ECO Lines F80RGY

ECO Lines F80RGY Color Changing Line Projector

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

- **Switch between Red, Green, Yellow, Color Sequences and Blinking**
- **Intuitive controls, feature-rich automation options**
- **3rd Generation: Crisper, longer lines at increased brightness**
- **Focusable for optimal line appearance and brightness**
- **Maintenance free, no fans or motors**

SPECIFICATIONS

Item Code:	EL-F80RGY
Power Supply:	100-240/277VAC, 50/60Hz (Voltage Range: 90-305VAC, 48-63Hz; 127-431VDC)
Power Draw:	70W, 107A/115V, 0.3A/277V
Driver:	MOSO X6-105M041 (external)
Inrush Current:	COLD START 75A (t_{width}=375µs at 50% I_{peak}) at 230VAC per NEMA 410
Breakers:	We recommend lighting specific breakers at 70% of specified load
Power Cord:	Length: 8.5' (2.6m), Plug: Standard plug: Nema 5-15 (other plug options available)
Control Input Signals:	Input 1: Dry switch for switching between two pre-set modes
	Input 2: 0-10V for switching between ten modes

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:	Red, Green, Yellow, Color Sequences, Blinking			
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)
Focus:	Field adjustable focus, pre-set for 21-33' (6.4-9.5m) projection distance.			

* Throw Distance: Line Length

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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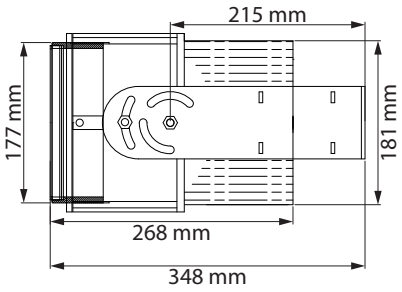
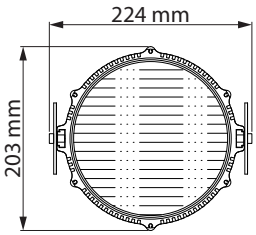
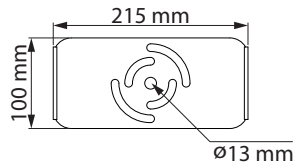
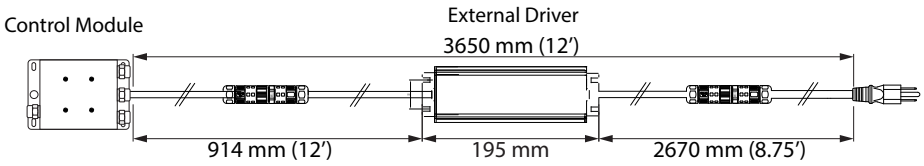
DIMENSIONS AND WEIGHT







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)

ECOLines™ 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
						Brightn.(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
						Brightn.(fc)	1911	1075	688	478	269	172	119	88	67	53	43	37	32	28	24	21	19	17	15
	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
						Brightn.(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
						Brightn.(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	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
						Brightn.(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
						Brightn.(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
						Brightn.(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
						Brightn.(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
						Brightn.(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
						Brightn.(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
						Brightn.(fc)	1011	569	364	253	142	91	63	46	36	28	23	19	17	15	13	11	10	9	8
	90°	1.80	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
						Brightn.(fc)	889	500	320	222	125	80	56	41	31	25	20	17	15	13	11	10	9	8	7

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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.

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