

GLP MAD MAXX CW



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Fixture software v. 0.13.15.rc6



Document revisions

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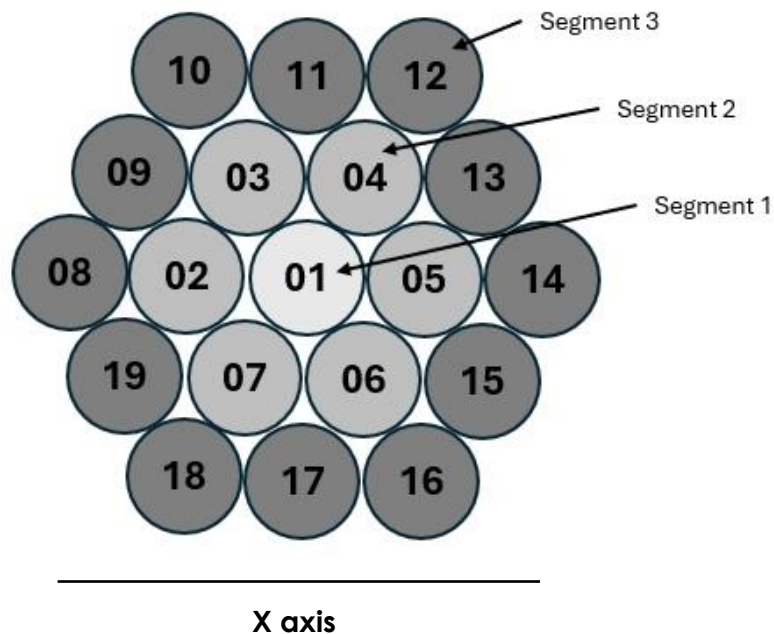
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Beam and segment layout

The GLP Mad Maxx fixture's standard beam and segment layout is shown below:



The drawing above shows the standard beam layout with the fixture standing on the ground, pan at 50% (home position) and tilt at 100% (front).

Note that x-axis and y-axis beam mirror options are available via DMX on the Control / Settings channel and using the menus in the fixture's control panel.

Direction of pan and tilt

Pan and tilt directions are shown on the right:



DMX control modes overview

The GLP MAD MAXX CW offers the following DMX control modes.

DMX channels from 1 to 5 have the same functionality in all the DMX control modes.

DMX Mode 1: Normal

15 DMX Channels

Module 1 (basic control)

Pan	001/002
Tilt	003 / 004
Control	005
Intensity	006 / 007
Shutter	008
Iris	009
Pattern Select	010
Pattern Speed	011
Pattern X-Fade	012
Pattern Transition	013
Color Wheel	014 / 015

DMX Mode 2: Segments

22 DMX Channels

Module 1 (Main control)

Pan	001/002
Tilt	003 / 004
Control	005
Intensity	006 / 007
Shutter	008
Iris	009
Pattern Select	010
Pattern Speed	011
Pattern X-Fade	012
Pattern Transition	013

Module 2 (Segment 1 Control)

Intensity (Segment 1)	014
Color Wheel (Segment 1)	015 / 016

Module 3 (Segment 2 Control)

Intensity (Segment 2)	017
Color Wheel (Segment 2)	018 / 019

Module 4 (Segment 3 Control)

Intensity (Segment 3)	020
Color Wheel (Segment 3)	021 / 022

DMX Mode 3: Multi Beam

70 DMX Channels

Module 1 (Main control)

Pan	001/002
Tilt	003 / 004
Control	005
Intensity	006 / 007
Shutter	008
Iris	009
Pattern Select	010
Pattern Speed	011
Pattern X-Fade	012
Pattern Transition	013

Module 2 (Beam 1 Control)

Intensity (Beam 1)	014
Color Wheel (Beam 1)	015 / 016

Module 3 (Beam 2 Control)

Intensity (Beam 2)	017
Color Wheel (Beam 2)	018 / 019

Module .. (Beam .. Control)

Intensity (Beam ..)	..
Color Wheel (Beam ..)	.. / ..

Module 20 (Beam 19 Control)

Intensity (Beam 19)	068
Color Wheel (Beam 19)	069 / 070

DMX channel layout

In the following DMX channel layout tables:

- Default settings are indicated with **bold type**.
- Where commands are followed by (3s hold) you must send that value continuously for 3 seconds (or other duration if indicated in the table) to apply the command.

DMX Mode 1: Normal

15 DMX Channels

Channel	Command	DMX range 8-bit		DMX range 16-bit		Default DMX	Fade/ Snap	
Main Module								
1 2	Pan coarse Pan fine	Pan left → right	0	255	0	65535	32768	Fade
3 4	Tilt coarse Tilt fine	Tilt back → front	0	255	0	65535	32768	Fade
5	Control/Settings	See 'Control / Settings channel' on page 28						
6 7	Intensity coarse Intensity fine	Intensity 0 → 100%	0	255	0	65535	0	Fade
8	Shutter	Closed	0	4			0	Snap
		Single flash if value changed within the range 005 → 009	5	9				Fade
		Open	10	11				Snap
		Pulse slow → fast	12	39				Fade
		Open	40	41				Snap
		Pulse opening slow → fast	42	69				Fade
		Open	70	71				Snap
		Pulse closing slow → fast	72	99				Fade
		Open	100	101				Snap
		Double flash slow → fast	102	129				Fade
		Open	130	131				Snap
		Strobe random pixel slow → fast	132	159				Fade
		Open	160	161				Snap
		Strobe random all slow → fast	162	199				Fade
		Open	200	201				Snap
		Strobe sync all pixels slow → fast	202	250				Fade
		Open	251	255				Snap
9	Virtual iris	Open (full beam) → narrow beam Blackout	0	255			0	Fade
10	Pattern selection	Idle	0	9			0	Snap
		Static Pattern 01	10	11				
		Static Pattern 02	12	13				
		Static Pattern 03	14	15				
		Static Pattern 04	16	17				
		Static Pattern 05	18	19				
		Static Pattern 06	20	21				
		Static Pattern 07	22	23				
		Static Pattern 08	24	25				
		Static Pattern 09	26	27				
		Static Pattern 10	28	29				
		Static Pattern 11	30	31				

10	Pattern selection ctd. (continued)	Static Pattern 12	32	33				
		Static Pattern 13	34	35				
		Static Pattern 14	36	37				
		Static Pattern 15	38	39				
		Static Pattern 16	40	41				
		Static Pattern 17	52	43				
		Static Pattern 18	44	45				
		Static Pattern 19	46	47				
		Static Pattern 20	48	49				
		Static Pattern 21	50	51				
		Static Pattern 22	52	53				
		Static Pattern 23	54	55				
		Static Pattern 24	56	57				
		Static Pattern 25	58	59				
		Static Pattern 26	60	61				
		Static Pattern 27	62	63				
		Static Pattern 28	64	65				
		Static Pattern 29	66	67				
		Static Pattern 30	68	69				
		Static Pattern 31	70	71				
		Static Pattern 32	72	73				
		Static Pattern 33	74	75				
		Static Pattern 34	76	77				
		Static Pattern 35	78	79				
		Static Pattern 36	80	81				
		Static Pattern 37	82	83				
		Static Pattern 38	84	85				
		Static Pattern 39	86	87				
		Static Pattern 40	88	89				
		Static Pattern 41	90	91				
		Static Pattern 42	92	93				
		Static Pattern 43	94	95				
		Static Pattern 44	96	97				
		Static Pattern 45	98	99				
		Static Pattern 46	100	101				
		Static Pattern 47	102	103				
		Static Pattern 48	104	105				
		Static Pattern 49	106	107				
		Static Pattern 50	108	109				
		Dynamic Pattern 01	110	111				
		Dynamic Pattern 02	112	113				
		Dynamic Pattern 03	114	115				
		Dynamic Pattern 04	116	117				
		Dynamic Pattern 05	118	119				
		Dynamic Pattern 06	120	121				
		Dynamic Pattern 07	122	123				
		Dynamic Pattern 08	124	125				
		Dynamic Pattern 09	126	127				
		Dynamic Pattern 10	128	129				
		Dynamic Pattern 11	130	131				
		Dynamic Pattern 12	132	133				
		Dynamic Pattern 13	134	135				
		Dynamic Pattern 14	136	137				
		Dynamic Pattern 15	138	139				

0

Snap

10	Pattern selection ctd. (continued)	Dynamic Pattern 16	140	141			0	Snap
		Dynamic Pattern 17	142	143				
		Dynamic Pattern 18	144	145				
		Dynamic Pattern 19	146	147				
		Dynamic Pattern 20	148	149				
		Dynamic Pattern 21	150	151				
		Dynamic Pattern 22	152	153				
		Dynamic Pattern 23	154	155				
		Dynamic Pattern 24	156	157				
		Dynamic Pattern 25	158	159				
		Dynamic Pattern 26	160	161				
		Dynamic Pattern 27	162	163				
		Dynamic Pattern 28	164	165				
		Dynamic Pattern 29	166	167				
		Dynamic Pattern 30	168	169				
		Dynamic Pattern 31	170	171				
		Dynamic Pattern 32	172	173				
		Dynamic Pattern 33	174	175				
		Dynamic Pattern 34	176	177				
		Dynamic Pattern 35	178	179				
		Dynamic Pattern 36	180	181				
		Dynamic Pattern 37	182	183				
		Dynamic Pattern 38	184	185				
		Dynamic Pattern 39	186	187				
		Dynamic Pattern 40	188	189				
		Dynamic Pattern 41	190	191				
		Dynamic Pattern 42	192	193				
		Dynamic Pattern 43	194	195				
		Dynamic Pattern 44	196	197				
		Dynamic Pattern 45	198	199				
		Dynamic Pattern 46	200	201				
		Dynamic Pattern 47	202	203				
		Dynamic Pattern 48	204	205				
		Dynamic Pattern 49	206	207				
		Dynamic Pattern 50	208	209				
		No function	210	249				
		Random Pixel	250	255				
11	Pattern step / speed	Stop (first pattern step)	0	1			0	Snap
		CW fast → slow (run pattern step 1 → n)	2	63				Fade
		Stop at current position	64	66				Snap
		CCW slow → fast (run pattern step n → 1)	67	127				Fade
		Pattern Step 01	128	129				Snap
		Pattern Step 02	130	131				
		Pattern Step 03	132	133				
		Pattern Step 04	134	135				
		Pattern Step 05	136	137				
		Pattern Step 06	138	139				
		Pattern Step 07	140	141				
		Pattern Step 08	142	143				
		Pattern Step 09	144	145				
		Pattern Step 10	146	147				

11 ctd.	Pattern step / speed (continued)	Pattern Step 11	148	149			0	Snap
		Pattern Step 12	150	151				
		Pattern Step 13	152	153				
		Pattern Step 14	154	155				
		Pattern Step 15	156	157				
		Pattern Step 16	158	159				
		Pattern Step 17	160	161				
		Pattern Step 18	162	163				
		Pattern Step 19	164	165				
		Pattern Step 20	166	167				
		Pattern Step 21	168	169				
		Pattern Step 22	170	171				
		Pattern Step 23	172	173				
		Pattern Step 24	174	175				
		Pattern Step 25	176	177				
		Pattern Step 26	178	179				
		Pattern Step 27	180	181				
		Pattern Step 28	182	183				
		Pattern Step 29	184	185				
		Pattern Step 30	186	187				
		Pattern Step 31	188	189				
		Pattern Step 32	190	191				
		Pattern Step 33	192	193				
		Pattern Step 34	194	195				
		Pattern Step 35	196	197				
		Pattern Step 36	198	199				
		Pattern Step 37	200	201				
		Pattern Step 41	208	209				
		Pattern Step 42	210	211				
		Pattern Step 43	212	213				
		Pattern Step 41	208	209				
		Pattern Step 42	210	211				
		Pattern Step 43	212	213				
		Pattern Step 44	214	215				
		Pattern Step 45	216	217				
		Pattern Step 46	218	219				
		Pattern Step 47	220	221				
		Pattern Step 48	222	223				
		Pattern Step 49	224	225				
		Pattern Step 50	226	227				
		Pattern Step 51	228	229				
		Pattern Step 52	230	231				
		Pattern Step 53	232	233				
		Pattern Step 54	234	235				
		Pattern Step 55	236	237				
		Pattern Step 56	238	239				
		Pattern Step 57	240	241				
		Pattern Step 58	242	243				
		Pattern Step 59	244	245				
		Pattern Step 60	246	247				
		Next Step A	248	249				
		Next Step B	250	251				
		Previous Step A	252	253				
		Previous Step B	254	255				

12	Pattern step crossfading (from one step to next)	Off (no crossfading, Snap)	0	9			0	Snap
		Crossfading: Snap → min. Xfade → max. Xfade (fade in and fade out times are identical)	10	127				Fade
		Off (no crossfading, snap)	128	137				Snap
		Crossfading with tail: Snap → min. Xfade with tail → max. Xfade with tail (fade-in time is shorter than fade-out time, this creates a shadow effect)	138	255				Fade
13	Pattern transition (from one pattern to next)	Off (snap from one pattern to next)	0	9			0	Snap
		Normal transition (snap → fade 5s)	10	63				Fade
		Off (snap from one pattern to next)	64	73				Snap
		FOB (Fade Over Blackout) transition (snap → fade 5s)	74	127				Fade
		Off (snap from one pattern to next)	128	137				Snap
		FOF (Fade Over Full) transition (snap → fade 5s)	138	190				Fade
		No function	191	201				
		No transition time	202	255				Snap
14 15	Color Wheel 16-bit	CTO open (Selected white point)	0	4	0	1279	0	Snap
		CTO 0 → 100%	5	88	1280	22783		
		Open	89		22784	23039		
		Split color: Open – color 1	90		23040	23295		
		Full color 1: Congo Blue (Lee 181)	91		23296	23551		
		Split color: color 1 – color 2	92		23552	23807		
		Full color 2: High CRI	93		23808	24063		
		Split color: color 2 – color 3	94		24064	24319		
		Full color 3: Primary Red	95		24320	24575		
		Split color: color 3 – color 4	96		24576	24831		
		Full color 4: Surprise Pink	97		24832	25087		
		Split color: color 4 – color 5	98		25088	25343		
		Full color 5: Deep Golden Amber	99		25344	25599		
		Split color: color 5 – color 6	100		25600	25855		
		Full color 6: Lagoon Blue	101		25856	26111		
		Split color: color 6 – color 7	102		26112	26367		
		Full color 7: Dark Steel Blue	103		26368	26623		
		Split color: color 7 – color 8	104		26624	26879		
		Full color 8: Mauve	105		26880	27135		
		Split color: color 2 – color 3	106		27136	27391		
		Full color 9: Laser Green	107		27392	27647		
		Split color: color 9 – color 10	108		27648	27903		
		Full color 10: Purple Red	109		27904	28159		
		Split color: color 10 – color 11	110		28160	28415		
		Full color 11: Dark Orange	111		28416	28671		
		Split color: color 11 – color 12	112		28672	28927		
		Full color 12: Primary Green	113		28928	29183		
		Split color: color 12 – color 13	114		27136	27391		

14 15 ctd.	Color Wheel 16-bit (continued)	Full color 13: Deep Blue	115	29440	29695	0	Snap
		Split color: color 13 – color14	116	29696	29951		
		Full color 14: Yellow	117	29952	30207		
		Split color: color 14 – color 15	118	30208	30463		
		Full color 15: Light Blue	119	30464	30719		
		Split color: color 15 – color 16	120	30720	30975		
		Full color 16: Magical Magenta	121	30976	31231		
		Split color: color 16 – color 17	122	31232	31487		
		Full color 17: Orange	123	31488	31743		
		Split color: color 17 – color 18	124	31744	31999		
		Full color 18: Full CTB	125	32000	32255		
		Split color: color 18 – color 19`*`	126	32256	32511		
		Full color 19*: CTO	127	32512	32767		
		Color wheel indexing					
		Open	128	191	32768	49151	
		...					
		Color 19					
		Open	192		49152	49407	
		Continuous color wheel fade:	193	248	49408	63743	
		Open - Color 1 - Color 2 ... Color 18 -					
		Color 19 - Color 18 ... Color 1 - Open					
		- Color 1 ...					
		Stop at current position	249		63744	63999	
		Next Step A (snap to next full color,	250		64000	64255	
		or if in CTO range snap to full CTO)					
		Next Step B (snap to next full color,	251		64256	64511	
		or if in CTO range snap to full CTO)					
		Open	252		64512	64767	
		Previous Step A (snap to previous full	253		64768	65023	
		color, or if in CTO range snap to					
		lowest CTO)					
		Previous Step B (snap to previous full	254		65024	65279	
		color, or if in CTO range snap to					
		lowest CTO)					
		Blackout	255		65280	65535	

DMX Mode 2: Segments

22 DMX Channels

Channel		Command	DMX range 8-bit		DMX range 16-bit		Default DMX	Fade/ Snap
Main Module								
1	Pan coarse	Pan left → right	0	255	0	65535	32768	Fade
2	Pan fine							
3	Tilt coarse	Tilt back → front	0	255	0	65535	32768	Fade
4	Tilt fine							
5	Control/Settings	See 'Control / Settings channel' on page 28						
6	Intensity coarse	Intensity 0 → 100%	0	255	0	65535	0	Fade
7	Intensity fine							
8	Shutter	Closed	0	4			0	Snap
		Single flash if value changed within the range 005 → 009	5	9				Fade
		Open	10	11				Snap
		Pulse slow → fast	12	39				Fade
		Open	40	41				Snap
		Pulse opening slow → fast	42	69				Fade
		Open	70	71				Snap
		Pulse closing slow → fast	72	99				Fade
		Open	100	101				Snap
		Double flash slow → fast	102	129				Fade
		Open	130	131				Snap
		Strobe random pixel slow → fast	132	159				Fade
		Open	160	161				Snap
		Strobe random all slow → fast	162	199				Fade
		Open	200	201				Snap
		Strobe sync all pixels slow → fast	202	250				Fade
		Open	251	255				Snap
9	Virtual iris	Open (full beam) → narrow beam Blackout	0	255			0	Fade
10	Pattern selection	Idle	0	9			0	Snap
		Static Pattern 01	10	11				
		Static Pattern 02	12	13				
		Static Pattern 03	14	15				
		Static Pattern 04	16	17				
		Static Pattern 05	18	19				
		Static Pattern 06	20	21				
		Static Pattern 07	22	23				
		Static Pattern 08	24	25				
		Static Pattern 09	26	27				
		Static Pattern 10	28	29				
		Static Pattern 11	30	31				

10	Pattern selection ctd. (continued)	Static Pattern 12	32	33			0	Snap
		Static Pattern 13	34	35				
		Static Pattern 14	36	37				
		Static Pattern 15	38	39				
		Static Pattern 16	40	41				
		Static Pattern 17	52	43				
		Static Pattern 18	44	45				
		Static Pattern 19	46	47				
		Static Pattern 20	48	49				
		Static Pattern 21	50	51				
		Static Pattern 22	52	53				
		Static Pattern 23	54	55				
		Static Pattern 24	56	57				
		Static Pattern 25	58	59				
		Static Pattern 26	60	61				
		Static Pattern 27	62	63				
		Static Pattern 28	64	65				
		Static Pattern 29	66	67				
		Static Pattern 30	68	69				
		Static Pattern 31	70	71				
		Static Pattern 32	72	73				
		Static Pattern 33	74	75				
		Static Pattern 34	76	77				
		Static Pattern 35	78	79				
		Static Pattern 36	80	81				
		Static Pattern 37	82	83				
		Static Pattern 38	84	85				
		Static Pattern 39	86	87				
		Static Pattern 40	88	89				
		Static Pattern 41	90	91				
		Static Pattern 42	92	93				
		Static Pattern 43	94	95				
		Static Pattern 44	96	97				
		Static Pattern 45	98	99				
		Static Pattern 46	100	101				
		Static Pattern 47	102	103				
		Static Pattern 48	104	105				
		Static Pattern 49	106	107				
		Static Pattern 50	108	109				
		Dynamic Pattern 01	110	111				
		Dynamic Pattern 02	112	113				
		Dynamic Pattern 03	114	115				
		Dynamic Pattern 04	116	117				
		Dynamic Pattern 05	118	119				
		Dynamic Pattern 06	120	121				
		Dynamic Pattern 07	122	123				
		Dynamic Pattern 08	124	125				
		Dynamic Pattern 09	126	127				
		Dynamic Pattern 10	128	129				
		Dynamic Pattern 11	130	131				
		Dynamic Pattern 12	132	133				
		Dynamic Pattern 13	134	135				
		Dynamic Pattern 14	136	137				
		Dynamic Pattern 15	138	139				

10	Pattern selection (continued)	Dynamic Pattern 16	140	141			0	Snap
		Dynamic Pattern 17	142	143				
		Dynamic Pattern 18	144	145				
		Dynamic Pattern 19	146	147				
		Dynamic Pattern 20	148	149				
		Dynamic Pattern 21	150	151				
		Dynamic Pattern 22	152	153				
		Dynamic Pattern 23	154	155				
		Dynamic Pattern 24	156	157				
		Dynamic Pattern 25	158	159				
		Dynamic Pattern 26	160	161				
		Dynamic Pattern 27	162	163				
		Dynamic Pattern 28	164	165				
		Dynamic Pattern 29	166	167				
		Dynamic Pattern 30	168	169				
		Dynamic Pattern 31	170	171				
		Dynamic Pattern 32	172	173				
		Dynamic Pattern 33	174	175				
		Dynamic Pattern 34	176	177				
		Dynamic Pattern 35	178	179				
		Dynamic Pattern 36	180	181				
		Dynamic Pattern 37	182	183				
		Dynamic Pattern 38	184	185				
		Dynamic Pattern 39	186	187				
		Dynamic Pattern 40	188	189				
		Dynamic Pattern 41	190	191				
		Dynamic Pattern 42	192	193				
		Dynamic Pattern 43	194	195				
		Dynamic Pattern 44	196	197				
		Dynamic Pattern 45	198	199				
		Dynamic Pattern 46	200	201				
		Dynamic Pattern 47	202	203				
		Dynamic Pattern 48	204	205				
		Dynamic Pattern 49	206	207				
		Dynamic Pattern 50	208	209				
		No function	210	249				
		Random Pixel	250	255				
11	Pattern step / speed	Stop (first pattern step)	0	1			0	Snap
		CW fast → slow (run pattern step 1 → n)	2	63				Fade
		Stop at current position	64	66				Snap
		CCW slow → fast (run pattern step n → 1)	67	127				Fade
		Pattern Step 01	128	129				Snap
		Pattern Step 02	130	131				
		Pattern Step 03	132	133				
		Pattern Step 04	134	135				
		Pattern Step 05	136	137				
		Pattern Step 06	138	139				
		Pattern Step 07	140	141				
		Pattern Step 08	142	143				
		Pattern Step 09	144	145				
		Pattern Step 10	146	147				

11 ctd.	Pattern step / speed (continued)	Pattern Step 11	148	149			0	Snap
		Pattern Step 12	150	151				
		Pattern Step 13	152	153				
		Pattern Step 14	154	155				
		Pattern Step 15	156	157				
		Pattern Step 16	158	159				
		Pattern Step 17	160	161				
		Pattern Step 18	162	163				
		Pattern Step 19	164	165				
		Pattern Step 20	166	167				
		Pattern Step 21	168	169				
		Pattern Step 22	170	171				
		Pattern Step 23	172	173				
		Pattern Step 24	174	175				
		Pattern Step 25	176	177				
		Pattern Step 26	178	179				
		Pattern Step 27	180	181				
		Pattern Step 28	182	183				
		Pattern Step 29	184	185				
		Pattern Step 30	186	187				
		Pattern Step 31	188	189				
		Pattern Step 32	190	191				
		Pattern Step 33	192	193				
		Pattern Step 34	194	195				
		Pattern Step 35	196	197				
		Pattern Step 36	198	199				
		Pattern Step 37	200	201				
		Pattern Step 41	208	209				
		Pattern Step 42	210	211				
		Pattern Step 43	212	213				
		Pattern Step 41	208	209				
		Pattern Step 42	210	211				
		Pattern Step 43	212	213				
		Pattern Step 44	214	215				
		Pattern Step 45	216	217				
		Pattern Step 46	218	219				
		Pattern Step 47	220	221				
		Pattern Step 48	222	223				
		Pattern Step 49	224	225				
		Pattern Step 50	226	227				
		Pattern Step 51	228	229				
		Pattern Step 52	230	231				
		Pattern Step 53	232	233				
		Pattern Step 54	234	235				
		Pattern Step 55	236	237				
		Pattern Step 56	238	239				
		Pattern Step 57	240	241				
		Pattern Step 58	242	243				
		Pattern Step 59	244	245				
		Pattern Step 60	246	247				
		Next Step A	248	249				
		Next Step B	250	251				
		Previous Step A	252	253				
		Previous Step B	254	255				

12	Pattern step crossfading (from one step to next)	Off (no crossfading, Snap)	0	9			0	Snap
		Crossfading: Snap → min. Xfade → max. Xfade (fade in and fade out times are identical)	10	127				Fade
		Off (no crossfading, snap)	128	137				Snap
		Crossfading with tail: Snap → min. Xfade with tail → max. Xfade with tail (fade-in time is shorter than fade-out time, this creates a shadow effect)	138	255				Fade
13	Pattern transition (from one pattern to next)	Off (snap from one pattern to next)	0	9			0	Snap
		Normal transition (snap → fade 5s)	10	63				Fade
		Off (snap from one pattern to next)	64	73				Snap
		FOB (Fade Over Blackout) transition (snap → fade 5s)	74	127				Fade
		Off (snap from one pattern to next)	128	137				Snap
		FOF (Fade Over Full) transition (snap → fade 5s)	138	190				Fade
		No function	191	201				
		No transition time	202	255				Snap

Segments

14	Intensity Segment 1 (Center Beam)	Intensity 0 → 100%	0	255			0	Fade
15 16	Color Wheel Segment 1 (Center Beam) 16-bit	CTO open (Selected white point)	0	4	0	1279	0	Snap
		CTO 0 → 100%	5	88	1280	22783		
		Open	89		22784	23039		
		Split color: Open – color 1	90		23040	23295		
		Full color 1: Congo Blue (Lee 181)	91		23296	23551		
		Split color: color 1 – color 2	92		23552	23807		
		Full color 2: High CRI	93		23808	24063		
		Split color: color 2 – color 3	94		24064	24319		
		Full color 3: Primary Red	95		24320	24575		
		Split color: color 3 – color 4	96		24576	24831		
		Full color 4: Surprise Pink	97		24832	25087		
		Split color: color 4 – color 5	98		25088	25343		
		Full color 5: Deep Golden Amber	99		25344	25599		
		Split color: color 5 – color 6	100		25600	25855		
		Full color 6: Lagoon Blue	101		25856	26111		
		Split color: color 6 – color 7	102		26112	26367		
		Full color 7: Dark Steel Blue	103		26368	26623		
		Split color: color 7 – color 8	104		26624	26879		
		Full color 8: Mauve	105		26880	27135		
		Split color: color 2 – color 3	106		27136	27391		
		Full color 9: Laser Green	107		27392	27647		
		Split color: color 9 – color 10	108		27648	27903		
		Full color 10: Purple Red	109		27904	28159		
		Split color: color 10 – color 11	110		28160	28415		
		Full color 11: Dark Orange	111		28416	28671		
		Split color: color 11 – color 12	112		28672	28927		
		Full color 12: Primary Green	113		28928	29183		
		Split color: color 12 – color 13	114		27136	27391		

15 16 ctd.	Color Wheel Segment 1 (Center Beam) 16-bit (continued)	Full color 13: Deep Blue	115	29440	29695	0	Snap
		Split color: color 13 – color 14	116	29696	29951		
		Full color 14: Yellow	117	29952	30207		
		Split color: color 14 – color 15	118	30208	30463		
		Full color 15: Light Blue	119	30464	30719		
		Split color: color 15 – color 16	120	30720	30975		
		Full color 16: Magical Magenta	121	30976	31231		
		Split color: color 16 – color 17	122	31232	31487		
		Full color 17: Orange	123	31488	31743		
		Split color: color 17 – color 18	124	31744	31999		
		Full color 18: Full CTB	125	32000	32255		
		Split color: color 18 – color 19*	126	32256	32511		
		Full color 19*: CTO	127	32512	32767		
		Color wheel indexing Open	128	191	32768	49151	
		...					
		Color 19					
		Open	192	49152	49407		
		Continuous color wheel fade: Open - Color 1 - Color 2 ... Color 18 - Color 19 - Color 18 ... Color 1 - Open - Color 1 ...	193	248	49408	63743	
		Stop at current position	249	63744	63999		
		Next Step A (snap to next full color, or if in CTO range snap to full CTO)	250	64000	64255		
		Next Step B (snap to next full color, or if in CTO range snap to full CTO)	251	64256	64511		
		Open	252	64512	64767		
		Previous Step A (snap to previous full color, or if in CTO range snap to lowest CTO)	253	64768	65023		
		Previous Step B (snap to previous full color, or if in CTO range snap to lowest CTO)	254	65024	65279		
		Blackout	255	65280	65535		
17	Intensity Segment 2 (Middle Ring)	Same as Intensity Segment 1 on channel 14					
18 19	Color Wheel Segment 2 (Middle Ring)	Same as Color Wheel Segment 1 on channels 15 + 16					
20	Intensity Segment 3 (Outer Ring)	Same as Intensity Segment 1 on channel 14					
21 22	Color Wheel Segment 3 (Outer Ring)	Same as Color Wheel Segment 1 on channels 15 + 16					

DMX Mode 3: Multi Beam**70 DMX Channels**

Channel		Command	DMX range 8-bit		DMX range 16-bit		Default DMX	Fade/ Snap
Main Module								
1	Pan coarse	Pan left → right	0	255	0	65535	32768	Fade
2	Pan fine							
3	Tilt coarse	Tilt back → front	0	255	0	65535	32768	Fade
4	Tilt fine							
5	Control/Settings	See 'Control / Settings channel' on page 28						
6	Intensity coarse	Intensity 0 → 100%	0	255	0	65535	0	Fade
7	Intensity fine							
8	Shutter	Closed	0	4			0	Snap
		Single flash if value changed within the range 005 → 009	5	9				Fade
		Open	10	11				Snap
		Pulse slow → fast	12	39				Fade
		Open	40	41				Snap
		Pulse opening slow → fast	42	69				Fade
		Open	70	71				Snap
		Pulse closing slow → fast	72	99				Fade
		Open	100	101				Snap
		Double flash slow → fast	102	129				Fade
		Open	130	131				Snap
		Strobe random pixel slow → fast	132	159				Fade
		Open	160	161				Snap
		Strobe random all slow → fast	162	199				Fade
		Open	200	201				Snap
		Strobe sync all pixels slow → fast	202	250				Fade
		Open	251	255				Snap
9	Virtual iris	Open (full beam) → narrow beam Blackout	0	255			0	Fade
10	Pattern selection	Idle	0	9			0	Snap
		Static Pattern 01	10	11				
		Static Pattern 02	12	13				
		Static Pattern 03	14	15				
		Static Pattern 04	16	17				
		Static Pattern 05	18	19				
		Static Pattern 06	20	21				
		Static Pattern 07	22	23				
		Static Pattern 08	24	25				
		Static Pattern 09	26	27				
		Static Pattern 10	28	29				
		Static Pattern 11	30	31				

10	Pattern selection ctd. (continued)	Static Pattern 12	32	33				
		Static Pattern 13	34	35				
		Static Pattern 14	36	37				
		Static Pattern 15	38	39				
		Static Pattern 16	40	41				
		Static Pattern 17	52	43				
		Static Pattern 18	44	45				
		Static Pattern 19	46	47				
		Static Pattern 20	48	49				
		Static Pattern 21	50	51				
		Static Pattern 22	52	53				
		Static Pattern 23	54	55				
		Static Pattern 24	56	57				
		Static Pattern 25	58	59				
		Static Pattern 26	60	61				
		Static Pattern 27	62	63				
		Static Pattern 28	64	65				
		Static Pattern 29	66	67				
		Static Pattern 30	68	69				
		Static Pattern 31	70	71				
		Static Pattern 32	72	73				
		Static Pattern 33	74	75				
		Static Pattern 34	76	77				
		Static Pattern 35	78	79				
		Static Pattern 36	80	81				
		Static Pattern 37	82	83				
		Static Pattern 38	84	85				
		Static Pattern 39	86	87				
		Static Pattern 40	88	89				
		Static Pattern 41	90	91				
		Static Pattern 42	92	93				
		Static Pattern 43	94	95				
		Static Pattern 44	96	97				
		Static Pattern 45	98	99				
		Static Pattern 46	100	101				
		Static Pattern 47	102	103				
		Static Pattern 48	104	105				
		Static Pattern 49	106	107				
		Static Pattern 50	108	109				
		Dynamic Pattern 01	110	111				
		Dynamic Pattern 02	112	113				
		Dynamic Pattern 03	114	115				
		Dynamic Pattern 04	116	117				
		Dynamic Pattern 05	118	119				
		Dynamic Pattern 06	120	121				
		Dynamic Pattern 07	122	123				
		Dynamic Pattern 08	124	125				
		Dynamic Pattern 09	126	127				
		Dynamic Pattern 10	128	129				
		Dynamic Pattern 11	130	131				
		Dynamic Pattern 12	132	133				
		Dynamic Pattern 13	134	135				
		Dynamic Pattern 14	136	137				
		Dynamic Pattern 15	138	139				

0

Snap

10	Pattern selection ctd. (continued)	Dynamic Pattern 16	140	141			0	Snap
		Dynamic Pattern 17	142	143				
		Dynamic Pattern 18	144	145				
		Dynamic Pattern 19	146	147				
		Dynamic Pattern 20	148	149				
		Dynamic Pattern 21	150	151				
		Dynamic Pattern 22	152	153				
		Dynamic Pattern 23	154	155				
		Dynamic Pattern 24	156	157				
		Dynamic Pattern 25	158	159				
		Dynamic Pattern 26	160	161				
		Dynamic Pattern 27	162	163				
		Dynamic Pattern 28	164	165				
		Dynamic Pattern 29	166	167				
		Dynamic Pattern 30	168	169				
		Dynamic Pattern 31	170	171				
		Dynamic Pattern 32	172	173				
		Dynamic Pattern 33	174	175				
		Dynamic Pattern 34	176	177				
		Dynamic Pattern 35	178	179				
		Dynamic Pattern 36	180	181				
		Dynamic Pattern 37	182	183				
		Dynamic Pattern 38	184	185				
		Dynamic Pattern 39	186	187				
		Dynamic Pattern 40	188	189				
		Dynamic Pattern 41	190	191				
		Dynamic Pattern 42	192	193				
		Dynamic Pattern 43	194	195				
		Dynamic Pattern 44	196	197				
		Dynamic Pattern 45	198	199				
		Dynamic Pattern 46	200	201				
		Dynamic Pattern 47	202	203				
		Dynamic Pattern 48	204	205				
		Dynamic Pattern 49	206	207				
		Dynamic Pattern 50	208	209				
		No function	210	249				
		Random Pixel	250	255				
11	Pattern step / speed	Stop (first pattern step)	0	1			0	Snap
		CW fast → slow (run pattern step 1 → n)	2	63				Fade
		Stop at current position	64	66				Snap
		CCW slow → fast (run pattern step n → 1)	67	127				Fade
		Pattern Step 01	128	129				Snap
		Pattern Step 02	130	131				
		Pattern Step 03	132	133				
		Pattern Step 04	134	135				
		Pattern Step 05	136	137				
		Pattern Step 06	138	139				
		Pattern Step 07	140	141				
		Pattern Step 08	142	143				
		Pattern Step 09	144	145				
		Pattern Step 10	146	147				

11 ctd.	Pattern step / speed (continued)	Pattern Step 11	148	149			0	Snap
		Pattern Step 12	150	151				
		Pattern Step 13	152	153				
		Pattern Step 14	154	155				
		Pattern Step 15	156	157				
		Pattern Step 16	158	159				
		Pattern Step 17	160	161				
		Pattern Step 18	162	163				
		Pattern Step 19	164	165				
		Pattern Step 20	166	167				
		Pattern Step 21	168	169				
		Pattern Step 22	170	171				
		Pattern Step 23	172	173				
		Pattern Step 24	174	175				
		Pattern Step 25	176	177				
		Pattern Step 26	178	179				
		Pattern Step 27	180	181				
		Pattern Step 28	182	183				
		Pattern Step 29	184	185				
		Pattern Step 30	186	187				
		Pattern Step 31	188	189				
		Pattern Step 32	190	191				
		Pattern Step 33	192	193				
		Pattern Step 34	194	195				
		Pattern Step 35	196	197				
		Pattern Step 36	198	199				
		Pattern Step 37	200	201				
		Pattern Step 41	208	209				
		Pattern Step 42	210	211				
		Pattern Step 43	212	213				
		Pattern Step 41	208	209				
		Pattern Step 42	210	211				
		Pattern Step 43	212	213				
		Pattern Step 44	214	215				
		Pattern Step 45	216	217				
		Pattern Step 46	218	219				
		Pattern Step 47	220	221				
		Pattern Step 48	222	223				
		Pattern Step 49	224	225				
		Pattern Step 50	226	227				
		Pattern Step 51	228	229				
		Pattern Step 52	230	231				
		Pattern Step 53	232	233				
		Pattern Step 54	234	235				
		Pattern Step 55	236	237				
		Pattern Step 56	238	239				
		Pattern Step 57	240	241				
		Pattern Step 58	242	243				
		Pattern Step 59	244	245				
		Pattern Step 60	246	247				
		Next Step A	248	249				
		Next Step B	250	251				
		Previous Step A	252	253				
		Previous Step B	254	255				

12	Pattern step crossfading (from one step to next)	Off (no crossfading, Snap)	0	9			0	Snap
		Crossfading: Snap → min. Xfade → max. Xfade (fade in and fade out times are identical)	10	127				Fade
		Off (no crossfading, snap)	128	137				Snap
		Crossfading with tail: Snap → min. Xfade with tail → max. Xfade with tail (fade-in time is shorter than fade-out time, this creates a shadow effect)	138	255				Fade
13	Pattern transition (from one pattern to next)	Off (snap from one pattern to next)	0	9			0	Snap
		Normal transition (snap → fade 5s)	10	63				Fade
		Off (snap from one pattern to next)	64	73				Snap
		FOB (Fade Over Blackout) transition (snap → fade 5s)	74	127				Fade
		Off (snap from one pattern to next)	128	137				Snap
		FOF (Fade Over Full) transition (snap → fade 5s)	138	190				Fade
		No function	191	201				
		No transition time	202	255				Snap

Beams

14	Intensity Beam 1 (Center Beam)	Intensity 0 → 100%	0	255			0	Fade
15 16	Color Wheel Beam 1 (Center Beam) 16-bit	CTO open (Selected white point)	0	4	0	1279	0	Snap
		CTO 0 → 100%	5	88	1280	22783		
		Open	89		22784	23039		
		Split color: Open – color 1	90		23040	23295		
		Full color 1: Congo Blue (Lee 181)	91		23296	23551		
		Split color: color 1 – color 2	92		23552	23807		
		Full color 2: High CRI	93		23808	24063		
		Split color: color 2 – color 3	94		24064	24319		
		Full color 3: Primary Red	95		24320	24575		
		Split color: color 3 – color 4	96		24576	24831		
		Full color 4: Surprise Pink	97		24832	25087		
		Split color: color 4 – color 5	98		25088	25343		
		Full color 5: Deep Golden Amber	99		25344	25599		
		Split color: color 5 – color 6	100		25600	25855		
		Full color 6: Lagoon Blue	101		25856	26111		
		Split color: color 6 – color 7	102		26112	26367		
		Full color 7: Dark Steel Blue	103		26368	26623		
		Split color: color 7 – color 8	104		26624	26879		
		Full color 8: Mauve	105		26880	27135		
		Split color: color 2 – color 3	106		27136	27391		
		Full color 9: Laser Green	107		27392	27647		
		Split color: color 9 – color 10	108		27648	27903		
		Full color 10: Purple Red	109		27904	28159		
		Split color: color 10 – color 11	110		28160	28415		
		Full color 11: Dark Orange	111		28416	28671		
		Split color: color 11 – color 12	112		28672	28927		
		Full color 12: Primary Green	113		28928	29183		
		Split color: color 12 – color 13	114		27136	27391		

15 16 ctd.	Color Wheel Beam 1 (Center Beam) 16-bit (continued)	Full color 13: Deep Blue	115		29440	29695	0	Snap
		Split color: color 13 – color14	116		29696	29951		
		Full color 14: Yellow	117		29952	30207		
		Split color: color 14 – color 15	118		30208	30463		
		Full color 15: Light Blue	119		30464	30719		
		Split color: color 15 – color 16	120		30720	30975		
		Full color 16: Magical Magenta	121		30976	31231		
		Split color: color 16 – color 17	122		31232	31487		
		Full color 17: Orange	123		31488	31743		
		Split color: color 17 – color 18	124		31744	31999		
		Full color 18: Full CTB	125		32000	32255		
		Split color: color 18 – color 19*	126		32256	32511		
		Full color 19*: CTO	127		32512	32767		
		Color wheel indexing Open	128	191	32768	49151		
		...						
		Color 19						
		Open	192		49152	49407		
		Continuous color wheel fade: Open - Color 1 - Color 2 ... Color 18 - Color 19 - Color 18 ... Color 1 - Open - Color 1 ...	193	248	49408	63743		
		Stop at current position	249		63744	63999		
		Next Step A (snap to next full color, or if in CTO range snap to full CTO)	250		64000	64255		
		Next Step B (snap to next full color, or if in CTO range snap to full CTO)	251		64256	64511		
		Open	252		64512	64767		
		Previous Step A (snap to previous full color, or if in CTO range snap to lowest CTO)	253		64768	65023		
		Previous Step B (snap to previous full color, or if in CTO range snap to lowest CTO)	254		65024	65279		
		Blackout	255		65280	65535		
17	Intensity Beam 2	Same as Intensity Beam 1 on channel 14						
18 19	Color Wheel Beam 2	Same as Color Wheel Beam 1 on channels 15 + 16						
20	Intensity Beam 3	Same as Intensity Beam 1 on channel 14						
21 22	Color Wheel Beam 3	Same as Color Wheel Beam 1 on channels 15 + 16						
23	Intensity Beam 4	Same as Intensity Beam 1 on channel 14						
24 25	Color Wheel Beam 4	Same as Color Wheel Beam 1 on channels 15 + 16						
26	Intensity Beam 5	Same as Intensity Beam 1 on channel 14						
27 28	Color Wheel Beam 5	Same as Color Wheel Beam 1 on channels 15 + 16						
29	Intensity Beam 6	Same as Intensity Beam 1 on channel 14						
30 31	Color Wheel Beam 6	Same as Color Wheel Beam 1 on channels 15 + 16						
32	Intensity Beam 7	Same as Intensity Beam 1 on channel 14						
33 34	Color Wheel Beam 7	Same as Color Wheel Beam 1 on channels 15 + 16						

35	Intensity Beam 8	Same as Intensity Beam 1 on channel 14
36	Color Wheel Beam 8	Same as Color Wheel Beam 1 on channels 15 + 16
37		
38	Intensity Beam 9	Same as Intensity Beam 1 on channel 14
39	Color Wheel Beam 9	Same as Color Wheel Beam 1 on channels 15 + 16
40		
41	Intensity Beam 10	Same as Intensity Beam 1 on channel 14
42	Color Wheel Beam 10	Same as Color Wheel Beam 1 on channels 15 + 16
43		
44	Intensity Beam 11	Same as Intensity Beam 1 on channel 14
45	Color Wheel Beam 11	Same as Color Wheel Beam 1 on channels 15 + 16
46		
47	Intensity Beam 12	Same as Intensity Beam 1 on channel 14
48	Color Wheel Beam 12	Same as Color Wheel Beam 1 on channels 15 + 16
49		
50	Intensity Beam 13	Same as Intensity Beam 1 on channel 14
51	Color Wheel Beam 13	Same as Color Wheel Beam 1 on channels 15 + 16
52		
53	Intensity Beam 14	Same as Intensity Beam 1 on channel 14
54	Color Wheel Beam 14	Same as Color Wheel Beam 1 on channels 15 + 16
55		
56	Intensity Beam 15	Same as Intensity Beam 1 on channel 14
57	Color Wheel Beam 15	Same as Color Wheel Beam 1 on channels 15 + 16
58		
59	Intensity Beam 16	Same as Intensity Beam 1 on channel 14
60	Color Wheel Beam 16	Same as Color Wheel Beam 1 on channels 15 + 16
61		
62	Intensity Beam 17	Same as Intensity Beam 1 on channel 14
63	Color Wheel Beam 17	Same as Color Wheel Beam 1 on channels 15 + 16
64		
65	Intensity Beam 18	Same as Intensity Beam 1 on channel 14
66	Color Wheel Beam 18	Same as Color Wheel Beam 1 on channels 15 + 16
67		
68	Intensity Beam 19	Same as Intensity Beam 1 on channel 14
69	Color Wheel Beam 19	Same as Color Wheel Beam 1 on channels 15 + 16
70		

Control / Settings channel

Available on Channel 5 in every DMX mode.

Channel	Command	DMX range		Default DMX	Fade
5	Idle	0	9	0	Snap
	Toggle iQ.Service connect On (3 sec.) Activates iQ.Mesh module for 5 minutes. Holding value keeps iQ.Mesh module active.	10	11		
	No function	14	19		
	Dimming curve: Soft (square) (3 sec.)	20	21		
	Dimming curve: Linear (3 sec.)	22	23		
	Dimming curve: S-curve (3 sec.)	24	25		
	No function	26	29		
	Display mode: Off (3 sec.)	30	31		
	Display mode: Auto (3 sec.)	32	33		
	Display mode: On (3 sec.)	34	35		
	No function	36	37		
	Display orientation: Auto (3 sec.)	38	39		
	Display orientation: Normal (3 sec.)	40	41		
	Display orientation: Inverted (3 sec.)	42	43		
	No signal: Sky FX (3 sec. – in preparation)	44	45		
	No signal: Blackout (3 sec.)	46	47		
	No signal: Hold (3 sec.)	48	49		
	No signal: Play captured scene (3 sec.)	50	51		
	No signal: Capture current scene (3 sec.)	52	53		
	No signal: Sun protection (3 sec. – in preparation)	54	55		
	No function	56	69		
	Pixel mirror: Off (3 sec.)	70	71		
	Pixel mirror: x-mirror (3 sec.)	72	73		
	Pixel mirror: y-mirror (3 sec.)	74	75		
	Pixel mirror: x-y-mirror (3 sec.)	76	77		
	No function	78	91		
	Position feedback: Off (3 sec.)	92	93		
	Position feedback: On (3 sec.)	94	95		
	No function	96	97		
	Tilt inversion: Off (3 sec.)	98	99		
	Tilt inversion: On (3 sec.)	100	101		
	Pan inversion: Off (3 sec.)	102	103		
	Pan inversion: On (3 sec.)	104	105		
	Tilt disable: Off (3 sec.)	106	107		
	No function	108	109		
	Tilt motor current disabled (3 sec.)	110	111		
	Pan disable: Off (3 sec.)	112	113		
	No function	114	115		
	Pan motor current disabled (3 sec.)	116	117		
	No function	118	119		
	Sun protection: Auto (3 sec. – in preparation)	120	121		
	Sun protection: Sensor (3 sec. – in preparation)	122	123		
	Sun protection: Permanent (3 sec. – in preparation)	124	125		
	Sun protection: Off (3 sec. – in preparation)	126	127		
	No function	128	137		

5 ctd.	Control / Settings (continued)	Shortcuts: Enabled (3 sec.)	138	139	0	Snap
		Shortcuts: Disabled (3 sec.)	140	141		
		No function	142	189		
		Hibernation Off (3 sec., fixture will reset)	190	191		
		Hibernation On (3 sec.)	192	193		
		No function	194	195		
		Pan range: Normal (3 sec.)	196	197		
		Pan range : Extended (3 sec.)	198	199		
		No function	200	209		
		Smart error: On (3 sec. – in preparation)	210	211		
		Smart error: Off (3 sec. – in preparation)	212	213		
		No function	214	215		
		PWM Optimal (3 sec.)	216	217		
		PWM High 1 (3 sec.)	218	219		
		PWM High 2 (3 sec.)	220	221		
		PWM Max. (3 sec.)	222	223		
		No function	224	229		
		Save as User Settings Preset 1 (3 sec.)	230	231		
		Save as User Settings Preset 2 (3 sec.)	232	233		
		Save as User Settings Preset 3 (3 sec.)	234	235		
		No function	236	237		
		Load User Settings Preset 1 (3 sec.)	238	239		
		Load User Settings Preset 2 (3 sec.)	240	241		
		Load User Settings Preset 3 (3 sec.)	242	243		
		Load Settings Default	244	245		
		No function	246	249		
		Reset pan and tilt (3 sec.)	250	251		
		Reset head (3 sec.)	252	253		
		Reset entire fixture (3 sec.)	254	255		

To reduce the risk of accidentally changing settings, the commands on the Control / Settings channel must be held for the number of seconds indicated in the table above before they are executed.

Color wheel specifications

The following table gives the color gamut co-ordinates and Lee equivalents of the color presets available on the color wheel effect.

Position	Color	x	y	Lee equivalent	Color temp.
CTO range	CTO 100%	0.3946	0.4091		~3800 K
	CTO 75%	0.3807	0.396		~4100 K
	CTO 50%	0.3432	0.3636		~5100 K
	CTO 25%	0.3124	0.3346		~6500 K
	CTO 0%	0.3046	0.3274		~7000 K
Color Wheel Position 00	Open	0.3018	0.3218		~7200 K
Color Wheel Position 01	Congo Blue	0.172	0.0174	181 - Congo Blue	
Color Wheel Position 02	High CRI	0.3032	0.3111		
Color Wheel Position 03	Primary Red	0.6778	0.2852	106 - Primary Red	
Color Wheel Position 04	Surprise Pink	0.2333	0.1877	194 - Surprise Pink	
Color Wheel Position 05	Deep Golden Amber	0.6189	0.3742	135 - Deep Golden Amber	
Color Wheel Position 06	Lagoon Blue	0.2037	0.2992	172 - Lagoon Blue	
Color Wheel Position 07	Dark Steel Blue	0.2287	0.2415	174 - Dark Steel Blue	
Color Wheel Position 08	Mauve	0.2131	0.0469	126 - Mauve	
Color Wheel Position 09	Laser Green	0.3035	0.6631	122 - Fern Green	
Color Wheel Position 10	Purple Red	0.347	0.2504		
Color Wheel Position 11	Dark Orange	0.5386	0.4542	768 - Egg Yolk Yellow	
Color Wheel Position 12	Primary Green	0.1558	0.7545	139 - Primary Green	
Color Wheel Position 13	Deep Blue	0.1607	0.0258	120 - Deep Blue	
Color Wheel Position 14	Yellow	0.4614	0.5256	101 - Yellow	
Color Wheel Position 15	Light Blue	0.1537	0.149	118 - Light Blue	
Color Wheel Position 16	Magical Magenta	0.2821	0.0921	795 - Magical Magenta	
Color Wheel Position 17	Orange	0.5602	0.4323	105 - Orange	
Color Wheel Position 18	Full CTB	0.2837	0.3015	201 - Full CTB	
Color Wheel Position 19*	CTO 100%	0.3946	0.4091		

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