LUXgro® Series - Specification Sheet

The LUX GRO+ full-spectrum horticulture lights designed for all stages of growth and harvest. Ideal for Commercial Greenhouses, Vertical Farms, and Grow Tents.

Performance

HYBRID Spectrum
- 166.06 up to 2,916.02 PPF
- 2.43 µMOL/J (w/ CA lens)
- 31.63 R/FR

LG3 Spectrum
- 109.93 up to 1,365.20 PPF
- 2.00 µMOL/J (w/ CA lens)
- 194.8 R/FR

Construction

- Extruded 6463 aluminum construction
- Stainless-steel hardware
- Bright dip anodized fixture body
- Isolated driver channels
- Thermally independent heat sink LED bars
- Conformal coated LED modules suitable for damp locations

Listing and Ratings

- UL 1598 for Dry, Damp, and Wet Locations
- ARRA/BAA Compliant (Made in America)
- BABA Compliant Options Available, Consult Factory
- IP55 Rated
- UL EPH Listed - NSF Rated
- 3G Vibration Rated
- Exceeds IK10 impact rating with polycarbonate lenses
- IK10 rating does not apply to acrylic lenses

Applications

- Greenhouses/Horticulture

Installation

- Aircraft cable suspension
- Surface mounting
- Rigid pendant mounting (with or without powerfeed)
- Adjustable yoke mount
- Tandem mounting available
- Custom mounts available, contact Factory

Optics

- Wide 120° beam angle LEDs
- LED bars are rotatable to allow for custom distributions
- Acrylic and polycarbonate lens materials available

Warranty

- 10-Year Warranty on fixture body
- 5-Year Warranty on electronics
- For special requests, contact Factory

Example Catalog Number:

G	4	D	A	LG3	2	U10
		Some options may require additional driver channels in order to function. Consult Factory.	Defines the order of channels and BARs in the fixture frame. Please see configuration chart on specification sheet.		Affects fixture footprint size and maximum lumen output.	
Series	**Number of BARS**	**Number of Channels**	**Fixture Configuration**	**Color Spectrum**	**Length**	**Voltage and Dimming**
G	**1** **2** **3** **4** **5** **6** **7** **8**	**S** Single **D** Double **T** Triple **Q** Quad	**A** **B** **C** ... **A** defines standard configuration.	**LG3** FAR RED: 700-799nm 0.88% RED: 600-699nm 87.73% GREEN: 500-599nm 5.40% BLUE: 400-499nm 5.83% **HYB** Hybrid: Full-spectrum white light with supplmental FAR RED **GRN** Green: 520-540nm **RED** Red: 630nm	**2** 2' long **4** 4' long	**U10** 120-277V | 0-10V dimming | 10% min. **H10** 347/480V | 0-10V dimming | 10% min. **DP10** 277-480V 0-10V dimming 10% min. **DALI** 120-277V DALI control **DMX** 120-277V DMX control

Options and Accessories

Lensing
CA Clear acrylic diffuse lens
CP Clear polycarbonate diffuse lens
"2" or "4" denotes fixture length.

BAR Locking
(leave blank) BARs fixed
R BARs rotatable
Recommended FIXED (BLANK) in high-abuse environments

Channel Access
B Lid opens from below fixture
Some options, including controls and mounting types, may require specific access. Consult Factory for further information

Cord
(leave blank)	No cord provided	
3/10	3-wire, 10'cord	Standard white
4/10	4-wire, 10'cord	Standard white
5/10	5-wire, 10'cord	Standard white
6/10	6-wire, 10'cord	Standard white
3/20	3-wire, 20'cord	Standard white
4/20	4-wire, 20'cord	Standard white
5/20	5-wire, 20'cord	Standard white
6/20	6-wire, 20'cord	Standard white
3/30	3-wire, 30'cord	Standard white
4/30	4-wire, 30'cord	Standard white
5/30	5-wire, 30'cord	Standard white
6/30	6-wire, 30'cord	Standard white

1st digit: Number of wires, including ground. Available from 3 through 6.
2nd digit: Overall length, including strips. Available from 10' through 30'.

Emergency
E10 10-watt integral emergency battery (CA Title-20 compliant)
E15 15-watt integral emergency battery (CA Title-20 compliant)
E20 20-watt integral emergency battery (CA Title-20 compliant) not available on all configurations, consult Factory
E20R 20-watt non-integral emergency battery (CA Title-20 compliant) **must be field-installed**
E30R 30-watt non-integral emergency battery (CA Title-20 compliant) **must be field-installed**

Remote Mounting
RMS Remote mount driver(s) - surface mount
RMC Remote mount driver(s) - cable mount
RNK Remote mount driver(s) - no enclosure kit provided
Restrictions may apply for certain applications, consult Factory

Finish
(leave blank) Standard natatorium-grade bright dip anodized aluminum, shown on specification sheet
M Silver stainless-steel hanging brackets (no green). Standard bright dip anodized aluminum body
PC Custom color by powdercoat. Must specify RAL number and components to be finished

Controls
Wireless Controls Multiple wireless control systems available. Contact Factory for options and details
POTE Potentiometer
LUX is controls-agnostic and can use most requested control systems.

Mounting
(leave blank) No mounting hardware provided
4P10S Stainless-steel 4-point AC cable up to 10' length, hook
4P20S Stainless-steel 4-point AC cable up to 20' length, hook
MH1S Myer's hub 1-point, 3/4" GRC adapter, stainless-steel
MH2S Myer's hub 2-point, 3/4" GRC adapter, stainless-steel
SM Surface mount, no machining or hardware provided
SMH Surface mount, incl. pre-machined mounting points
WM Wall mount
TM Truss mount
UM2 Unistrut mount, includes (2) points of mounting, suitable for mounting to single strut.
UM4 Unistrut mount, includes (4) points of mounting, suitable for mounting to (2) struts.
YK Yoke mount, adjustable trunnion
Some mounting options may require specific channel access.

Application
HORT Greenhouses, vertical farms, and grow tents *(Conformal Coating Modules/WET/Bottom Access Required)*

HYBRID Spectrum

2' GRO+ Performance

Clear Acrylic				
Model	PPF	Wattage	µMOL/J	Footprint @ 1' AFF
G-1-XX-HYB-2-XXX-CA	172.26	70.98	2.43	34" x 18"
G-2-XX-HYB-2-XXX-CA	344.52	141.96	2.43	34" x 21"
G-3-XX-HYB-2-XXX-CA	516.78	212.94	2.43	34" x 24"
G-4-XX-HYB-2-XXX-CA	689.04	283.92	2.43	34" x 30"
G-5-XX-HYB-2-XXX-CA	861.30	354.90	2.43	34" x 33"
G-6-XX-HYB-2-XXX-CA	1,033.56	425.88	2.43	34" x 36"
G-7-XX-HYB-2-XXX-CA	1,205.82	496.86	2.43	34" x 42"
G-8-XX-HYB-2-XXX-CA	1,378.08	567.84	2.43	34" x 45"

Clear Polycarbonate				
Model	PPF	Wattage	µMOL/J	Footprint @ 1' AFF
G-1-XX-HYB-2-XXX-CP	166.06	70.98	2.34	34" x 18"
G-2-XX-HYB-2-XXX-CP	332.12	141.96	2.34	34" x 21"
G-3-XX-HYB-2-XXX-CP	498.18	212.94	2.34	34" x 24"
G-4-XX-HYB-2-XXX-CP	664.23	283.92	2.34	34" x 30"
G-5-XX-HYB-2-XXX-CP	830.29	354.90	2.34	34" x 33"
G-6-XX-HYB-2-XXX-CP	996.35	425.88	2.34	34" x 36"
G-7-XX-HYB-2-XXX-CP	1,162.41	496.86	2.34	34" x 42"
G-8-XX-HYB-2-XXX-CP	1,328.47	567.84	2.34	34" x 45"

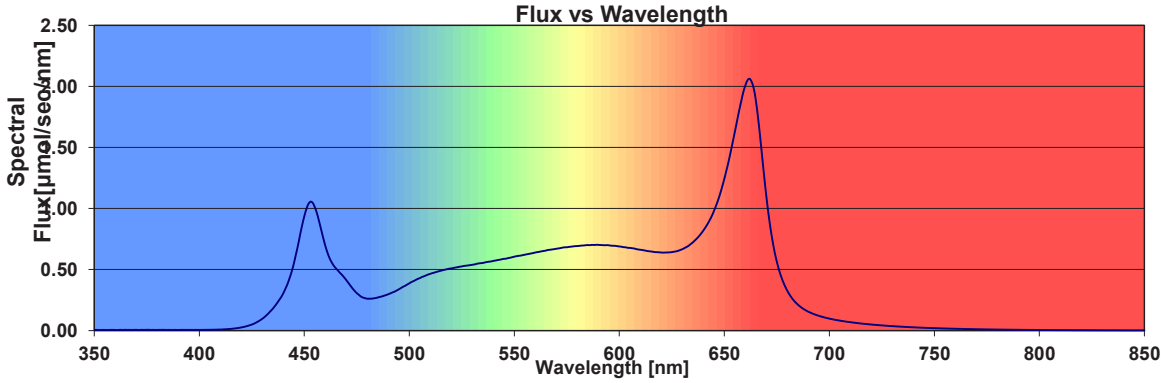
4' GRO+ Performance

Clear Acrylic				
Model	PPF	Wattage	µMOL/J	Footprint @ 1' AFF
G-1-XX-HYB-4-XXX-CA	344.52	141.96	2.43	58" x 18"
G-2-XX-HYB-4-XXX-CA	689.04	283.92	2.43	58" x 21"
G-3-XX-HYB-4-XXX-CA	1,033.56	425.88	2.43	58" x 24"
G-4-XX-HYB-4-XXX-CA	1,378.08	567.84	2.43	58" x 30"
G-5-XX-HYB-4-XXX-CA	1,722.60	709.80	2.43	58" x 33"
G-6-XX-HYB-4-XXX-CA	2,067.12	851.76	2.43	58" x 36"
G-7-XX-HYB-4-XXX-CA	2,411.64	993.72	2.43	58" x 42"
G-8-XX-HYB-4-XXX-CA	2,756.16	1,135.68	2.43	58" x 45"

Clear Polycarbonate				
Model	PPF	Wattage	µMOL/J	Footprint @ 1' AFF
G-1-XX-HYB-4-XXX-CP	332.12	141.96	2.34	58" x 18"
G-2-XX-HYB-4-XXX-CP	664.23	283.92	2.34	58" x 21"
G-3-XX-HYB-4-XXX-CP	996.35	425.88	2.34	58" x 24"
G-4-XX-HYB-4-XXX-CP	1,328.47	567.84	2.34	58" x 30"
G-5-XX-HYB-4-XXX-CP	1,660.59	709.80	2.34	58" x 33"
G-6-XX-HYB-4-XXX-CP	1,992.70	851.76	2.34	58" x 36"
G-7-XX-HYB-4-XXX-CP	2,324.82	993.72	2.34	58" x 42"
G-8-XX-HYB-4-XXX-CP	2,656.94	1,135.68	2.34	58" x 45"

Lensing Multipliers

Lens	
CA (nominal)	100.0%
CP	96.4%



	Wavelength Range [nm]	Photon Flux [µmol/sec]	Total Photon Flux/% of Total
UV	350 - 359	0.056583	0.2935 µmol/sec 0.17%
	360 - 369	0.058082	
	370 - 379	0.060597	
	380 - 389	0.059141	
	390 - 399	0.059080	
Blue	400 - 409	0.068204	32.1916 µmol/sec 18.33%
	410 - 419	0.143541	
	420 - 429	0.502299	
	430 - 439	1.765248	
	440 - 449	5.462669	
	450 - 459	9.532725	
	460 - 469	5.389082	
	470 - 479	3.254820	
	480 - 489	2.719810	
	490 - 499	3.353250	
Green	500 - 509	4.252983	59.2772 µmol/sec 33.75%
	510 - 519	4.872913	
	520 - 529	5.238503	
	530 - 539	5.535332	
	540 - 549	5.855177	
	550 - 559	6.201696	
	560 - 569	6.539484	
	570 - 579	6.818123	
	580 - 589	6.985486	
	590 - 599	6.977527	

	Wavelength Range [nm]	Photon Flux [µmol/sec]	Total Photon Flux/% of Total
Red	600 - 609	6.777735	80.7461 µmol/sec 45.97%
	610 - 619	6.502283	
	620 - 629	6.450026	
	630 - 639	7.220000	
	640 - 649	9.745917	
	650 - 659	15.911544	
	660 - 669	18.052333	
	670 - 679	6.526321	
	680 - 689	2.303073	
	690 - 699	1.256869	
Far Red	700 -709	0.837387	2.9705 µmol/sec 1.69%
	710 - 719	0.596975	
	720 - 729	0.435189	
	730 - 739	0.319672	
	740 - 749	0.236578	
	750 - 759	0.176509	
	760 - 769	0.132994	
	770 - 779	0.100065	
	780 - 789	0.076275	
	790 - 799	0.058876	
IR	800 - 809	0.045752	0.1604 µmol/sec 0.09%
	810 - 819	0.036970	
	820 - 829	0.029912	
	830 - 839	0.025075	
	840 - 850	0.022671	

LG3 Spectrum

2' GRO+ Performance

Clear Acrylic				
Model	PPF	Wattage	µMOL/J	Footprint @ 1' AFF
G-1-XX-LG3-2-XXX-CA	122.82	61.43	2.00	34" x 18"
G-2-XX-LG3-2-XXX-CA	245.65	122.85	2.00	34" x 21"
G-3-XX-LG3-2-XXX-CA	368.47	184.28	2.00	34" x 24"
G-4-XX-LG3-2-XXX-CA	491.29	245.70	2.00	34" x 30"
G-5-XX-LG3-2-XXX-CA	614.11	307.13	2.00	34" x 33"
G-6-XX-LG3-2-XXX-CA	736.94	368.55	2.00	34" x 36"
G-7-XX-LG3-2-XXX-CA	859.76	429.98	2.00	34" x 42"
G-8-XX-LG3-2-XXX-CA	982.58	491.40	2.00	34" x 45"

Clear Polycarbonate				
Model	PPF	Wattage	µMOL/J	Footprint @ 1' AFF
G-1-XX-LG3-2-XXX-CP	118.40	61.43	1.93	34" x 18"
G-2-XX-LG3-2-XXX-CP	236.80	122.85	1.93	34" x 21"
G-3-XX-LG3-2-XXX-CP	355.20	184.28	1.93	34" x 24"
G-4-XX-LG3-2-XXX-CP	473.60	245.70	1.93	34" x 30"
G-5-XX-LG3-2-XXX-CP	592.00	307.13	1.93	34" x 33"
G-6-XX-LG3-2-XXX-CP	710.41	368.55	1.93	34" x 36"
G-7-XX-LG3-2-XXX-CP	828.81	429.98	1.93	34" x 42"
G-8-XX-LG3-2-XXX-CP	947.21	491.40	1.93	34" x 45"

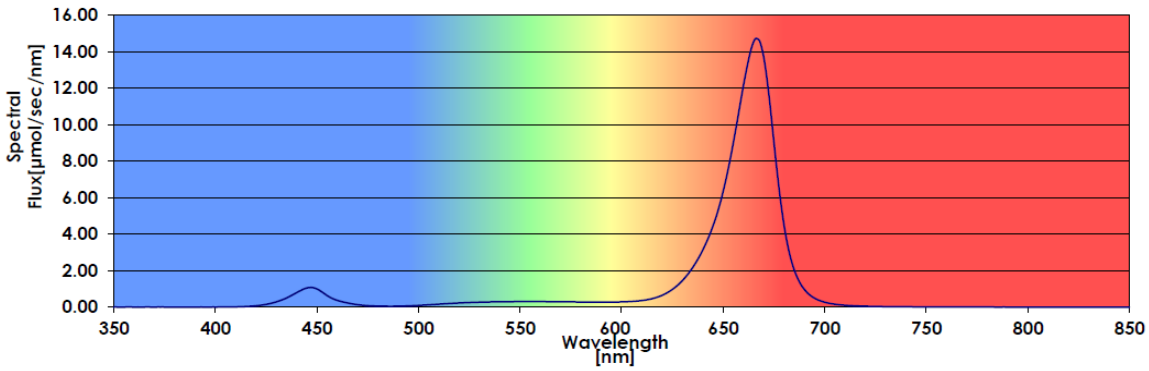
4' GRO+ Performance

Clear Acrylic				
Model	PPF	Wattage	µMOL/J	Footprint @ 1' AFF
G-1-XX-LG3-4-XXX-CA	245.65	122.85	2.00	58" x 18"
G-2-XX-LG3-4-XXX-CA	491.29	245.70	2.00	58" x 21"
G-3-XX-LG3-4-XXX-CA	736.94	368.55	2.00	58" x 24"
G-4-XX-LG3-4-XXX-CA	982.58	491.40	2.00	58" x 30"
G-5-XX-LG3-4-XXX-CA	1,228.23	614.25	2.00	58" x 33"
G-6-XX-LG3-4-XXX-CA	1,473.87	737.10	2.00	58" x 36"
G-7-XX-LG3-4-XXX-CA	1,719.52	859.95	2.00	58" x 42"
G-8-XX-LG3-4-XXX-CA	1,965.16	982.80	2.00	58" x 45"

Clear Polycarbonate				
Model	PPF	Wattage	µMOL/J	Footprint @ 1' AFF
G-1-XX-LG3-4-XXX-CP	236.80	122.85	1.93	58" x 18"
G-2-XX-LG3-4-XXX-CP	473.60	245.70	1.93	58" x 21"
G-3-XX-LG3-4-XXX-CP	710.41	368.55	1.93	58" x 24"
G-4-XX-LG3-4-XXX-CP	947.21	491.40	1.93	58" x 30"
G-5-XX-LG3-4-XXX-CP	1,184.01	614.25	1.93	58" x 33"
G-6-XX-LG3-4-XXX-CP	1,420.81	737.10	1.93	58" x 36"
G-7-XX-LG3-4-XXX-CP	1,657.61	859.95	1.93	58" x 42"
G-8-XX-LG3-4-XXX-CP	1,894.41	982.80	1.93	58" x 45"

Lensing Multipliers

Lens	
CA (nominal)	100.0%
CP	96.4%



	Wavelength Range [nm]	Photon Flux [µmol/sec]	Total Photon Flux/ % of Total
UV	350 - 359	0.102320	0.4732 µmol/sec 0.10%
	360 - 369	0.098330	
	370 - 379	0.096504	
	380 - 389	0.083654	
	390 - 399	0.092410	
Blue	400 - 409	0.143505	28.9266 µmol/sec 5.83%
	410 - 419	0.432921	
	420 - 429	1.587474	
	430 - 439	4.968804	
	440 - 449	9.922596	
	450 - 459	6.979764	
	460 - 469	2.592294	
	470 - 479	0.974364	
	480 - 489	0.578295	
	490 - 499	0.746558	
Green	500 - 509	1.323659	26.7985 µmol/sec 5.40%
	510 - 519	2.028955	
	520 - 529	2.582473	
	530 - 539	2.912299	
	540 - 549	3.062741	
	550 - 559	3.110518	
	560 - 569	3.071011	
	570 - 579	2.971519	
	580 - 589	2.864981	
	590 - 599	2.870309	

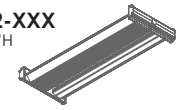
	Wavelength Range [nm]	Photon Flux [µmol/sec]	Total Photon Flux/ % of Total
Red	600 - 609	3.206984	435.4274 µmol/sec 87.73%
	610 - 619	4.708110	
	620 - 629	9.649099	
	630 - 639	21.327552	
	640 - 649	43.840246	
	650 - 659	87.853049	
	660 - 669	138.843562	
	670 - 679	95.611363	
	680 - 689	24.613681	
	690 - 699	5.773723	
Far Red	700 -709	1.860645	4.391 µmol/sec 0.88%
	710 - 719	0.831240	
	720 - 729	0.481662	
	730 - 739	0.326032	
	740 - 749	0.240635	
	750 - 759	0.185204	
	760 - 769	0.147937	
	770 - 779	0.124032	
	780 - 789	0.104796	
	790 - 799	0.088858	
IR	800 - 809	0.075795	0.2992 µmol/sec 0.06%
	810 - 819	0.064440	
	820 - 829	0.054886	
	830 - 839	0.054891	
	840 - 850	0.049183	

2' Fixture Configurations

Standard Configurations

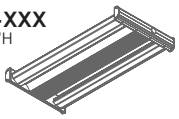
Part #
G-1-SA-XXX-2-XXX
- 24"L x 9"W x 2.4"H
- Weight: 5 LBS

1 Bar
1 Channel



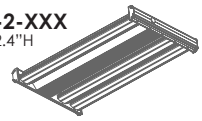
Part #
G-2-SA-XXX-2-XXX
- 24"L x 12"W x 2.4"H
- Weight: 7 LBS

2 Bar
1 Channel



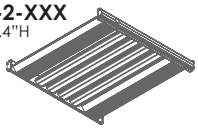
Part #
G-3-SA-XXX-2-XXX
- 24"L x 15"W x 2.4"H
- Weight: 9 LBS

3 Bar
1 Channel



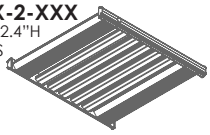
Part #
G-4-DA-XXX-2-XXX
- 24"L x 24"W x 2.4"H
- Weight: 14 LBS

4 Bar
2 Channel



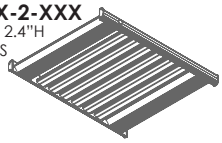
Part #
G-5-DA-XXX-2-XXX
- 24"L x 27"W x 2.4"H
- Weight: 16 LBS

5 Bar
2 Channel



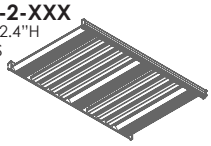
Part #
G-6-DA-XXX-2-XXX
- 24"L x 30"W x 2.4"H
- Weight: 18 LBS

6 Bar
2 Channel



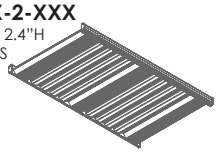
Part #
G-7-TA-XXX-2-XXX
- 24"L x 39"W x 2.4"H
- Weight: 23 LBS

7 Bar
3 Channel



Part #
G-8-TA-XXX-2-XXX
- 24"L x 42"W x 2.4"H
- Weight: 25 LBS

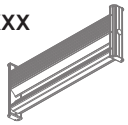
8 Bar
3 Channel



Other Common Configurations

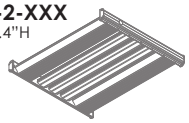
Part #
G-1-SB-XXX-2-XXX
- 24"L x 2.4"W x 9"H
- Weight: 5 LBS

1 Bar
1 Channel



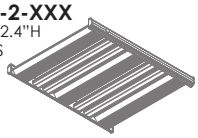
Part #
G-3-DA-XXX-2-XXX
- 24"L x 21"W x 2.4"H
- Weight: 12 LBS

3 Bar
2 Channel



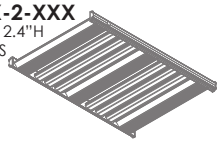
Part #
G-4-TA-XXX-2-XXX
- 24"L x 30"W x 2.4"H
- Weight: 17 LBS

4 Bar
3 Channel



Part #
G-6-TA-XXX-2-XXX
- 24"L x 36"W x 2.4"H
- Weight: 21 LBS

6 Bar
3 Channel

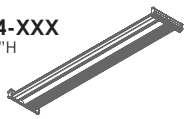


4' Fixture Configurations

Standard Configurations

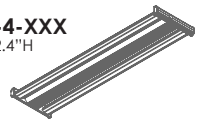
Part #
G-1-SA-XXX-4-XXX
- 48"L x 9"W x 2.4"H
- Weight: 10 LBS

1 Bar
1 Channel



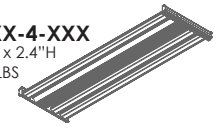
Part #
G-2-SA-XXX-4-XXX
- 48"L x 12"W x 2.4"H
- Weight: 14 LBS

2 Bar
1 Channel



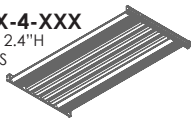
Part #
G-3-SA-XXX-4-XXX
- 48"L x 15"W x 2.4"H
- Weight: 18 LBS

3 Bar
1 Channel



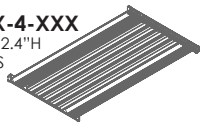
Part #
G-4-DA-XXX-4-XXX
- 48"L x 24"W x 2.4"H
- Weight: 22 LBS

4 Bar
2 Channel



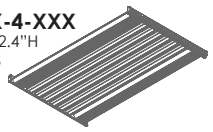
Part #
G-5-DA-XXX-4-XXX
- 48"L x 27"W x 2.4"H
- Weight: 26 LBS

5 Bar
2 Channel



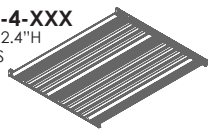
Part #
G-6-DA-XXX-4-XXX
- 48"L x 30"W x 2.4"H
- Weight: 30 LBS

6 Bar
2 Channel



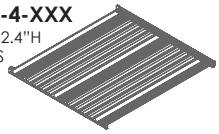
Part #
G-7-TA-XXX-4-XXX
- 48"L x 39"W x 2.4"H
- Weight: 40 LBS

7 Bar
3 Channel



Part #
G-8-TA-XXX-4-XXX
- 48"L x 42"W x 2.4"H
- Weight: 44 LBS

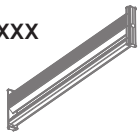
8 Bar
3 Channel



Other Common Configurations

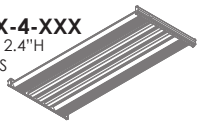
Part #
G-1-SB-XXX-4-XXX
- 48"L x 2.4"W x 9"H
- Weight: 10 LBS

1 Bar
1 Channel



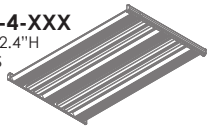
Part #
G-3-DA-XXX-4-XXX
- 48"L x 21"W x 2.4"H
- Weight: 24 LBS

3 Bar
2 Channel



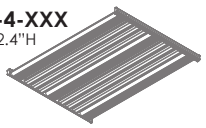
Part #
G-4-TA-XXX-4-XXX
- 48"L x 30"W x 2.4"H
- Weight: 28 LBS

4 Bar
3 Channel



Part #
G-6-TA-XXX-4-XXX
- 48"L x 36"W x 2.4"H
- Weight: 36 LBS

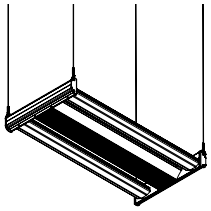
6 Bar
3 Channel



Mounting Options

Cable Mount

4-point cable mount

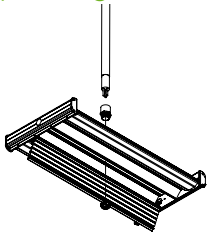


Part Numbers:
4P10S, 4P20S

Description:
- "10" and "20" represents length in feet
- "S" in part number denotes natatorium-grade 316 stainless-steel, recommended for natatoriums and other caustic environments

Stem Mount

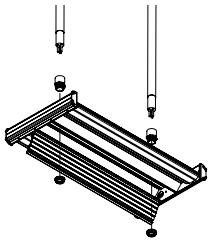
1-point rigid stem mount



Part Numbers:
MH1S

Description:
- 3/4" IP threaded hub to mount to 3/4" conduit or stem (other hub diameters available, contact factory for options)
- "S" in part number denotes natatorium-grade 316 stainless-steel, recommended for natatoriums and other caustic environments
- Stem/threaded rod not provided
- Not available on all models and options
- Power feed may be routed through stem or through fixture's endcap

2-point rigid stem mount

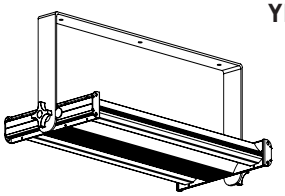


Part Numbers:
MH2S

Description:
- 3/4" IP threaded hub to mount to 3/4" conduit or stem (other hub diameters available, contact factory for options)
- "S" in part number denotes natatorium-grade 316 stainless-steel, recommended for natatoriums and other caustic environments
- Stem/threaded rod not provided
- Not available on all models and options
- Power feed may be routed through stem or through fixture's endcap

Yoke Mount

Yoke Mount

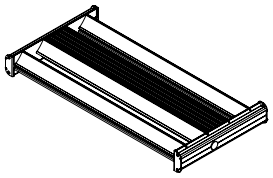


Part Number:
YKx ("x" to change based on fixture)

Description:
- Adjustable yoke mount allows for ceiling or wall mounting
- Power cord ordered separately
- Yoke mount is installed on the fixture before shipping
- Hardware to secure mount to structural surface NOT provided

Surface Mount

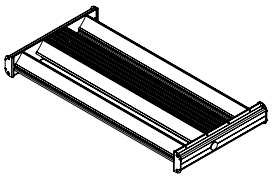
Surface mounting (no additional hardware or mounting holes supplied)



Part Number:
SM

Description:
- Fixture may be anchored flush to any suitable substrate through electronics channel
- No additional hanging hardware provided

Surface mount - 3/8" mounting holes supplied

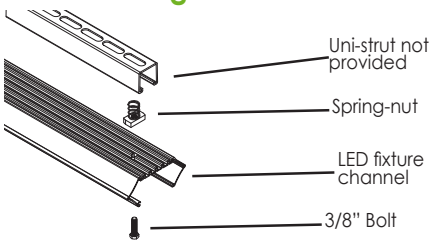


Part Number:
SMH

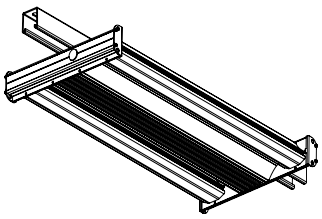
Description:
- Fixture may be anchored flush to any suitable substrate through electronics channel
- (2) 3/8" mounting holes provided per electronics channel, centered 2" from the end of the aluminum extrusion

Uni-strut Mount

Uni-strut mounting detail



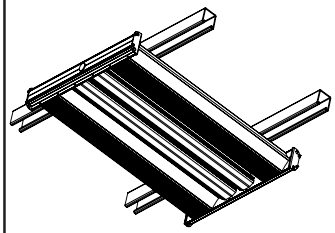
2-point Unistrut hardware



Part Number: **UM2**

Description:
- Unistrut hardware includes (2) sets of 3/8" diameter spring-nuts, bolts, mounting holes provided
- (2) 3/8" mounting holes provided per electronics channel, centered 2" from the end of the aluminum extrusion

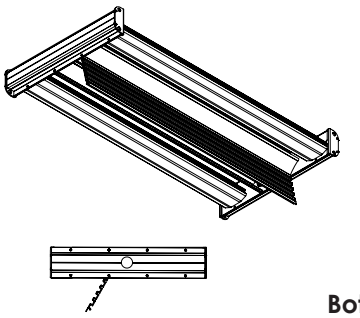
4-point Unistrut hardware



Part Number: **UM4**

Description:
- Unistrut hardware includes (4) sets of 3/8" diameter spring-nuts, bolts, mounting holes provided
- (4) 3/8" mounting holes provided per electronics channel, centered 2" from the end of the aluminum extrusion

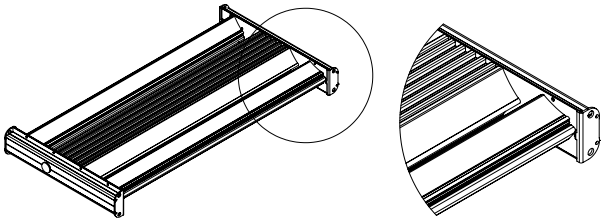
Electronics Channel Access



Bottom Access: channels open from below the fixture. The driver chamber is accessed from above the installer.
To specify "Bottom Access", use part number: **"B"**

Bottom access required for wet location

Independently Rotatable LED Bars



Rotatable Bars: Each LED bar can be rotated independently in manufacturing process or in the field. Contact Factory for more options.

To specify "Rotatable Bars", add part number: **"R"**