





USER MANUAL il5x MODEL 440W



IL-5x26FSG-120 IL-5x26FSG-480 1-877-540-5588 iluminarlighting.com sales@iluminarlighting.com |LL



CONTENTS

Pre-Install Information	2
Technical & Physical Specifications	3
Hardware & Accessories	4
Instructions	5-6
Daisy Chain Instructions	7
PPFD Map	8-9
Important Cautions & Warranty	10

Please read this manual thoroughly prior to installing or operating the ILUMINAR iL5x.

- Observe all safety precautions (see page 10), seek the services of a • gualified electrician, installation professional, or call ILUMINAR Lighting technicians for assistance
- DO NOT handle or touch the fixture while in use .
- Connect the fixture only to the power sources of the appropriate voltage • using the correct AC plug type. Protect power cables from being pinched, walked on, or otherwise damaged. Be especially careful where the power cable enters the power outlet to the unit. Only connect the fixture to an electrical outlet or extension cord of comparable standard and level rating. Connect the fixture ONLY to the power sources of the correct voltage using the plug received.
- The fixture should only be cleaned as directed. Always seek service for • your system by qualified service personnel if any of the following occur:
 - 1. The fixture shows a noticeable change in performance.
 - 2. The powersupply cord or plug is damaged.
 - 3. The fixture has been dropped, or the exterior is damaged.





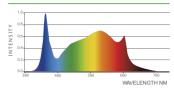
TECHNICAL SPECIFICATIONS

PP Eff Mi

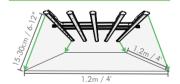
PPF	1144 μmol/s
Efficacy	2.6 μmol/j
Min Power Factor	0.9
THD	< 20%
Crest Factor	0.99
BTU	1460
Rated Voltage	120-277V AC / 347-480V AC
Frequency	50 / 60Hz
Dimmable	0-10V Controllable
Ambient Temperature	0 - 35°C / 32-95°F
Relative Humidity	98%
Plug Type	Power Cord Sold Seperately
Color Temperature	4000k
Color Rendering Index	88
Minimum Mounting Height	6"-12" to top of Canopy
Emitter Cooling	Passive / Extruded Case
Light Distribution +/- 5%	125°
Waterproof Rating	IP65 for Damp/Wet Conditions
LED Lifespan (90% of Life)	55,000+ hours



il 5x 440W LED SPECTRUM



MOUNTING & COVERAGE



VOLTAGE AND AMPERAGE

Ī	120V	3.78A	452W
	208V	2.16A	445W
	240V	1.87A	443W
	277V	1.63A	440W
	347V	1.3A	449W
	480V	0.94A	442W

PHYSICAL SPECIFICATIONS

Length	1067mm	42.01"
Width	1003mm	39.49"
Height	129mm	5.08"
Weight	13.5kg	29.76lbs



129 mm / 5"

003 1067 mm / 42"

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HARDWARE AND ACCESSORIES

CONNECTION INSTRUCTIONS

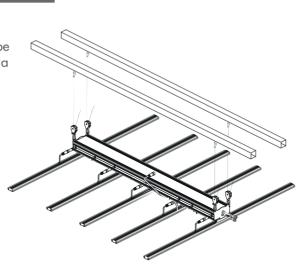
Lay the central mast on a flat table top or surface with the

attachment brackets facing UP. Attach each LED Bar by aligning the

plastic clips and carefully sliding them into place until you hear a

The iL5x can be hung from rope ratchets or can be mounted to a rack.

Before you begin installation, check that you have all the necessary parts to begin.



IN THE BOX



soft click

Once the plastic clips are all snapped in place, attach the A/C cables coming from the mast to each LED bar by aligning the connector pins and pressing the ends together. Lock by twisting in opposite directions.

SHD



iL5x Fixture



4 Rope Ratchets

3 Or to f

Once all the LED bars are fastened into place and A/C cables are attached to the mast, turn the fixture over (this may require more than one person). Ensure the flat surface is clear of anything that could damage the delicate diodes.

CAUTION when handling your ILUMINAR iL Fixture. The LED array should NOT come in contact with sharp objects. DO NOT touch diodes or apply direct force to the diodes as this can/will cause permanent damage.



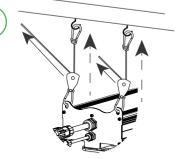
HANGING INSTALLATION

DAISY CHAIN CONNECTIONS

1

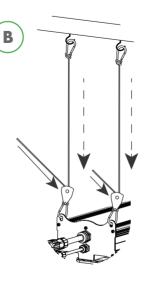
Α

To suspend mount, attach the 4 rope ratchets that come packaged with this fixture to the LED.



2

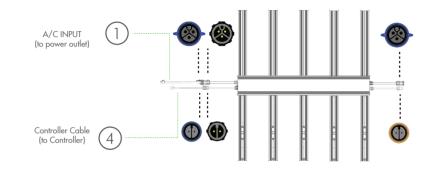
Lift the LED and attach the carabiners to pre-installed hooks from ceiling or mounting beam. The Ratchets should be installed closest to the LED (and not the ceiling).



A: Remove slack to raise fixture. B: Give slack to lower fixture.

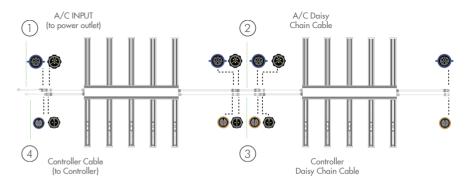
3

Once fixture is hanging with all LED bars installed, connect the LED Power Cable from the outlet to the fixture.



If you plan to utilize several LEDs in your room or facility, one of the many benefits of the ILUMINAR LED is that you can "daisy chain" one fixture to another to save space and use only one outlet to run several lamps, thus minimizing the amount of cords used in your space.

If you plan to utilize the ILUMINAR HASH Controller, you can connect the connections from the controller to the fixture and then connect the Daisy Chain Controller Cable from fixture to fixture. Please consult with our lighting layout designers to ensure proper spacing of outlets for your unique setup.



AVAILABLE CABLES

	NAME	VOLTAGE	SKU	LENGTH	DIAGRAM
	120V Input Power Connection Cord	120V	IL-LED-120AC	1.7m / 68″	🛞 🕕 5-15P
	240V Input Power Connection Cord	240V	IL-LED-240AC	1.7m / 68″	🛞 🕂 6-15P
\bigcirc	277V Input Power Connection Cord	277V	IL-LED-277AC	1.7m / 68″	🛞 🙄 L7-15P
	347V Input Power Connection Cord	347V	IL-LED-347AC	1.7m / 68″	🛞 🕐 L24-20P
	Daisy Chain Power Cable 1.8 Meter	120-277V	IL-LED-DC120	1.8m / 70″	
(2)	Daisy Chain Power Cable 3 Meter	120-277V	IL-LEDDC1203M	3m / 118″	🛞 🛞
\bigcirc	Daisy Chain Power Cable 1.8 Meter (Hi-Volt)	200-480V	IL-LED-DC480	1.8m / 70"	🐵 🐵
	Daisy Chain Power Cable 3 Meter (Hi-Volt)	200-480V	IL-LED-DC4803M	3m / 118″	
	Cord Set for LEDs Daisy Chain Dimmer	N/A	IL-1Dim18	1.8m / 70″	•
(3)	Cord Set for LEDs Daisy Chain Dimmer	N/A	IL-1Dim3	3m / 118″	•
	Cord Set for LEDs (Fixture to Touch controller)	N/A	IL-1DimRJ9	3m / 10′	•
(4)	Cord Set for LEDs (Fixture to HASH controller)	N/A	IL-1DimRJ14	3m / 10′	1
	Cord Set for LEDs (Original - Fixture to 2 Wire)	N/A	IL-1 Dim	0.7m / 2.3′	• —



PPFD MAP

>=1000 443-581 338-443 258-338 196-258 150-196 <150

Р	PFD	MAP	iL5x	at	0.5ft	

295	470	543	523	523	543	472	297
466	747	812	827	827	813	749	470
503	806	879	896	896	880	808	508
511	818	893	911	911	894	820	517
511	817	892	910	910	892	819	516
501	802	875	892	892	875	805	506
460	740	803	818	818	804	742	464
286	457	498	508	508	499	459	289

PPFD MAP iL5x at 1ft

257	366	425	440	440	426	360	260
365	526	610	641	642	611	528	369
421	606	704	741	741	706	609	425
441	634	738	776	777	739	637	446
440	633	736	775	775	738	636	445
418	602	699	735	736	701	605	422
359	518	601	631	632	602	520	363
250	357	414	436	436	415	359	253

PPFD MAP iL5x at 1.5tt							
233	304	354	377	370	355	306	235
304	402	469	500	500	470	405	307
352	467	545	581	582	546	470	356
374	496	578	617	618	580	499	378
373	494	577	616	617	579	497	377
349	463	540	576	577	542	466	352
300	396	462	492	493	463	399	302
227	298	346	369	369	347	299	229

Clearance	0.5
Qty	1
Average PPFD	678.06
Max PPFD	911
Min PPFD	286
Median PPFD	775.5
Min/Average	42.18
Watts	440

Clearance

Max PPFD

Min PPFD

Watts

Average PPFD

Median PPFD

Min/Average

Qty

5	ft
	U
06	µmol/m²/s
1	µmol/m²/s
6	µmol/m²/s
.5	µmol/m²/s
8	%
С	W
	I

1	ft
1	U
541.39	µmol/m²/s
777	µmol/m²/s
250	µmol/m²/s
564.5	µmol/m²/s
46.18	%
440	W

Clearance	1.5	ft
Qty	1	U
Average PPFD	433.06	µmol/m²/s
Max PPFD	618	µmol/m²/s
Min PPFD	277	µmol/m²/s
Median PPFD	433.5	µmol/m²/s
Min/Average	52.42	%
Watts	440	W

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PPFD MAP iL5x at 3ft							
163	100	207	247	240	200	109	164
188	219	241	254	254	242	220	190
207	241	267	281	281	268	243	209
217	253	280	295	296	281	255	219
216	252	280	295	295	281	254	218
206	240	265	279	280	266	241	207
186	216	239	251	251	240	217	188
160	185	204	214	215	205	186	162

Clearance	3	ft
Qty	1	U
Average PPFD	230.08	µmol/m²/s
Max PPFD	296	µmol/m²/s
Min PPFD	100	µmol/m²/s
Median PPFD	240	µmol/m²/s
Min/Average	43.46	%
Watts	440	W

9

PPFD MAP iL5x at 4ft

			/ • • • ·	120/1	GI -1		
125	139	149	154	154	149	140	126
139	154	166	172	172	166	155	140
149	166	179	185	185	179	167	150
154	172	185	192	192	186	173	155
154	172	185	192	192	185	172	155
148	165	178	184	185	178	166	149
138	153	165	171	171	165	154	139
124	137	147	153	153	148	138	125

Clearance	4	ft
Qty	1	U
Average PPFD	161.09	µmol/m²/s
Max PPFD	192	µmol/m²/s
Min PPFD	124	µmol/m²/s
Median PPFD	160	µmol/m²/s
Min/Average	76.98	%
Watts	440	W
	1	1

PPFD MAP iL5x at 5ft 110 113 113 110 105 104 119 122 122 119 113 113 119 126 129 129 126 120 111 122 129 133 133 129 123 113 122 129 133 133 129 123 113

125 129 129 126 119 110

122 122 119 113

109 112 112 109 104

105

104

97

Clearance	5	ft
Clearance	5	П
Qty	1	U
Average PPFD	116.42	µmol/m²/s
Max PPFD	133	µmol/m²/s
Min PPFD	96	µmol/m²/s
Median PPFD	115.5	µmol/m²/s
Min/Average	82.46	%
Watts	440	W
	1	l



105

110

113

113

110 119

104 112 118

CAUTION

Please read the following list carefully prior to beginning installation.

- 1. Leave at least one inch of space between the fixture and the mounting area for maximum performance and lifespan.
- 2. ALWAYS wear protective eye wear when looking directly at the diodes to prevent eye damage.
- 3. Only handle, clean or move fixture when it's unplugged and completely cool.
- 4. Keep the fixture free of dust, debris, deposits to ensure the maximum potential of the fixture.
- 5. NEVER use cloth to clean the diodes. This will scratch the diodes and could potentially break or dislodge them.
- 6. DO NOT use chemicals to clean the fixture. Use ONLY low pressure air or low pressure water to remove dust and debris.
- 7. Do not exceed 70% max load for breakers due to inrush current in LED fixtures



GUARANTEE

At ILUMINAR, we stand behind our products and our technology as well as our customers. All ILUMINAR fixtures are backed by our 5-Year Guarantee. Please visit our website iluminarlighting.com/warranty for more information.

