





USER MANUAL il8x MODEL 670W









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Please read this manual thoroughly prior to installing or operating the ILUMINAR Lighting iL8x.

- Observe all safety precautions (see page 10), seek the services of a qualified 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.





LED Lighting Solution

TECHNICAL SPECS

Ro	ated Voltage	120-277V AC	347-480V AC		
Vo	oltage Range (+/-10%)	100-277V	200-480V		
PF	PF	1742 μ	ımol/s		
Ef	ficacy	2.6 μ	mol/J		
M	in Power Factor	0.	9		
Th	HD	< 2	0%		
C	rest Factor	0.9	99		
В	ΓU	22	78		
Fr	equency	50 / 60Hz			
D	immable	0-10V Controllable			
Aı	mbient Temperature	0 - 35°C / 32-95°F			
Re	elative Humidity	98%			
C	olor Temperature	4000k			
C	olor Rendering Index	8	8		
M	inimum Mounting Height	6"-12" to to	o of Canopy		
Er	nitter Cooling	Passive / Ext	ruded Case		
Lig	ght Distribution +/- 5%	12	5°		
W	aterproof Rating	IP65 for Damp/	Wet Conditions		
LE	D Lifespan (90% of Life)	55,000	+ hours		

PHYSICAL SPECIFICATIONS

Length	1067mm	42.01"
Width	1003mm	39.49"
Height	129mm	5.08"
Weight	16kg	35.3lbs

VOLTAGE AND AMPERAGE

120V	5.69A	680W
208V	3.25A	670W
240V	2.8A	662W
277V	2.42A	656W
347V	1.97A	678W
480V	1.41A	660W



MODEL: 2.6

II-8x26FSG-120

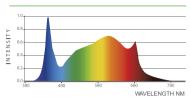
WATTS: 670W

VOLTAGE: 100-277V

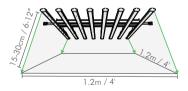
200-480V



iL8x 670W LED SPECTRUM



MOUNTING & COVERAGE













iluminarlighting.com Toll Free: 1-877-540-5588



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HARDWARE AND ACCESSORIES

The iL8x can be hung from rope ratchets or can be mounted to a rack.

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



IN THE BOX





4 Rope Ratchets



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 soft click.





2

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.





3

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.

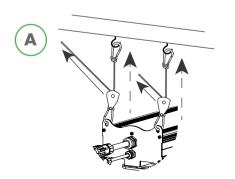


CAUTION when handling your ILUMINAR Lighting iL Fixture. The LED array should NOT come in contact with sharp objects. DO NOT touch diodes or apply direct force to the diodes as this can/will cause permanent damage.

HANGING INSTALLATION

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

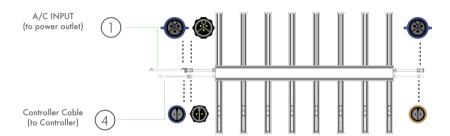
R



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.

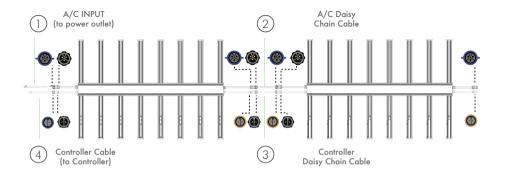
B: Give slack to lower fixture. Once fixture is hanging with all LED bars installed, connect the LED Power Cable from the outlet to the fixture.



DAISY CHAIN CONNECTIONS

If you plan to utilize several LEDs in your room or facility, one of the many benefits of the ILUMINAR Lighting 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 Lighting HASH Controller, 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
(1)	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"	& £24-20P
	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"	8 8
	Daisy Chain Power Cable 1.8 Meter (Hi-Volt)	200-480V	IL-LED-DC480	1.8m / 70"	8 8
	Daisy Chain Power Cable 3 Meter (Hi-Volt)	200-480V	IL-LED-DC4803M	3m / 118"	⊗ ⊗
<u></u>	Cord Set for LEDs Daisy Chain Dimmer	N/A	IL-1Dim18	1.8m / 70"	(1)
3	Cord Set for LEDs Daisy Chain Dimmer	N/A	IL-1Dim3	3m / 118"	(1)
	Cord Set for LEDs (Fixture to Touch controller)	N/A	IL-1 DimRJ9	3m / 10′	(1)
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′	(1)

PPFD MAP

PPED MAP il 8x at 0.5ft

539	752	795	805	805	985	752	539
710	992	1051	1065	1065	1051	992	710
744	1040	1105	1121	1121	1105	1040	744
753	1052	1118	1135	1135	1118	1052	753
753	1052	1118	1135	1135	1118	1052	753
744	1040	1105	1121	1121	1105	1040	744
710	992	1051	1065	1065	1051	992	710
540	752	795	805	805	795	752	539

Clearance	0.5	ft
Qty	1	U
Average PPFD	926.55	µmol/m²/s
Max PPFD	1135	µmol/m²/s
Min PPFD	539	µmol/m²/s
Median PPFD	1016	µmol/m²/s
Min/Average	58.17	%
Watts	670	W

PPFD MAP iL8x at 1ft

400	547	617	642	642	617	547	400
533	731	824	857	857	824	731	533
595	815	920	953	958	920	815	595
617	844	954	994	993	954	844	617
617	844	954	994	993	954	844	617
595	815	920	958	958	920	815	595
533	731	824	857	857	824	731	533
400	547	617	642	642	617	547	400

Clearance	1	ft
Qty	1	U
Average PPFD	740.39	µmol/m2/s
Max PPFD	994	µmol/m2/s
Min PPFD	400	µmol/m2/s
Median PPFD	773	µmol/m2/s
Min/Average	54.03	%
Watts	670	W

PPFD MAP iL8x at 1.5ft

343	441	504	532	532	504	441	343
436	564	645	681	681	645	564	436
494	640	732	774	774	732	640	494
520	673	771	815	815	771	673	520
520	673	771	815	815	771	673	520
494	640	732	774	774	732	640	494
436	564	645	681	681	645	564	436
343	441	504	532	532	504	441	343

Clearance	1.5	l ft
cicai arice	1.5	"
Qty	1	U
Average PPFD	597.81	µmol/m2/s
Max PPFD	815	µmol/m2/s
Min PPFD	343	µmol/m2/s
Median PPFD	602	µmol/m2/s
Min/Average	57.38	%
Watts	670	W

Legend

>=1000	762-1000	581-762	443-581	338-443	258-338	196-258	150-196	<150
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PPFD MAP iL8x at 3ft

233	269	295	309	309	295	269	233
268	310	342	359	359	342	310	268
294	341	377	396	396	377	341	294
308	358	395	415	415	395	358	308
308	358	395	415	415	395	358	308
294	341	377	396	396	377	341	294
268	310	342	359	359	342	310	268
233	269	295	309	309	295	269	233

Clearance	3	ft
Qty	1	U
Average PPFD	329.31	µmol/m²/s
Max PPFD	415	µmol/m²/s
Min PPFD	233	µmol/m²/s
Median PPFD	325.5	µmol/m²/s
Min/Average	70.75	%
Watts	670	W
	1	I

PPFD MAP iL8x at 4ft

180	200	214	222	222	214	200	180
199	222	238	247	247	238	222	199
214	238	256	266	266	256	238	214
221	247	266	276	276	266	247	221
221	247	266	276	276	266	247	221
214	238	256	266	266	256	238	214
199	222	238	247	247	238	222	199
180	200	214	222	222	214	200	180

Clearance	4	ft
Qty	1	U
Average PPFD	231.63	µmol/m2/s
Max PPFD	276	µmol/m2/s
Min PPFD	180	µmol/m2/s
Median PPFD	230	µmol/m2/s
Min/Average	77.71	%
Watts	670	W

PPFD MAP iL8x at 5ft

140	151	160	164	164	160	151	140
151	164	173	178	178	173	164	151
159	173	182	188	188	182	173	159
164	178	188	193	193	188	178	164
164	178	188	193	193	188	178	164
159	173	182	188	188	182	173	159
151	164	173	178	178	173	164	151
140	151	160	164	164	160	151	140

Clearance	5	ft
Qty	1	U
Average PPFD	169.13	µmol/m2/s
Max PPFD	193	µmol/m2/s
Min PPFD	140	µmol/m2/s
Median PPFD	168.5	µmol/m2/s
Min/Average	82.78	%
Watts	670	W
	I	l

PRECAUTIONS

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. The LED array should NEVER come in contact with sharp objects.
- 4. Do not touch or apply force to the diodes this will cause permanent damage.
- Only handle, clean or move fixture when it's unplugged and completely cool.
- 6. Keep the fixture free of dust, debris, deposits to ensure the maximum potential of the fixture.
- 7. NEVER use cloth to clean the diodes. This will scratch the diodes and could potentially break or dislodge them.
- 8. DO NOT use chemicals to clean the fixture. Use ONLY low pressure air or low pressure water to remove dust and debris.



GUARANTEE

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

