Nanlite Forza 60C

Measurement overview | 100 % measurements and reflectors

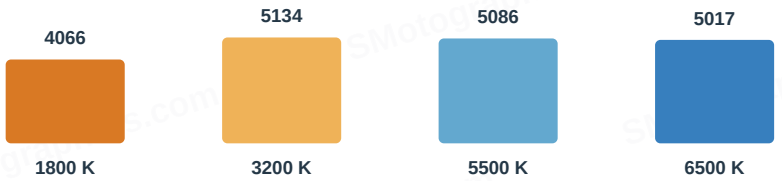
LED EVALUATOR

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	1800 K	100%	4066	10.67	1812 K	-0.00281	97.0	87.0	80.0	90.0	109.0	83	Nanlite Forza 60C 100% lowest
White	3200 K	100%	5134	11.00	3113 K	-0.00158	98.1	97.0	79.0	94.0	102.0	96	Nanlite Forza 60C 100% 3200
White	5500 K	100%	5086	10.99	5645 K	-0.00304	96.8	92.0	69.0	94.0	102.0	97	Nanlite Forza 60C 100% 5500
White	6500 K	100%	5017	10.97	6897 K	-0.00285	96.5	93.0	65.0	93.0	102.0	97	Nanlite Forza 60C 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
Standard reflector	-	100%	12691	12.31	5543 K	-0.00078	97.0	92.0	Nanlite Forza 60C 100% max with reflector

© Marvin Kuhn | SMotographers.com

Nanlite Forza 60C

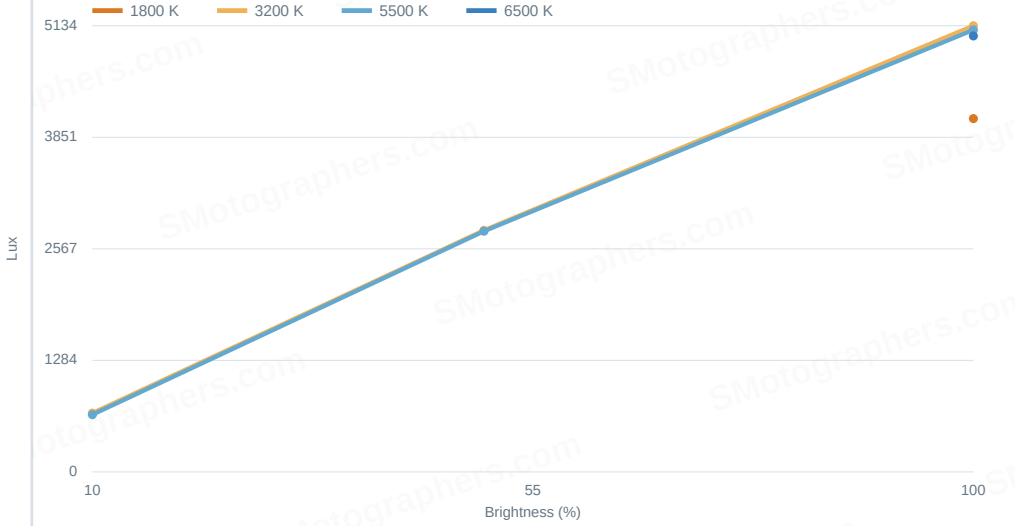
LED Lab Report | Numbers-Import

TOTAL	COLOUR	POWER	USABILITY	RGB
80.5	79.2	83.9	78.3	-

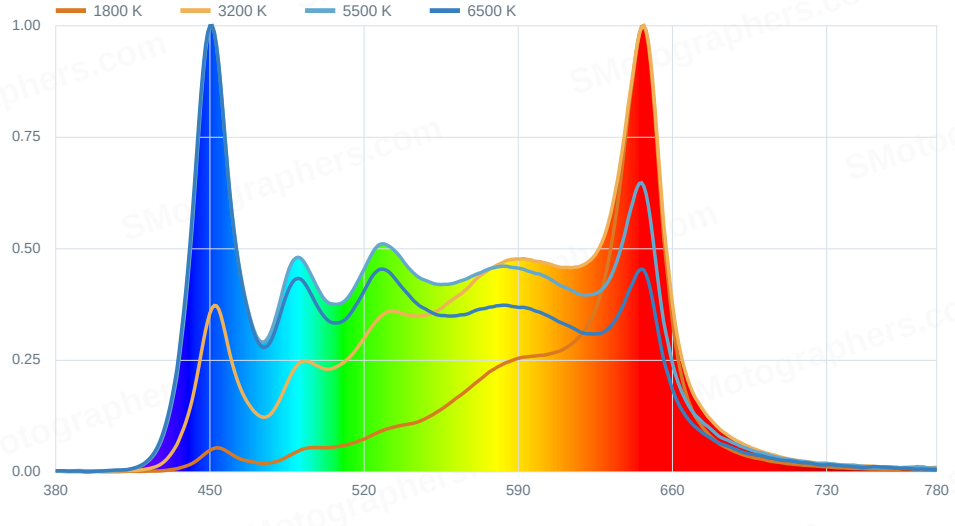
Luminaire	Value	Test	Value
LED type	RGB	Power	88.0 W
Test date	2026-07-29	Distance	-
Modifier	Verschiedene Setups aus dem Numbers-Rechner	Mode	Linear (current)
RGB in total	Yes	Measurements	9

Target CCT	Max Lux	Measured CCT	Duv	Ra	SSI	Rf	Rg	TLCI
1800 K	4066	1812	-0.00281	97.0	80.0	90.0	109.0	83
3200 K	5134	3113	-0.00158	98.1	79.0	94.0	102.0	96
5500 K	5086	5645	-0.00304	96.8	69.0	94.0	102.0	97
6500 K	5017	6897	-0.00285	96.5	65.0	93.0	102.0	97

Output across CCTs and levels



Spectrum at maximum brightness



© Marvin Kuhn | SMotographers.com

Nanlite Forza 60C

White light detail | Target CCT 1800 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
100%	4066	1812 K	-0.00281	30.19	97.0	87.0	647 nm

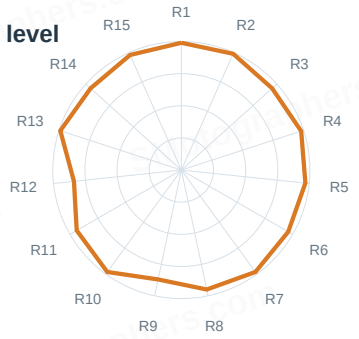
Colour metric	Value
SSI	80
TM-30 Rf	90
TM-30 Rg	109
TLCI (Info)	83
Measurements	1

Check	Value
Brightest level	100%
CCT deviation	12 K
Mired deviation	3.68
Source	Nanlite Forza 60C 100% lowest

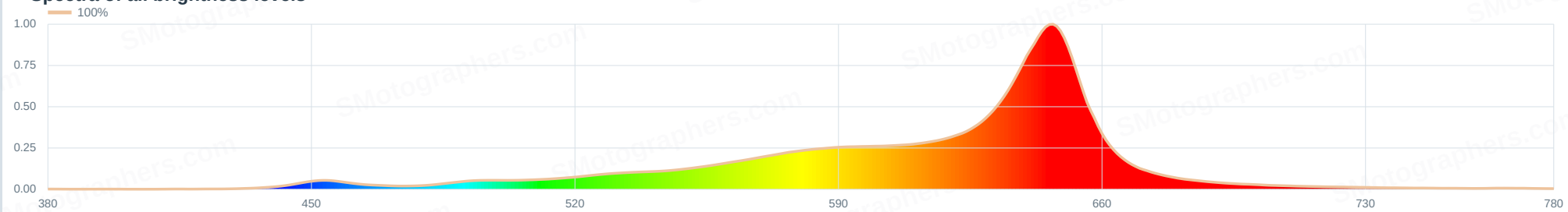
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



© Marvin Kuhn | SMotographers.com

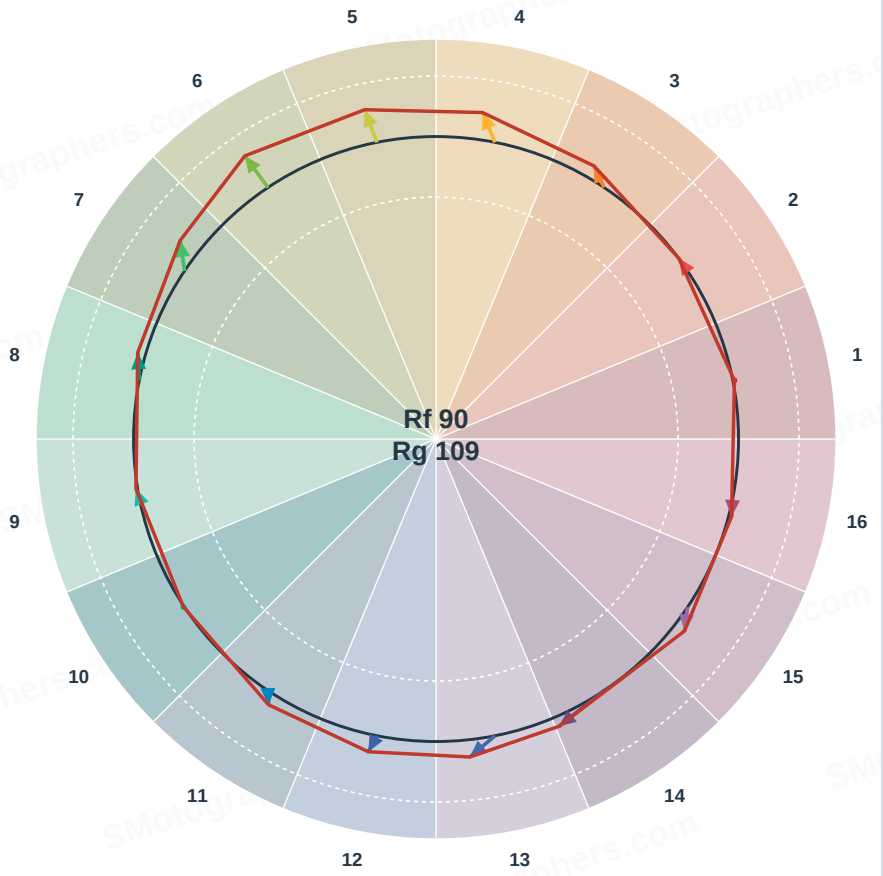
Nanlite Forza 60C

ANSI/IES TM-30 colour rendition | Target CCT 1800 K

LED EVALUATOR

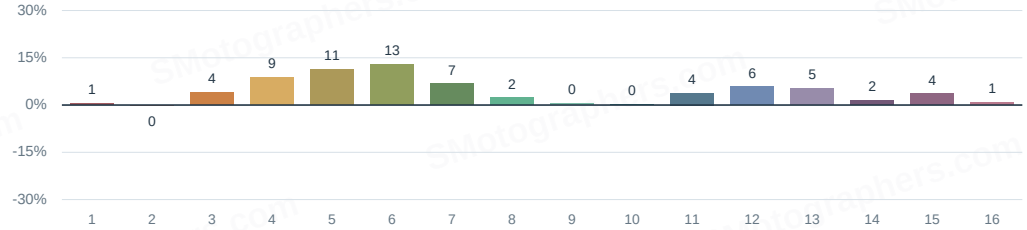
TM-30 RF	TM-30 RG	SSI [P1802]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
90	109	80	1811 K	-0.0029	83	100 %

Color Vector Graphic

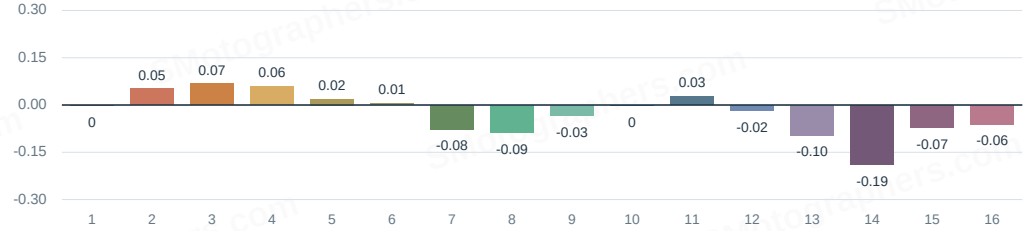


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

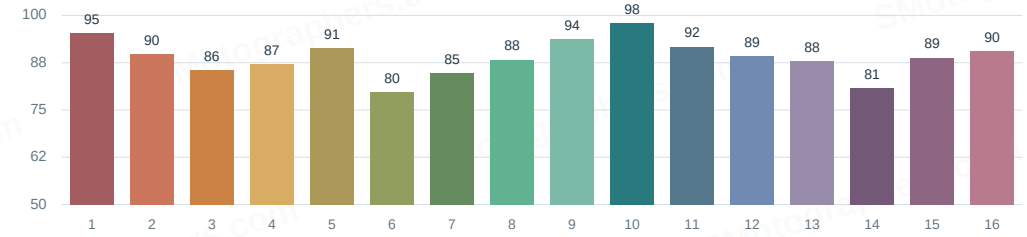
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



© Marvin Kuhn | SMotographers.com

Nanlite Forza 60C

TM-30 colour swatches: reference vs. measurement | Target CCT 1800 K

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [P1802]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
90	109	80	1811 K	-0.0029	83	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	+4 % Chroma	+9 % Chroma	+11 % Chroma	+13 % Chroma	+7 % Chroma	+2 % Chroma	+0 % Chroma	+0 % Chroma	+4 % Chroma	+6 % Chroma	+5 % Chroma	+2 % Chroma	+4 % Chroma	+1 % Chroma

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

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

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

© Marvin Kuhn | SMotographers.com

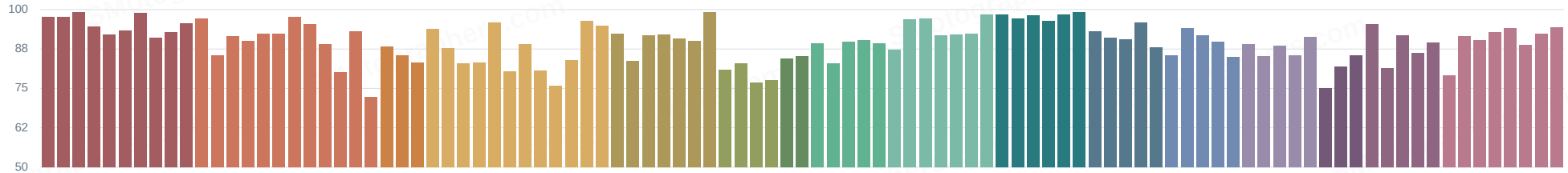
Nanlite Forza 60C

TM-30 colour samples & Academy SSI | Target CCT 1800 K

LED EVALUATOR

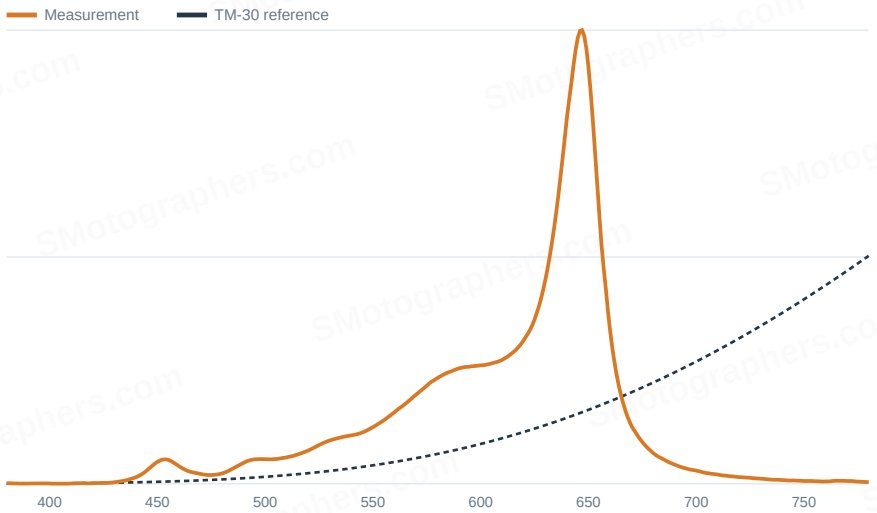
TM-30 RF	TM-30 RG	SSI [P1802]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
90	109	80	1811 K	-0.0029	83	100 %

Fidelity per colour sample Rf,CES1-99

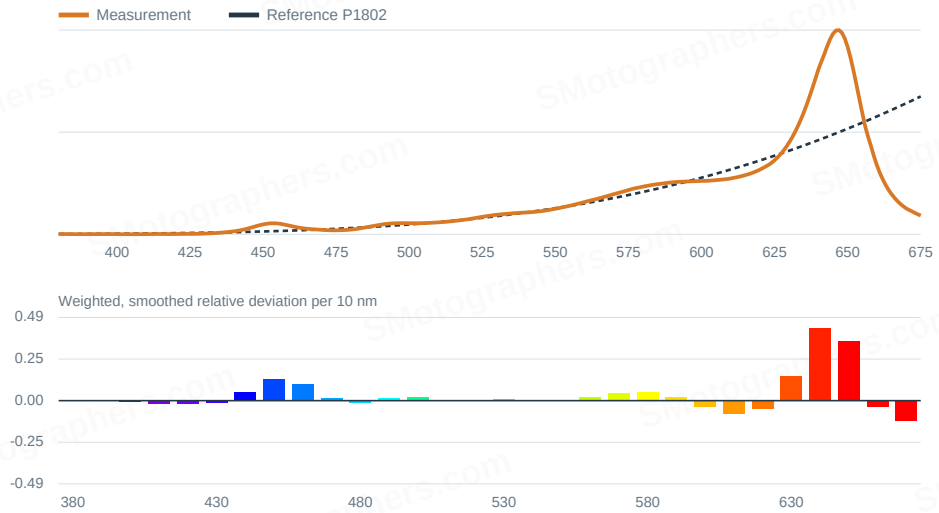


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [P1802]



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

© Marvin Kuhn | SMotographers.com

Nanlite Forza 60C

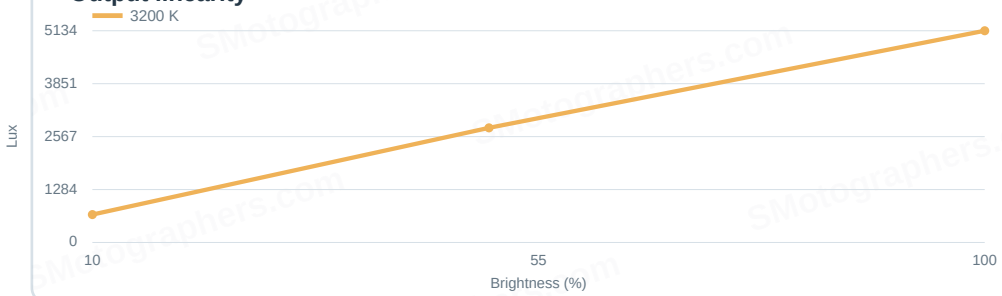
White light detail | Target CCT 3200 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
10%	677	3197 K	-0.00328	7.43	97.8	89.0	645 nm
50%	2780	3169 K	-0.00135	5.12	97.9	95.0	646 nm
100%	5134	3113 K	-0.00158	3.50	98.1	97.0	647 nm

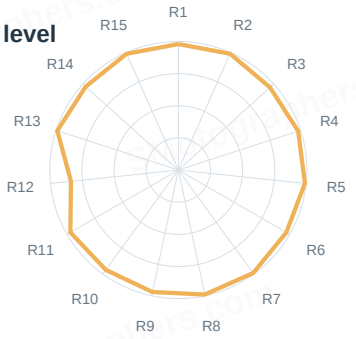
Colour metric	Value
SSI	79
TM-30 Rf	94
TM-30 Rg	102
TLCI (Info)	96
Measurements	3

Check	Value
Brightest level	100%
CCT deviation	-87 K
Mired deviation	8.73
Source	Nanlite Forza 60C 100% 3200

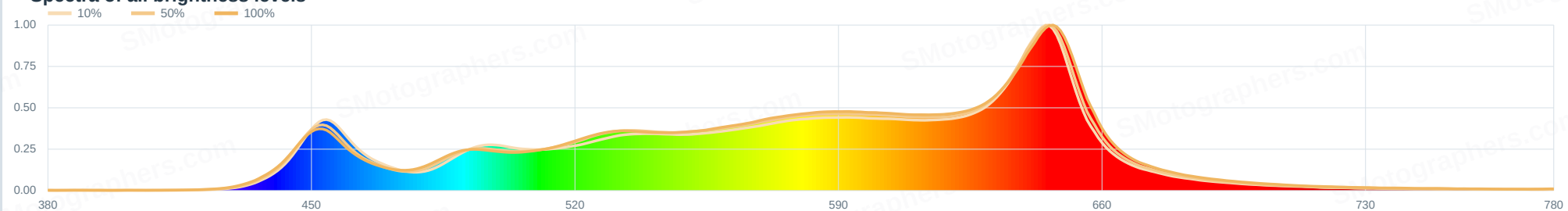
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



© Marvin Kuhn | SMotographers.com

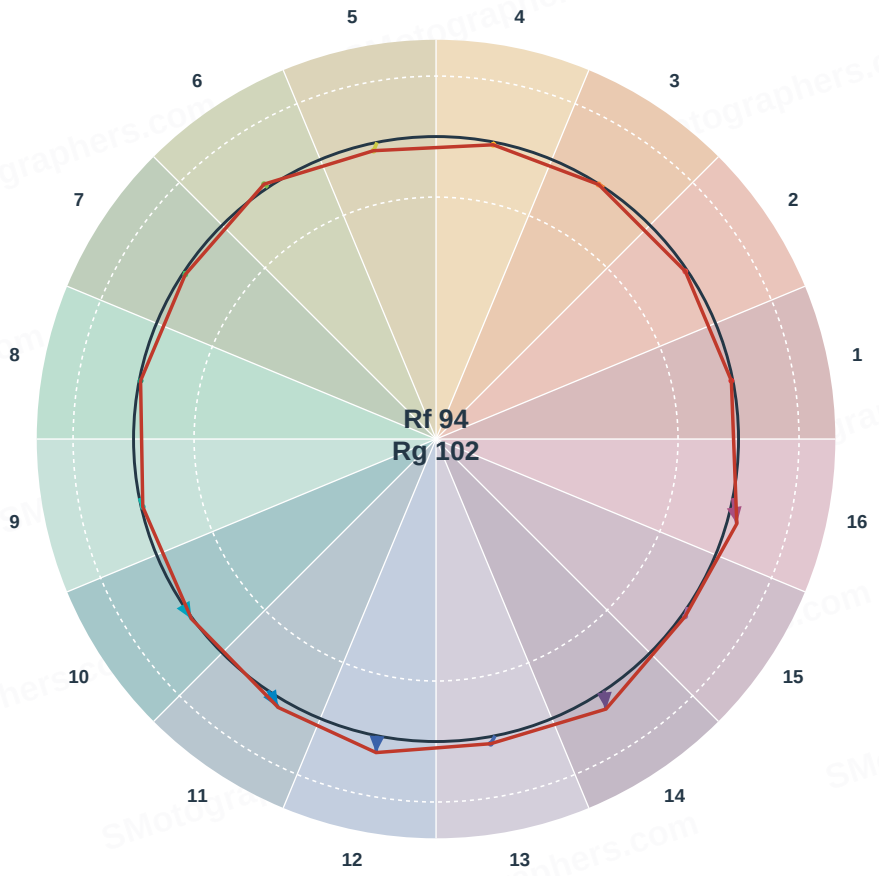
Nanlite Forza 60C

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

LED EVALUATOR

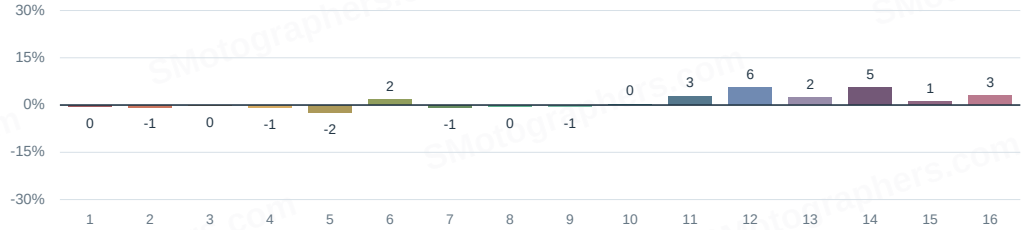
TM-30 RF	TM-30 RG	SSI [P3121]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	79	3113 K	-0.0016	96	100 %

Color Vector Graphic

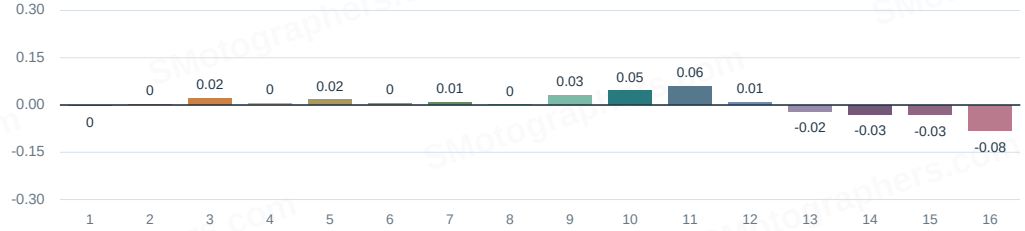


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

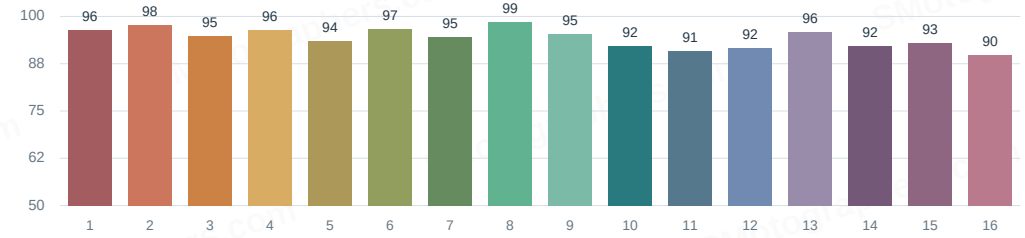
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



© Marvin Kuhn | SMotographers.com

Nanlite Forza 60C

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

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [P3121]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	79	3113 K	-0.0016	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
-0 % Chroma	-1 % Chroma	-0 % Chroma	-1 % Chroma	-2 % Chroma	+2 % Chroma	-1 % Chroma	-0 % Chroma	-1 % Chroma	+0 % Chroma	+3 % Chroma	+6 % Chroma	+2 % Chroma	+5 % Chroma	+1 % Chroma	+3 % Chroma

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

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

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

© Marvin Kuhn | SMotographers.com

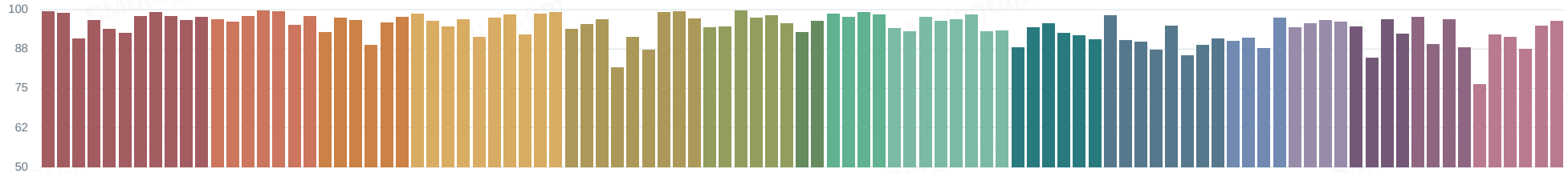
Nanlite Forza 60C

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

LED EVALUATOR

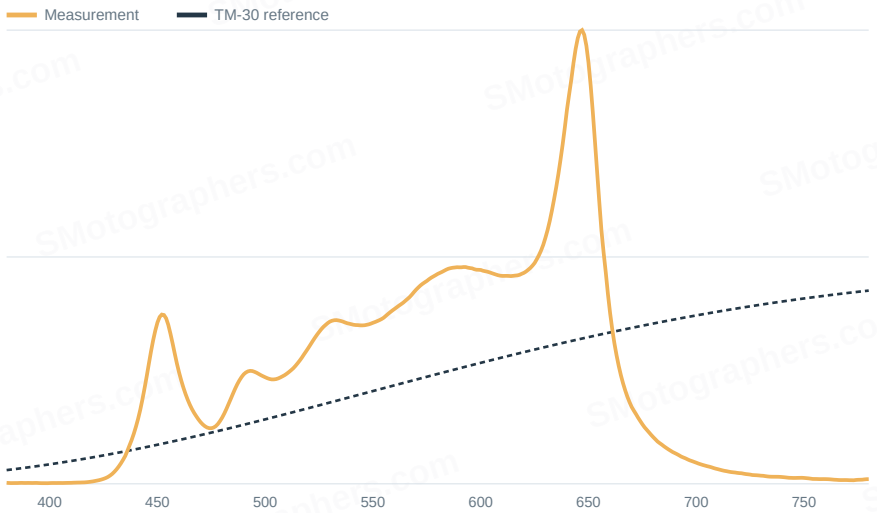
TM-30 RF	TM-30 RG	SSI [P3121]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	79	3113 K	-0.0016	96	100 %

Fidelity per colour sample Rf,CES1-99

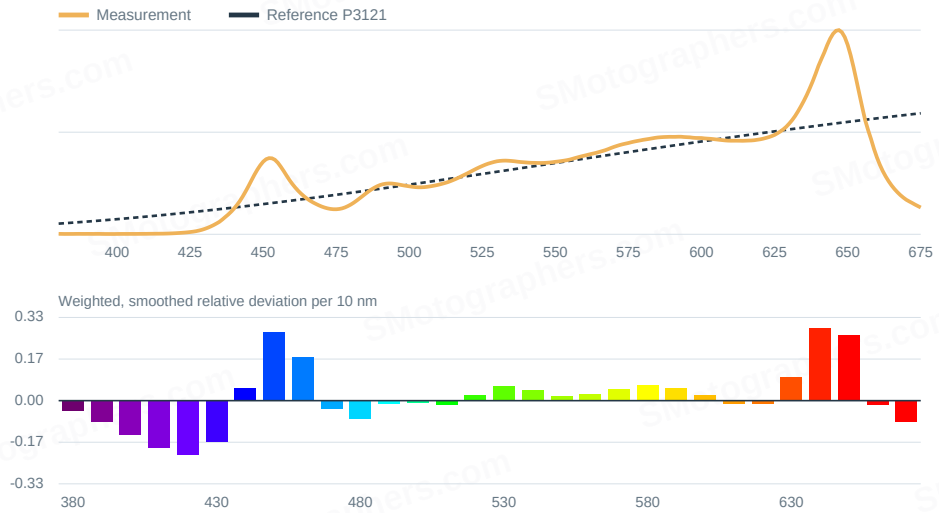


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [P3121]



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

© Marvin Kuhn | SMotographers.com

Nanlite Forza 60C

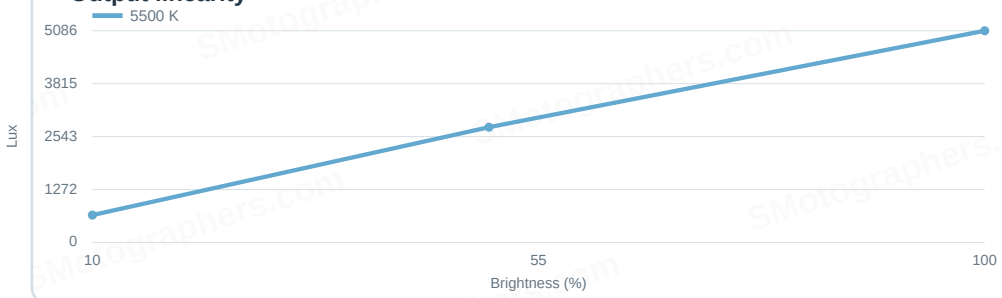
White light detail | Target CCT 5500 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
10%	658	5823 K	-0.00279	6.55	96.6	97.0	453 nm
50%	2770	5748 K	-0.00255	5.99	97.0	97.0	452 nm
100%	5086	5645 K	-0.00304	6.55	96.8	92.0	451 nm

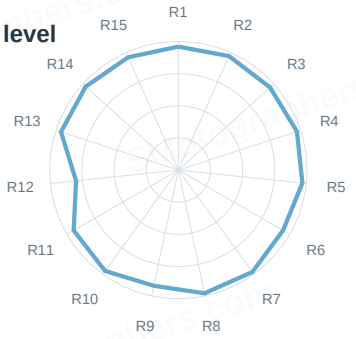
Colour metric	Value
SSI	69
TM-30 Rf	94
TM-30 Rg	102
TLCI (Info)	97
Measurements	3

Check	Value
Brightest level	100%
CCT deviation	145 K
Mired deviation	4.67
Source	Nanlite Forza 60C 100% 5500

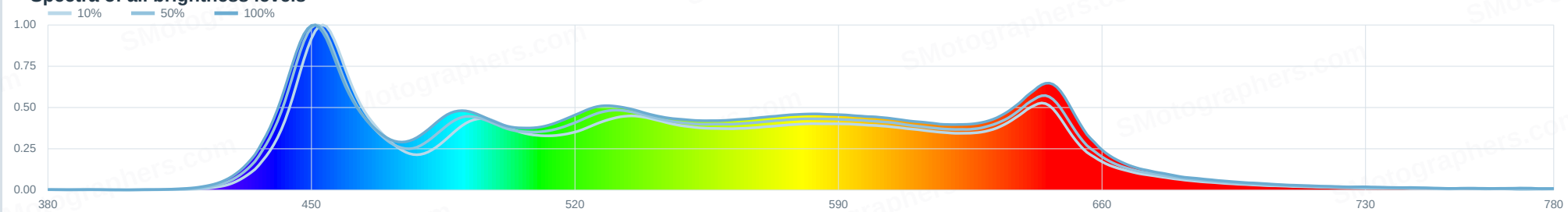
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



© Marvin Kuhn | SMotographers.com

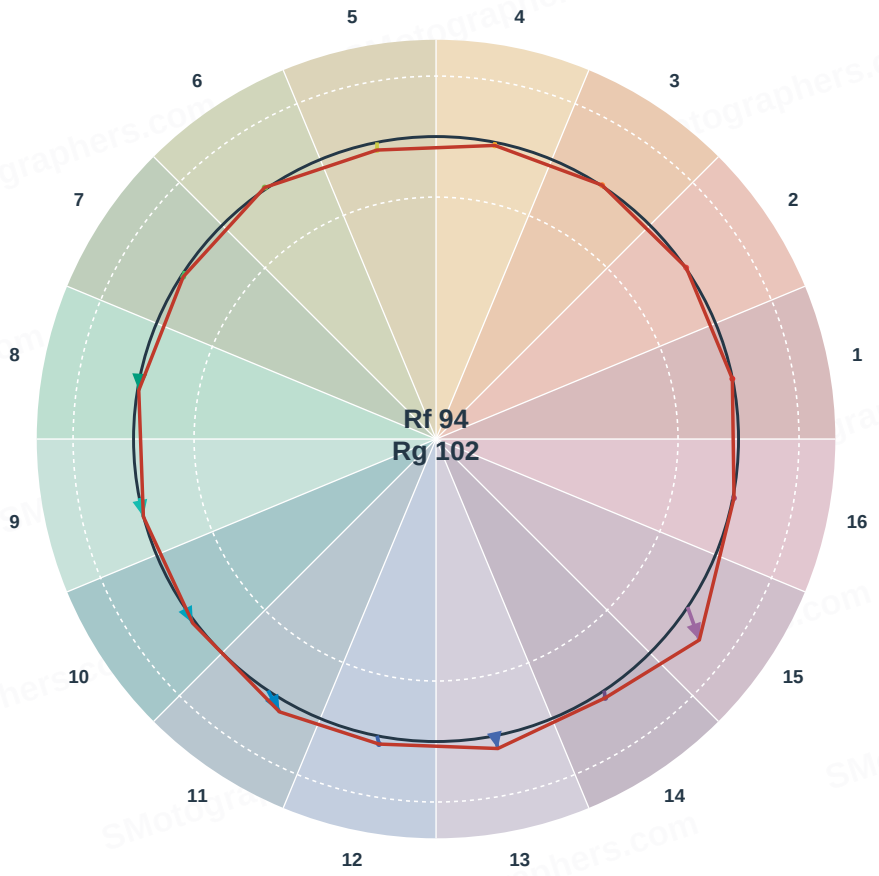
Nanlite Forza 60C

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

LED EVALUATOR

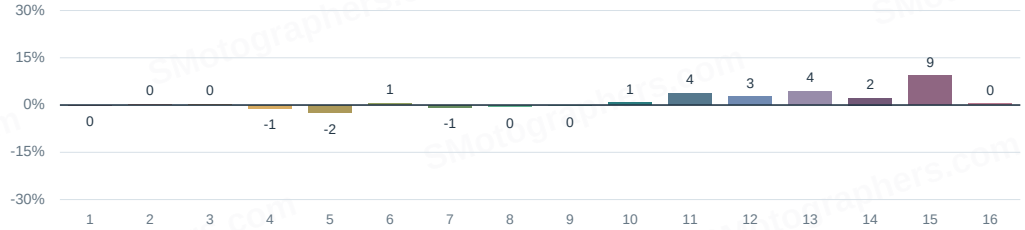
TM-30 RF	TM-30 RG	SSI [D5651]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	69	5649 K	-0.0031	97	100 %

Color Vector Graphic

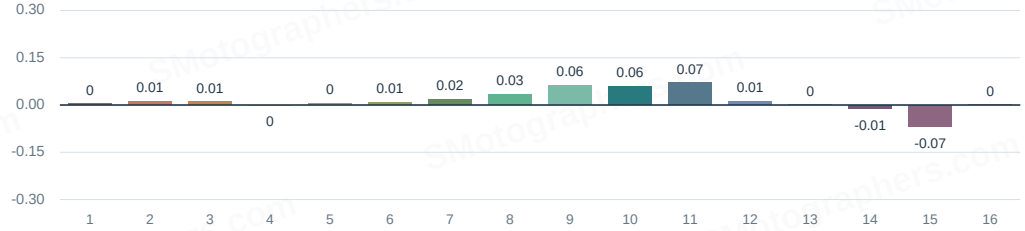


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

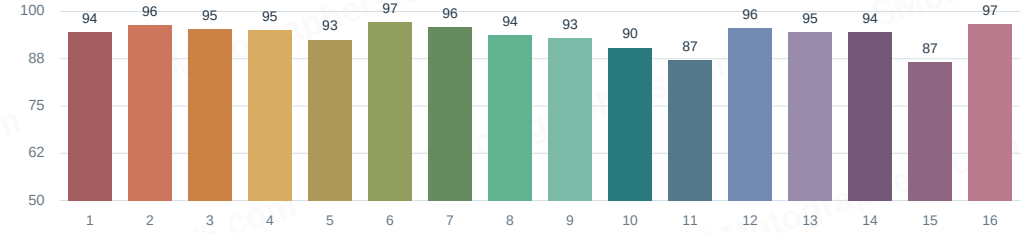
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



© Marvin Kuhn | SMotographers.com

Nanlite Forza 60C

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

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [D5651]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	69	5649 K	-0.0031	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
-0 % Chroma	+0 % Chroma	+0 % Chroma	-1 % Chroma	-2 % Chroma	+1 % Chroma	-1 % Chroma	-0 % Chroma	-0 % Chroma	+1 % Chroma	+4 % Chroma	+3 % Chroma	+4 % Chroma	+2 % Chroma	+9 % Chroma	+0 % Chroma

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

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

© Marvin Kuhn | SMotographers.com

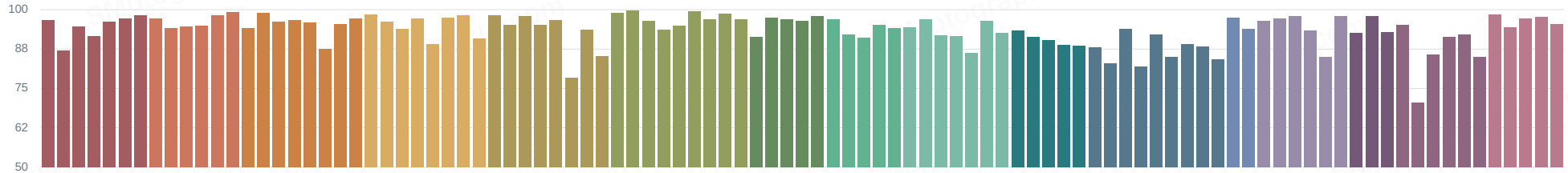
Nanlite Forza 60C

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

LED EVALUATOR

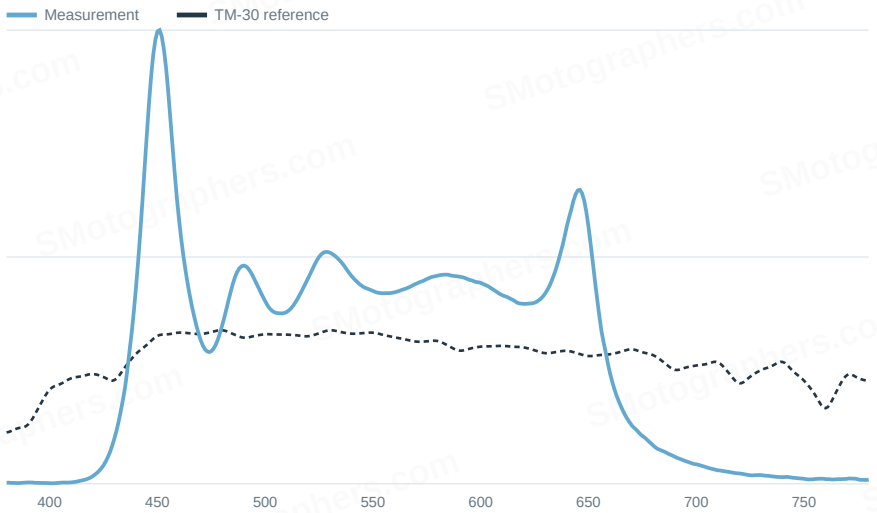
TM-30 RF	TM-30 RG	SSI [D5651]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	69	5649 K	-0.0031	97	100 %

Fidelity per colour sample Rf,CES1-99

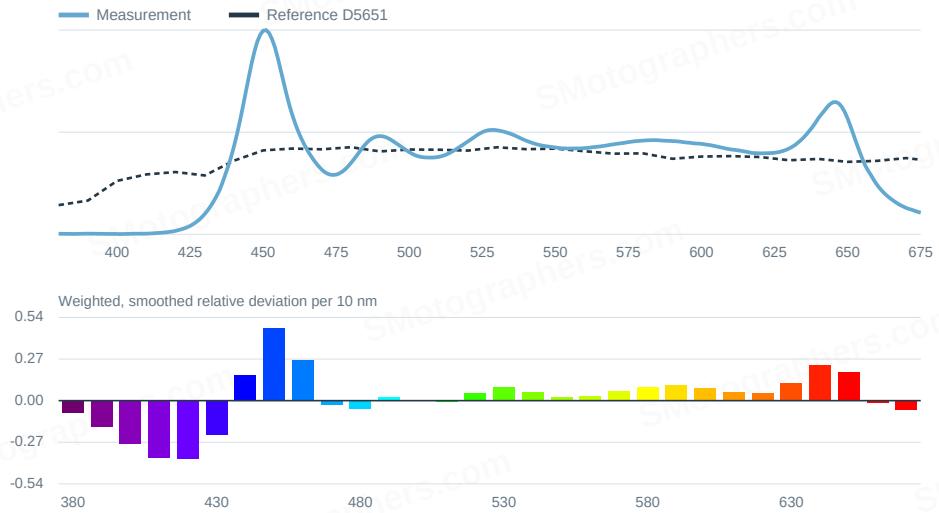


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [D5651]



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

© Marvin Kuhn | SMotographers.com

Nanlite Forza 60C

White light detail | Target CCT 6500 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
100%	5017	6897 K	-0.00285	8.12	96.5	93.0	451 nm

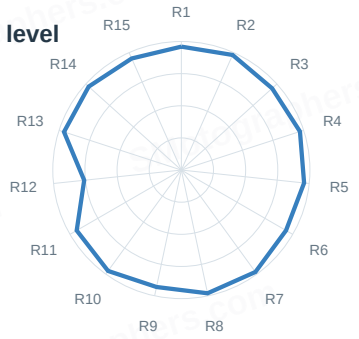
Colour metric	Value
SSI	65
TM-30 Rf	93
TM-30 Rg	102
TLCI (Info)	97
Measurements	1

Check	Value
Brightest level	100%
CCT deviation	397 K
Mired deviation	8.86
Source	Nanlite Forza 60C 100% 6500

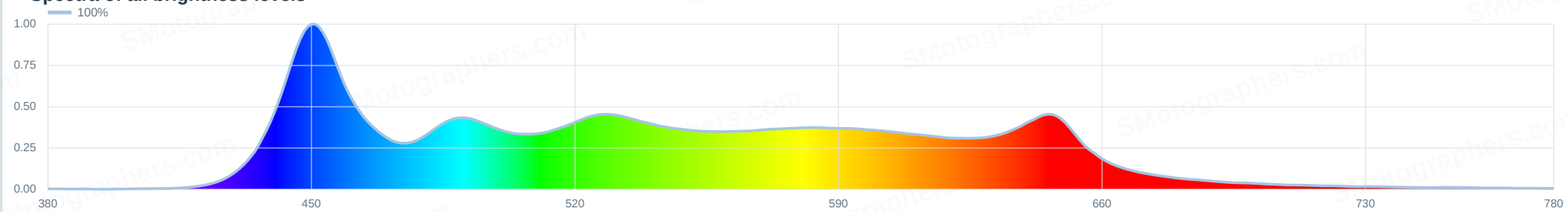
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



© Marvin Kuhn | SMotographers.com

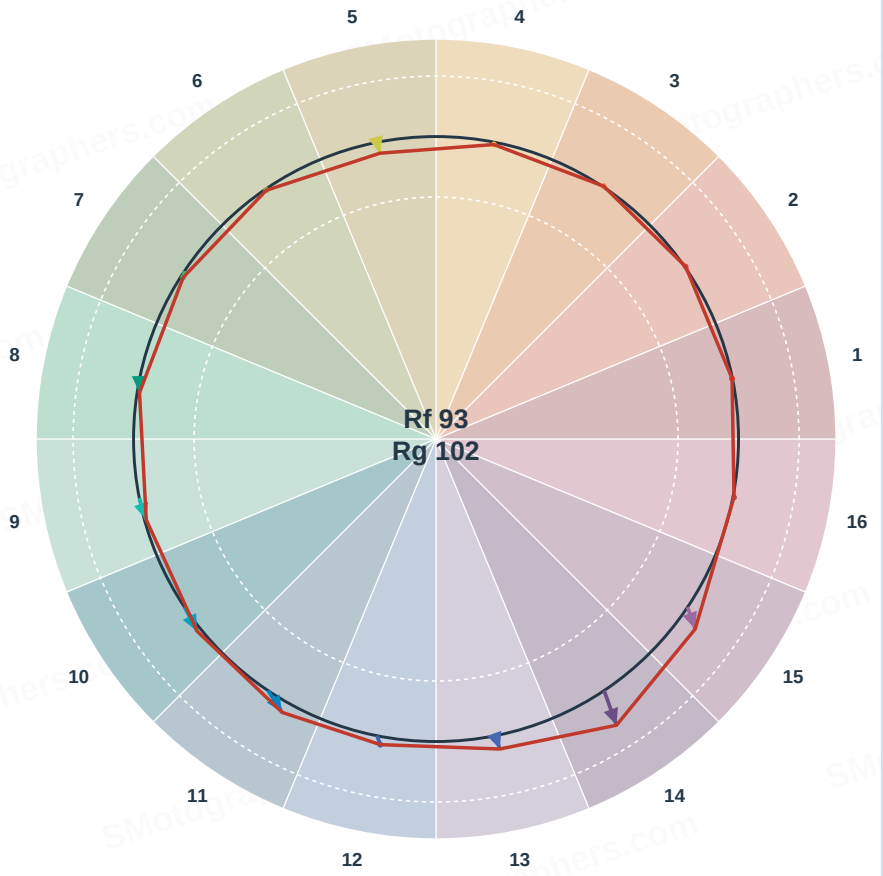
Nanlite Forza 60C

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

LED EVALUATOR

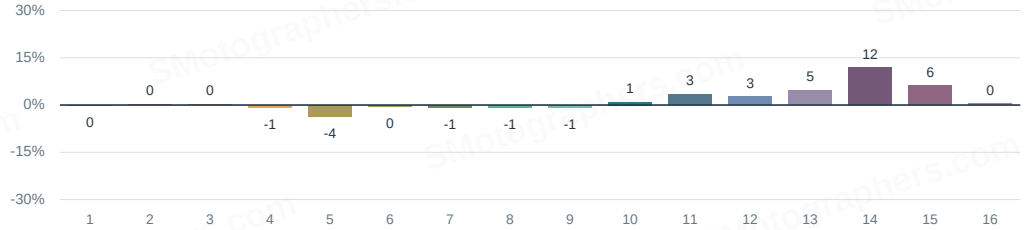
TM-30 RF	TM-30 RG	SSI [D6897]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
93	102	65	6902 K	-0.0028	97	100 %

Color Vector Graphic

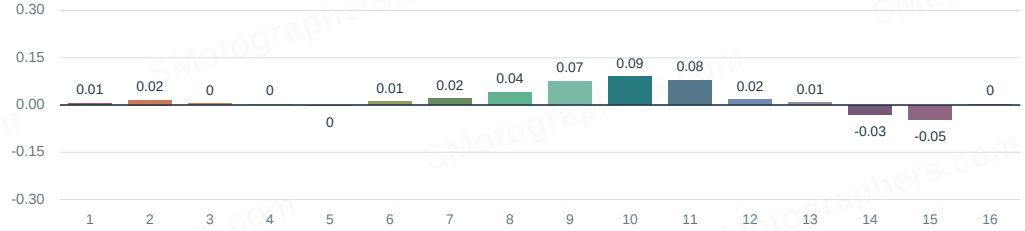


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

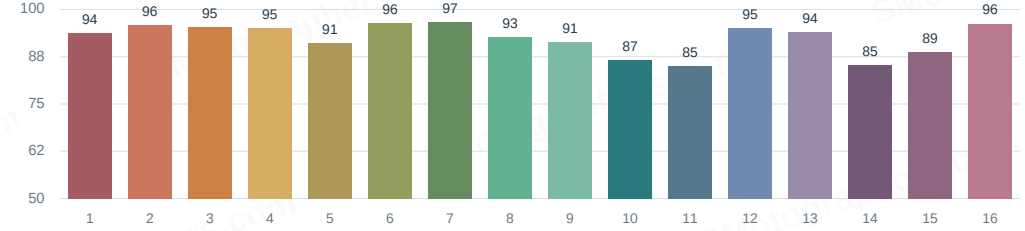
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



© Marvin Kuhn | SMotographers.com

Nanlite Forza 60C

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

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [D6897]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
93	102	65	6902 K	-0.0028	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
-0 % Chroma	+0 % Chroma	+0 % Chroma	-1 % Chroma	-4 % Chroma	-0 % Chroma	-1 % Chroma	-1 % Chroma	-1 % Chroma	+1 % Chroma	+3 % Chroma	+3 % Chroma	+5 % Chroma	+12 % Chroma	+6 % Chroma	+0 % Chroma

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

| | | |

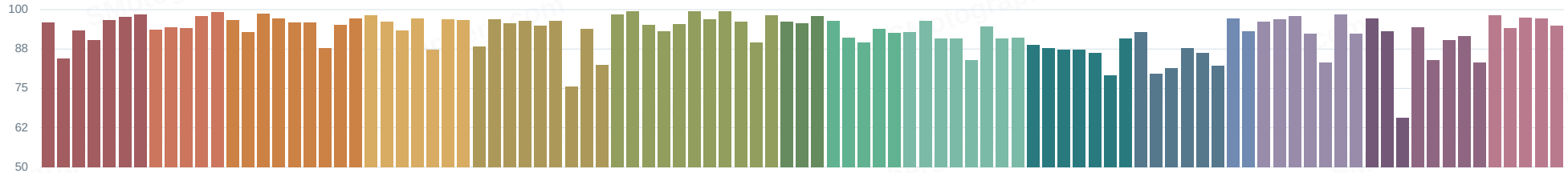
Nanlite Forza 60C

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

LED EVALUATOR

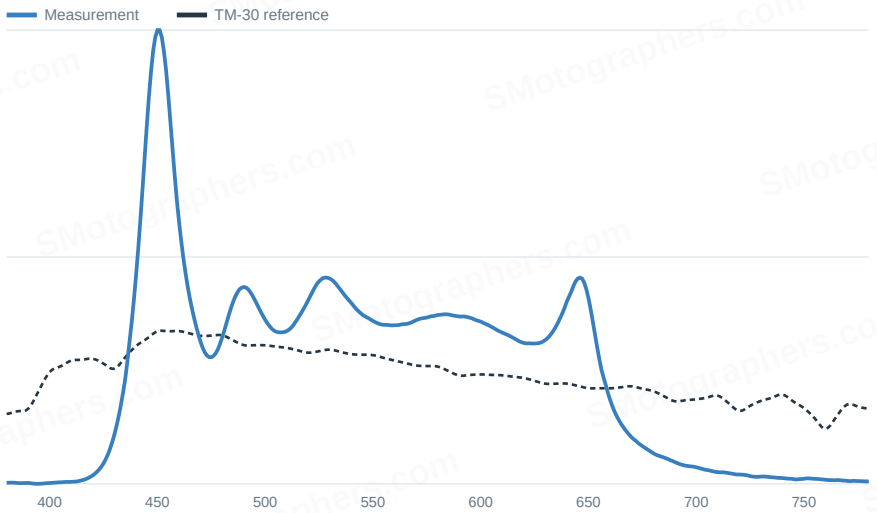
TM-30 RF	TM-30 RG	SSI [D6897]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
93	102	65	6902 K	-0.0028	97	100 %

Fidelity per colour sample Rf,CES1-99

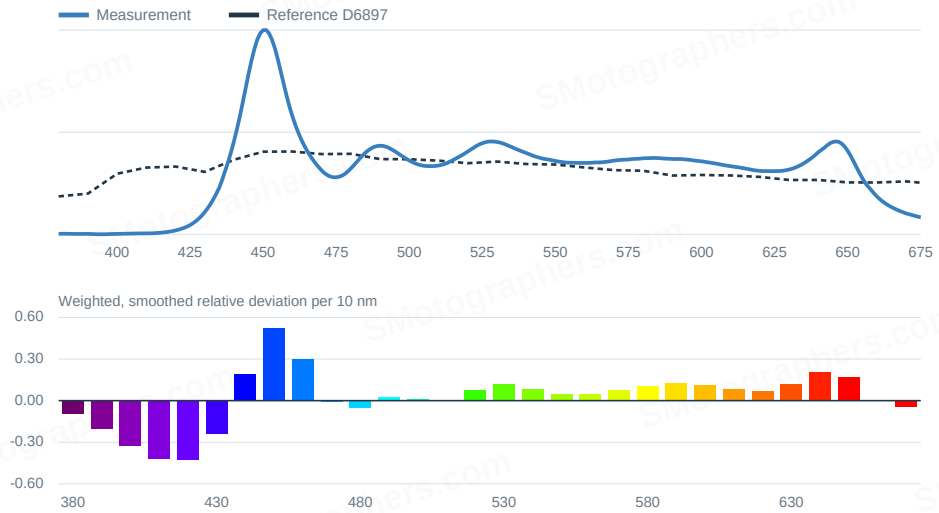


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [D6897]



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

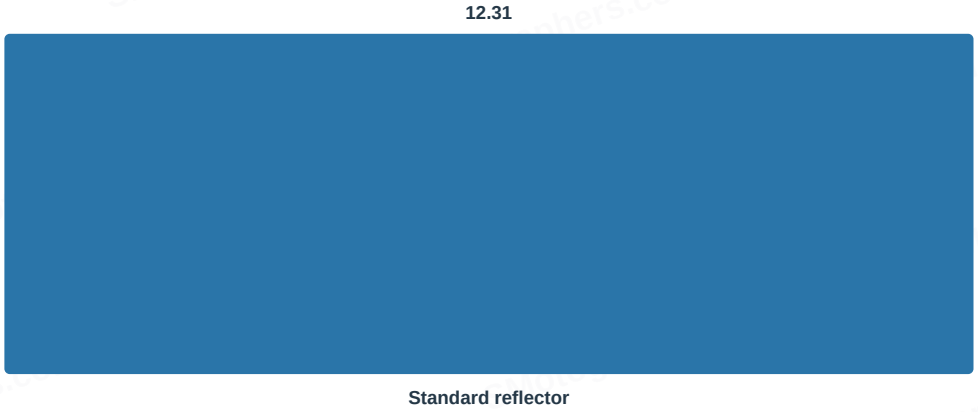
© Marvin Kuhn | SMotographers.com

Nanlite Forza 60C

Reflectors | Maximum output

Reflector	Target CCT	Lux	EV	Measured CCT	Duv	Source
Standard reflector	-	12691	12.31	5543 K	-0.00078	Nanlite Forza 60C 100% max with reflector

Max EV per reflector



© Marvin Kuhn | SMotographers.com