

ECO Lines F150 High Power LED Line Projector

Projects a thick, permanent floor line that eliminates the need for maintenance required by floor tape and paint lines.

- 3rd Generation: Crisper, longer lines at increased brightness
- Designed for Rugged Environments and long service life
- Focusable for optimal line appearance and brightness
- Maintenance free, no fans or motors
- Adjustable line length option



SPECIFICATIONS

Item Codes:	EL-F150Y (yellow), EL-F150A (amber), EL-F150G (green), EL-F150B (blue), EL-F150R (red), EL-F150W (white)
Power Supply:	100-240/277VAC, 50/60Hz (Voltage Range: 90-305VAC, 48-63Hz; 127-431VDC)
Power Draw:	140W, 1.6A/115V, 0.7A/277V
Driver:	MOSO X6-150M041 (integrated)
Inrush Current:	COLD START 75A (t width=570µs at 50% I peak) at 230VAC per NEMA 410
Breakers:	We recommend lighting specific breakers at 70% of specified load
Power Cord:	Length: 4.7' (1.4m), Plug: Standard plug: Nema 5-15 (other plug options available)
Control Input Signals:	On/Off or Dimming: 1-10V, 10-100KOhm, PWM, Dry Switch

Environmental Rating:	Driver: IP67, Projector: IP65
Safety Standards:	EC: EN IEC 60598-1:2021, N IEC 60598-2-1:2021, Driver: UL E334687
Temperature Range:	-22°F to 113°F (-30°C to 45°C)

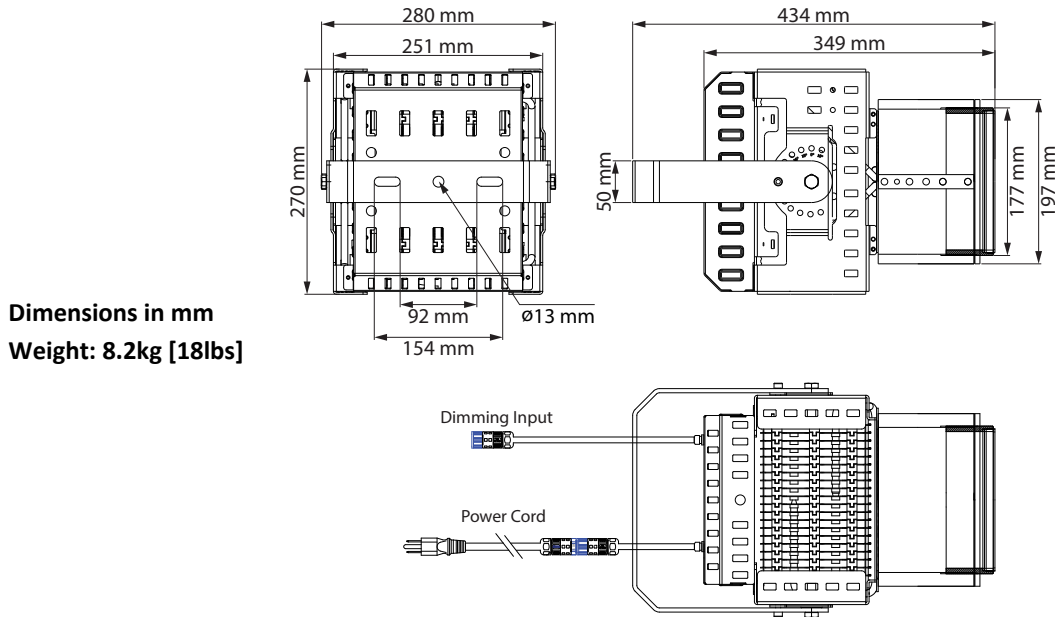
LED Life:	35,000h until 30% brightness loss is reached (L70*) (*L70= the time to 30% brightness loss)
Driver Life:	MTBF: 200,000h, lifetime: 100,000h at tc=75°C and 80% load (driver and LED are field serviceable)

Projection Colors:	Yellow, Green, Red, Blue, Amber, White (colors are changeable by swapping the LED)			
Line Width:	3 to 6" (75 to 150mm)			
Projection Lenses:	25° (1:0.48 throw ratio*)	53° (1:0.93)	73° (1:1.4)	90° (1:1.86) * Throw Distance: Line Length
Focus:	Field adjustable focus, pre-set for 21-33' (6.4-9.5m) projection distance.			

Typ. Projection Range / Size	Bright Environment	Average Env.	Dim Env.
Typ. Usable Line Length:	36-45' (11-14m)	48-56' (15-17m)	80' (24m)
At typ. Distance:	20/27/41' (6/8/13m)	26/34/52' (7.5/10/15m)	43/65/86' (12/16/24m)
Line Length Adjustment:	Yes, with optional blinders (the min. length is approx. 30% of the full line length)		

Product Warranty:	Two years from date of purchase
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DIMENSIONS AND WEIGHT



PHOTOMETRICS (see our website for metric version and details)

ECO Lines™ Photometrics (Imperial values)					PROJECTION DISTANCE IN FEET (ft)																								
Model	Lens	Beam Mult.	Effective lm	Efficiency lm/W	CD	Value	9	12	15	18	24	30	36	42	48	54	60	65	70	75	80	85	90	95	100				
ECO Lines F150 Green	25°	0.48	46442	581	515,356	Length (ft)	4.3	5.8	7.2	8.6	11.5	14.4	17.3	20	23	26	29	31	34	36	38	41	43	46	48				
						Brightness (fc)	6362	3579	2290	1591	895	573	398	292	224	177	143	122	105	92	81	71	64	57	52				
	53°	0.90	20235	253	198,900	Length (ft)	8.1	10.8	13.5	16.2	21.6	27.0	32.4	38	43	49	54	59	63	68	72	77	81	86	90				
						Brightness (fc)	2456	1381	884	614	345	221	153	113	86	68	55	47	41	35	31	28	25	22	20				
	73°	1.40	33011	413	134,100	Length (ft)	12.6	16.8	21.0	25.2	33.6	42.0	50.4	58.8	67.2	75.6	84.0	91.0	98.0	105.0	112.0	119.0	126.0	133.0	140.0				
						Brightness (fc)	1656	931	596	414	233	149	103	76	58	46	37	32	27	24	21	19	17	15	13				
90°	1.90	60801	760	134,100	Length (ft)	17.1	22.8	28.5	34.2	46	57	68	80	91	103	114	124	133	143	152	162	171	181	190					
					Brightness (fc)	1656	931	596	414	233	149	103	76	58	46	37	32	27	24	21	19	17	15	13					
ECO Lines F150 Yellow	25°	0.48	40138	502	445,398	Length (ft)	4.3	5.8	7.2	8.6	11.5	14.4	17.3	20	23	26	29	31	34	36	38	41	43	46	48				
						Brightness (fc)	5499	3093	1980	1375	773	495	344	252	193	153	124	105	91	79	70	62	55	49	45				
	53°	0.90	17488	117	171,900	Length (ft)	8.1	10.8	13.5	16.2	21.6	27.0	32.4	38	43	49	54	59	63	68	72	77	81	86	90				
						Brightness (fc)	2122	1194	764	531	298	191	133	97	75	59	48	41	35	31	27	24	21	19	17				
	73°	1.40	33233	222	135,000	Length (ft)	12.6	16.8	21.0	25.2	33.6	42.0	50.4	58.8	67.2	75.6	84.0	91.0	98.0	105.0	112.0	119.0	126.0	133.0	140.0				
						Brightness (fc)	1667	938	600	417	234	150	104	77	59	46	38	32	28	24	21	19	17	15	14	12	11		
90°	1.90	52640	351	116,100	Length (ft)	17.1	22.8	28.5	34.2	46	57	68	80	91	103	114	124	133	143	152	162	171	181	190					
					Brightness (fc)	1433	806	516	358	202	129	90	66	50	40	32	27	24	21	18	16	14	13	12					
ECO Lines F150 Amber	25°	0.48	25638	320	284,495	Length (ft)	4.3	5.8	7.2	8.6	11.5	14.4	17.3	20	23	26	29	31	34	36	38	41	43	46	48				
						Brightness (fc)	3512	1976	1264	878	494	316	220	161	123	98	79	67	58	51	44	39	35	32	28				
	53°	0.90	11170	74	109,800	Length (ft)	8.1	10.8	13.5	16.2	21.6	27.0	32.4	38	43	49	54	59	63	68	72	77	81	86	90				
						Brightness (fc)	1356	763	488	339	191	122	85	62	48	38	31	26	22	20	17	15	14	12	11				
	73°	1.40	19940	133	81,000	Length (ft)	12.6	16.8	21.0	25.2	33.6	42.0	50.4	58.8	67.2	75.6	84.0	91.0	98.0	105.0	112.0	119.0	126.0	133.0	140.0				
						Brightness (fc)	1000	563	360	250	141	90	63	46	35	28	23	19	17	14	13	11	10	9	8				
90°	1.90	31013	207	68,400	Length (ft)	17.1	22.8	28.5	34.2	46	57	68	80	91	103	114	124	133	143	152	162	171	181	190					
					Brightness (fc)	844	475	304	211	119	76	53	39	30	23	19	16	14	12	11	9	8	7	6					
ECO Lines F150 Red	25°	0.48	25638	320	284,495	Length (ft)	4.3	5.8	7.2	8.6	11.5	14.4	17.3	20	23	26	29	31	34	36	38	41	43	46	48				
						Brightness (fc)	3512	1976	1264	878	494	316	220	161	123	98	79	67	58	51	44	39	35	32	28				
	53°	0.90	11170	140	109,800	Length (ft)	8.1	10.8	13.5	16.2	21.6	27.0	32.4	38	43	49	54	59	63	68	72	77	81	86	90				
						Brightness (fc)	1356	763	488	339	191	122	85	62	48	38	31	26	22	20	17	15	14	12	11				
	73°	1.40	21269	266	86,400	Length (ft)	12.6	16.8	21.0	25.2	33.6	42.0	50.4	58.8	67.2	75.6	84.0	91.0	98.0	105.0	112.0	119.0	126.0	133.0	140.0				
						Brightness (fc)	1067	600	384	267	150	96	67	49	38	30	24	20	18	15	14	12	11	10	9				
90°	1.90	33053	413	72,900	Length (ft)	17.1	22.8	28.5	34.2	46	57	68	80	91	103	114	124	133	143	152	162	171	181	190					
					Brightness (fc)	900	506	324	225	127	81	56	41	32	25	20	17	15	13	11	10	9	8	7					
ECO Lines F150 Blue	25°	0.48	65145	814	722,898	Length (ft)	4.3	5.8	7.2	8.6	11.5	14.4	17.3	20	23	26	29	31	34	36	38	41	43	46	48				
						Brightness (fc)	8925	5020	3213	2231	1255	803	558	410	314	248	201	171	148	129	113	100	89	80	72				
	53°	0.90	28383	189	279,000	Length (ft)	8.1	10.8	13.5	16.2	21.6	27.0	32.4	38	43	49	54	59	63	68	72	77	81	86	90				
						Brightness (fc)	3444	1938	1240	861	484	310	215	158	121	96	78	66	57	50	44	39	34	31	28				
	73°	1.40	57603	384	234,000	Length (ft)	12.6	16.8	21.0	25.2	33.6	42.0	50.4	58.8	67.2	75.6	84.0	91.0	98.0	105.0	112.0	119.0	126.0	133.0	140.0				
						Brightness (fc)	2889	1625	1040	722	406	260	181	133	102	80	65	55	48	42	37	32	29	26	23				
90°	1.90	81612	544	180,000	Length (ft)	17.1	22.8	28.5	34.2	46	57	68	80	91	103	114	124	133	143	152	162	171	181	190					
					Brightness (fc)	2222	1250	800	556	313	200	139	102	78	62	50	43	37	32	28	25	22	20	18					
ECO Lines F150 White	25°	0.48	65145	814	722,898	Length (ft)	4.3	5.8	7.2	8.6	11.5	14.4	17.3	20	23	26	29	31	34	36	38	41	43	46	48				
						Brightness (fc)	8925	5020	3213	2231	1255	803	558	410	314	248	201	171	148	129	113	100	89	80	72				
	53°	0.90	28383	189	279,000	Length (ft)	8.1	10.8	13.5	16.2	21.6	27.0	32.4	38	43	49	54	59	63	68	72	77	81	86	90				
						Brightness (fc)	3444	1938	1240	861	484	310	215	158	121	96	78	66	57	50	44	39	34	31	28				
	73°	1.40	62034	414	252,000	Length (ft)	12.6	16.8	21.0	25.2	33.6	42.0	50.4	58.8	67.2	75.6	84.0	91.0	98.0	105.0	112.0	119.0	126.0	133.0	140.0				
						Brightness (fc)	3111	1750	1120	778	438	280	194	143	109	86	70	60	51	45	39	35	31	28	25				
90°	1.90	85693	571	189,000	Length (ft)	17.1	22.8	28.5	34.2	46	57	68	80	91	103	114	124	133	143	152	162	171	181	190					
					Brightness (fc)	2333	1313	840	583	328	210	146	107	82	65	53	45	39	34	30	26	23	21	19					

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How to Read the Illumination Values

700+	Extreme brightness for extremely bright environments, extremely bright production environments (no direct sunlight).
180-700	Very high brightness for very bright environments, such as very bright production floor.
90-180	The most common brightness bracket for regular production floors and modern warehouses.
60-90	Sufficient brightness for bright and medium bright warehouses.
40-60	Sufficient brightness for dim facilities.