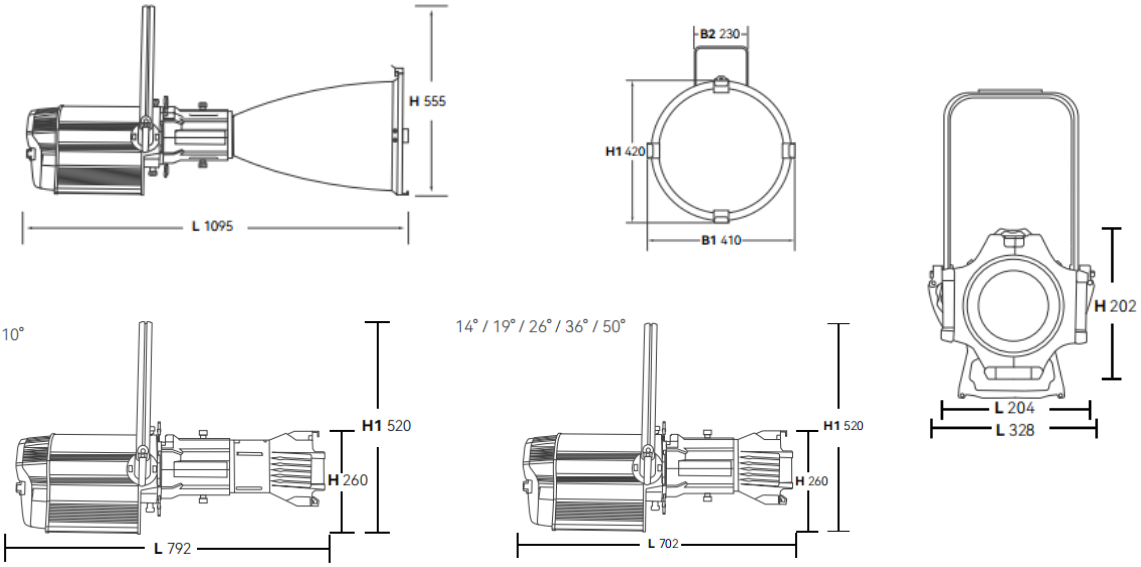
Full-Color LED Fixed-Angle Profile Spotlight



Standard Version: 5° 10° 14° / 19° / 26° / 36° / 50°

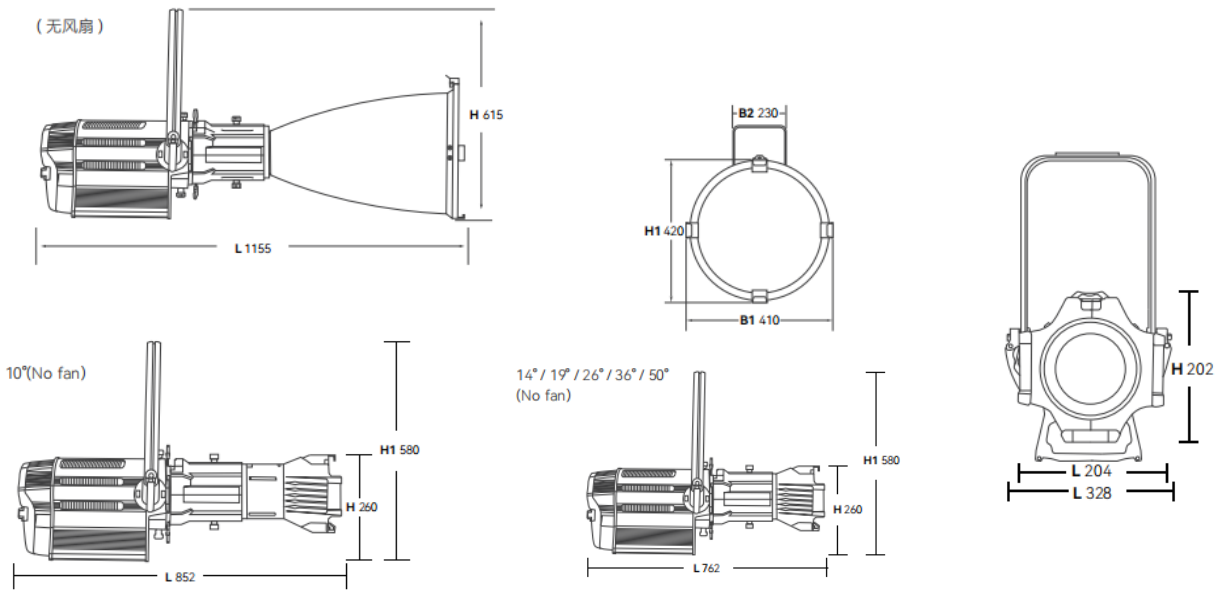
DD-P5/5°	DD-P10/10°	DD-P14/14°	DD-P19/19°	DD-P26/26°	DD-P36/36°	DD-P50/50°





Fanless Version: 5° 10° 14° / 19° / 26° / 36° / 50°

DD-P5N/5°	DD-P10N/10°	DD-P14N/14°	DD-P19N/19°	DD-P26N/26°	DD-P36N/36°	DD-P50N/50°



Full-Color LED Fixed-Angle Profile Spotlight

Features & Specifications

Light source

1. LED source: 24 × multicolor 5050 LED packages, each with a nominal package rating of up to 24 W. Actual fixture power is electronically limited by the multi-channel drive system.
2. LED lifetime: 50,000–100,000 hours.

Products power

1. Input voltage: AC 100–240 V, 50/60 Hz
2. Maximum power consumption: 220W at 2700–10,000K white output; Red only: 55W; Green only: 110W; Blue only: 110W

Function specific and operation

1. Display: OLED display with Chinese and English menu interfaces; display size: 30 × 15 mm.
2. Control: DMX512 control and local control via buttons and rotary encoder for dimming, CCT and DUV adjustment.
3. Control protocol: DMX512 with RDM support.
4. DMX modes: 4-channel, 12-channel and 13-channel modes.
5. Dimming: 16-bit or higher smooth and linear flicker-free dimming with no perceptible delay; PWM frequency ≥28 kHz.
6. Dimming modes: 7 selectable dimming modes.
7. Focus: Manual adjustment.
8. Cooling & Noise: Available in fan-cooled and fanless versions. The fan-cooled version uses intelligent variable-speed cooling, with fan speed automatically adjusted according to the fixture's output level. The fan stops when the dimming level is below 20%. At full output, fan noise measured at 1 m does not exceed 29 dB. The fanless version produces no fan noise.
9. Operating ambient temperature: −25 °C to +40 °C
10. IP rating: IP20

Color Performance & Optical Specifications

1. CCT: Adjustable from 2700 K to 10,000 K via DMX or the local rotary control, with smooth, linear transitions. DMX channel values correspond to specific CCT settings. During local adjustment, the selected CCT is shown on the display in 100 K increments. Brightness variation during CCT adjustment is ≤12%. Average CCT deviation between the beam center and the outermost edge of the projected beam is ≤3%. CCT adjustment remains available at dimming levels down to 0.5%.
2. CRI (Ra): average ≥95
3. TLCI: average ≥95
4. TM-30(Rf): average ≥92, TM30(Rg): average ≥103
5. DUV(GM) adjustment: Supports positive and negative adjustment over an approximate range of −0.020 to +0.018. During DUV adjustment, average CCT deviation is ≤6%, average CRI deviation is ≤4%, and average TLCI deviation is ≤7%.
6. Color control: 360° hue adjustment with independent saturation control. Includes 72 built-in preset colors and supports individual color-channel adjustment for custom color mixing. Multiple fixtures provide visually consistent color output with no obvious color difference.
7. Luminous flux:2700 K: 6300 lm,3200 K: 6400 lm,5600 K: 6700 lm,10,000 K: 6100 lm, Red: 460 lm, Green: 3100 lm, Blue: 700 lm.
8. Beam angles: 5°, 10°, 14°, 19°, 26°, 36° and 50°; custom beam angles available upon request.
9. Optical system: The light passes through a multi-element optical system incorporating seven optical elements, producing a clean and highly uniform projected beam with minimal yellow or blue edging, no visible dark patterns, minimal chromatic dispersion, excellent color mixing and no ghosting or double-image effect.

Construction & Standard Accessories

1. Housing material: Aluminum alloy
2. Surface finish: Anodized or powder-coated finish; custom colors are available according to customer requirements.
3. Standard accessories: Optical diffusion plate, power input/output connectors and signal input/output connectors. Additional accessories are available upon request and can be customized to meet specific customer requirements.
4. Iris & gobo holder: Optional iris and gobo holder available upon request.

Fan-Cooled vs. Fanless Versions: The fan-cooled and fanless versions share the same optical, color and control specifications. The fanless version is approximately 6 cm longer and 1.1 kg heavier. Pricing varies by version.

Dimensions & Weight

Model / Beam angles	Inner size （cm）	Package Dimensions (cm)	NW/kg	GW/kg
5°(Fan-Cooled)	114X41X43	130X50X50	11.5	15.8
10°(Fan-Cooled)	83X29X29	94X31.5X33	14	16
14°(Fan-Cooled)	74X29X29	85X31.5X33	13.8	15.6
19°(Fan-Cooled)	74X29X29	85X31.5X33	13.8	15.6
26°(Fan-Cooled)	74X29X29	85X31.5X33	13.2	15
36°(Fan-Cooled)	74X29X29	85X31.5X33	13.6	15.4
50°(Fan-Cooled)	74X29X29	85X31.5X33	14.2	16
5°(Fanless)	120X41X43	130X50X50	12.6	17
10°(Fanless)	89X29X29	99X31.5X33	15.1	17.1
14°(Fanless)	80X29X29	94X31.5X33	14.9	16.7
19°(Fanless)	80X29X29	94X31.5X33	14.9	16.7
26°(Fanless)	80X29X29	94X31.5X33	14.3	16.1
36°(Fanless)	80X29X29	94X31.5X33	14.7	16.5
50°(Fanless)	80X29X29	94X31.5X33	15.3	17.2

Beam Diameter & Illuminance at Various Throw Distances

5° Full-Color LED Fixed-Angle Profile Spotlight

Throw Distance (m)	5	10	15	20	25	30	35	40	42	44	46	48	50
5° Beam Diameter (m)	0.44	0.87	1.31	1.75	2.18	2.62	3.06	3.49	3.67	3.84	4.02	4.19	4.37
2700 K Center (lx)	29745	7437	3305	1860	1190	826	607	464	422	384	351	323	297
3200 K Center (lx)	30893	7723	3433	1930	1236	858	630	483	438	399	365	335	308
5600 K Center (lx)	32065	8015	3563	2004	1283	890	655	501	454	414	379	348	321
Red Center (lx)	2628	657	292	164	105	73	54	41	37	34	31	29	27
Green Center (lx)	15983	3995	1776	999	639	444	326	249	227	207	199	173	159
Blue Center (lx)	3403	851	378	213	136	94	70	54	48	44	41	37	34

10° Full-Color LED Fixed-Angle Profile Spotlight

Throw Distance (m)	3	6	8	10	12	14	16	18	20	22	24	26	28	30
10° Beam Diameter (m)	0.53	1.05	1.4	1.75	2.1	2.45	2.8	3.15	3.5	3.85	4.2	4.55	4.9	5.25
2700 K Center (lx)	12910	3227	1815	1162	807	593	454	359	290	240	202	172	148	129
3200 K Center (lx)	13359	3340	1879	1202	835	613	470	371	301	248	208	178	153	134
5600 K Center (lx)	13789	3447	1939	1241	862	633	485	383	310	256	215	184	158	138
Red Center (lx)	1162	290	163	105	73	53	41	32	26	22	18	15	13	12
Green Center (lx)	6703	1676	943	603	419	308	236	186	151	125	105	89	77	67
Blue Center (lx)	1381	345	194	124	86	63	49	38	31	26	22	18	16	14

14° Full-Color LED Fixed-Angle Profile Spotlight

Throw Distance (m)	3	6	8	10	12	14	16	18	20	22	24	26	28	30
14° Beam Diameter (m)	0.74	1.47	1.96	2.46	2.95	3.44	3.93	4.42	4.91	5.4	5.89	6.38	6.88	7.3
2700 K Center (lx)	9139	2285	1285	823	571	420	321	254	206	170	143	122	105	91
3200 K Center (lx)	9480	2370	1333	853	593	435	333	263	213	176	148	126	109	95
5600 K Center (lx)	9736	2434	1369	876	609	447	342	270	219	181	152	130	112	97
Red Center (lx)	865	216	122	78	54	40	30	24	19	16	14	12	10	9
Green Center (lx)	4761	1190	670	429	298	219	167	132	107	89	74	63	55	48
Blue Center (lx)	1060	265	149	95	66	49	37	29	24	20	17	14	12	11

19° Full-Color LED Fixed-Angle Profile Spotlight

Throw Distance (m)	3	4	5	6	7	8	9	10	12	14	16	18	20
19° Beam Diameter (m)	1	1.34	1.67	2	2.34	2.68	3.01	3.35	4.02	4.69	5.36	6.02	6.69
2700 K Center (lx)	4679	2632	1688	1170	859	658	520	421	292	215	165	130	105
3200 K Center (lx)	4828	2716	1738	1207	887	679	536	434	302	222	170	134	109
5600 K Center (lx)	5095	2866	1834	1274	936	717	566	459	318	234	179	142	115
Red Center (lx)	451	254	162	113	83	63	50	41	28	21	16	13	10
Green Center (lx)	2499	1405	899	625	459	351	278	225	156	115	88	69	56
Blue Center (lx)	574	323	207	144	105	81	64	52	36	26	20	16	13

26° Full-Color LED Fixed-Angle Profile Spotlight

Throw Distance (m)	3	4	5	6	7	8	9	10	11	12	13	14	15
26° Beam Diameter (m)	1.38	1.85	2.31	2.77	3.23	3.69	4.16	4.62	5.08	5.54	6	6.46	6.92
2700 K Center (lx)	2618	1473	943	658	481	368	291	236	195	164	139	120	105
3200 K Center (lx)	2783	1565	1002	696	511	391	309	250	206	174	148	128	111
5600 K Center (lx)	2912	1638	1048	728	535	409	324	262	217	182	155	134	116
Red Center (lx)	239	134	86	60	44	34	27	22	18	15	13	11	10
Green Center (lx)	1432	806	516	358	263	201	159	129	107	90	76	66	57
Blue Center (lx)	359	202	129	90	66	51	40	32	27	22	19	17	14

36° Full-Color LED Fixed-Angle Profile Spotlight

Throw Distance (m)	3	4	5	6	7	8	9	10	11	12
36° Beam Diameter (m)	1.95	2.6	3.25	3.9	4.55	5.2	5.85	6.5	7.15	7.8
2700 K Center (lx)	1703	958	613	426	313	240	189	153	126	106
3200 K Center (lx)	1754	987	631	438	322	247	195	158	130	110
5600 K Center (lx)	1799	1012	648	450	331	253	200	162	134	112
Red Center (lx)	144	81	52	36	27	20	16	13	11	9
Green Center (lx)	914	514	329	229	168	129	102	82	68	57
Blue Center (lx)	195	110	70	49	36	27	22	18	14	12

50° Full-Color LED Fixed-Angle Profile Spotlight

Throw Distance (m)	3	4	5	6	7	8	9	10	11	12
50° Beam Diameter (m)	2.8	3.73	4.66	5.6	6.53	7.46	8.39	9.32	10.25	11.2
2700 K Center (lx)	766	431	276	192	141	108	85	69	57	48
3200 K Center (lx)	804	452	289	201	148	113	89	72	60	50
5600 K Center (lx)	862	485	310	216	158	121	96	78	64	54
Red Center (lx)	68	38	24	17	12	10	8	6	5	4
Green Center (lx)	438	246	158	109	80	62	49	39	33	27
Blue Center (lx)	78	44	28	20	14	11	9	7	6	5