F40

Photometric Report

JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15
D-89134 Blaustein
Tel. +49 (0)7304 9617-0
www.jb-lighting.de



Table of contents

F40 HP

Photometric Report 3
Beam Distribution 4
Color Details 4
TM30 5
Illuminance in Lux 6

F40 HC

Photometric Report 7
Beam Distribution 8
Color Details 8
TM30 9
Illuminance in Lux 10

F40 HC +CTO Filter

Photometric Report 11
Beam Distribution 12
Color Details 12
TM30 13
Illuminance in Lux 14

JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

F40 HP
Photometric Report

Optical Parameters

Correlated Color Temperature (CCT)	6736K
Colour Rendering Index (CRI)	75.8 ±3
Angle	9.4° - 78.3° (1:8.3)
TM-30 Rf	75 ±3
TM-30 Rg	95 ±3

Cooling Modes

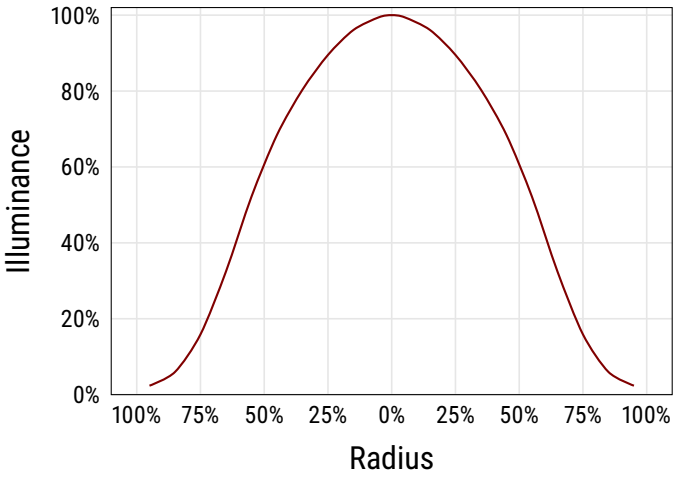
Mode	Luminous Flux (flashed)	Luminous Flux (heated up)
Boost	148947 lm	133761 lm
Standard	135407 lm	121600 lm
Silent	114440 lm	102772 lm
Whipser	100026 lm	89827 lm

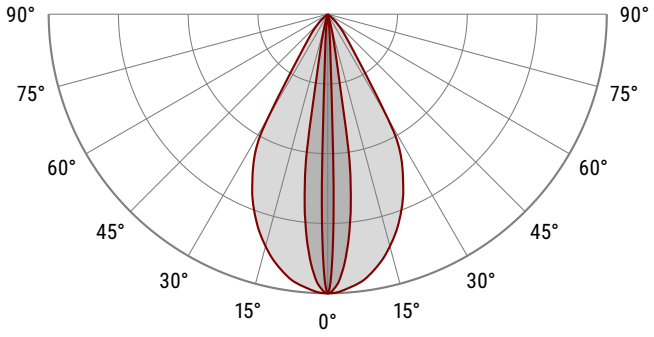
Conditions

Ambient Temperature	25°C ±5°C
Warmup Time	30 min

JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

Beam Distribution

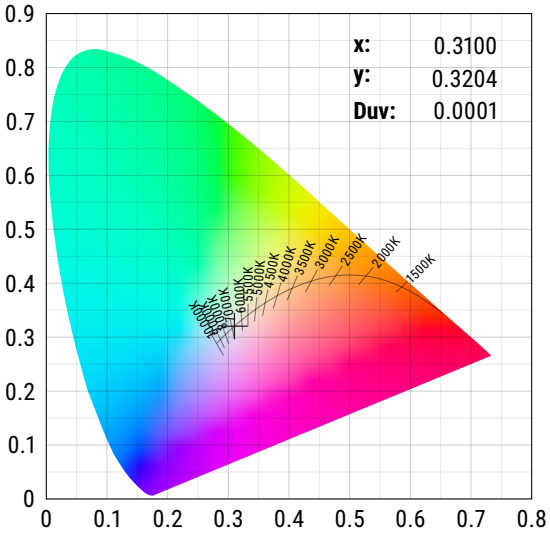


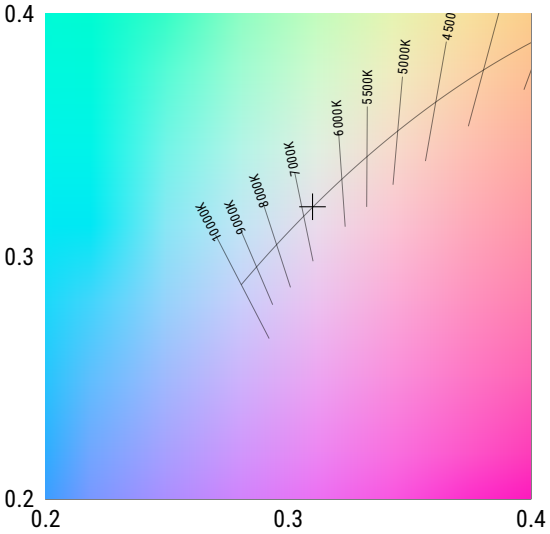


		Min	Mid	Max
Beam	(50%)	4.4	17.3	58.1
Field	(10%)	9.4	25	78.3
Cutoff	(3%)	14.2	28.3	85.4

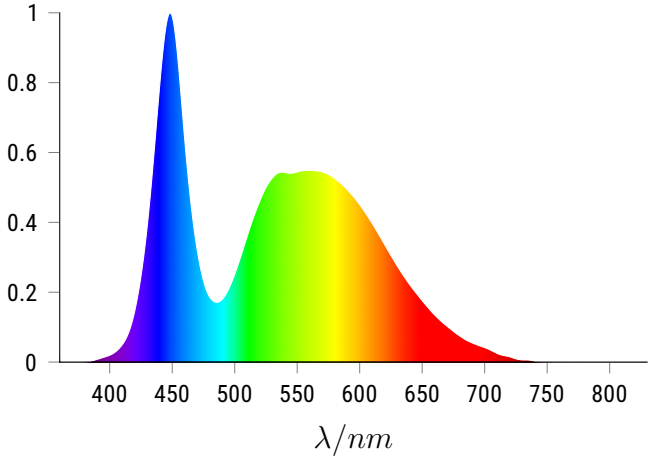
Color Details

CIE 1931

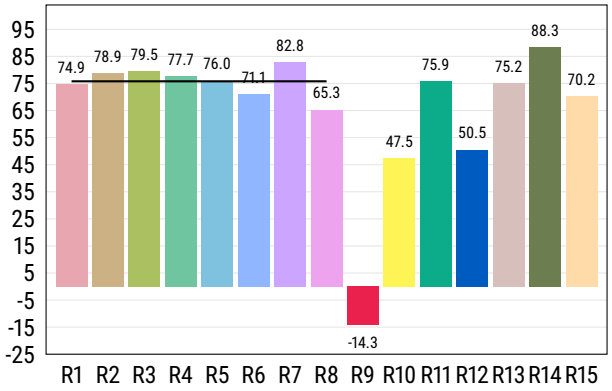




Spectral distribution



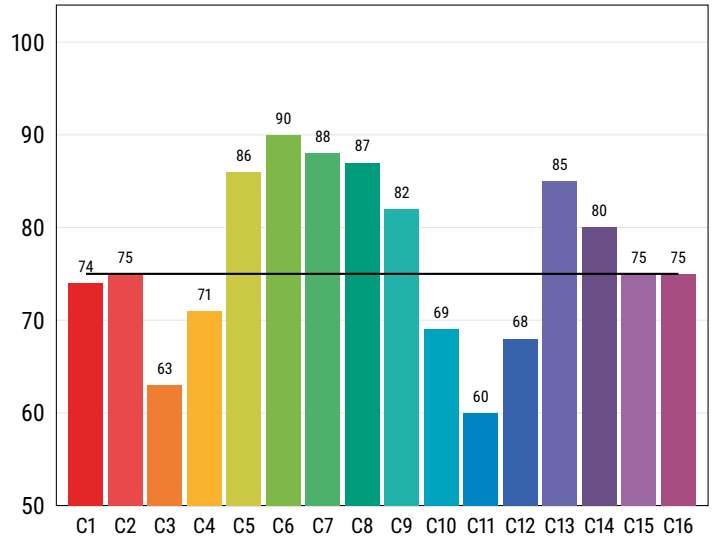
CRI: 75.8 (R1 - R8)



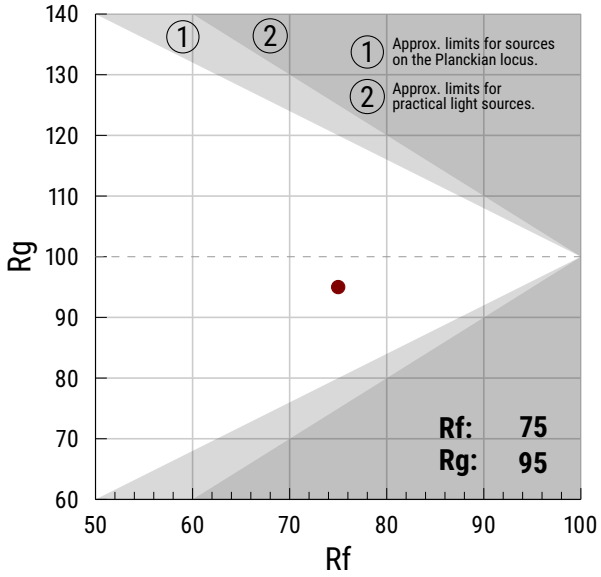
JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

TM30

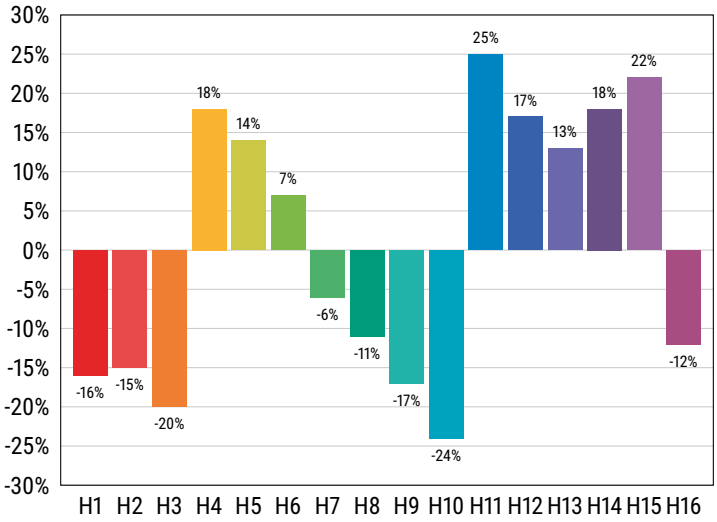
Rf by hue: 75.0



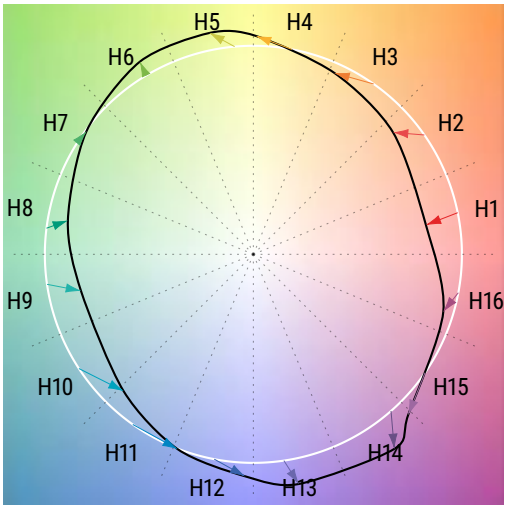
Fidelity-Gamut Plot



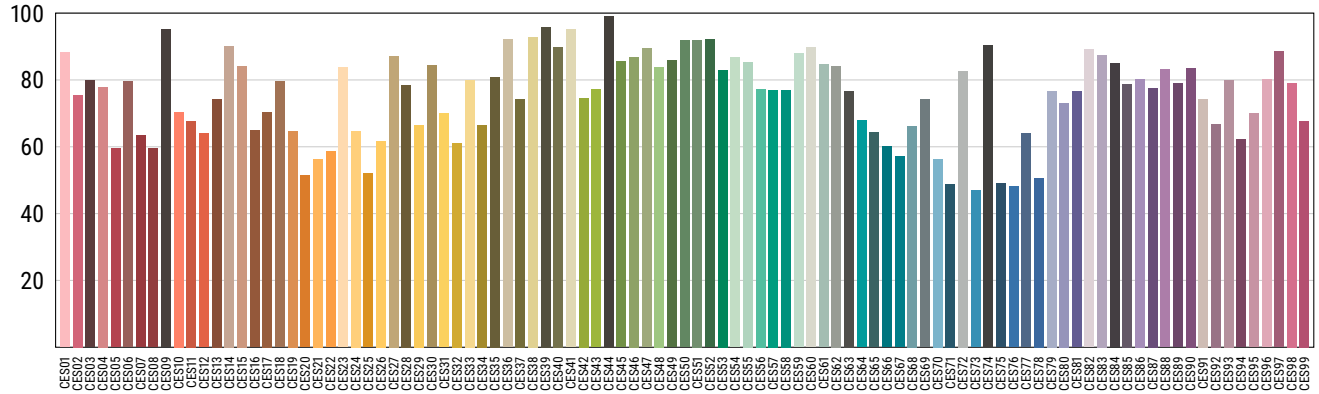
Chroma shift by hue



Color vector graphics



Fidelity Index, Rf



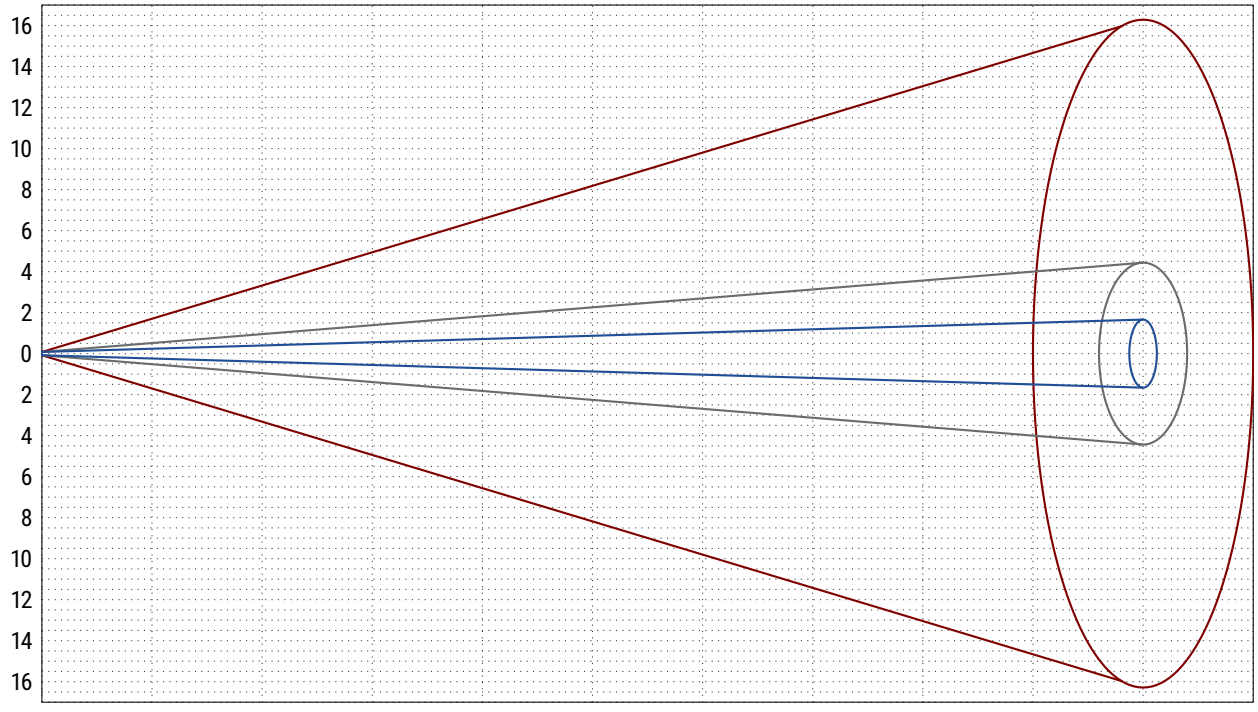
JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

Illuminance in Lux

Beam angle: 9.5° (Zoom min., 10% Field)											
Distance	(m)	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Ø	(m)	0.33	0.66	1.00	1.33	1.66	1.99	2.33	2.66	2.99	3.32
Boost	(Lux)	696000	174000	84736	47008	30085	20892	15350	11752	9286	7521
Standard	(Lux)	633360	158340	77110	42777	27377	19012	13968	10694	8450	6844
Silent	(Lux)	538356	134589	65543	36361	23271	16160	11873	9090	7182	5818
Whisper	(Lux)	468370	117092	57023	31634	20246	14059	10329	7908	6249	5061

Beam angle: 25° (Zoom mid., 10% Field)											
Distance	(m)	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Ø	(m)	0.89	1.77	2.66	3.55	4.43	5.32	6.21	7.09	7.98	8.87
Boost	(Lux)	279024	79600	37499	21293	13628	9464	6953	5323	4206	3407
Standard	(Lux)	253911	72436	34124	19377	12401	8612	6327	4844	3828	3100
Silent	(Lux)	215825	61571	29005	16470	10541	7320	5378	4118	3253	2635
Whisper	(Lux)	187768	53566	25235	14329	9171	6369	4679	3582	2830	2293

Beam angle: 78.3° (Zoom max., 10% Field)											
Distance	(m)	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Ø	(m)	3.30	6.51	9.77	13.00	16.30	19.50	22.80	26.05	29.31	32.57
Boost	(Lux)	16121	4160	1825	1020	653	453	333	255	201	163
Standard	(Lux)	14670	3786	1660	928	594	412	303	232	183	148
Silent	(Lux)	12470	3218	1411	789	505	351	258	197	156	126
Whisper	(Lux)	10849	2799	1228	686	439	305	224	172	136	110



(m)	2	4	6	8	10	12	14	16	18	20
Ø	0.33	0.66	1.00	1.33	1.66	1.99	2.33	2.66	2.99	3.32
Ø	0.89	1.77	2.66	3.55	4.43	5.32	6.21	7.09	7.98	8.87
Ø	3.30	6.51	9.77	13.00	16.30	19.50	22.80	26.05	29.31	32.57

Measured with fixture heated up

JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

F40 HC

Photometric Report

Optical Parameters

Correlated Color Temperature (CCT)	5801K
Colour Rendering Index (CRI)	96.8 ±3
Angle	9.4° - 78.3° (1:8.3)
TM-30 Rf	93 ±3
TM-30 Rg	101 ±3

Cooling Modes

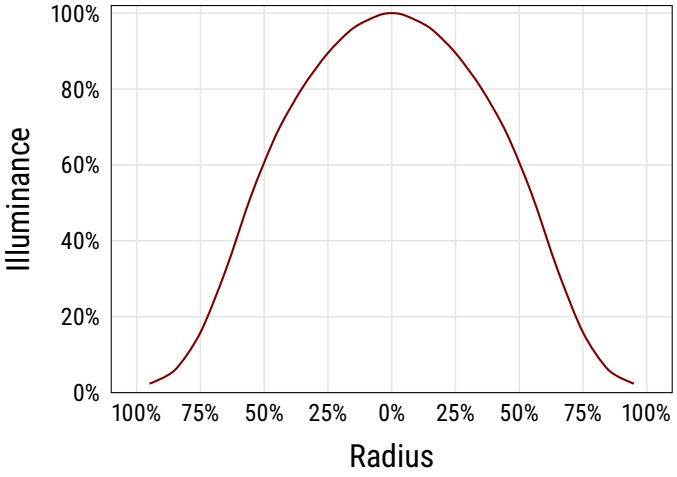
Mode	Luminous Flux (flashed)	Luminous Flux (heated up)
Boost	106578 lm	95711 lm
Standard	94785 lm	85120 lm
Silent	78623 lm	70607 lm
Whipser	69887 lm	62762 lm

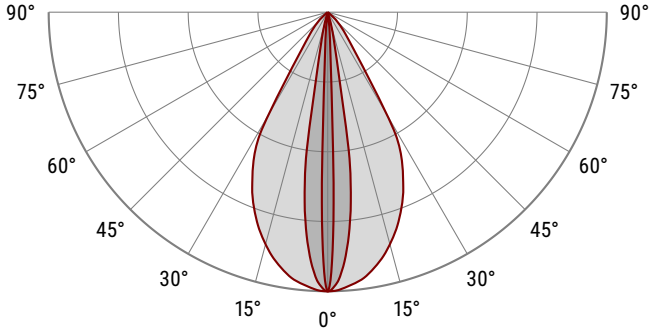
Conditions

Ambient Temperature	25°C ±5°C
Warmup Time	30 min

JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

Beam Distribution

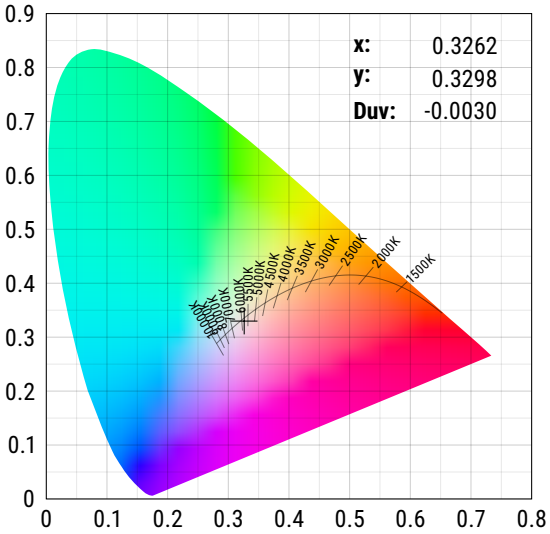


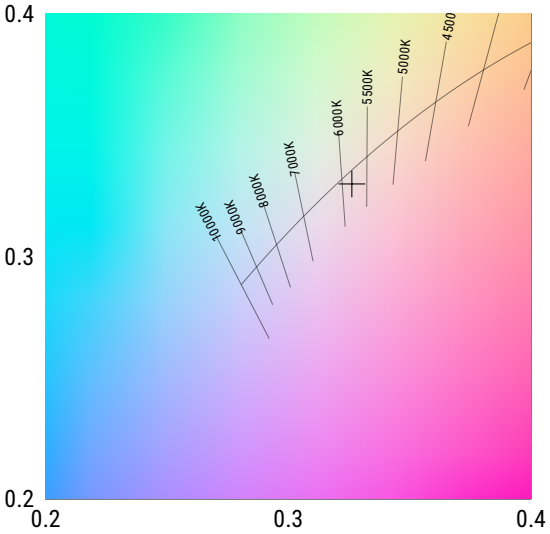


		Min	Mid	Max
Beam	(50%)	4.4	17.3	58.1
Field	(10%)	9.4	25	78.3
Cutoff	(3%)	14.2	28.3	85.4

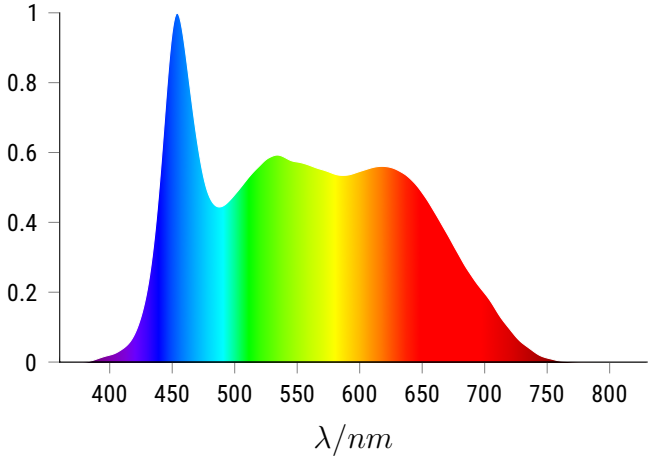
Color Details

CIE 1931

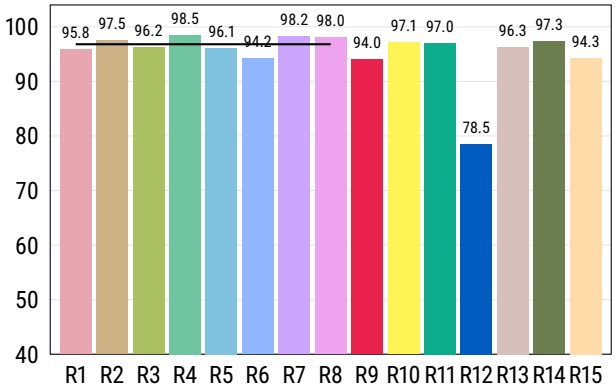




Spectral distribution



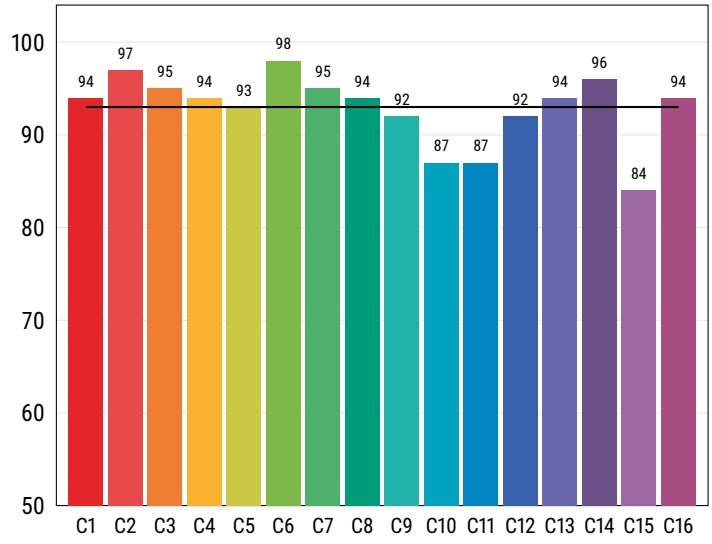
CRI: 96.8 (R1 - R8)



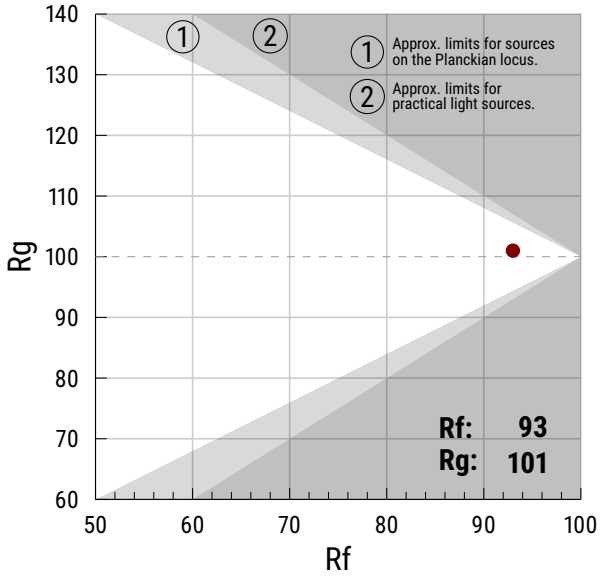
JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

TM30

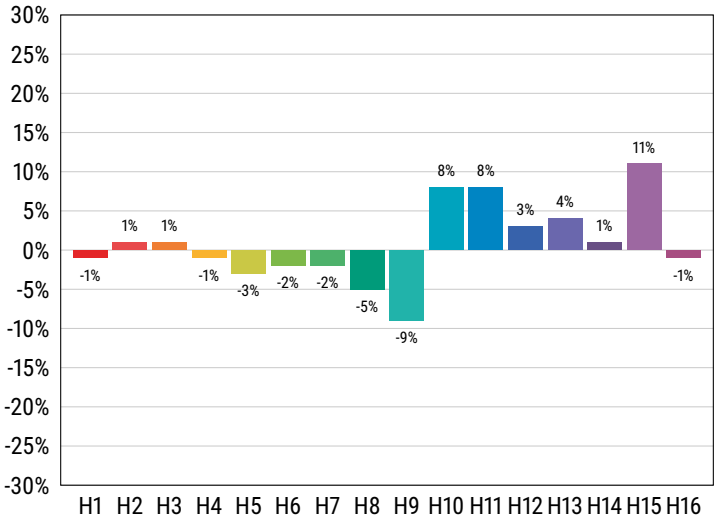
Rf by hue: 93.0



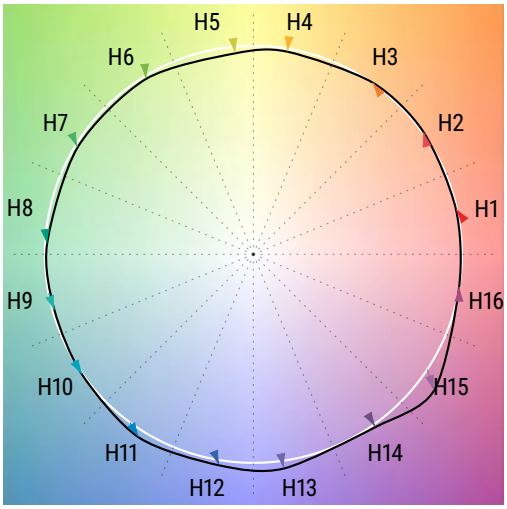
Fidelity-Gamut Plot



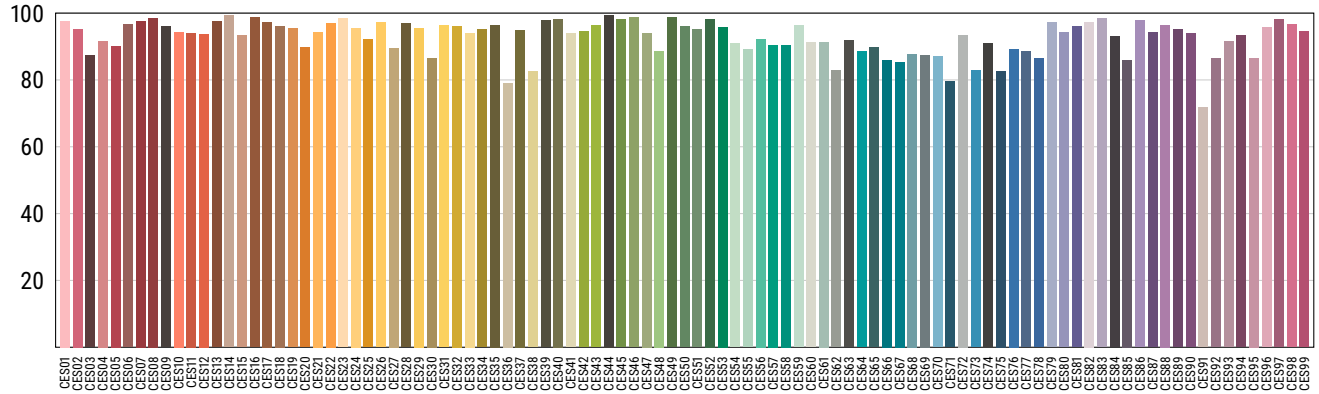
Chroma shift by hue



Color vector graphics



Fidelity Index, Rf



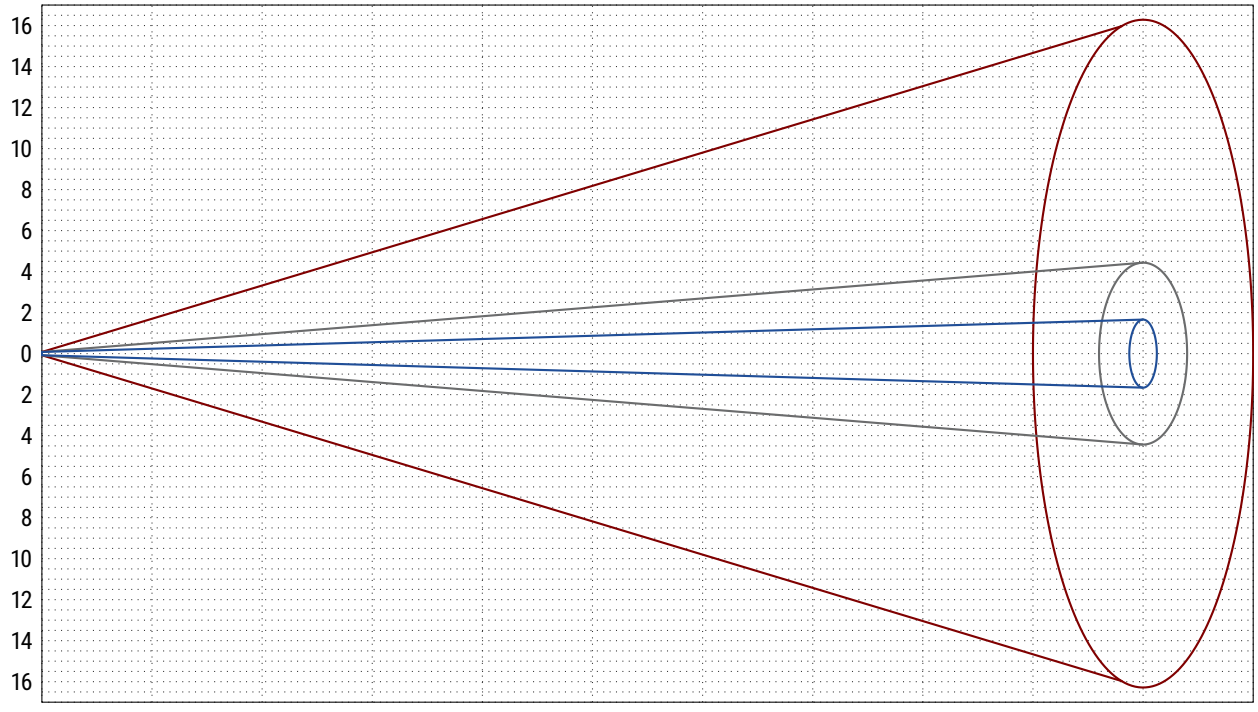
JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

Illuminance in Lux

Beam angle: 9.5° (Zoom min., 10% Field)											
Distance	(m)	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Ø	(m)	0.33	0.66	1.00	1.33	1.66	1.99	2.33	2.66	2.99	3.32
Boost	(Lux)	487374	121844	59336	32917	21067	14630	10748	8229	6502	5267
Standard	(Lux)	433763	108441	52809	29296	18750	13021	9566	7324	5787	4687
Silent	(Lux)	360023	90006	43832	24316	15562	10807	7940	6079	4803	3891
Whisper	(Lux)	320421	80105	39010	21641	13850	9618	7067	5410	4275	3463

Beam angle: 25° (Zoom mid., 10% Field)											
Distance	(m)	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Ø	(m)	0.89	1.77	2.66	3.55	4.43	5.32	6.21	7.09	7.98	8.87
Boost	(Lux)	195386	55740	26258	14911	9543	6627	4869	3728	2945	2386
Standard	(Lux)	173894	49609	23370	13271	8493	5898	4333	3318	2621	2123
Silent	(Lux)	144332	41175	19397	11015	7049	4895	3597	2754	2176	1762
Whisper	(Lux)	128455	36646	17263	9803	6274	4357	3201	2451	1936	1568

Beam angle: 78.3° (Zoom max., 10% Field)											
Distance	(m)	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Ø	(m)	3.30	6.51	9.77	13.00	16.30	19.50	22.80	26.05	29.31	32.57
Boost	(Lux)	11289	2913	1278	714	457	317	233	178	141	114
Standard	(Lux)	10047	2593	1137	635	407	282	207	159	126	102
Silent	(Lux)	8339	2152	944	527	338	234	172	132	104	84
Whisper	(Lux)	7422	1915	840	469	300	209	153	117	93	75



(m)	2	4	6	8	10	12	14	16	18	20
Ø	0.33	0.66	1.00	1.33	1.66	1.99	2.33	2.66	2.99	3.32
Ø	0.89	1.77	2.66	3.55	4.43	5.32	6.21	7.09	7.98	8.87
Ø	3.30	6.51	9.77	13.00	16.30	19.50	22.80	26.05	29.31	32.57

Measured with fixture heated up

JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

F40 HC +CTO Filter

Photometric Report

Optical Parameters

Correlated Color Temperature (CCT)	3060K
Colour Rendering Index (CRI)	97.3 ±3
Angle	9.4° - 78.3° (1:8.3)
TM-30 Rf	94 ±3
TM-30 Rg	101 ±3

Cooling Modes

Mode	Luminous Flux (flashed)	Luminous Flux (heated up)
Boost	53535 lm	48076 lm
Standard	47611 lm	42756 lm
Silent	39493 lm	35466 lm
Whipser	35105 lm	31525 lm

Conditions

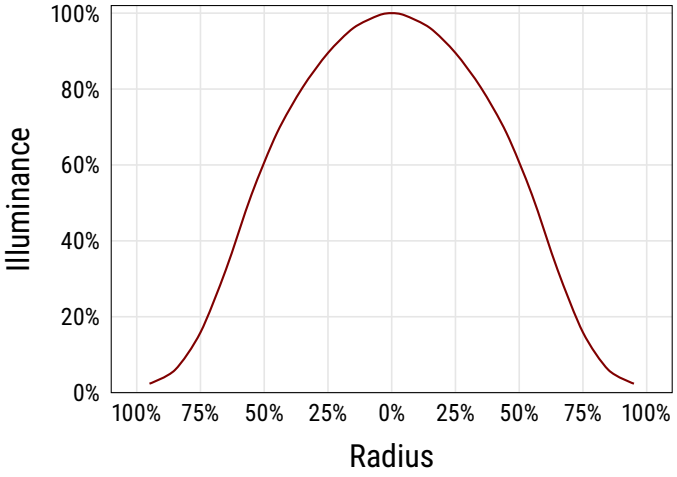
Ambient Temperature	25°C ±5°C
Warmup Time	30 min

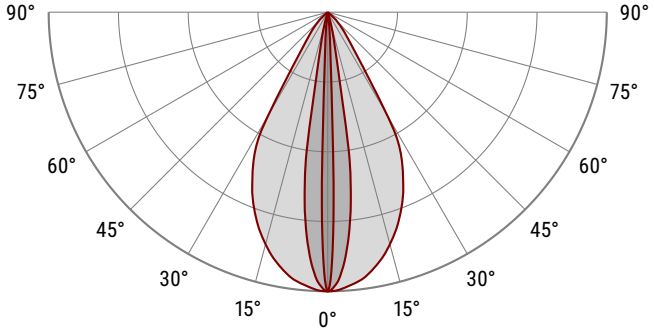
JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

F40 HC +CTO Filter
Photometric Report

JB LIGHTING

Beam Distribution

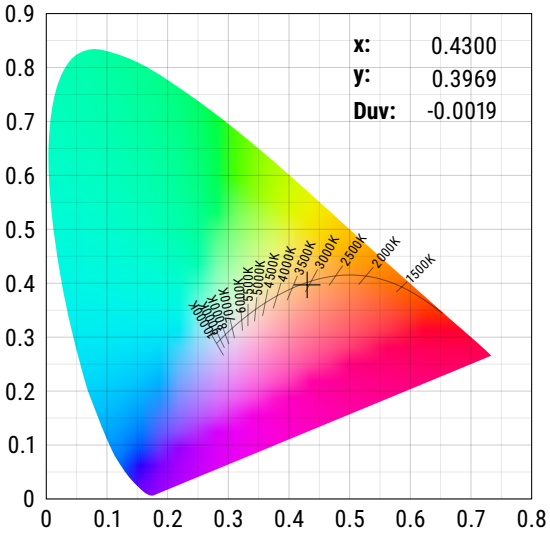


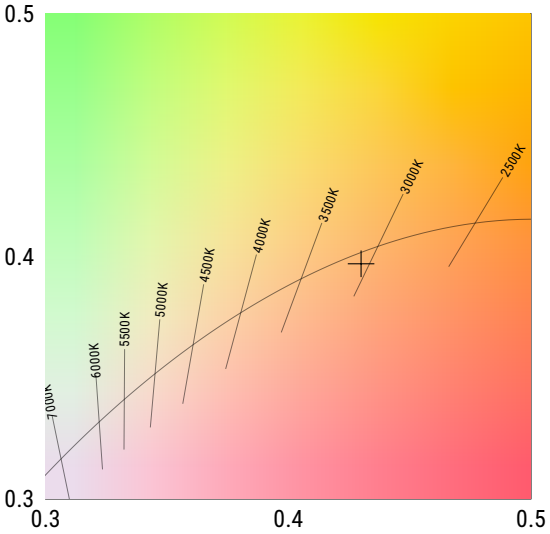


		Min	Mid	Max
Beam	(50%)	4.4	17.3	58.1
Field	(10%)	9.4	25	78.3
Cutoff	(3%)	14.2	28.3	85.4

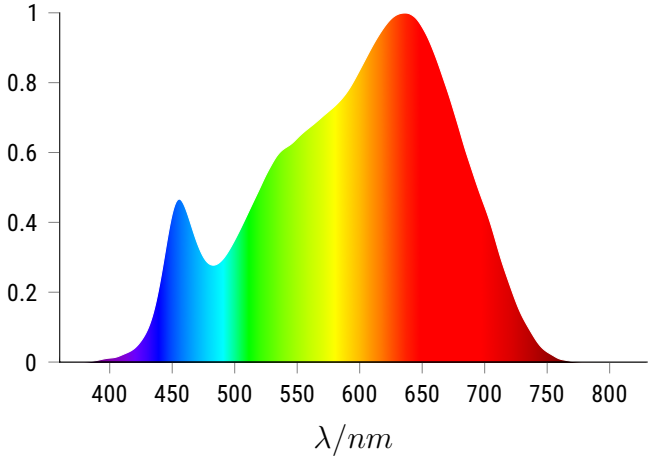
Color Details

CIE 1931

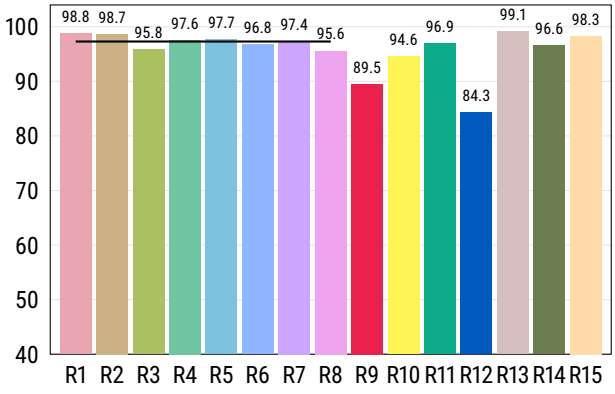




Spectral distribution



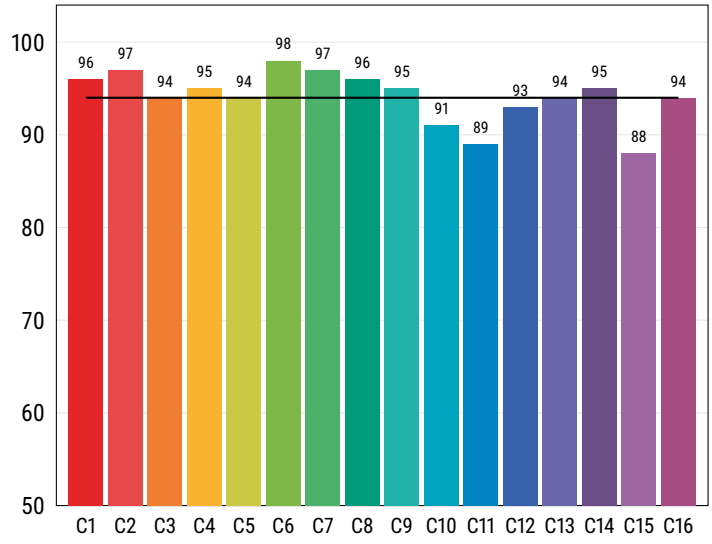
CRI: 97.3 (R1 - R8)



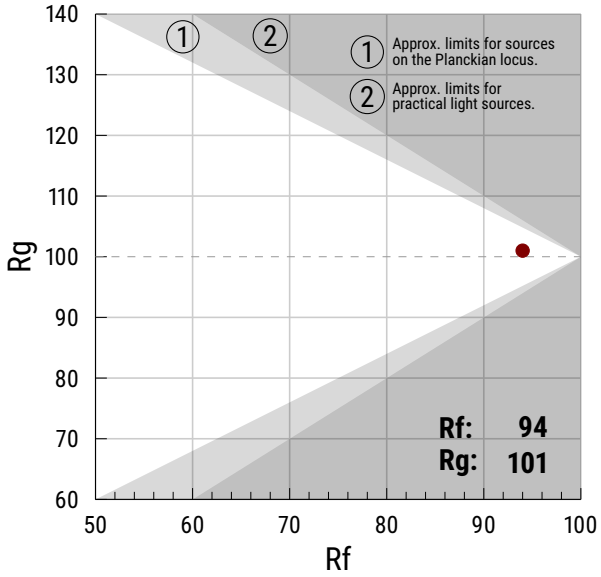
JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

TM30

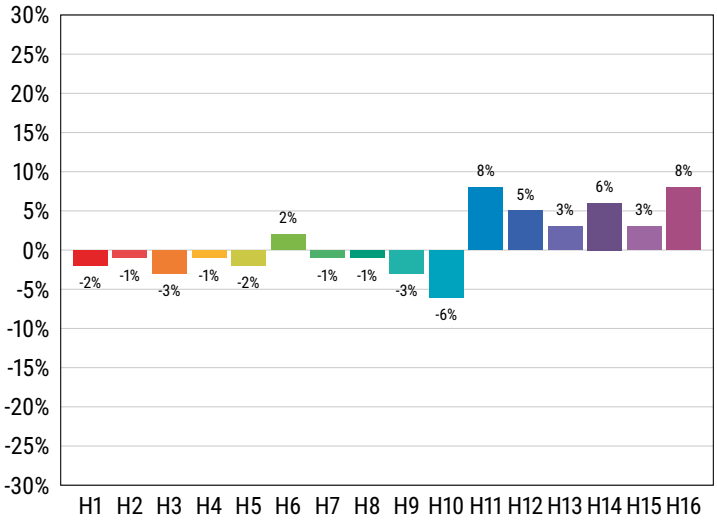
Rf by hue: 94.0



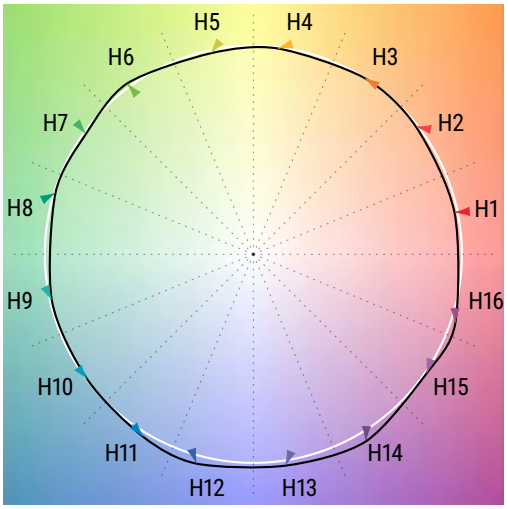
Fidelity-Gamut Plot



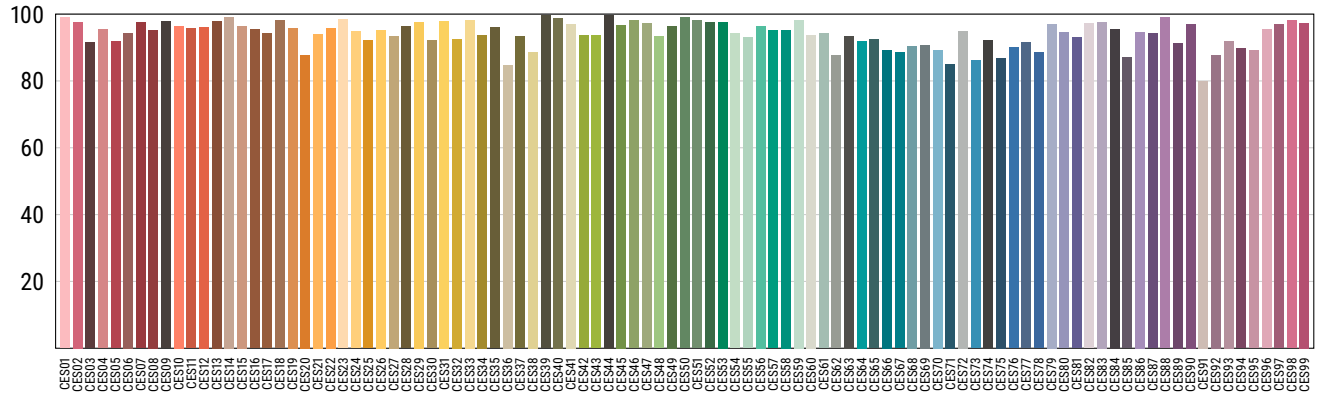
Chroma shift by hue



Color vector graphics



Fidelity Index, Rf



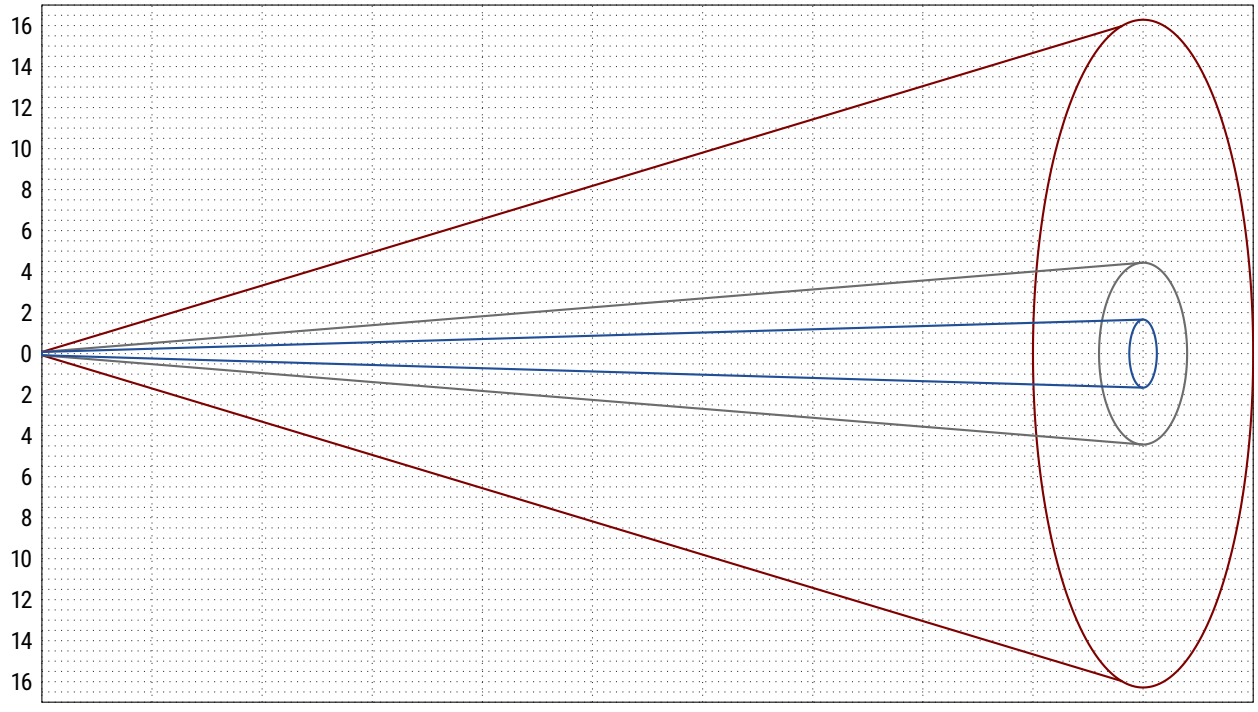
JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de

Illuminance in Lux

Beam angle: 9.5° (Zoom min., 10% Field)											
Distance	(m)	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Ø	(m)	0.33	0.66	1.00	1.33	1.66	1.99	2.33	2.66	2.99	3.32
Boost	(Lux)	244662	61165	29787	16524	10576	7344	5396	4131	3264	2644
Standard	(Lux)	217749	54437	26510	14707	9412	6536	4802	3677	2905	2353
Silent	(Lux)	254766	63692	31017	17207	11012	7648	5619	4302	3399	2753
Whisper	(Lux)	226742	56685	27605	15314	9801	6806	5001	3829	3025	2450

Beam angle: 25° (Zoom mid., 10% Field)											
Distance	(m)	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Ø	(m)	0.89	1.77	2.66	3.55	4.43	5.32	6.21	7.09	7.98	8.87
Boost	(Lux)	98084	27981	13182	7485	4791	3327	2444	1871	1479	1198
Standard	(Lux)	87295	24903	11732	6662	4264	2961	2175	1665	1316	1066
Silent	(Lux)	102135	29137	13726	7794	4988	3464	2545	1949	1540	1247
Whisper	(Lux)	90900	25932	12216	6937	4440	3083	2265	1734	1370	1110

Beam angle: 78.3° (Zoom max., 10% Field)											
Distance	(m)	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Ø	(m)	3.30	6.51	9.77	13.00	16.30	19.50	22.80	26.05	29.31	32.57
Boost	(Lux)	5667	1462	641	358	229	159	117	90	71	57
Standard	(Lux)	5044	1301	571	319	204	142	104	80	63	51
Silent	(Lux)	5901	1523	668	373	239	166	122	93	74	60
Whisper	(Lux)	5252	1355	594	332	213	148	108	83	66	53



(m)	2	4	6	8	10	12	14	16	18	20
Ø	0.33	0.66	1.00	1.33	1.66	1.99	2.33	2.66	2.99	3.32
Ø	0.89	1.77	2.66	3.55	4.43	5.32	6.21	7.09	7.98	8.87
Ø	3.30	6.51	9.77	13.00	16.30	19.50	22.80	26.05	29.31	32.57

Measured with fixture heated up

JB-Lighting Lichtanlagentechnik GmbH
Sallersteig 15 · D-89134 Blaustein · Tel. +49 (0)7304 9617-0 · Fax +49 (0)7304 9617-99 · info@jb-lighting.de · www.jb-lighting.de