB hue the highest available brightness level is shown. EV = log2(2 x lux / 5).
Duv, CRI/R9, SSI, TM-30 and TLCI are not reported for saturated RGB colours, where they are not meaningful. TLCI is for information only.

Type	Target CCT / hue	Level	Lux	EV	Measured CCT / hue	Duv	CRI Ra	R9	SSI	TM-30 Rf	TM-30 Rg	TLCI	Source
White	2700 K	100%	2404	9.91	2728 K	0.00495	97.1	94.0	88.0	91.0	96.0	96	Amaran 100x 100% lowest
White	3200 K	100%	2936	10.20	3156 K	-0.00060	97.0	96.0	84.0	94.0	101.0	99	Amaran 100x 100% 3200
White	5500 K	100%	3729	10.54	5640 K	-0.00214	97.0	91.0	72.0	93.0	102.0	98	Amaran 100x 100% 5500
White	6500 K	100%	3339	10.38	6749 K	0.00015	97.0	98.0	68.0	92.0	100.0	97	Amaran 100x 100% 6500

White light output at 100 % across all CCTs



RGB output at 100 % across all colours

No values

Output with all reflectors

Reflector	Target CCT	Level	Lux	EV	Measured CCT	Duv	CRI Ra	R9	Source
With reflector	-	100%	30108	13.56	5393 K	0.00033	97.9	97.0	Amaran 100x 100% max with reflector

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Amaran 100x

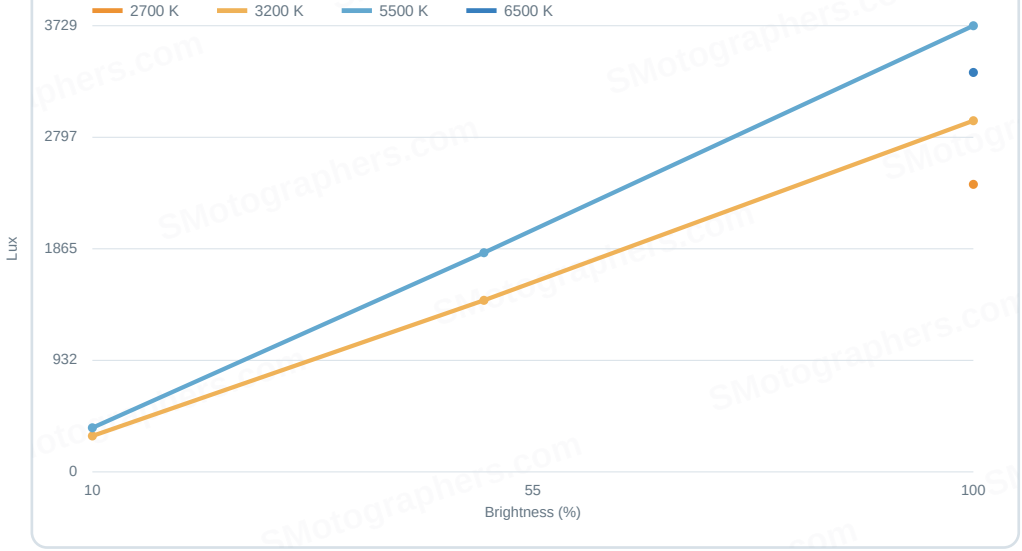
LED Lab Report | Numbers-Import

TOTAL	COLOUR	POWER	USABILITY
80.4	83.7	91.5	65.9

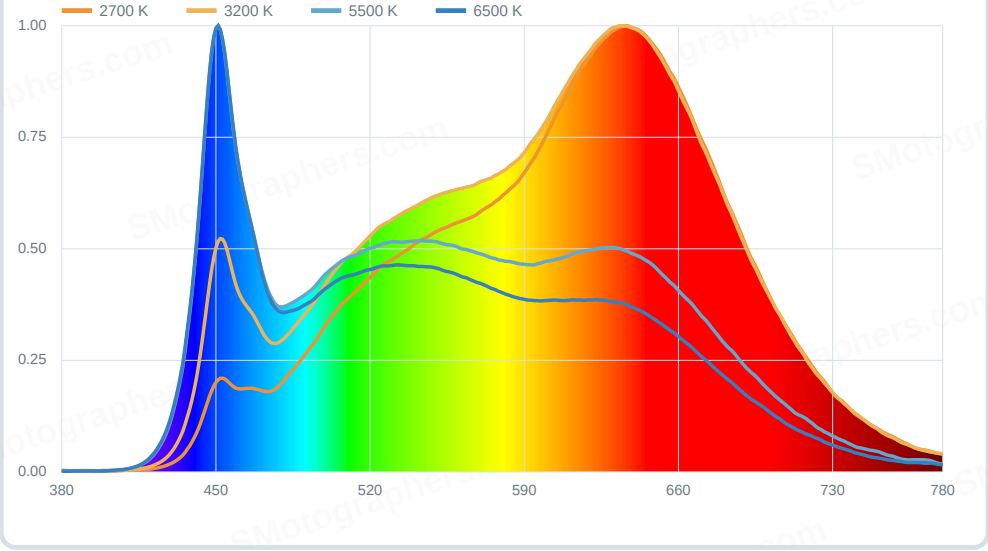
Luminaire	Value	Test	Value
LED type	Bi-Color	Power	130.0 W
Test date	2026-07-29	Distance	-
Modifier	Verschiedene Setups aus dem Numbers-Rechner	Mode	Linear (current)
RGB in total	Yes	Measurements	9

Target CCT	Max Lux	Measured CCT	Duv	Ra	SSI	Rf	Rg	TLCI
2700 K	2404	2728	0.00495	97.1	88.0	91.0	96.0	96
3200 K	2936	3156	-0.00060	97.0	84.0	94.0	101.0	99
5500 K	3729	5640	-0.00214	97.0	72.0	93.0	102.0	98
6500 K	3339	6749	0.00015	97.0	68.0	92.0	100.0	97

Output across CCTs and levels



Spectrum at maximum brightness



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Amaran 100x

White light detail | Target CCT 2700 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
100%	2404	2728 K	0.00495	2.57	97.1	94.0	636 nm

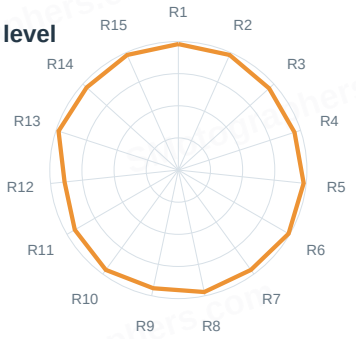
Colour metric	Value
SSI	88
TM-30 Rf	91
TM-30 Rg	96
TLCI (Info)	96
Measurements	1

Check	Value
Brightest level	100%
CCT deviation	28 K
Mired deviation	3.80
Source	Amaran 100x 100% lowest

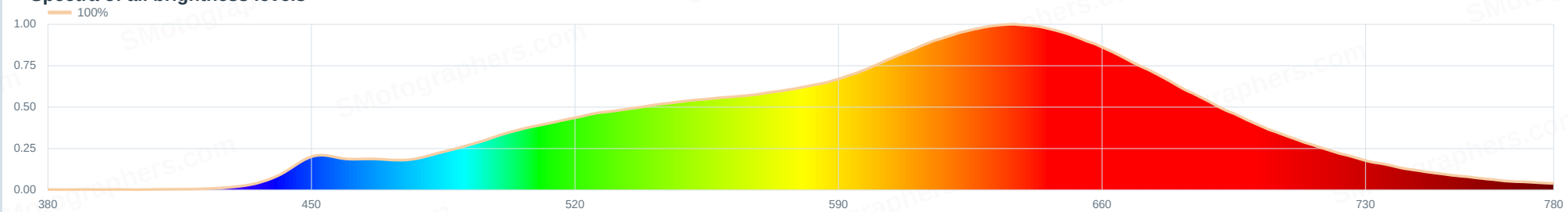
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



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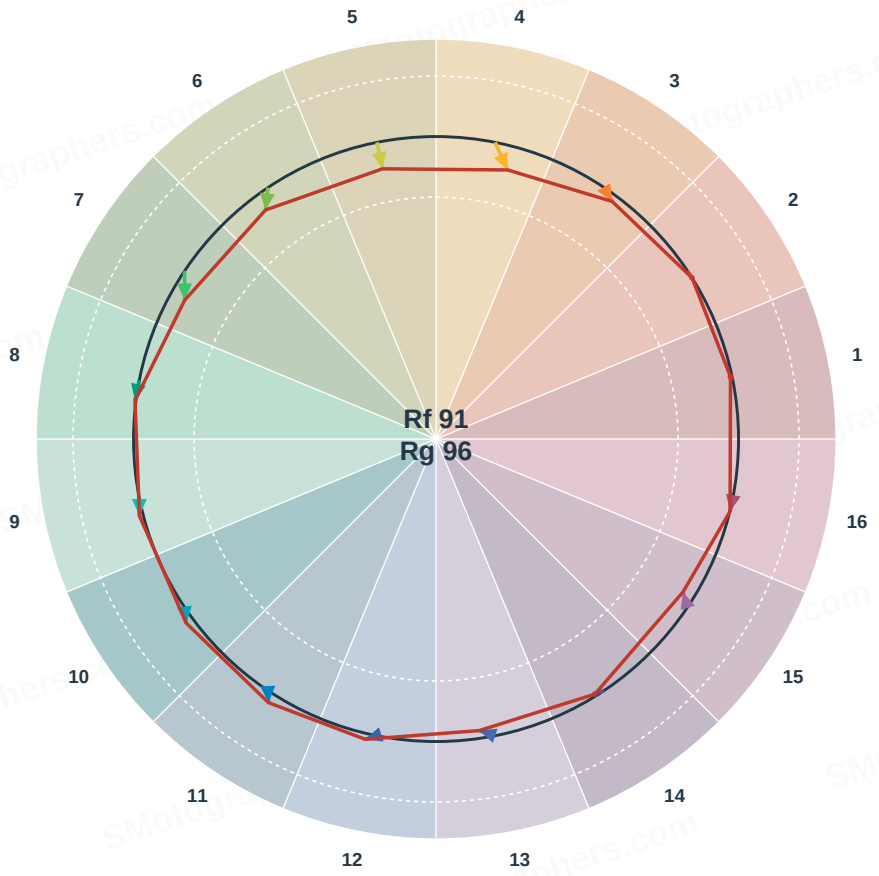
Amaran 100x

ANSI/IES TM-30 colour rendition | Target CCT 2700 K

LED EVALUATOR

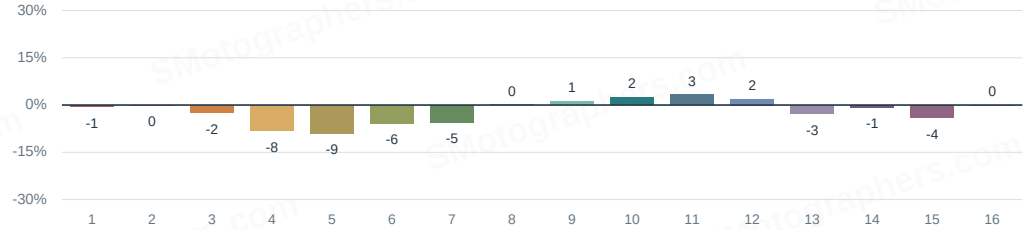
TM-30 RF	TM-30 RG	SSI [P2728]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
91	96	88	2728 K	0.0049	96	100 %

Color Vector Graphic

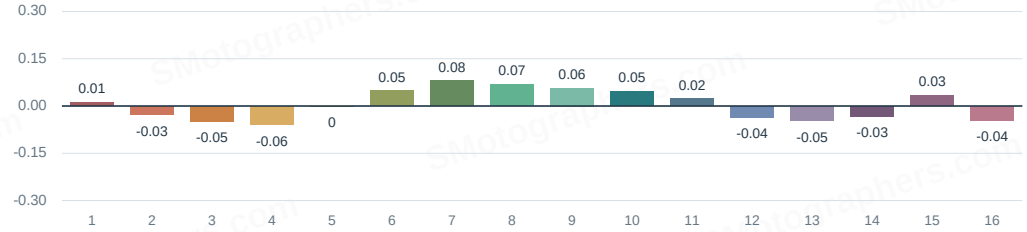


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

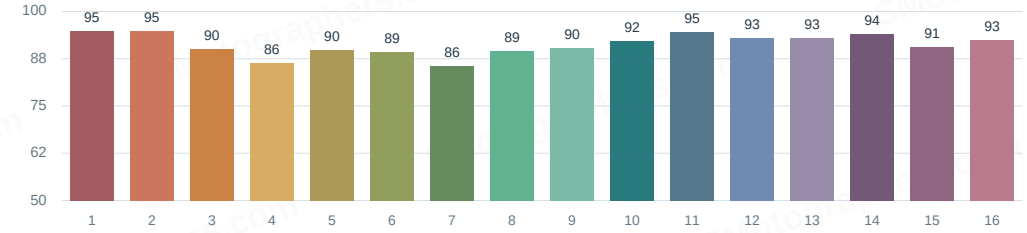
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



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Amaran 100x

TM-30 colour swatches: reference vs. measurement | Target CCT 2700 K

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [P2728]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
91	96	88	2728 K	0.0049	96	100 %

Hue bins 1-16: average per bin



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
-1 % Chroma	-0 % Chroma	-2 % Chroma	-8 % Chroma	-9 % Chroma	-6 % Chroma	-5 % Chroma	+0 % Chroma	+1 % Chroma	+2 % Chroma	+3 % Chroma	+2 % Chroma	-3 % Chroma	-1 % Chroma	-4 % Chroma	+0 % Chroma

Colour samples CES 1-99 (left reference, right measurement; sorted by hue bin)

CES 1 Rf 97	CES 2 Rf 95	CES 3 Rf 91	CES 4 Rf 93	CES 5 Rf 91	CES 6 Rf 96	CES 7 Rf 99	CES 8 Rf 96	CES 9 Rf 97	CES 98 Rf 94	CES 99 Rf 93
CES 10 Rf 96	CES 11 Rf 96	CES 12 Rf 96	CES 13 Rf 95	CES 14 Rf 98	CES 15 Rf 91	CES 16 Rf 93	CES 17 Rf 93	CES 18 Rf 92	CES 19 Rf 92	CES 20 Rf 87
CES 21 Rf 91	CES 22 Rf 87	CES 23 Rf 93	CES 24 Rf 92	CES 25 Rf 90	CES 26 Rf 87	CES 27 Rf 86	CES 28 Rf 96	CES 29 Rf 81	CES 30 Rf 78	CES 31 Rf 82
CES 33 Rf 83	CES 36 Rf 79	CES 32 Rf 86	CES 34 Rf 90	CES 35 Rf 96	CES 37 Rf 94	CES 38 Rf 75	CES 39 Rf 95	CES 40 Rf 93	CES 41 Rf 89	CES 42 Rf 89
CES 43 Rf 86	CES 44 Rf 99	CES 45 Rf 89	CES 47 Rf 83	CES 46 Rf 89	CES 48 Rf 79	CES 49 Rf 89	CES 50 Rf 89	CES 51 Rf 89	CES 52 Rf 91	CES 53 Rf 89
CES 54 Rf 90	CES 55 Rf 88	CES 56 Rf 90	CES 57 Rf 88	CES 58 Rf 89	CES 59 Rf 97	CES 60 Rf 93	CES 61 Rf 94	CES 62 Rf 84	CES 64 Rf 93	CES 65 Rf 93
CES 66 Rf 92	CES 67 Rf 93	CES 68 Rf 96	CES 63 Rf 91	CES 69 Rf 95	CES 70 Rf 97	CES 71 Rf 91	CES 72 Rf 98	CES 73 Rf 96	CES 75 Rf 93	CES 74 Rf 90
CES 76 Rf 96	CES 77 Rf 91	CES 78 Rf 96	CES 79 Rf 91	CES 80 Rf 94	CES 81 Rf 87	CES 82 Rf 97	CES 83 Rf 93	CES 84 Rf 98	CES 85 Rf 89	CES 86 Rf 92
CES 87 Rf 98	CES 88 Rf 91	CES 89 Rf 95	CES 90 Rf 87	CES 91 Rf 81	CES 92 Rf 91	CES 93 Rf 95	CES 94 Rf 92	CES 95 Rf 93	CES 96 Rf 99	CES 97 Rf 96

Shown as corresponding colours in sRGB (CAM02-UCS, adapted to D65); screen and print reproduction is only an approximation.

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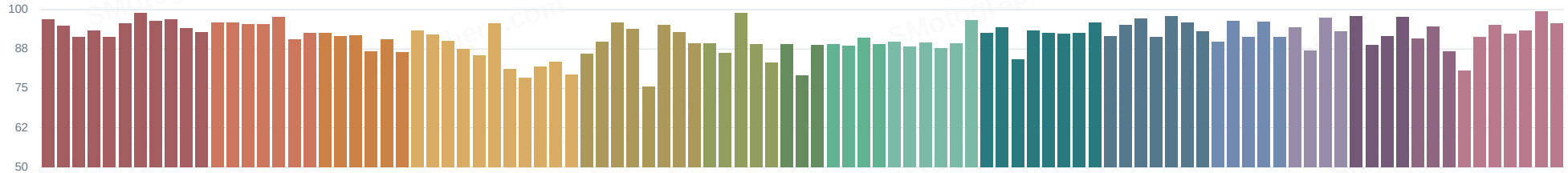
Amaran 100x

TM-30 colour samples & Academy SSI | Target CCT 2700 K

LED EVALUATOR

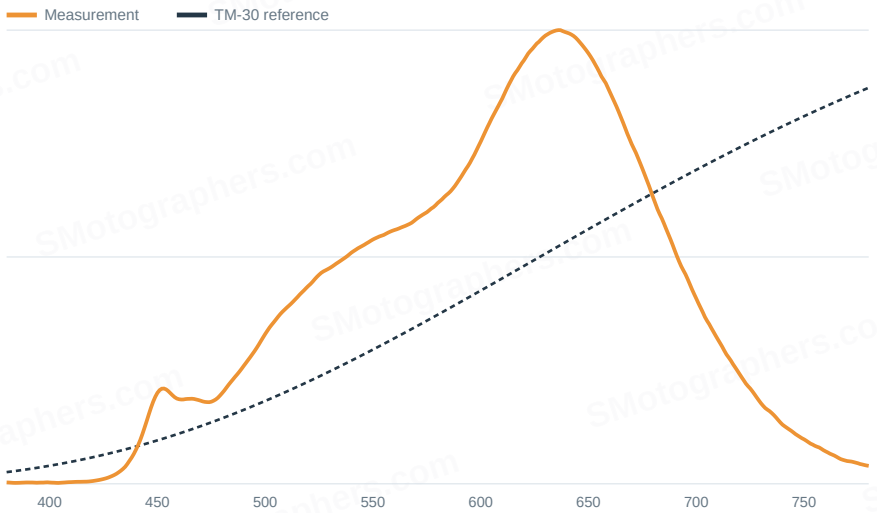
TM-30 RF	TM-30 RG	SSI [P2728]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
91	96	88	2728 K	0.0049	96	100 %

Fidelity per colour sample Rf,CES1-99

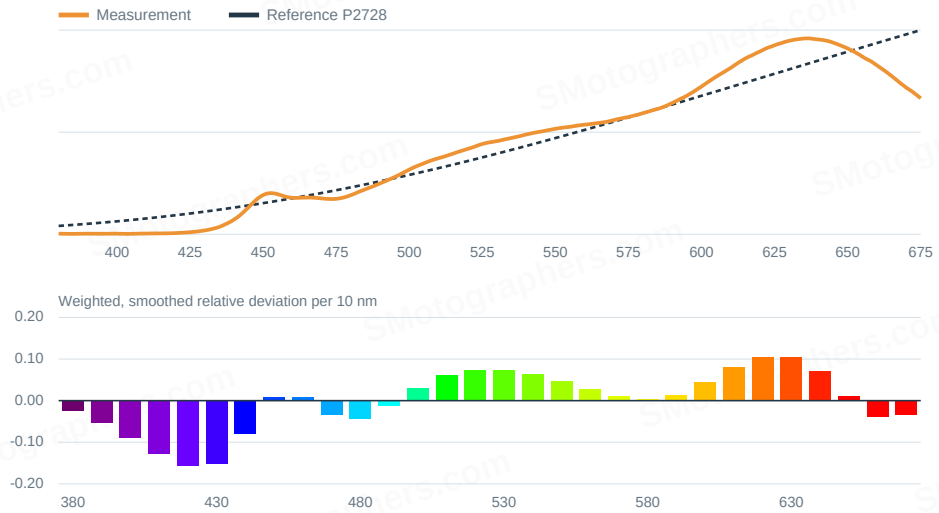


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [P2728]



Reference as in the Academy SSI calculator (default): Planckian below 4000 K, CIE daylight from 4000 K, each at the measured CCT.

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Amaran 100x

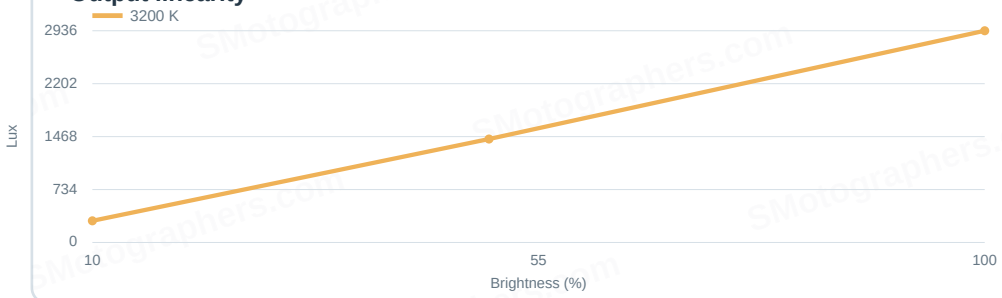
White light detail | Target CCT 3200 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
10%	300	3135 K	-0.00238	4.88	94.9	87.0	637 nm
50%	1434	3156 K	-0.00051	4.19	96.5	93.0	638 nm
100%	2936	3156 K	-0.00060	4.25	97.0	96.0	634 nm

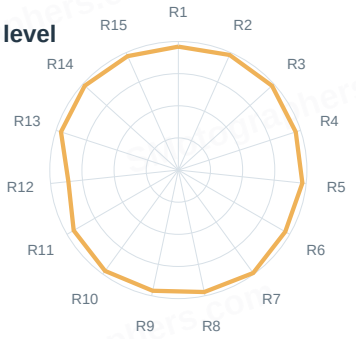
Colour metric	Value
SSI	84
TM-30 Rf	94
TM-30 Rg	101
TLCI (Info)	99
Measurements	3

Check	Value
Brightest level	100%
CCT deviation	-44 K
Mired deviation	4.36
Source	Amaran 100x 100% 3200

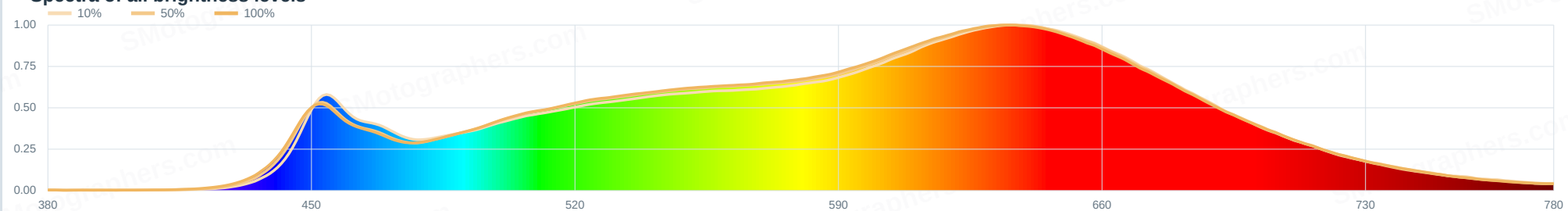
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



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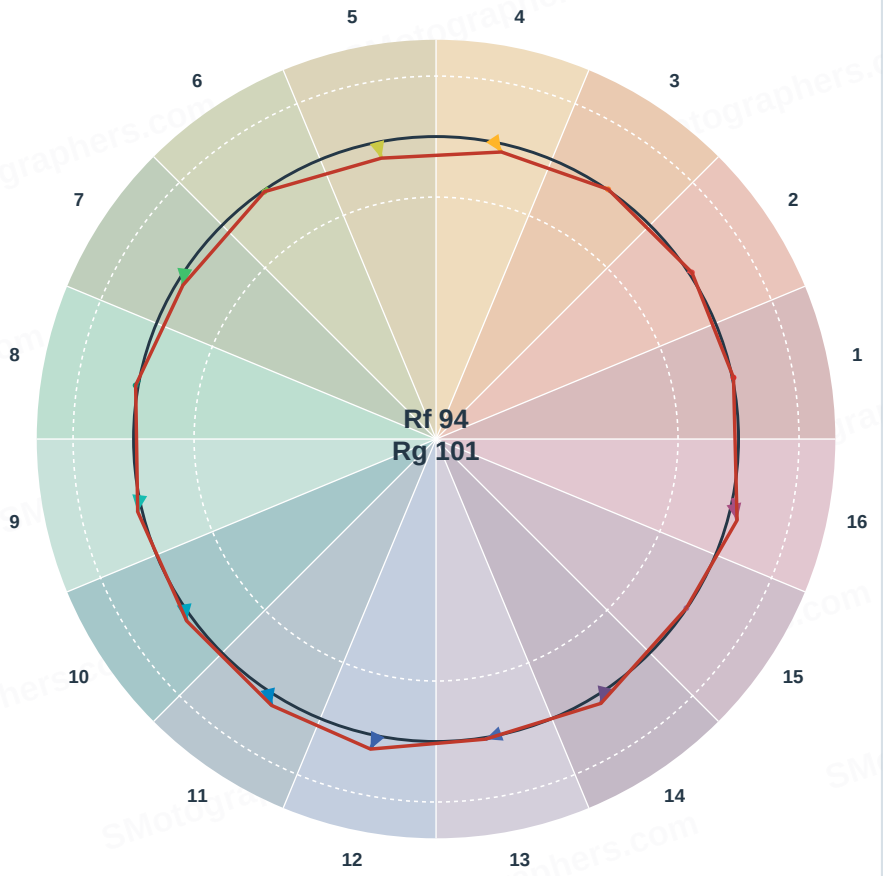
Amaran 100x

ANSI/IES TM-30 colour rendition | Target CCT 3200 K

LED EVALUATOR

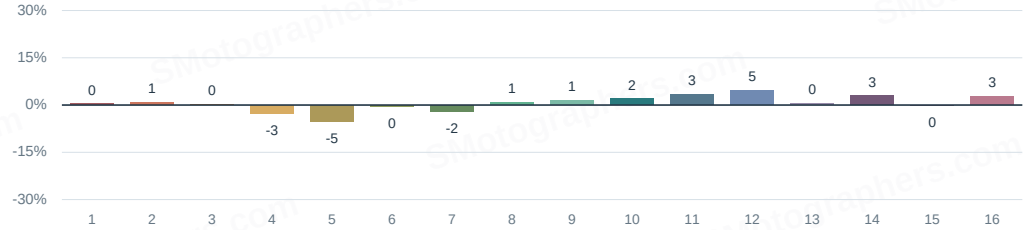
TM-30 RF	TM-30 RG	SSI [P3163]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	101	84	3155 K	-0.0006	99	100 %

Color Vector Graphic

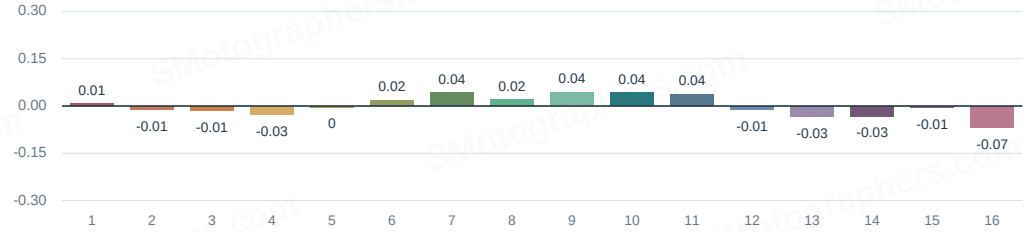


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

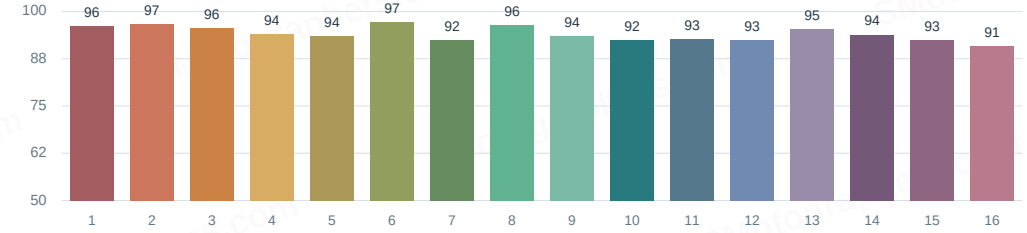
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



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Amaran 100x

TM-30 colour swatches: reference vs. measurement | Target CCT 3200 K

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [P3163]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	101	84	3155 K	-0.0006	99	100 %

Hue bins 1-16: average per bin



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
+0 % Chroma	+1 % Chroma	+0 % Chroma	-3 % Chroma	-5 % Chroma	-0 % Chroma	-2 % Chroma	+1 % Chroma	+1 % Chroma	+2 % Chroma	+3 % Chroma	+5 % Chroma	+0 % Chroma	+3 % Chroma	-0 % Chroma	+3 % Chroma

Colour samples CES 1-99 (left reference, right measurement; sorted by hue bin)

CES 1 Rf 98	CES 2 Rf 97	CES 3 Rf 90	CES 4 Rf 96	CES 5 Rf 92	CES 6 Rf 98	CES 7 Rf 97	CES 8 Rf 99	CES 9 Rf 98	CES 98 Rf 98	CES 99 Rf 94
CES 10 Rf 97	CES 11 Rf 97	CES 12 Rf 97	CES 13 Rf 97	CES 14 Rf 99	CES 15 Rf 93	CES 16 Rf 97	CES 17 Rf 97	CES 18 Rf 95	CES 19 Rf 97	CES 20 Rf 95
CES 21 Rf 97	CES 22 Rf 95	CES 23 Rf 96	CES 24 Rf 98	CES 25 Rf 98	CES 26 Rf 96	CES 27 Rf 88	CES 28 Rf 100	CES 29 Rf 92	CES 30 Rf 85	CES 31 Rf 93
CES 32 Rf 97	CES 33 Rf 92	CES 34 Rf 99	CES 35 Rf 99	CES 36 Rf 79	CES 37 Rf 97	CES 38 Rf 81	CES 39 Rf 98	CES 40 Rf 99	CES 41 Rf 94	CES 42 Rf 97
CES 43 Rf 99	CES 44 Rf 99	CES 45 Rf 97	CES 46 Rf 97	CES 47 Rf 93	CES 48 Rf 86	CES 49 Rf 98	CES 50 Rf 96	CES 51 Rf 96	CES 52 Rf 98	CES 53 Rf 97
CES 54 Rf 91	CES 55 Rf 90	CES 56 Rf 95	CES 57 Rf 93	CES 58 Rf 94	CES 59 Rf 98	CES 60 Rf 93	CES 61 Rf 94	CES 62 Rf 85	CES 64 Rf 95	CES 65 Rf 94
CES 66 Rf 94	CES 67 Rf 93	CES 68 Rf 94	CES 63 Rf 95	CES 69 Rf 93	CES 70 Rf 94	CES 71 Rf 88	CES 72 Rf 96	CES 73 Rf 90	CES 75 Rf 90	CES 76 Rf 96
CES 74 Rf 91	CES 77 Rf 93	CES 78 Rf 92	CES 79 Rf 95	CES 80 Rf 95	CES 81 Rf 91	CES 82 Rf 98	CES 83 Rf 97	CES 84 Rf 97	CES 85 Rf 87	CES 86 Rf 96
CES 87 Rf 96	CES 88 Rf 95	CES 89 Rf 95	CES 90 Rf 92	CES 92 Rf 89	CES 91 Rf 76	CES 93 Rf 93	CES 94 Rf 93	CES 95 Rf 89	CES 96 Rf 97	CES 97 Rf 97

Shown as corresponding colours in sRGB (CAM02-UCS, adapted to D65); screen and print reproduction is only an approximation.

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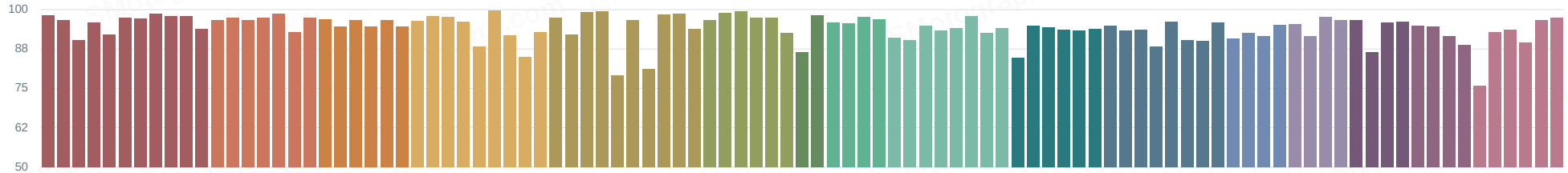
Amaran 100x

TM-30 colour samples & Academy SSI | Target CCT 3200 K

LED EVALUATOR

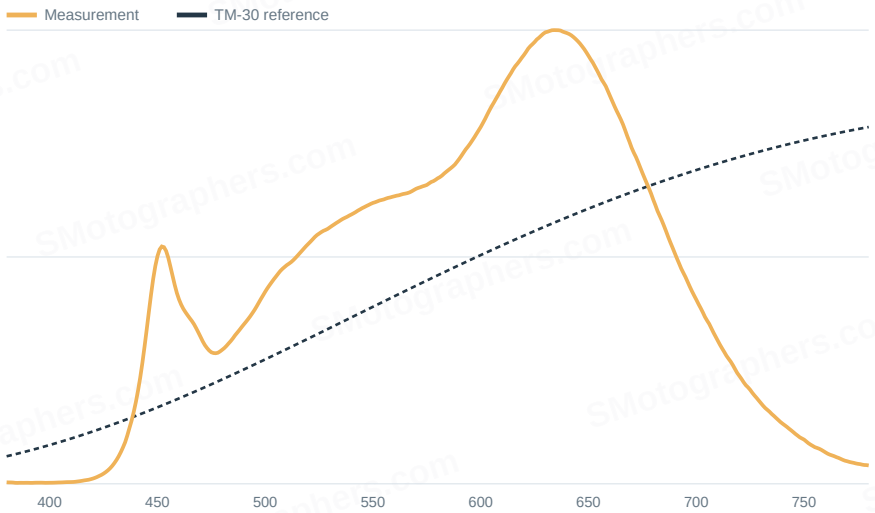
TM-30 RF	TM-30 RG	SSI [P3163]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	101	84	3155 K	-0.0006	99	100 %

Fidelity per colour sample Rf,CES1-99

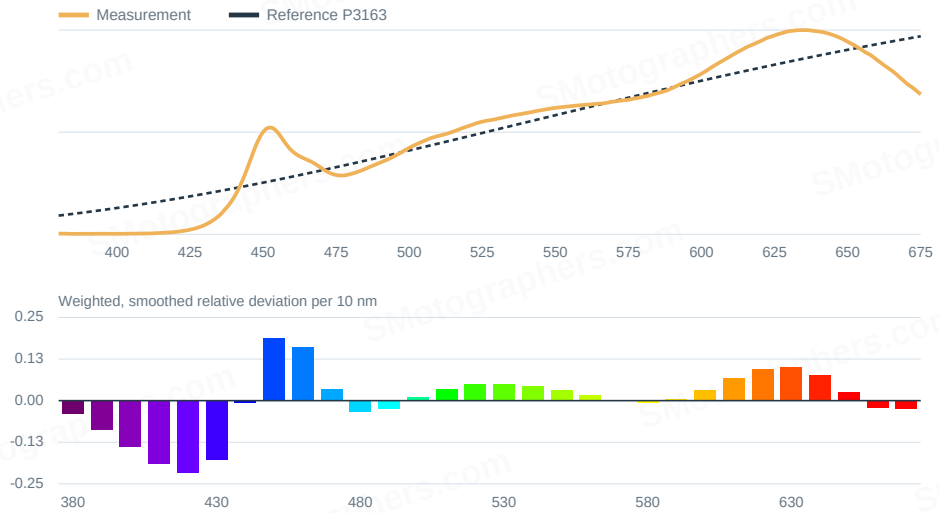


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [P3163]



Reference as in the Academy SSI calculator (default): Planckian below 4000 K, CIE daylight from 4000 K, each at the measured CCT.

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Amaran 100x

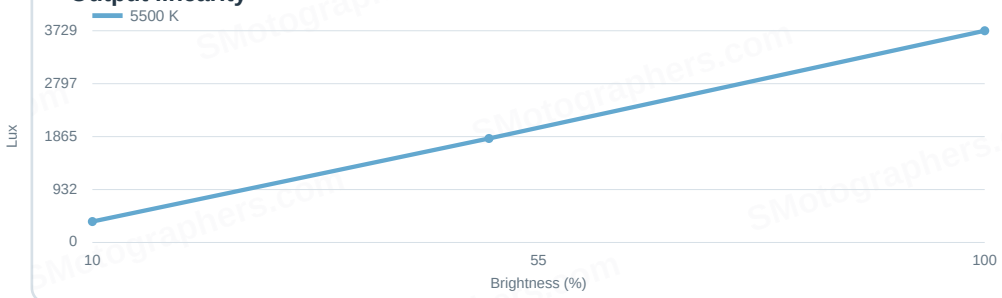
White light detail | Target CCT 5500 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
10%	369	5713 K	-0.00305	6.56	95.1	79.0	453 nm
50%	1832	5643 K	-0.00158	4.68	97.1	90.0	451 nm
100%	3729	5640 K	-0.00214	5.41	97.0	91.0	451 nm

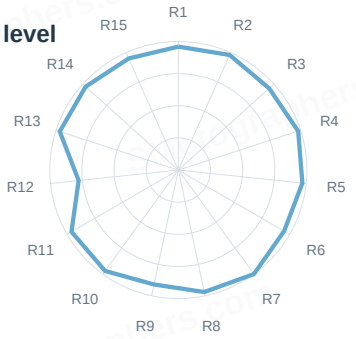
Colour metric	Value
SSI	72
TM-30 Rf	93
TM-30 Rg	102
TLCI (Info)	98
Measurements	3

Check	Value
Brightest level	100%
CCT deviation	140 K
Mired deviation	4.51
Source	Amaran 100x 100% 5500

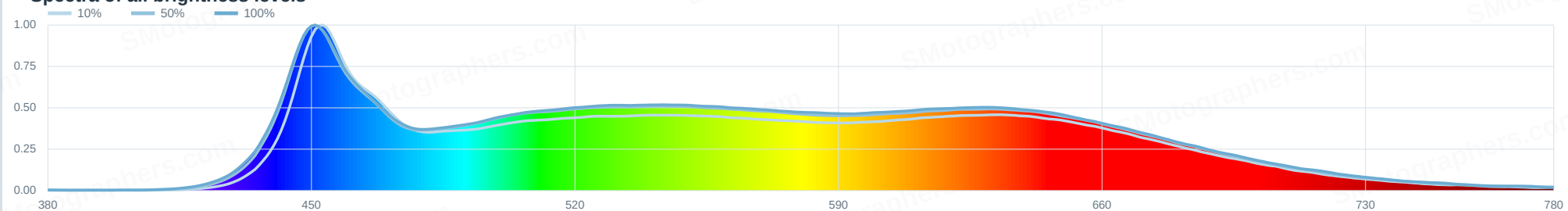
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



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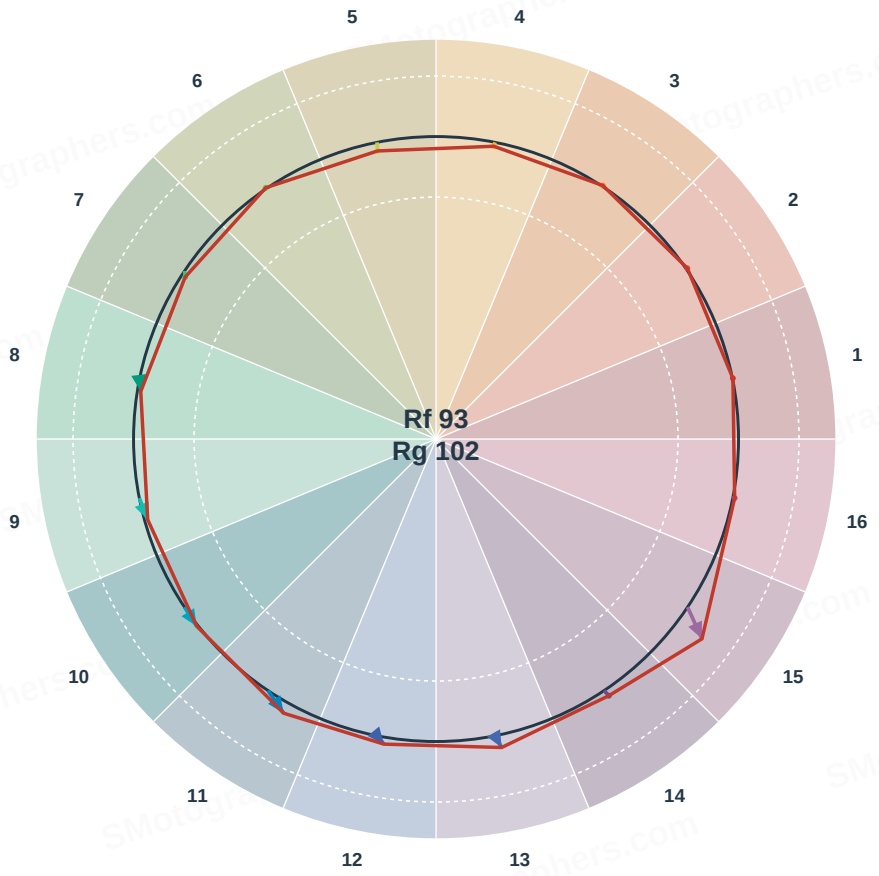
Amaran 100x

ANSI/IES TM-30 colour rendition | Target CCT 5500 K

LED EVALUATOR

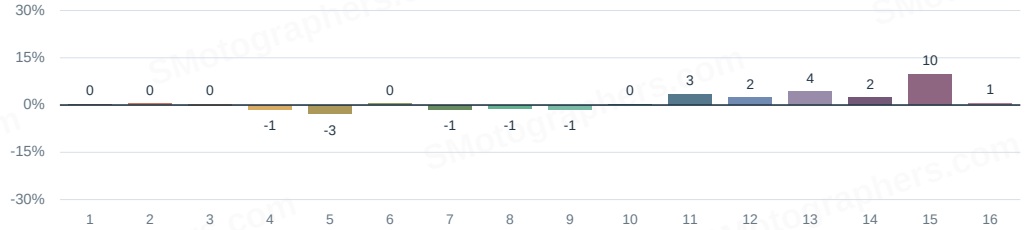
TM-30 RF	TM-30 RG	SSI [D5638]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
93	102	72	5636 K	-0.0021	98	100 %

Color Vector Graphic

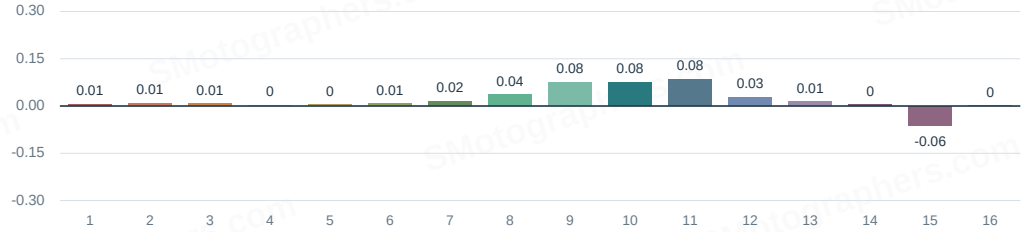


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

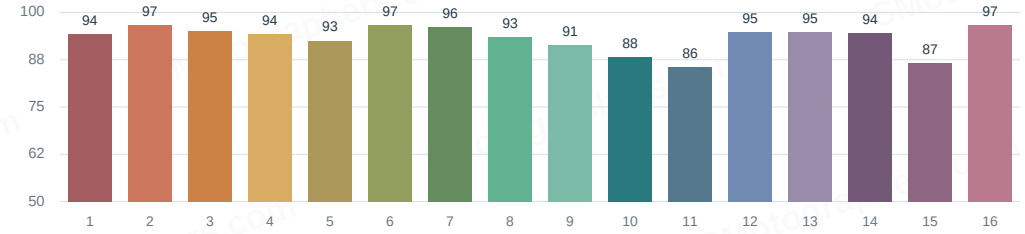
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



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Amaran 100x

TM-30 colour swatches: reference vs. measurement | Target CCT 5500 K

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [D5638]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
93	102	72	5636 K	-0.0021	98	100 %

Hue bins 1-16: average per bin

Reference

Measurement

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
+0 % Chroma	+0 % Chroma	+0 % Chroma	-1 % Chroma	-3 % Chroma	+0 % Chroma	-1 % Chroma	-1 % Chroma	-1 % Chroma	+0 % Chroma	+3 % Chroma	+2 % Chroma	+4 % Chroma	+2 % Chroma	+10 % Chroma	+1 % Chroma

Colour samples CES 1-99 (left reference, right measurement; sorted by hue bin)

CES 2 Rf 97	CES 3 Rf 86	CES 4 Rf 94	CES 5 Rf 91	CES 6 Rf 98	CES 7 Rf 97	CES 8 Rf 98	CES 9 Rf 96	CES 10 Rf 95	CES 11 Rf 96	CES 12 Rf 95
CES 13 Rf 98	CES 14 Rf 99	CES 15 Rf 93	CES 16 Rf 99	CES 17 Rf 98	CES 18 Rf 96	CES 19 Rf 96	CES 20 Rf 88	CES 21 Rf 95	CES 22 Rf 97	CES 23 Rf 98
CES 24 Rf 95	CES 25 Rf 92	CES 26 Rf 97	CES 27 Rf 89	CES 28 Rf 97	CES 29 Rf 97	CES 30 Rf 88	CES 31 Rf 98	CES 32 Rf 95	CES 33 Rf 96	CES 34 Rf 94
CES 35 Rf 96	CES 36 Rf 78	CES 37 Rf 95	CES 38 Rf 83	CES 39 Rf 99	CES 40 Rf 99	CES 41 Rf 95	CES 42 Rf 94	CES 43 Rf 94	CES 44 Rf 99	CES 45 Rf 97
CES 46 Rf 99	CES 47 Rf 96	CES 48 Rf 90	CES 49 Rf 98	CES 50 Rf 97	CES 51 Rf 96	CES 52 Rf 99	CES 53 Rf 98	CES 54 Rf 92	CES 55 Rf 90	CES 56 Rf 95
CES 57 Rf 93	CES 58 Rf 93	CES 59 Rf 97	CES 60 Rf 91	CES 61 Rf 91	CES 62 Rf 84	CES 63 Rf 93	CES 64 Rf 90	CES 65 Rf 91	CES 66 Rf 88	CES 67 Rf 87
CES 68 Rf 88	CES 69 Rf 87	CES 70 Rf 87	CES 71 Rf 79	CES 72 Rf 93	CES 73 Rf 81	CES 74 Rf 91	CES 75 Rf 82	CES 76 Rf 87	CES 77 Rf 87	CES 78 Rf 84
CES 79 Rf 97	CES 80 Rf 93	CES 81 Rf 97	CES 82 Rf 97	CES 83 Rf 99	CES 84 Rf 93	CES 85 Rf 85	CES 86 Rf 98	CES 87 Rf 93	CES 88 Rf 96	CES 89 Rf 95
CES 90 Rf 94	CES 91 Rf 70	CES 92 Rf 86	CES 93 Rf 91	CES 94 Rf 93	CES 95 Rf 85	CES 1 Rf 99	CES 96 Rf 94	CES 97 Rf 98	CES 98 Rf 98	CES 99 Rf 95

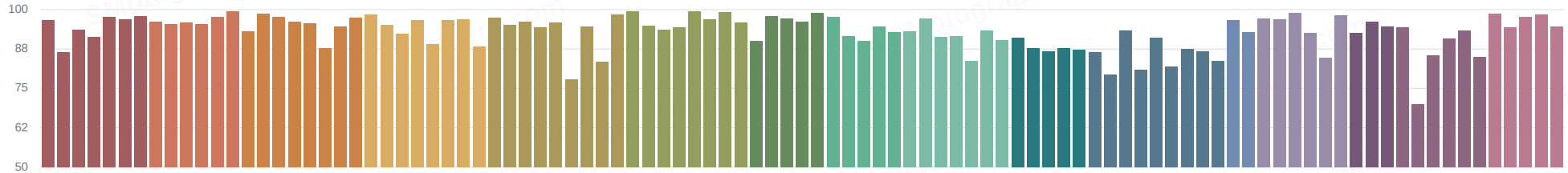
Shown as corresponding colours in sRGB (CAM02-UCS, adapted to D65); screen and print reproduction is only an approximation.

Amaran 100x

TM-30 colour samples & Academy SSI | Target CCT 5500 K

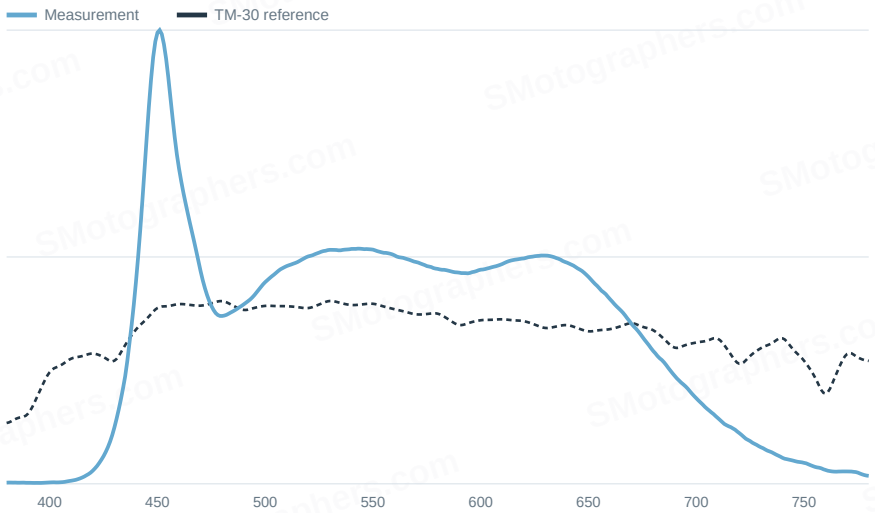
TM-30 RF	TM-30 RG	SSI [D5638]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
93	102	72	5636 K	-0.0021	98	100 %

Fidelity per colour sample Rf,CES1-99

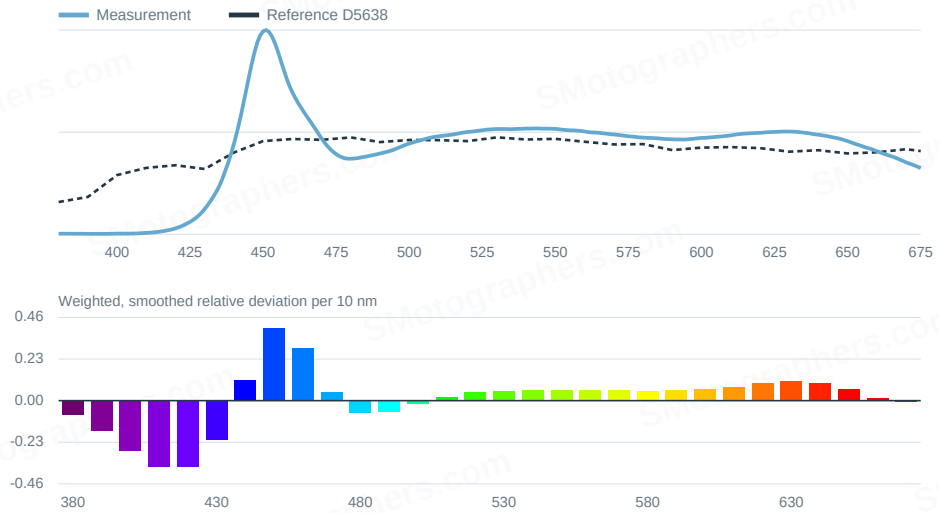


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [D5638]



Reference as in the Academy SSI calculator (default): Planckian below 4000 K, CIE daylight from 4000 K, each at the measured CCT.

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Amaran 100x

White light detail | Target CCT 6500 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
100%	3339	6749 K	0.00015	4.21	97.0	98.0	451 nm

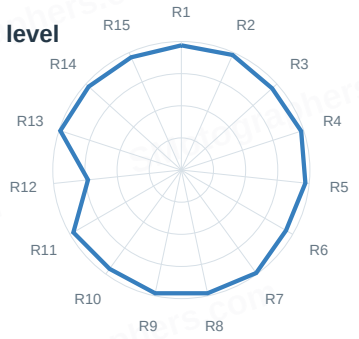
Colour metric	Value
SSI	68
TM-30 Rf	92
TM-30 Rg	100
TLCI (Info)	97
Measurements	1

Check	Value
Brightest level	100%
CCT deviation	249 K
Mired deviation	5.68
Source	Amaran 100x 100% 6500

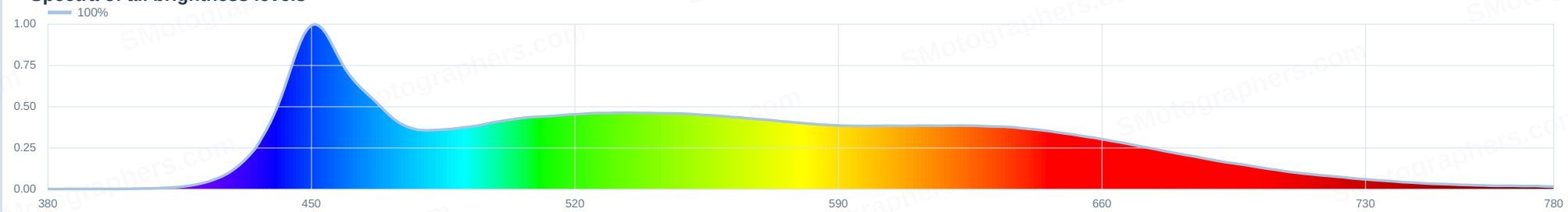
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



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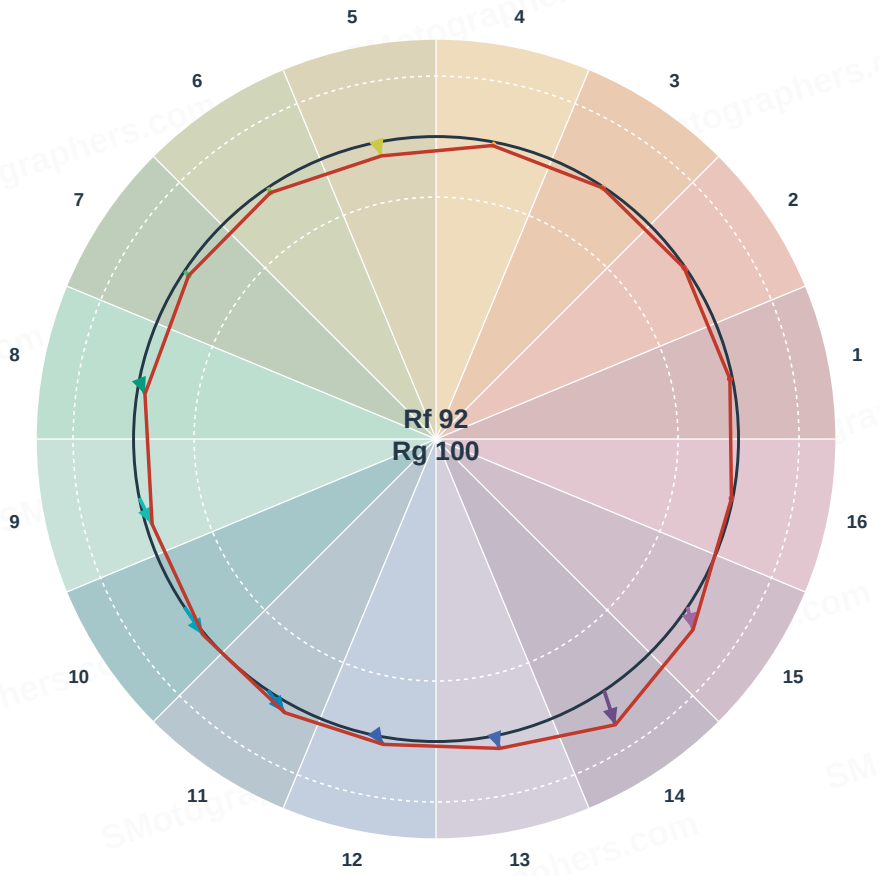
Amaran 100x

ANSI/IES TM-30 colour rendition | Target CCT 6500 K

LED EVALUATOR

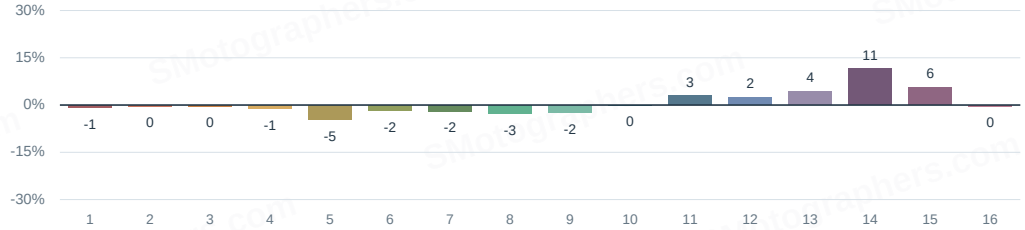
TM-30 RF	TM-30 RG	SSI [D6740]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
92	100	68	6742 K	0.0001	97	100 %

Color Vector Graphic

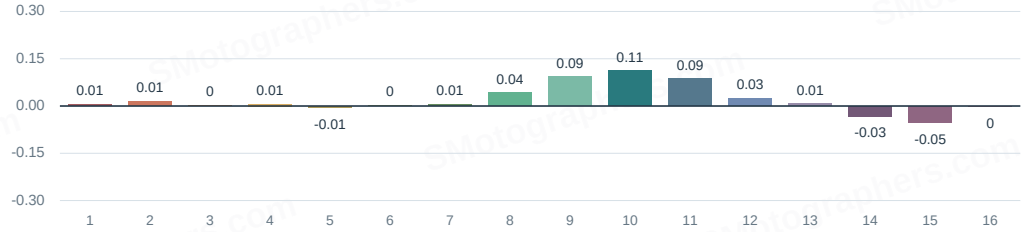


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

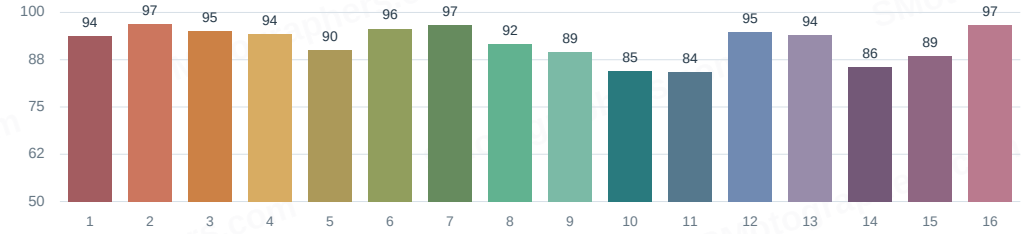
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



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Amaran 100x

TM-30 colour swatches: reference vs. measurement | Target CCT 6500 K

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [D6740]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
92	100	68	6742 K	0.0001	97	100 %

Hue bins 1-16: average per bin



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
-1 % Chroma	-0 % Chroma	-0 % Chroma	-1 % Chroma	-5 % Chroma	-2 % Chroma	-2 % Chroma	-3 % Chroma	-2 % Chroma	-0 % Chroma	+3 % Chroma	+2 % Chroma	+4 % Chroma	+11 % Chroma	+6 % Chroma	-0 % Chroma

Colour samples CES 1-99 (left reference, right measurement; sorted by hue bin)

CES 2 Rf 97	CES 3 Rf 84	CES 4 Rf 91	CES 5 Rf 90	CES 6 Rf 97	CES 7 Rf 99	CES 8 Rf 99	CES 10 Rf 96	CES 11 Rf 95	CES 12 Rf 95	CES 13 Rf 99	CES 14 Rf 100	CES 9 Rf 96	CES 15 Rf 92	CES 16 Rf 98	CES 17 Rf 97	CES 18 Rf 95	CES 19 Rf 95	CES 20 Rf 89	CES 21 Rf 94
CES 22 Rf 97	CES 23 Rf 98	CES 24 Rf 95	CES 25 Rf 92	CES 26 Rf 97	CES 27 Rf 87	CES 28 Rf 97	CES 29 Rf 95	CES 30 Rf 85	CES 31 Rf 95	CES 32 Rf 96	CES 33 Rf 93	CES 34 Rf 95	CES 35 Rf 96	CES 36 Rf 75	CES 37 Rf 95	CES 38 Rf 79	CES 39 Rf 98	CES 40 Rf 98	CES 41 Rf 93
CES 42 Rf 95	CES 43 Rf 97	CES 44 Rf 99	CES 45 Rf 99	CES 46 Rf 98	CES 47 Rf 93	CES 48 Rf 87	CES 49 Rf 98	CES 50 Rf 96	CES 51 Rf 94	CES 52 Rf 98	CES 53 Rf 97	CES 54 Rf 90	CES 55 Rf 88	CES 56 Rf 92	CES 57 Rf 90	CES 58 Rf 91	CES 59 Rf 96	CES 60 Rf 90	CES 61 Rf 90
CES 62 Rf 81	CES 63 Rf 91	CES 64 Rf 87	CES 65 Rf 88	CES 66 Rf 84	CES 67 Rf 83	CES 68 Rf 86	CES 69 Rf 86	CES 71 Rf 75	CES 74 Rf 89	CES 70 Rf 85	CES 72 Rf 92	CES 73 Rf 79	CES 75 Rf 79	CES 76 Rf 87	CES 77 Rf 85	CES 78 Rf 83	CES 79 Rf 97	CES 80 Rf 93	CES 81 Rf 97
CES 82 Rf 97	CES 83 Rf 98	CES 84 Rf 92	CES 85 Rf 83	CES 86 Rf 98	CES 87 Rf 93	CES 88 Rf 97	CES 89 Rf 94	CES 91 Rf 65	CES 90 Rf 94	CES 92 Rf 84	CES 93 Rf 90	CES 94 Rf 92	CES 95 Rf 83	CES 1 Rf 98	CES 96 Rf 94	CES 97 Rf 98	CES 98 Rf 98	CES 99 Rf 95	

Shown as corresponding colours in sRGB (CAM02-UCS, adapted to D65); screen and print reproduction is only an approximation.

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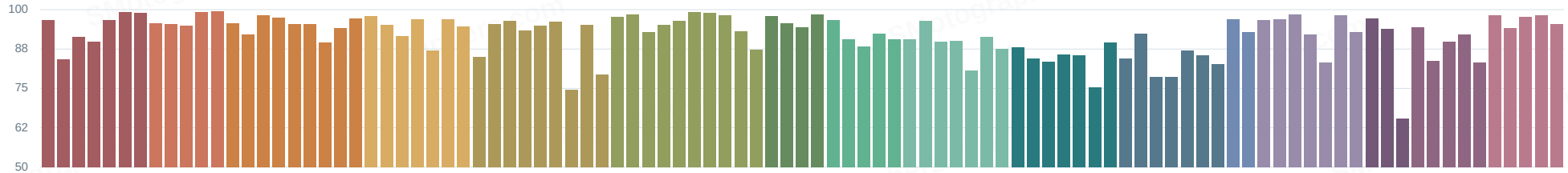
Amaran 100x

TM-30 colour samples & Academy SSI | Target CCT 6500 K

LED EVALUATOR

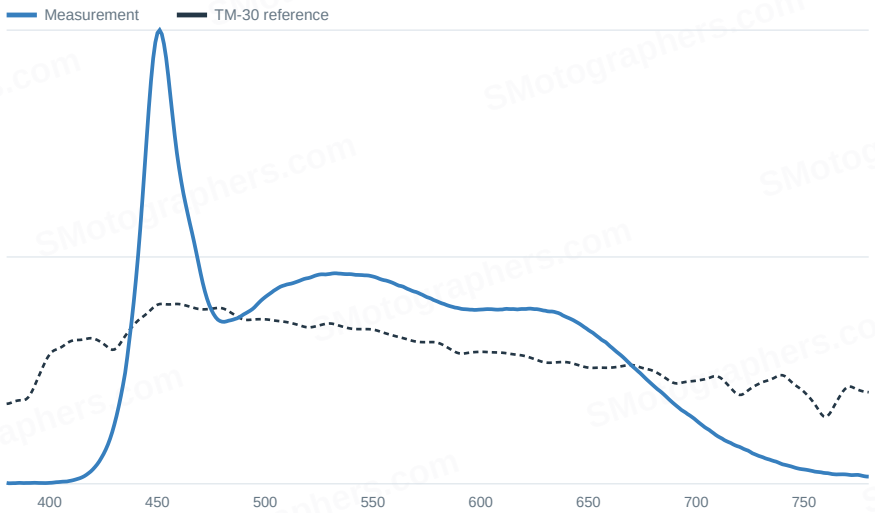
TM-30 RF	TM-30 RG	SSI [D6740]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
92	100	68	6742 K	0.0001	97	100 %

Fidelity per colour sample Rf,CES1-99

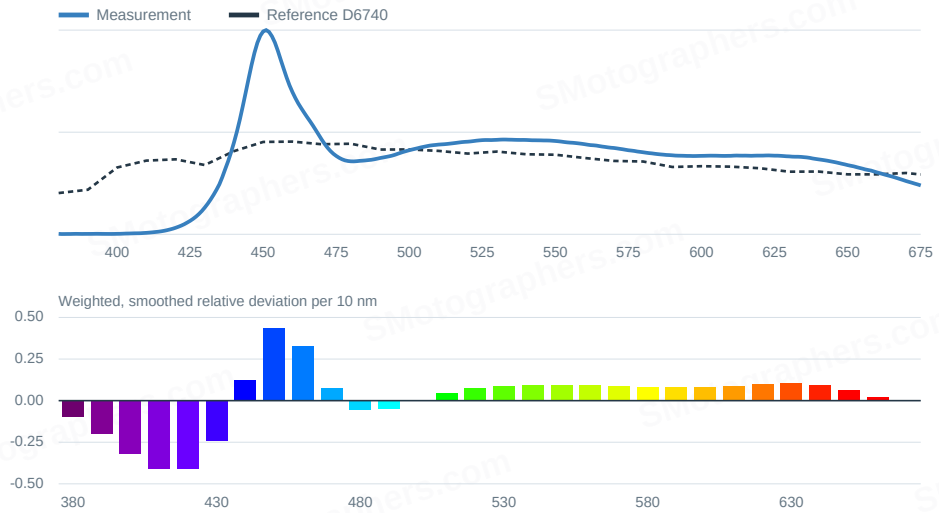


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [D6740]



Reference as in the Academy SSI calculator (default): Planckian below 4000 K, CIE daylight from 4000 K, each at the measured CCT.

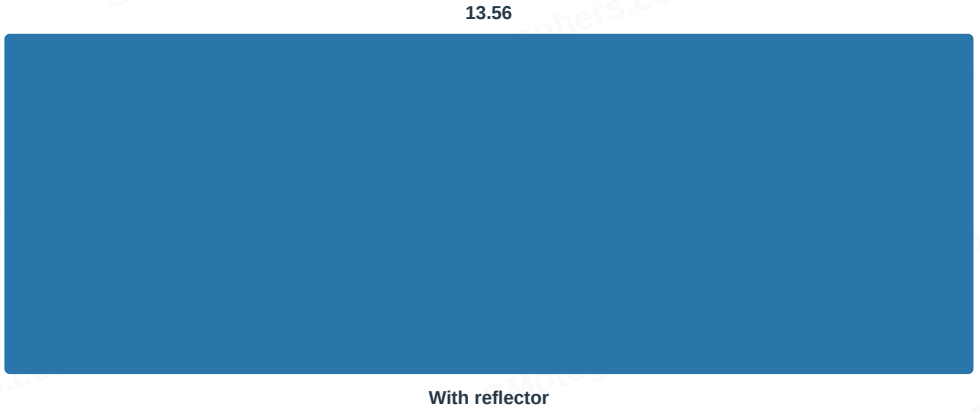
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Amaran 100x

Reflectors | Maximum output

Reflector	Target CCT	Lux	EV	Measured CCT	Duv	Source
With reflector	-	30108	13.56	5393 K	0.00033	Amaran 100x 100% max with reflector

Max EV per reflector



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