



ECO Lines F80

ECO Lines F80 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: 8.75' (2.65m), Power Plug: Nema 5-15 (other plug options, such as L7-15P 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 122°F (-30°C to 50°C)

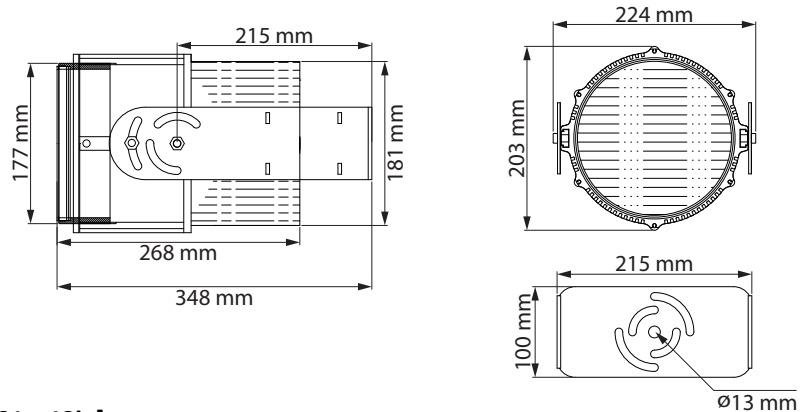
LED Life:	35,000h until 30% brightness loss is reached (L70*) (*L70= the time to 30% brightness loss)
Driver Life:	MTBF: 200,000h, lifetime: 100,000h at tc=75°C and 80% load (driver and LED are field serviceable)

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:	53° (1:0.93 throw ratio)	73° (1:1.4 throw ratio)	90° (1:1.86 throw ratio)

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

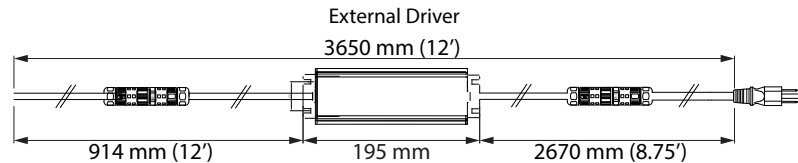


Dimensions in mm

Weight incl. Driver: 5.9kg [13lbs]

Master Carton (2 pcs): 58 x 54 x 30cm [23 x 21 x 12in]

Master Carton Dim Weight: 15.7kg



PHOTOMETRICS (see our website for metric version and details)

ECO Lines™ Photometrics (Imperial values)																										
Model	Lens	Beam Mult.	Effective lm	Efficiency lm/W	CD	Value	PROJECTION DISTANCE IN FEET (ft)																			
							9	12	15	18	24	30	36	42	48	54	60	65	70	75	80	85	90	95	100	
ECO Lines F80 Green	25°	0.48	31741	397	352,219	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)	4348	2446	1565	1087	611	391	272	200	153	121	98	83	72	63	55	49	43	39	35	
	53°	0.90	15748	197	154,800	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)	1911	1075	688	478	269	172	119	88	67	53	43	37	32	28	24	21	19	17	15	13
	73°	1.40	29909	374	121,500	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)	1500	844	540	375	211	135	94	69	53	42	34	29	25	22	19	17	15	13	12	
90°	1.90	47743	597	105,300	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)	1300	731	468	325	183	117	81	60	46	36	29	25	21	19	16	15	13	12	11		
ECO Lines F80 Yellow	25°	0.48	25502	170	282,989	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)	3494	1965	1258	873	491	314	218	160	123	97	79	67	58	50	44	39	35	31	28	
	53°	0.90	12452	83	122,400	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)	1511	850	544	378	213	136	94	69	53	42	34	29	25	22	19	17	15	14	12	
	73°	1.40	23263	155	94,500	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)	1167	656	420	292	164	105	73	54	41	32	26	22	19	17	15	13	12	10	9	
90°	1.90	38766	258	85,500	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)	1056	594	380	264	148	95	66	48	37	29	24	20	17	15	13	12	11	9	9		
ECO Lines F80 Amber	25°	0.48	16608	111	184,301	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)	2275	1280	819	569	320	205	142	104	80	63	51	44	38	33	29	26	23	20	18	
	53°	0.90	8240	55	81,000	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)	1000	563	360	250	141	90	63	46	35	28	23	19	17	14	13	11	10	9	8	
	73°	1.40	16173	108	65,700	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)	811	456	292	203	114	73	51	37	29	23	18	16	13	12	10	9	8	7	7	
90°	1.90	25708	171	56,700	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)	700	394	252	175	98	63	44	32	25	19	16	13	12	10	9	8	7	6	6		
ECO Lines F80 Red	25°	0.48	21604	270	239,740	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)	2960	1665	1066	740	416	266	185	136	104	82	67	57	49	43	37	33	30	27	24	
	53°	0.90	10438	130	102,600	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)	1267	713	456	317	178	114	79	58	45	35	29	24	21	18	16	14	13	11	10	
	73°	1.40	20161	252	81,900	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)	1011	569	364	253	142	91	63	46	36	28	23	19	17	15	13	11	10	9	8	
90°	1.90	29299	366	72,000	Length (ft)	16.2	21.6	27.0	32.4	43	54	65	76	86	97	108	117	126	135	144	153	162	171	180		
					Brightness (fc)	889	500	320	222	125	80	56	41	31	25	20	17	15	13	11	10	9	8	7		
ECO Lines F80 Blue	25°	0.48	37092	247	411,604	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)	5862	2658	1829	1270	715	420	308	233	179	141	116	97	84	74	66	59	51	44	38	
	53°	0.90	18403	123	180,900	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)	2233	1259	804	558	314	201	140	103	79	62	50	43	37	32	28	25	22	20	18	
	73°	1.40	36999	247	150,300	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)	1856	1044	668	464	261	167	116	85	65	52	42	36	31	27	23	21	19	17	15	
90°	1.90	55496	370	122,400	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)	1511	850	544	378	213	136	94	69	53	42	34	29	25	22	19	17	15	14	12		
ECO Lines F80 White	25°	0.48	42997	537	477,134	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)	5891	3313	2121	1473	828	530	368	270	207	164	133	113	97	85	75	66	59	53	48	
	53°	0.90	21333	142	209,700	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)	2589	1456	932	647	364	233	162	119	91	72	58	50	43	37	33	29	26	23	21	
	73°	1.40	39658	264	161,100	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)	1989	1119	716	497	280	179	124	91	70	55	45	38	33	29	25	22	20	18	16	
90°	1.90	64474	430	142,200	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)	1756	988	632	439	247	158	110	81	62	49	40	34	29	25	22	20	18	16	14		

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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.