Nanlite Forza 300B

Measurement overview | 100 % measurements and reflectors

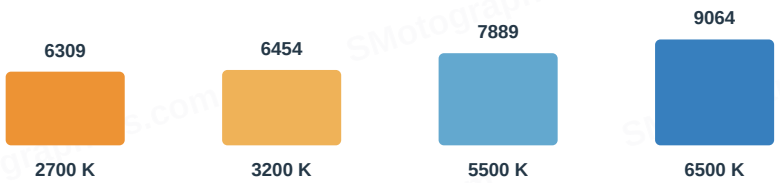
LED EVALUATOR

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	2700 K	100%	6309	11.30	2698 K	0.00133	96.5	94.0	88.0	92.0	98.0	97	Nanlite Forza 300B 100% lowest
White	3200 K	100%	6454	11.33	3238 K	-0.00430	95.4	91.0	82.0	94.0	102.0	98	Nanlite Forza 300B 100% 3200
White	5500 K	100%	7889	11.62	5721 K	-0.00222	96.9	93.0	71.0	94.0	102.0	98	Nanlite Forza 300B 100% 5500
White	6500 K	100%	9064	11.82	6798 K	0.00073	96.9	92.0	68.0	93.0	101.0	98	Nanlite Forza 300B 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%	38428	13.91	5807 K	-0.00311	96.5	90.0	Nanlite Forza 300B 100% max with reflector

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Nanlite Forza 300B

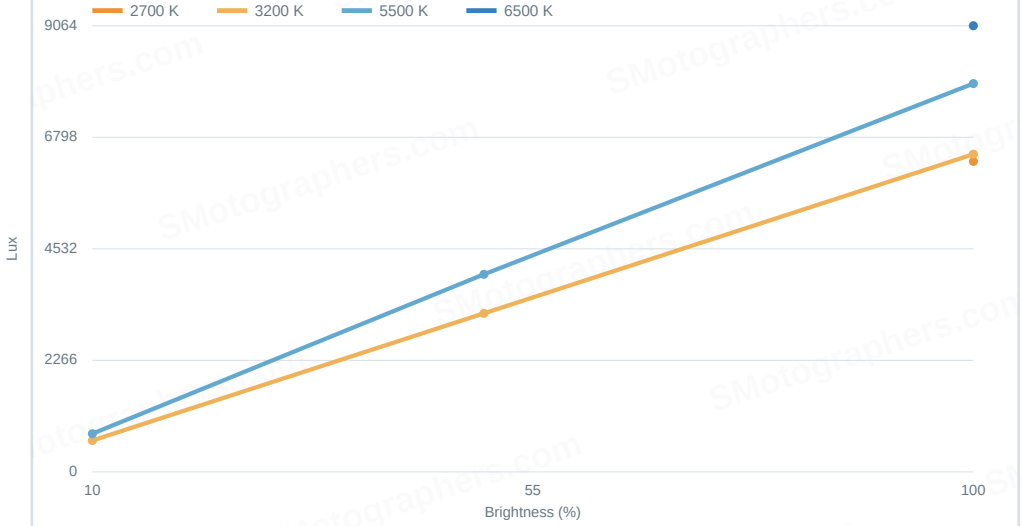
LED Lab Report | Numbers-Import

TOTAL	COLOUR	POWER	USABILITY
79.2	82.3	81.3	73.9

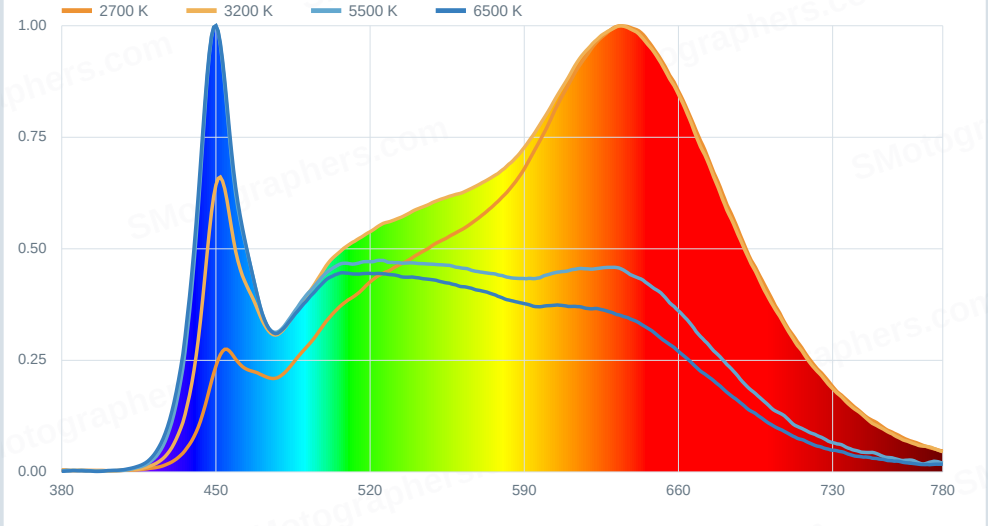
Luminaire	Value	Test	Value
LED type	Bi-Color	Power	355.0 W
Test date	2026-07-29	Distance	-
Modifier	Verschiedene Setups aus dem Numbers-Rechner	Mode	Linear (current)
RGB in total	Yes	Measurements	9

Target CCT	Max Lux	Measured CCT	Duv	Ra	SSI	Rf	Rg	TLCI
2700 K	6309	2698	0.00133	96.5	88.0	92.0	98.0	97
3200 K	6454	3238	-0.00430	95.4	82.0	94.0	102.0	98
5500 K	7889	5721	-0.00222	96.9	71.0	94.0	102.0	98
6500 K	9064	6798	0.00073	96.9	68.0	93.0	101.0	98

Output across CCTs and levels



Spectrum at maximum brightness



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Nanlite Forza 300B

White light detail | Target CCT 2700 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
100%	6309	2698 K	0.00133	1.74	96.5	94.0	634 nm

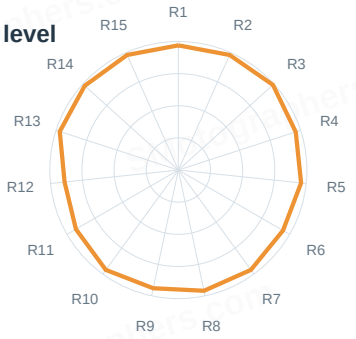
Colour metric	Value
SSI	88
TM-30 Rf	92
TM-30 Rg	98
TLCI (Info)	97
Measurements	1

Check	Value
Brightest level	100%
CCT deviation	-2 K
Mired deviation	0.27
Source	Nanlite Forza 300B 100% lowest

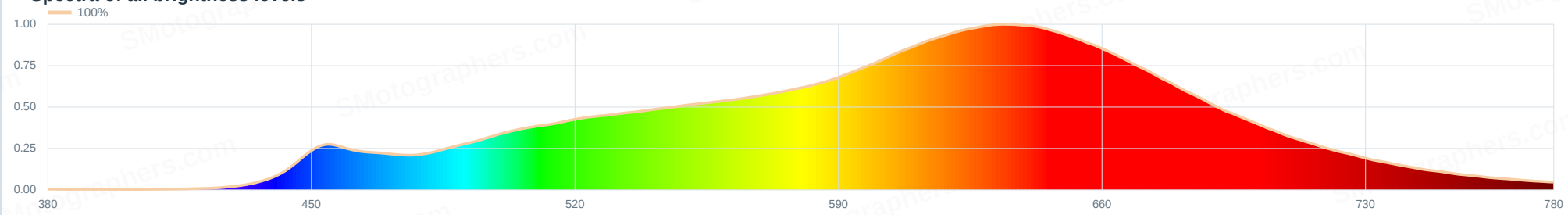
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



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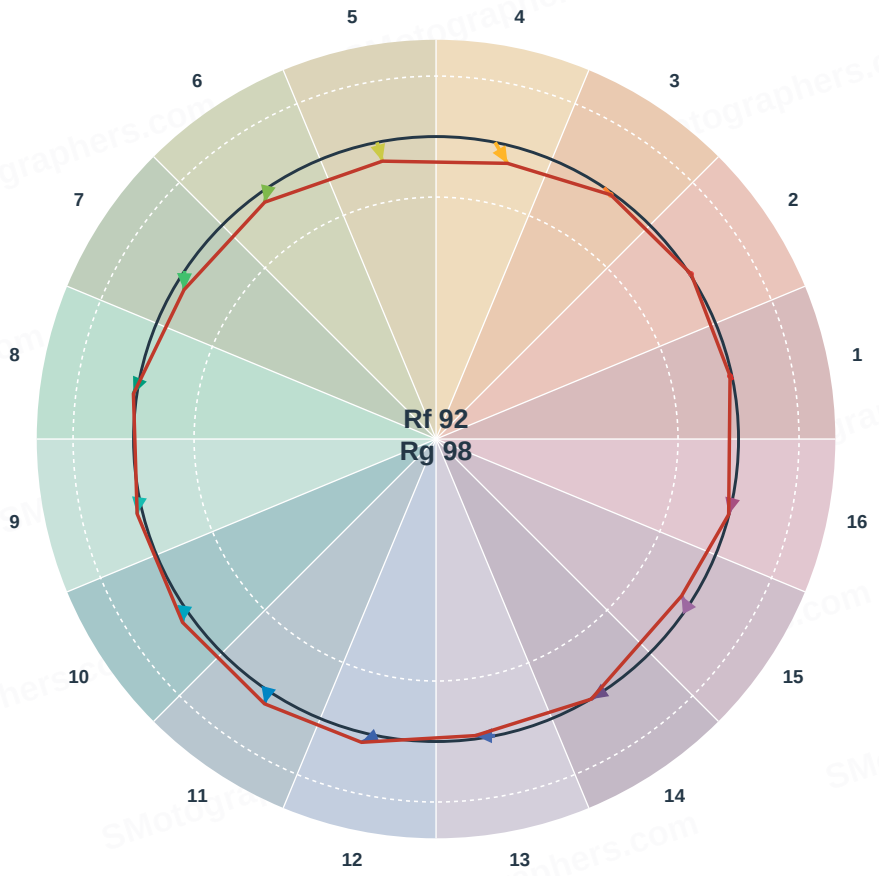
Nanlite Forza 300B

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

LED EVALUATOR

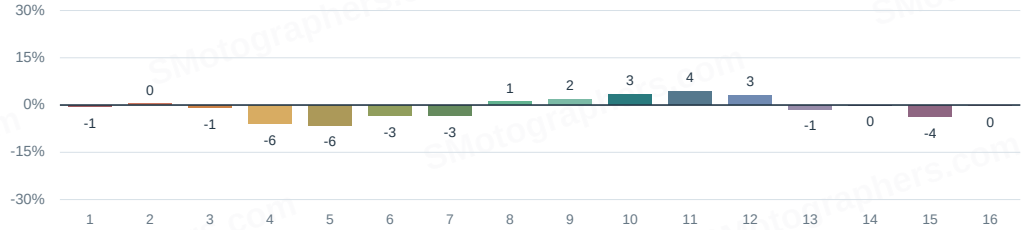
TM-30 RF	TM-30 RG	SSI [P2696]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
92	98	88	2698 K	0.0013	97	100 %

Color Vector Graphic

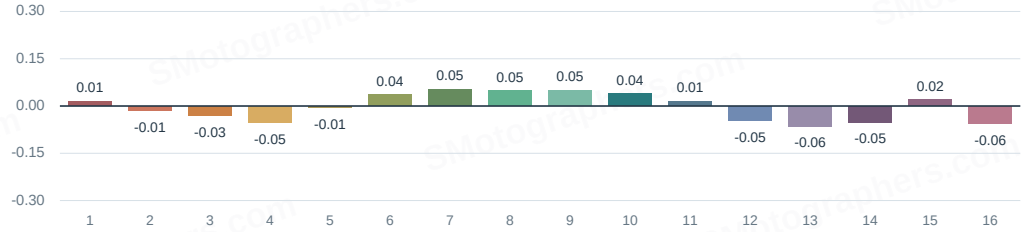


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

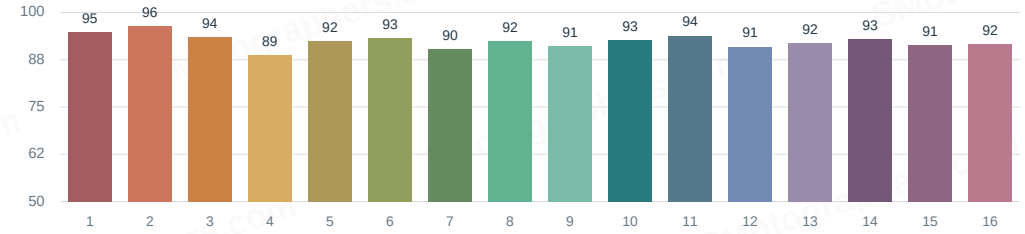
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



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Nanlite Forza 300B

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

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [P2696]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
92	98	88	2698 K	0.0013	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	-1 % Chroma	-6 % Chroma	-6 % Chroma	-3 % Chroma	-3 % Chroma	+1 % Chroma	+2 % Chroma	+3 % Chroma	+4 % Chroma	+3 % Chroma	-1 % Chroma	-0 % 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 92	CES 4 Rf 94	CES 5 Rf 90	CES 6 Rf 96	CES 7 Rf 98	CES 8 Rf 96	CES 9 Rf 98	CES 98 Rf 95	CES 99 Rf 93
CES 10 Rf 97	CES 11 Rf 98	CES 12 Rf 97	CES 13 Rf 98	CES 14 Rf 98	CES 15 Rf 92	CES 16 Rf 95	CES 17 Rf 95	CES 18 Rf 94	CES 19 Rf 94	CES 20 Rf 96
CES 21 Rf 93	CES 22 Rf 91	CES 23 Rf 95	CES 24 Rf 94	CES 25 Rf 93	CES 26 Rf 91	CES 27 Rf 87	CES 28 Rf 97	CES 29 Rf 86	CES 30 Rf 81	CES 31 Rf 87
CES 33 Rf 87	CES 36 Rf 80	CES 32 Rf 91	CES 34 Rf 94	CES 35 Rf 97	CES 37 Rf 95	CES 38 Rf 78	CES 39 Rf 97	CES 40 Rf 96	CES 41 Rf 91	CES 42 Rf 95
CES 43 Rf 93	CES 44 Rf 99	CES 47 Rf 86	CES 45 Rf 94	CES 46 Rf 93	CES 48 Rf 82	CES 49 Rf 93	CES 50 Rf 92	CES 51 Rf 91	CES 52 Rf 94	CES 53 Rf 92
CES 54 Rf 90	CES 55 Rf 89	CES 56 Rf 91	CES 57 Rf 90	CES 58 Rf 91	CES 59 Rf 97	CES 60 Rf 93	CES 61 Rf 94	CES 62 Rf 84	CES 64 Rf 94	CES 65 Rf 94
CES 66 Rf 93	CES 67 Rf 93	CES 68 Rf 95	CES 63 Rf 94	CES 69 Rf 95	CES 70 Rf 96	CES 71 Rf 91	CES 72 Rf 97	CES 73 Rf 94	CES 75 Rf 92	CES 74 Rf 89
CES 76 Rf 94	CES 77 Rf 89	CES 78 Rf 93	CES 79 Rf 90	CES 80 Rf 92	CES 81 Rf 84	CES 82 Rf 97	CES 83 Rf 94	CES 84 Rf 97	CES 85 Rf 86	CES 86 Rf 91
CES 87 Rf 97	CES 88 Rf 92	CES 89 Rf 94	CES 90 Rf 88	CES 91 Rf 80	CES 92 Rf 89	CES 93 Rf 94	CES 94 Rf 91	CES 95 Rf 92	CES 96 Rf 99	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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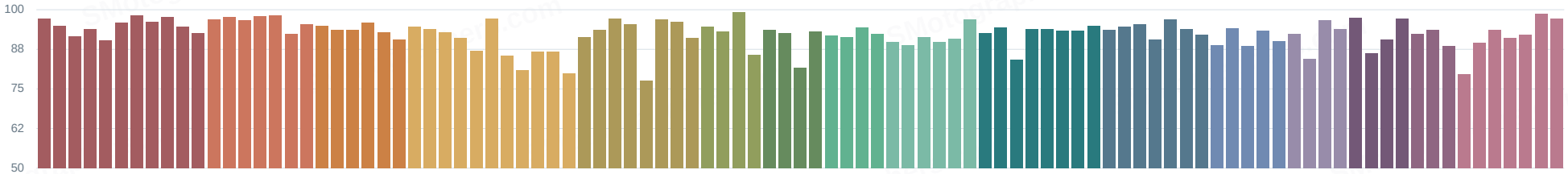
Nanlite Forza 300B

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

LED EVALUATOR

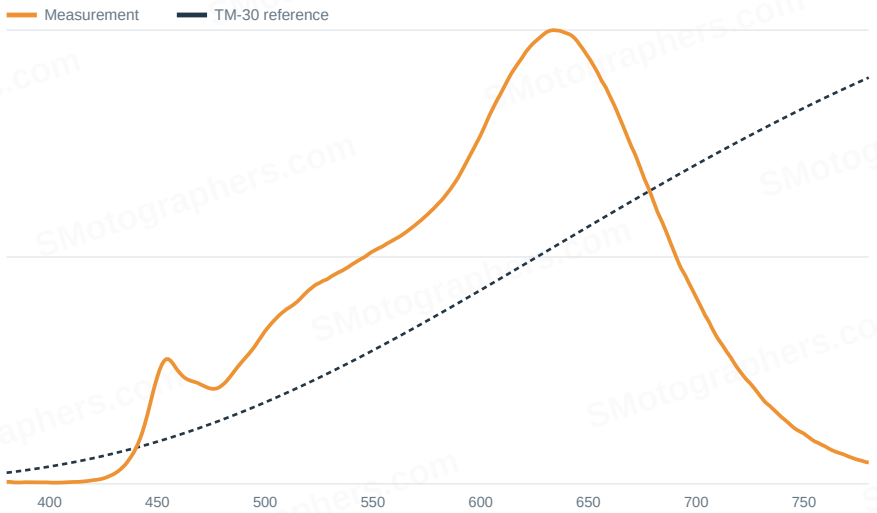
TM-30 RF	TM-30 RG	SSI [P2696]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
92	98	88	2698 K	0.0013	97	100 %

Fidelity per colour sample Rf,CES1-99

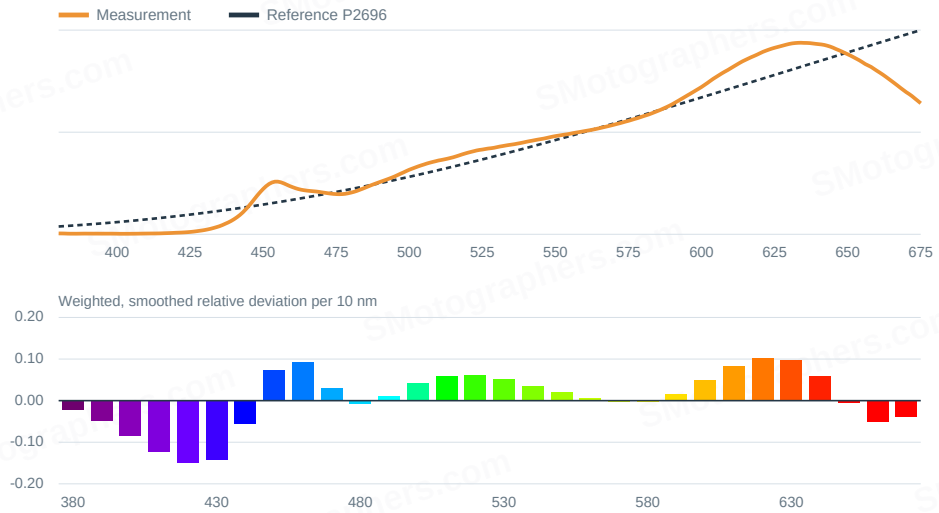


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [P2696]



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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Nanlite Forza 300B

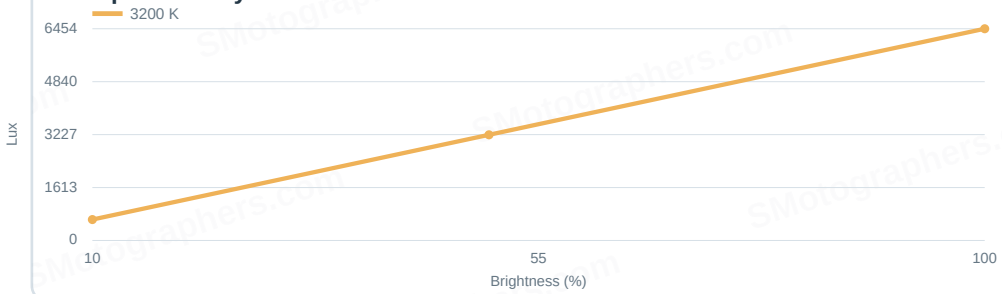
White light detail | Target CCT 3200 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
10%	638	3177 K	-0.00528	8.79	93.4	82.0	636 nm
50%	3221	3216 K	-0.00420	7.97	94.7	87.0	634 nm
100%	6454	3238 K	-0.00430	7.48	95.4	91.0	634 nm

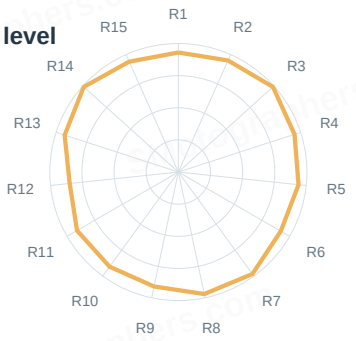
Colour metric	Value
SSI	82
TM-30 Rf	94
TM-30 Rg	102
TLCI (Info)	98
Measurements	3

Check	Value
Brightest level	100%
CCT deviation	38 K
Mired deviation	3.67
Source	Nanlite Forza 300B 100% 3200

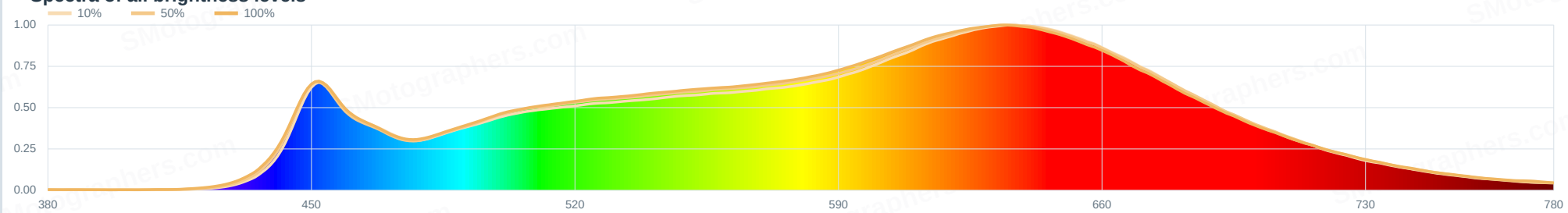
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



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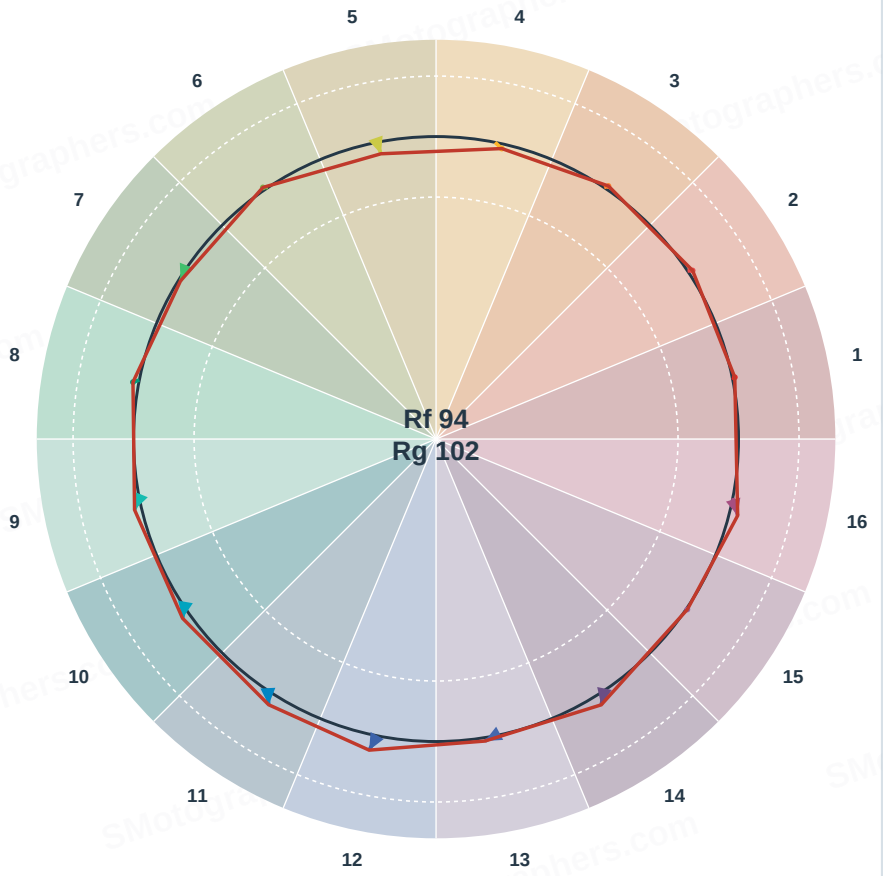
Nanlite Forza 300B

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

LED EVALUATOR

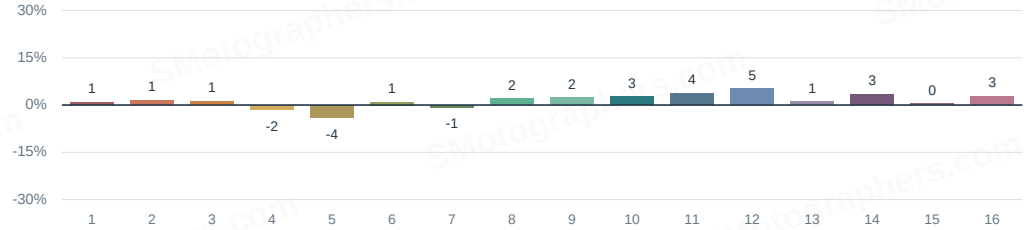
TM-30 RF	TM-30 RG	SSI [P3250]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	82	3239 K	-0.0043	98	100 %

Color Vector Graphic

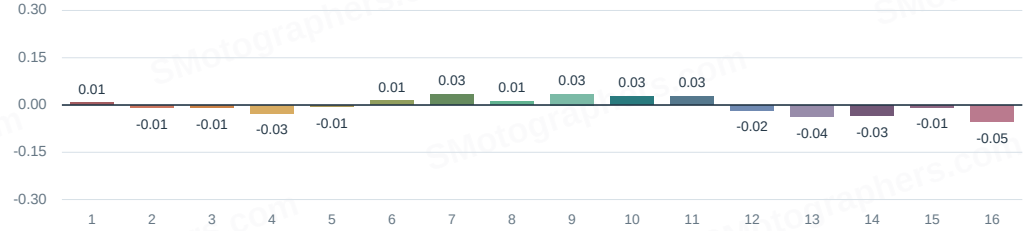


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

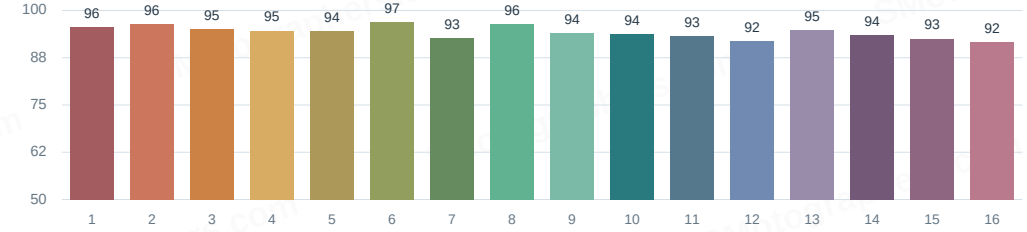
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



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Nanlite Forza 300B

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

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [P3250]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	82	3239 K	-0.0043	98	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	+1 % Chroma	+1 % Chroma	-2 % Chroma	-4 % Chroma	+1 % Chroma	-1 % Chroma	+2 % Chroma	+2 % Chroma	+3 % Chroma	+4 % Chroma	+5 % Chroma	+1 % 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 96	CES 3 Rf 91	CES 4 Rf 96	CES 5 Rf 92	CES 6 Rf 99	CES 7 Rf 96	CES 8 Rf 98	CES 9 Rf 99	CES 99 Rf 93	CES 10 Rf 95	CES 11 Rf 97	CES 12 Rf 95	CES 13 Rf 96	CES 14 Rf 98	CES 15 Rf 94	CES 16 Rf 98	CES 17 Rf 98	CES 18 Rf 95	CES 19 Rf 96	CES 20 Rf 90	CES 21 Rf 96
CES 22 Rf 95	CES 23 Rf 97	CES 24 Rf 97	CES 25 Rf 96	CES 26 Rf 97	CES 27 Rf 89	CES 28 Rf 99	CES 29 Rf 94	CES 30 Rf 88	CES 31 Rf 95	CES 32 Rf 99	CES 33 Rf 95	CES 34 Rf 98	CES 35 Rf 99	CES 36 Rf 80	CES 37 Rf 97	CES 38 Rf 84	CES 39 Rf 99	CES 40 Rf 99	CES 41 Rf 96	CES 42 Rf 96	CES 43 Rf 96
CES 44 Rf 100	CES 45 Rf 97	CES 46 Rf 98	CES 47 Rf 94	CES 48 Rf 88	CES 49 Rf 97	CES 50 Rf 96	CES 51 Rf 96	CES 52 Rf 96	CES 53 Rf 96	CES 54 Rf 91	CES 55 Rf 91	CES 56 Rf 95	CES 57 Rf 95	CES 58 Rf 95	CES 59 Rf 97	CES 60 Rf 93	CES 61 Rf 94	CES 62 Rf 86	CES 64 Rf 96	CES 65 Rf 96	CES 66 Rf 96
CES 67 Rf 95	CES 68 Rf 94	CES 63 Rf 98	CES 69 Rf 94	CES 70 Rf 94	CES 71 Rf 89	CES 72 Rf 96	CES 73 Rf 90	CES 75 Rf 91	CES 76 Rf 95	CES 74 Rf 91	CES 77 Rf 92	CES 78 Rf 90	CES 79 Rf 94	CES 80 Rf 95	CES 81 Rf 91	CES 82 Rf 97	CES 83 Rf 97	CES 84 Rf 97	CES 85 Rf 86	CES 86 Rf 96	CES 87 Rf 95
CES 88 Rf 95	CES 89 Rf 94	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 96	CES 97 Rf 97	CES 98 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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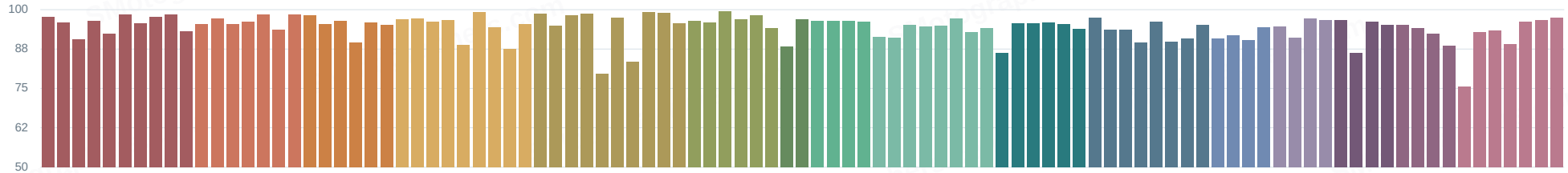
Nanlite Forza 300B

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

LED EVALUATOR

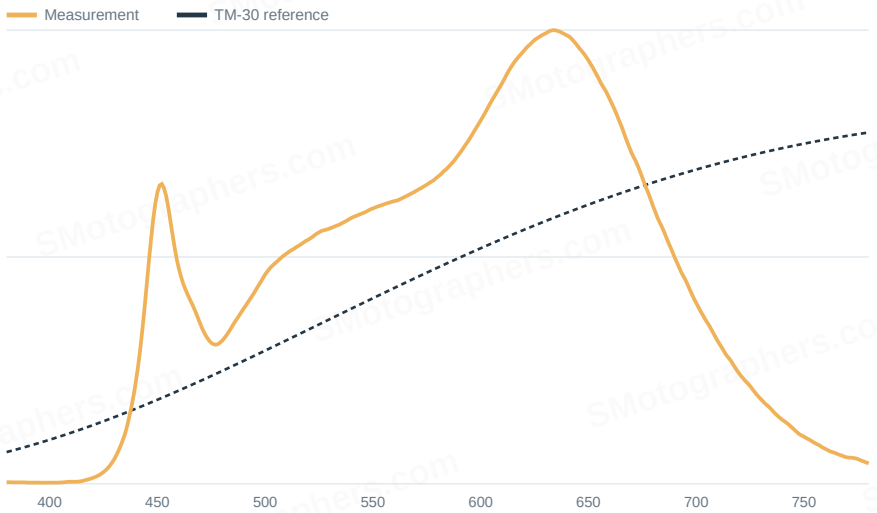
TM-30 RF	TM-30 RG	SSI [P3250]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	82	3239 K	-0.0043	98	100 %

Fidelity per colour sample Rf,CES1-99

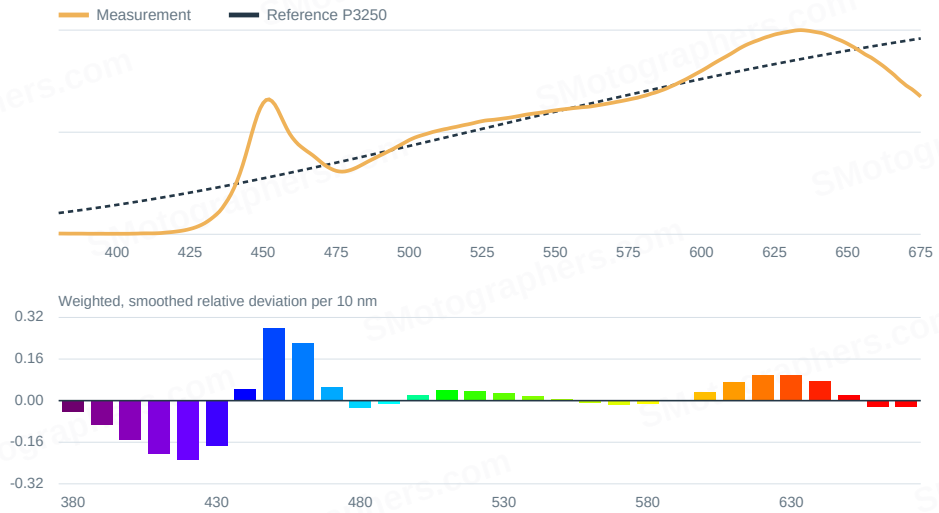


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [P3250]



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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Nanlite Forza 300B

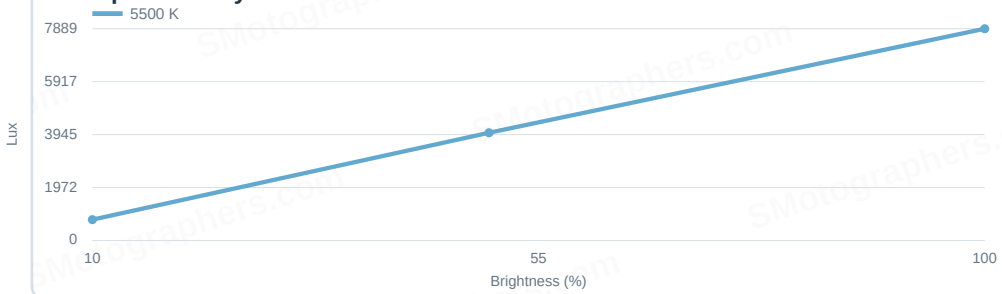
White light detail | Target CCT 5500 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
10%	776	5693 K	-0.00333	6.90	95.9	84.0	451 nm
50%	4014	5682 K	-0.00242	5.74	96.7	90.0	450 nm
100%	7889	5721 K	-0.00222	5.52	96.9	93.0	450 nm

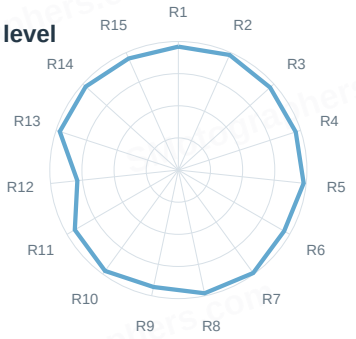
Colour metric	Value
SSI	71
TM-30 Rf	94
TM-30 Rg	102
TLCI (Info)	98
Measurements	3

Check	Value
Brightest level	100%
CCT deviation	221 K
Mired deviation	7.02
Source	Nanlite Forza 300B 100% 5500

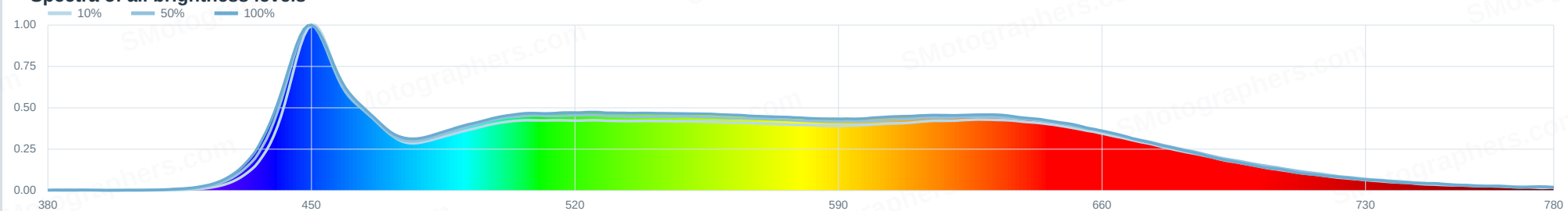
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



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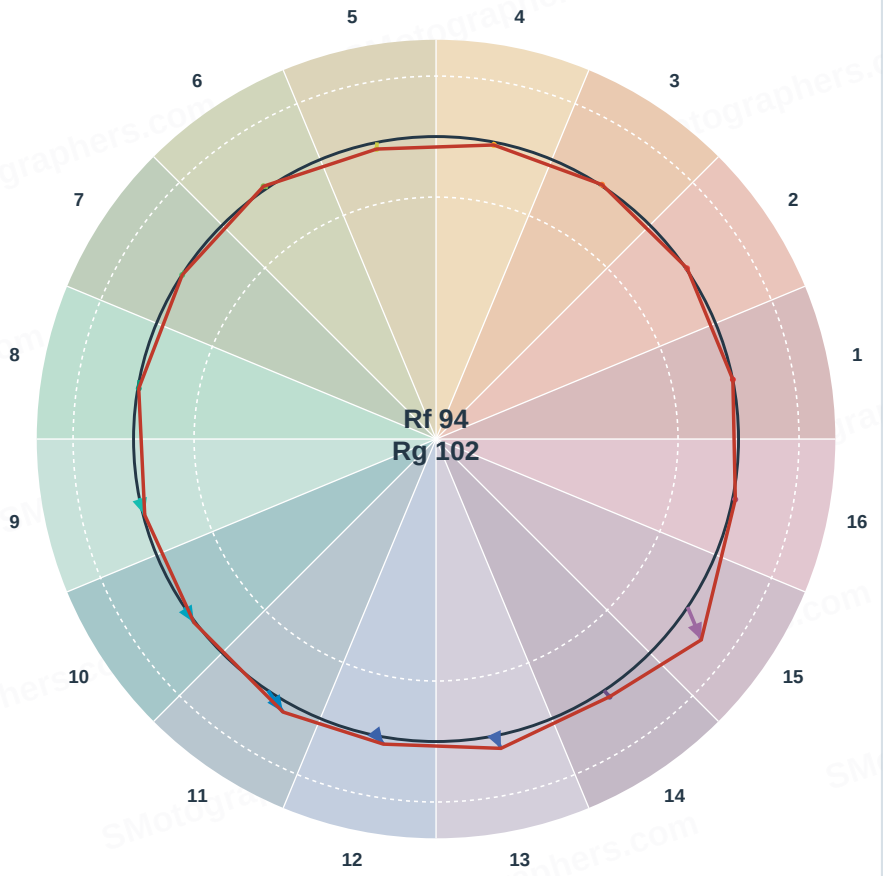
Nanlite Forza 300B

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

LED EVALUATOR

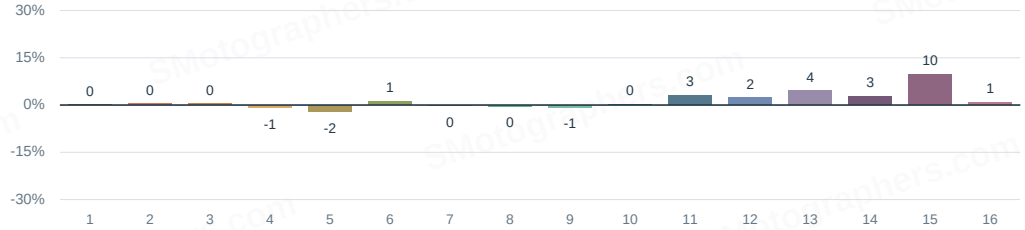
TM-30 RF	TM-30 RG	SSI [D5723]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	71	5721 K	-0.0023	98	100 %

Color Vector Graphic

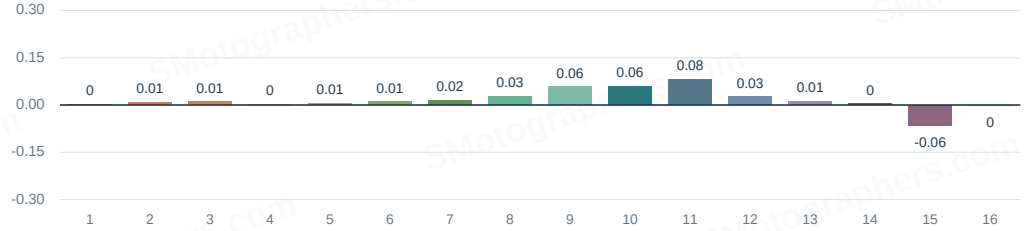


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

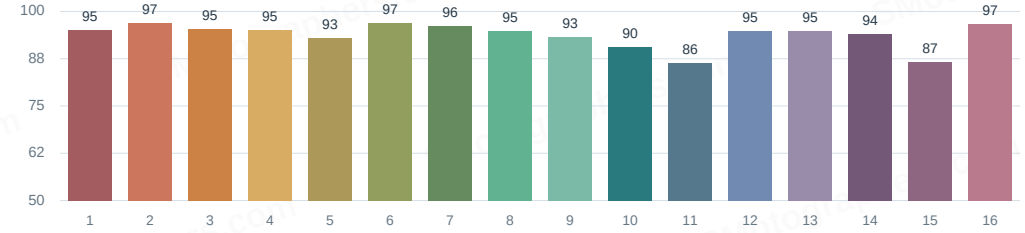
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



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Nanlite Forza 300B

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

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [D5723]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	71	5721 K	-0.0023	98	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	-0 % Chroma	-0 % Chroma	-1 % Chroma	+0 % Chroma	+3 % Chroma	+2 % Chroma	+4 % Chroma	+3 % Chroma	+10 % Chroma	+1 % Chroma

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

| | | |

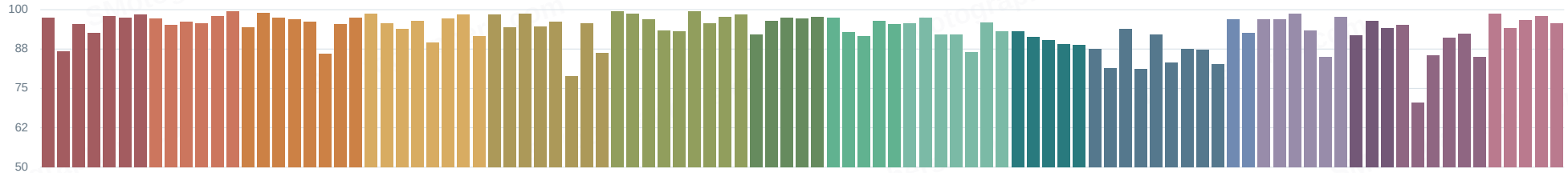
Nanlite Forza 300B

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

LED EVALUATOR

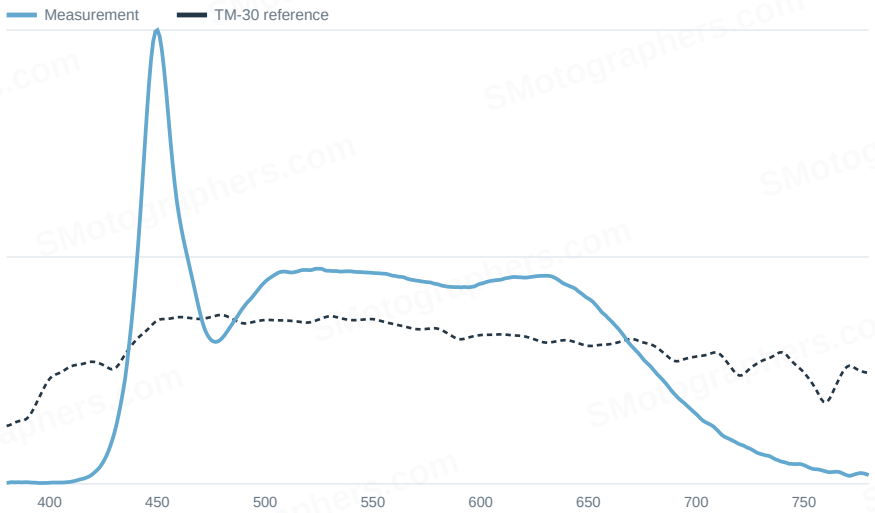
TM-30 RF	TM-30 RG	SSI [D5723]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
94	102	71	5721 K	-0.0023	98	100 %

Fidelity per colour sample Rf,CES1-99

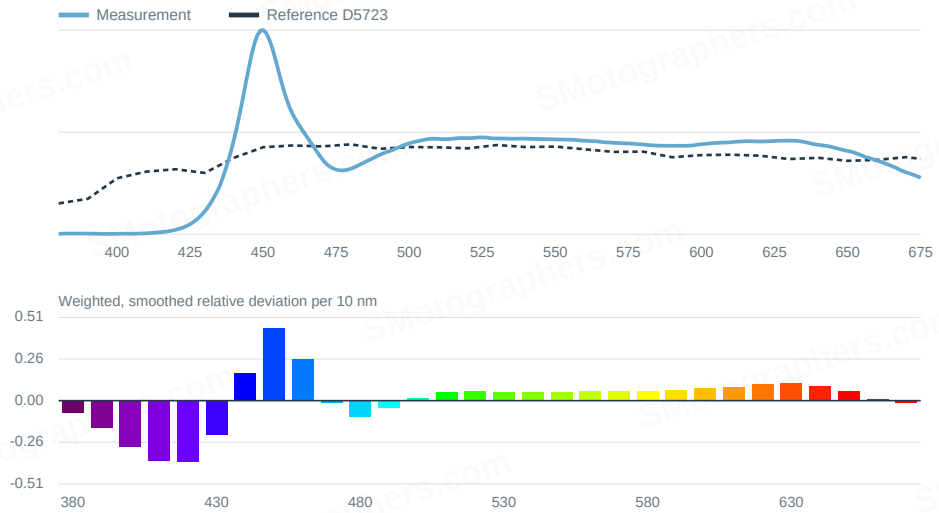


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [D5723]



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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Nanlite Forza 300B

White light detail | Target CCT 6500 K

Level	Lux	Measured CCT	Duv	SDCM	Ra	R9	Peak
100%	9064	6798 K	0.00073	3.95	96.9	92.0	450 nm

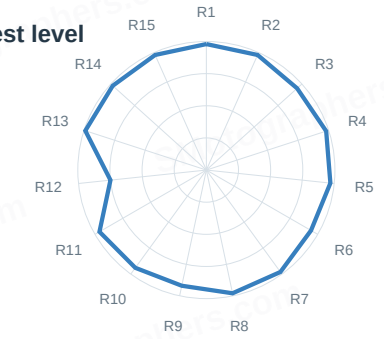
Colour metric	Value
SSI	68
TM-30 Rf	93
TM-30 Rg	101
TLCI (Info)	98
Measurements	1

Check	Value
Brightest level	100%
CCT deviation	298 K
Mired deviation	6.74
Source	Nanlite Forza 300B 100% 6500

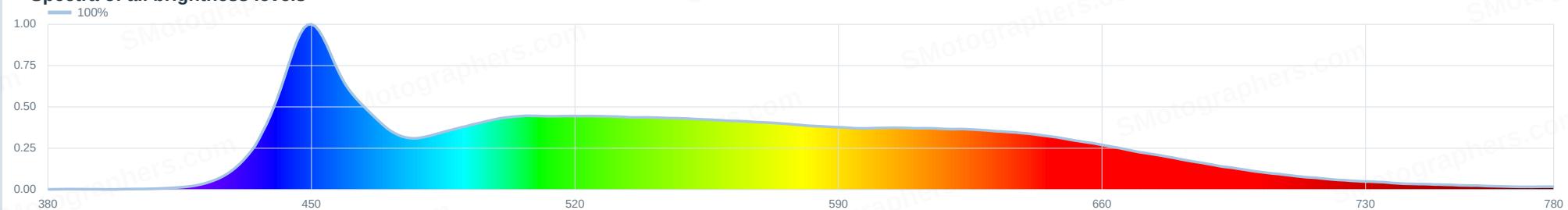
Output linearity



CRI R1-R15 at brightest level



Spectra of all brightness levels



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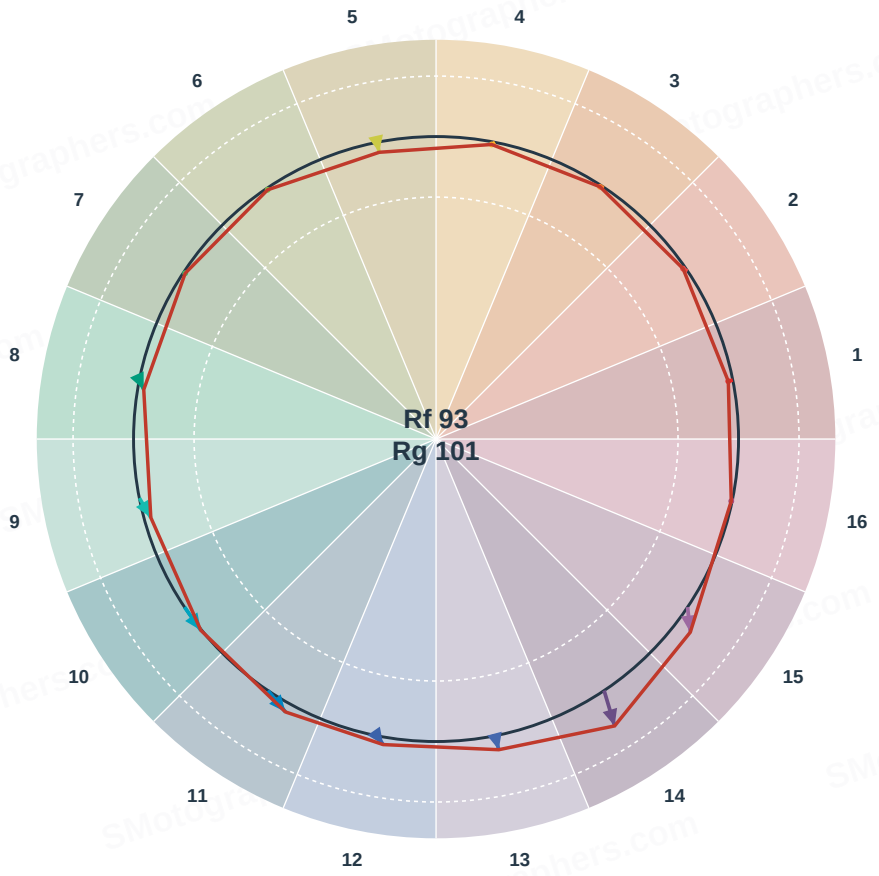
Nanlite Forza 300B

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

LED EVALUATOR

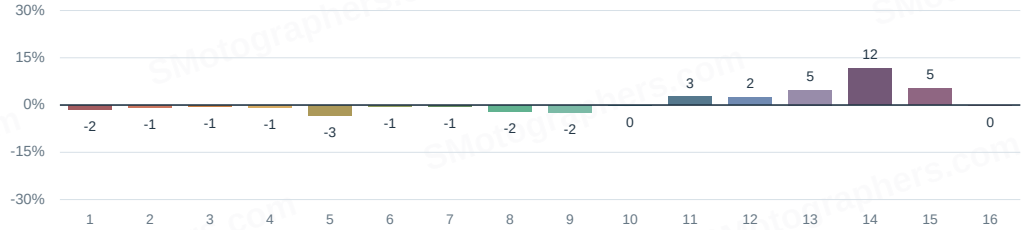
TM-30 RF	TM-30 RG	SSI [D6793]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
93	101	68	6795 K	0.0007	98	100 %

Color Vector Graphic

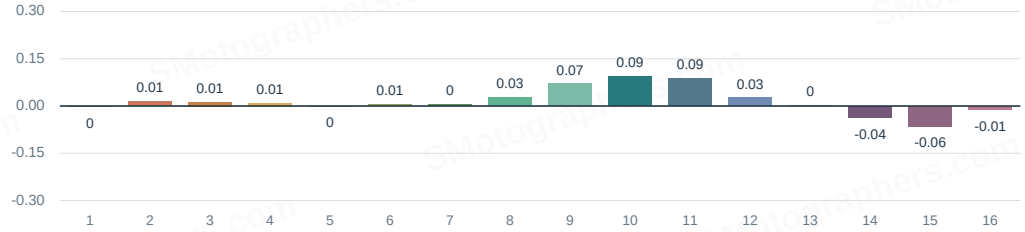


Circle = reference, arrows = shift of the test source per hue bin (CAM02-UCS).

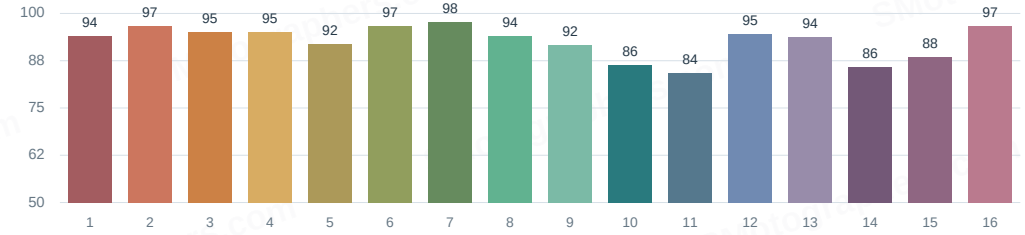
Local chroma shift Rcs,hj



Local hue shift Rhs,hj



Local colour fidelity Rf,hj



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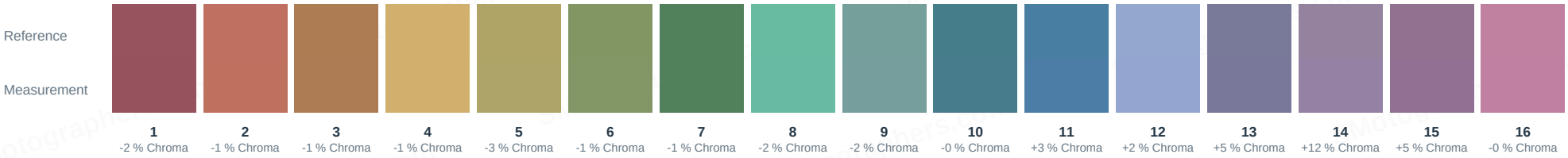
Nanlite Forza 300B

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

LED EVALUATOR

TM-30 RF	TM-30 RG	SSI [D6793]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
93	101	68	6795 K	0.0007	98	100 %

Hue bins 1-16: average per bin



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

CES 2 Rf 97	CES 3 Rf 85	CES 4 Rf 94	CES 5 Rf 91	CES 6 Rf 96	CES 7 Rf 98	CES 8 Rf 96	CES 10 Rf 95	CES 11 Rf 95	CES 12 Rf 95	CES 13 Rf 98	CES 14 Rf 100	CES 9 Rf 97	CES 15 Rf 94	CES 16 Rf 97	CES 17 Rf 96	CES 18 Rf 97	CES 19 Rf 95	CES 20 Rf 87	CES 21 Rf 94
CES 22 Rf 97	CES 23 Rf 98	CES 24 Rf 95	CES 25 Rf 93	CES 26 Rf 96	CES 27 Rf 88	CES 28 Rf 97	CES 29 Rf 97	CES 30 Rf 89	CES 31 Rf 97	CES 32 Rf 95	CES 33 Rf 97	CES 34 Rf 95	CES 35 Rf 96	CES 36 Rf 77	CES 37 Rf 96	CES 38 Rf 84	CES 39 Rf 99	CES 40 Rf 99	CES 41 Rf 95
CES 42 Rf 95	CES 43 Rf 95	CES 44 Rf 99	CES 45 Rf 98	CES 46 Rf 99	CES 47 Rf 97	CES 48 Rf 90	CES 49 Rf 98	CES 50 Rf 97	CES 51 Rf 96	CES 52 Rf 99	CES 53 Rf 99	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 91	CES 61 Rf 91
CES 62 Rf 84	CES 63 Rf 94	CES 64 Rf 91	CES 65 Rf 90	CES 66 Rf 88	CES 67 Rf 87	CES 68 Rf 87	CES 69 Rf 87	CES 70 Rf 86	CES 71 Rf 78	CES 74 Rf 91	CES 72 Rf 93	CES 73 Rf 79	CES 75 Rf 80	CES 76 Rf 86	CES 77 Rf 86	CES 78 Rf 81	CES 79 Rf 97	CES 80 Rf 92	CES 81 Rf 96
CES 82 Rf 97	CES 83 Rf 99	CES 84 Rf 93	CES 85 Rf 84	CES 86 Rf 96	CES 87 Rf 92	CES 88 Rf 98	CES 89 Rf 93	CES 91 Rf 67	CES 90 Rf 96	CES 92 Rf 83	CES 93 Rf 90	CES 94 Rf 90	CES 95 Rf 83	CES 1 Rf 99	CES 96 Rf 93	CES 97 Rf 97	CES 98 Rf 98	CES 99 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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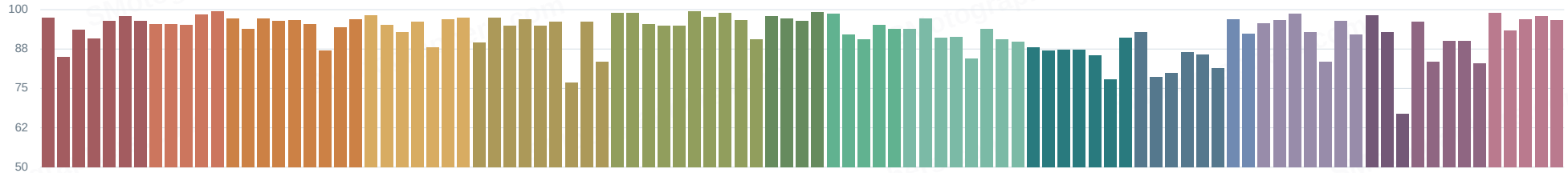
Nanlite Forza 300B

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

LED EVALUATOR

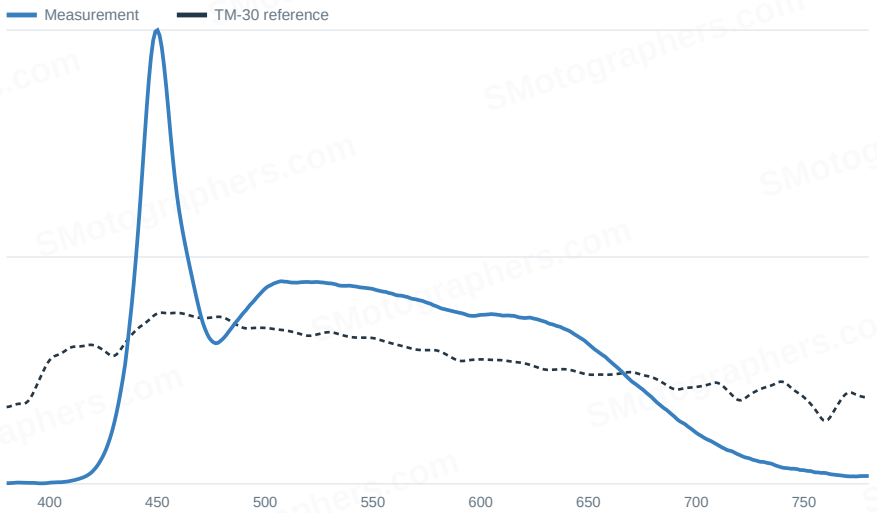
TM-30 RF	TM-30 RG	SSI [D6793]	CCT (TM-30)	DUV	TLCI (INFO)	MEASUREMENT
93	101	68	6795 K	0.0007	98	100 %

Fidelity per colour sample Rf,CES1-99

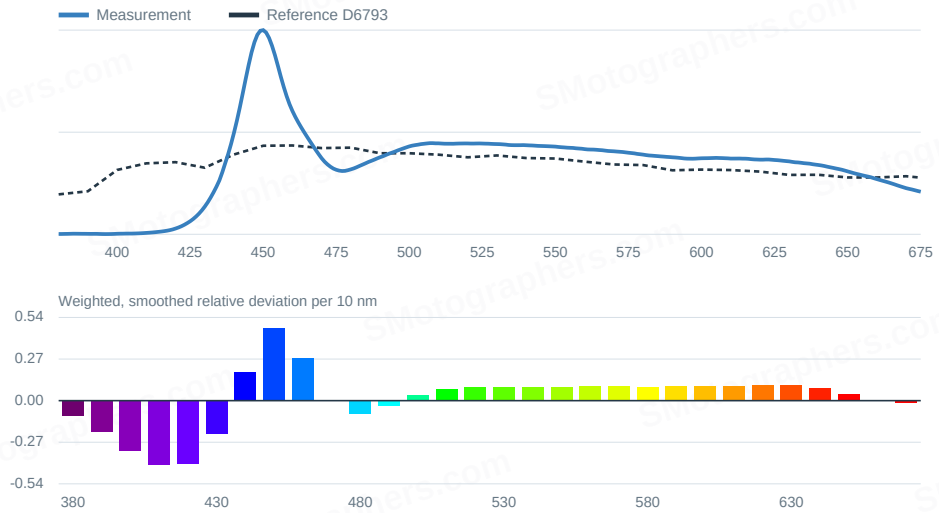


Samples sorted by hue bin 1-16; colour = hue bin.

Spectrum vs. TM-30 reference (equal area)



Academy SSI [D6793]



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

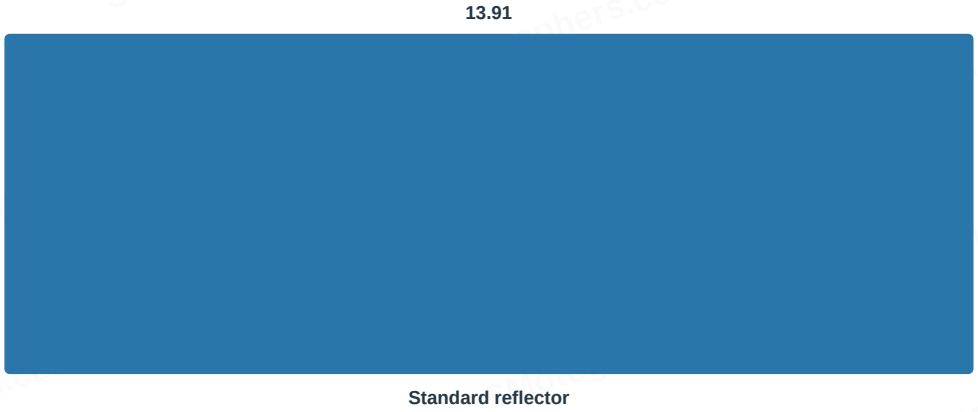
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Nanlite Forza 300B

Reflectors | Maximum output

Reflector	Target CCT	Lux	EV	Measured CCT	Duv	Source
Standard reflector	-	38428	13.91	5807 K	-0.00311	Nanlite Forza 300B 100% max with reflector

Max EV per reflector



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