



Date: \_\_\_\_\_ Type: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Project: \_\_\_\_\_

# SkyRibbon

## IntelliHue Wall Grazing Powercore, 10° × 60° spread lens

Recessed linear interior LED wall grazing fixture with intelligent white and color light

Introducing SkyRibbon IntelliHue Wall Grazing Powercore, a recessed linear interior LED wall grazing fixture offering high-quality intelligent color and white light from the same fixture. IntelliHue is an advanced approach to color mixing that gives users the ability to precisely target a full spectrum of saturated color and high-quality white light, granting an unprecedented level of design freedom. Brilliant light output and industry-leading controls make fixtures ideal for a variety of interior wall grazing applications. Multiple housing options accommodate a number of installation methods.

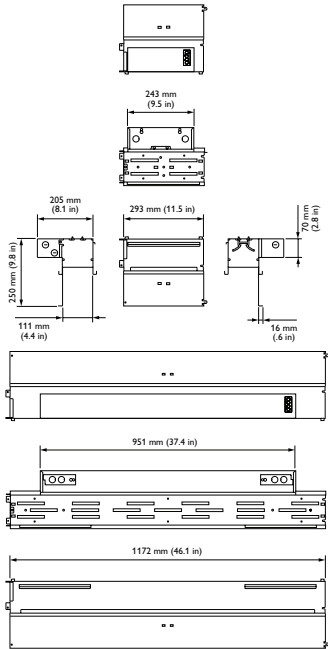
- Color-changing and high-quality white light from the same fixture — IntelliHue is an advanced approach to color mixing that enables high-quality intelligent color and white light from a single fixture. Multiple channels of LED light sources combine to produce a full spectrum of precisely controllable light, including millions of saturated colors, pastels, and uniform white light with CRI of greater than 85 in the 2700 K – 4000 K range.
- Tunable white light — Select color temperatures from 2000 K – 10,000 K with CRI greater than 85 in the 2700 K – 4000 K range.
- Purposefully move off the Black Body Curve — Create pastels and shades of white to match hues of other technologies, such as halogen or fluorescent.
- High-quality illumination in a variety of beam angles — Native 10° × 10° beam angle. Holographic diffusion lenses offer additional 10° × 60°, 10° × 90°, 30° × 30°, and 30° × 60° beam angle options for design flexibility.
- Multiple housing options for installation and mounting flexibility — T-Bar, Slotted-T, Flanged, and Flangeless housings support numerous installation methods and appearances.
- Flexible configuration — Available in 1 ft and 4 ft fixture lengths with multiple jumper cable, corner terminal, and connector options to accommodate nearly any layout.
- Integrates patented Powercore technology — Powercore rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage. Philips Data Enabler Pro merges line voltage and control data and delivers them to fixtures over a single standard cable, dramatically simplifying installation and lowering total system cost.
- Superior color consistency and accuracy — Optibin, an advanced binning algorithm, sets a new standard for the color consistency and uniformity of LED sources used in manufacturing. Chromasync technology achieves unprecedented consistency of light performance and color precision while maximizing intensity and color range. With Chromasync enabled, SkyRibbon IntelliHue Powercore offers color variation of less than 2 MacAdam ellipses (2 SDCM) across multiple fixtures in an installation — imperceptible to the human eye.
- Industry-leading controls — Fixtures work seamlessly with the complete Philips Color Kinetics line of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, as well as third-party controllers.
- Three voltage options — Available 120 VAC, 220 – 240 VAC, and 277 VAC fixtures ensure consistent operation in a number of major international regions.

For detailed product information, please refer to SkyRibbon IntelliHue Wall Grazing Powercore Product Guide at [www.philipscolorkinetics.com/ls/intellihue/skyribbon-wall-grazing/](http://www.philipscolorkinetics.com/ls/intellihue/skyribbon-wall-grazing/)

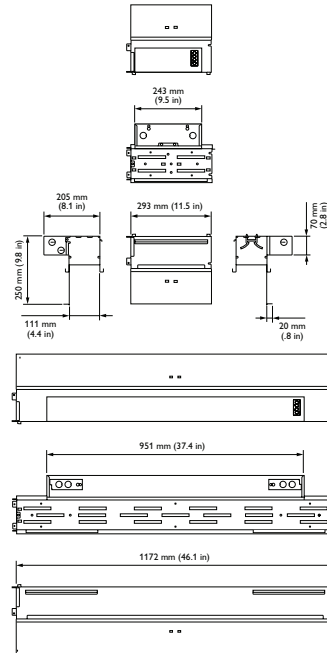
# PHILIPS

# CE Dimensional Diagrams

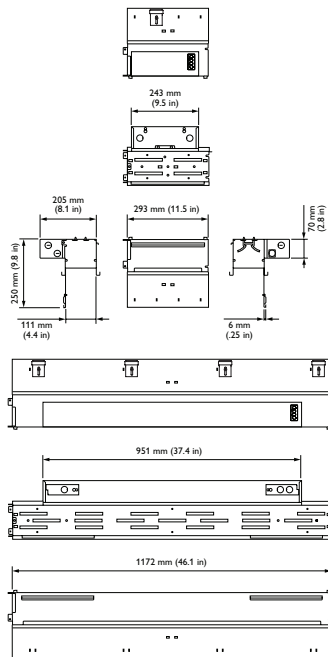
## SkyRibbon Wall Grazing Powercore Flanged Housing, 220 – 240 VAC



## SkyRibbon Wall Grazing Powercore Flangeless Housing, 220 – 240 VAC

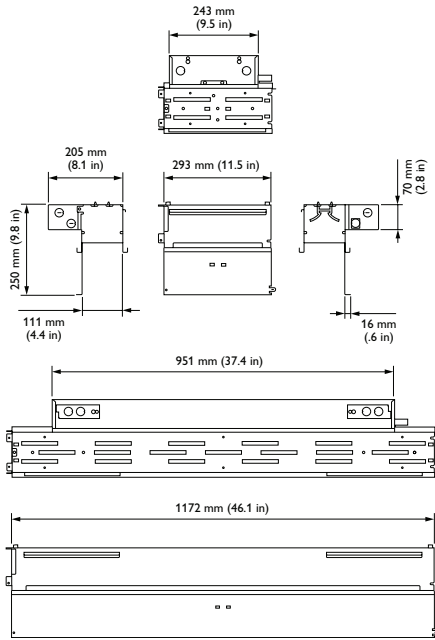


## SkyRibbon Wall Grazing Powercore T-Bar / Slotted-T Housing, 220 – 240 VAC

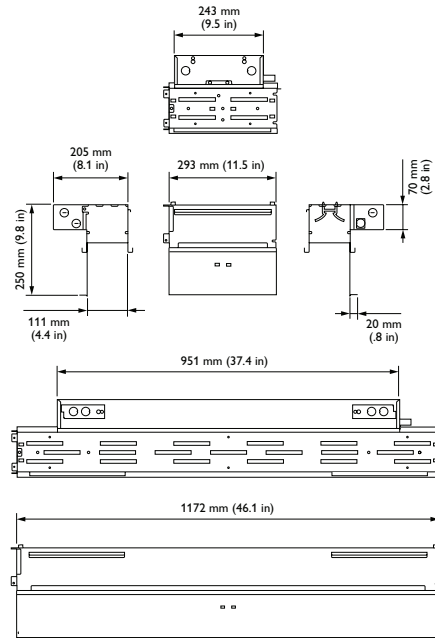


# UL Dimensional Diagrams

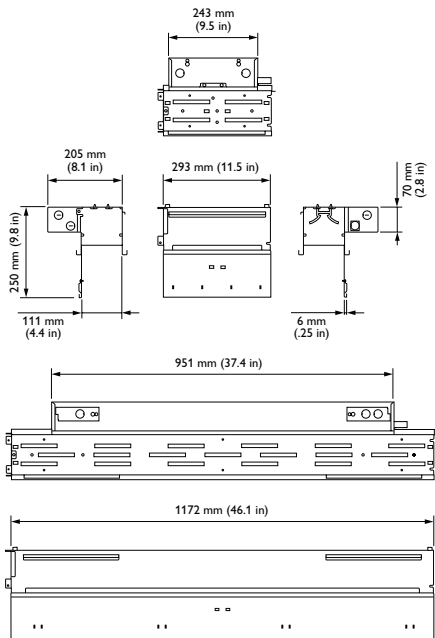
## SkyRibbon Wall Grazing Powercore Flanged Housing, 120 VAC / 277 VAC



## SkyRibbon Wall Grazing Powercore Flangeless Housing, 120 VAC / 277 VAC



## SkyRibbon Wall Grazing Powercore T-Bar / Slotted-T Housing, 120 VAC / 277 VAC



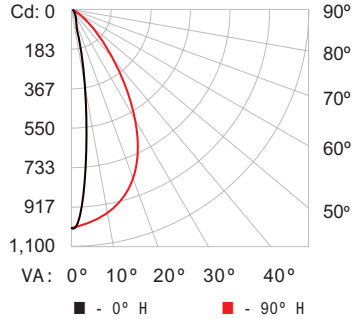
# Photometrics / SkyRibbon IntelliHue Wall Grazing Powercore, 10° x 60° spread lens

Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at [www.philipscolorkinetics.com/support/ies](http://www.philipscolorkinetics.com/support/ies).

## RGB channels only, full on

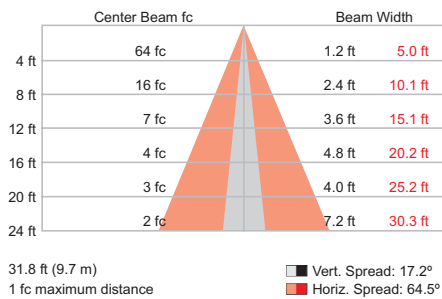
Lumens	Efficacy
447	24.6 lm / W

### Polar Candela Distribution



	0	25	45	70	90
0	1012	1012	1012	1012	1012
5	786	803	867	957	1000
15	156	193	318	680	913
25	60	65	92	352	725
35	49	51	55	148	447
45	36	40	45	66	195
55	26	29	36	41	69
65	19	21	25	27	31
75	11	12	15	16	14
85	9	9	7	6	3
90	9	8	7	4	1

### Illuminance at Distance



31.8 ft (9.7 m) 1 fc maximum distance  
 Vert. Spread: 17.2°  
 Horiz. Spread: 64.5°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																
	80				70				50				30				10
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	0	50	30	20	0
RCR:	0	119	119	119	119	119	119	119	110	110	110	110	110	105	105	105	101

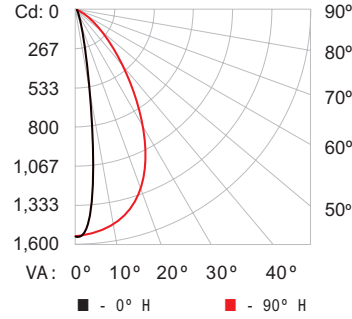
### Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	412.7	92.3 %
60 - 90	28.2	6.3 %
0 - 90	440.9	98.6 %
90 - 180	6.1	1.4 %
0 - 180	447.0	100 %

## 2700 K

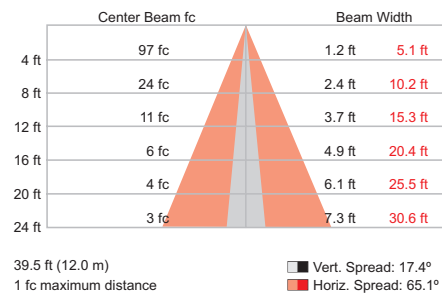
Lumens	Efficacy
704	39.9 lm / W

### Polar Candela Distribution



	0	25	45	70	90
0	1553	1553	1553	1553	1553
5	1185	1224	1319	1460	1530
15	245	304	491	1036	1398
25	96	104	147	542	1118
35	76	80	88	233	703
45	56	63	71	108	315
55	40	45	56	66	113
65	28	32	40	44	49
75	17	19	24	25	23
85	14	13	11	9	5
90	13	12	10	6	1

### Illuminance at Distance



39.5 ft (12.0 m) 1 fc maximum distance  
 Vert. Spread: 17.4°  
 Horiz. Spread: 65.1°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																
	80				70				50				30				10
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	0	50	30	20	0
RCR:	0	119	119	119	119	119	119	119	110	110	110	110	110	105	105	105	101

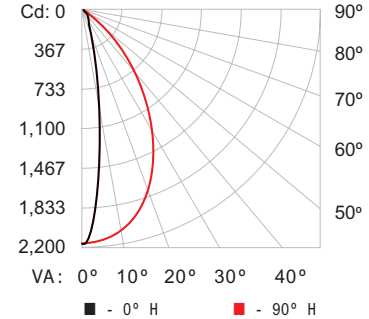
### Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	648.3	92.1 %
60 - 90	45.3	6.4 %
0 - 90	693.6	98.5 %
90 - 180	10.4	1.5 %
0 - 180	704.0	100 %

## 4000 K

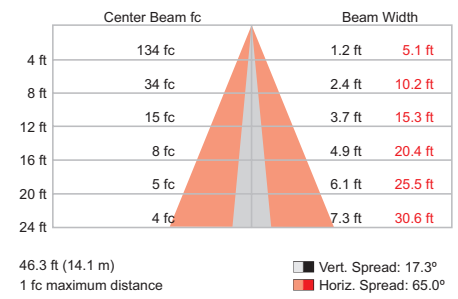
Lumens	Efficacy
923	40.8 lm / W

### Polar Candela Distribution



	0	25	45	70	90
0	2151	2151	2151	2151	2151
5	1660	1703	1833	2030	2122
15	341	422	684	1446	1942
25	133	144	204	758	1554
35	105	110	122	326	976
45	78	87	98	150	435
55	55	63	77	91	155
65	39	44	55	60	68
75	23	26	33	35	32
85	19	18	16	12	7
90	18	17	14	8	1

### Illuminance at Distance



46.3 ft (14.1 m) 1 fc maximum distance  
 Vert. Spread: 17.3°  
 Horiz. Spread: 65.0°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																
	80				70				50				30				10
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	0	50	30	20	0
RCR:	0	119	119	119	119	119	119	119	110	110	110	110	110	105	105	105	101

### Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	8963	921 %
60 - 90	623	64 %
0 - 90	9586	986 %
90 - 180	141	14 %
0 - 180	9727	100 %

For lux multiply fc by 10.7

# Specifications / SkyRibbon IntelliHue Wall Grazing Powercore, .3 m (1 ft)

Due to continuous improvements and innovations, specifications may change without notice

Item	Specification	RGB channels only, full on	2700 K*	4000 K*
Output	Beam Angle	10° x 60°		
	Lumens†	447	704	973
	Efficacy (lm / W)	24.6	39.9	40.8
	CRI	—		
	Power Factor	.82	.81	.88
	LED Channels	Red / Green / Blue / Mint White / 4000 K		
	Lumen Maintenance‡	60,000 hours L70 @ 25° C 50,000 hours L70 @ 40° C 100,000 hours L50 @ 25° C 80,000 hours L50 @ 40° C		
Electrical	Input Voltage	120 VAC, 220 — 240 VAC, 277 VAC, 50 / 60 Hz		
	Power Consumption	25 W (0.3 m / 1 ft 120 / 277 VAC) 100 W (1.2 m / 4 ft 120 / 277 VAC) 23 W (0.3 m / 1 ft 220 — 240 VAC) 90 W (1.2 m / 4 ft 220 — 240 VAC)		
Control	Interface	Data Enabler Pro (DMX / Ethernet)		
	Control System	Philips Color Kinetics full range of controllers, including Light System Manager and iPlayer 3, or third-party controllers		
Physical	Housing Material	Steel, white powder-coated finish		
	Lens	Polycarbonate		
	Fixture Connections	178 mm (7 in) flying leads, integral male / female connectors (120 / 277 VAC) Wieland integral male / female connectors (220 — 240 VAC)		
	Temperature Ranges	-20° – 40° C (-4° – 104° F) Operating -20° – 40° C (-4° – 104° F) Startup -40° – 80° C (-40° – 176° F) Storage		
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from <a href="http://www.philipscolorkinetics.com/support/install_tool/">www.philipscolorkinetics.com/support/install_tool/</a>		
	Humidity	0 – 95%, non-condensing		
Certification and Safety	Certification	UL / cUL, FCC Class A, CE		
	Environment	Dry / Damp Location, IP20		

\* Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.377A.

† Lumen measurement complies with IES LM-79-08 testing procedures.



‡ L70 = 70% lumen maintenance (when light output drops below 70% of initial output).

L50 = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to [www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf](http://www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf) for more information.

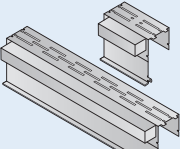
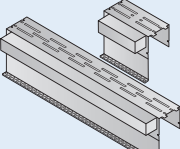
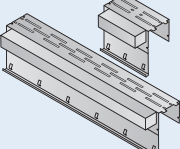
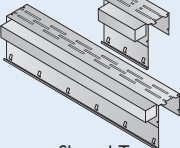
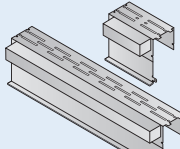
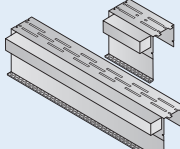
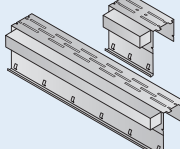
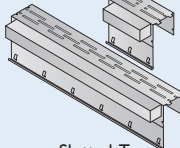
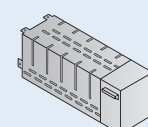

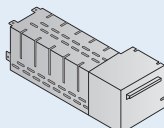
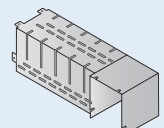
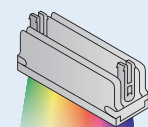
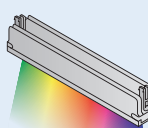
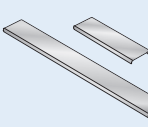
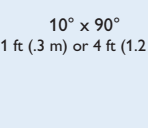
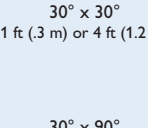
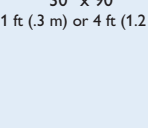
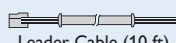
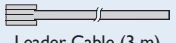
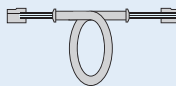
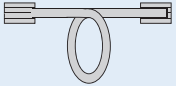
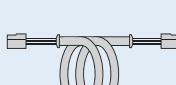
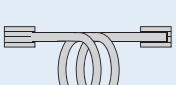
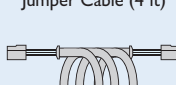
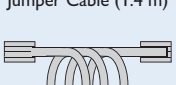
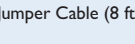
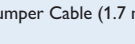
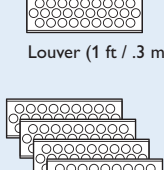
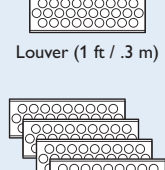
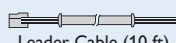
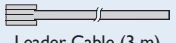
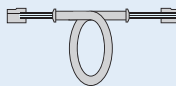
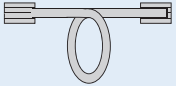
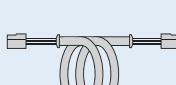
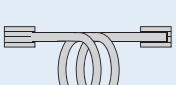
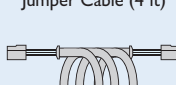
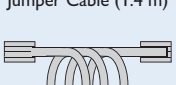
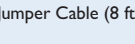
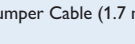
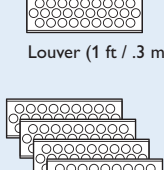
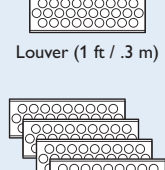
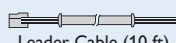
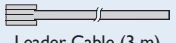
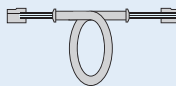
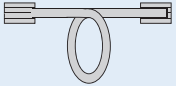
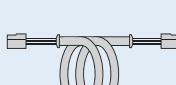
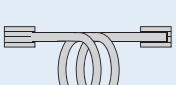
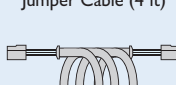
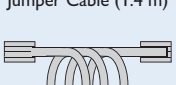
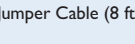
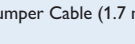
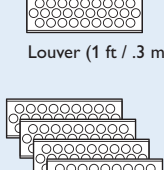
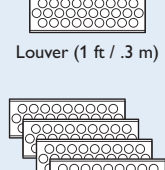
## Dimensions and Weight

Fixture	Physical Characteristics	T-Bar / Slotted-T	Flanged	Flangeless
.3 m (1 ft)	Housing Dimensions <i>Height x Width x Depth</i>	251 x 293 x 205 mm (9.9 x 11.5 x 8.1 in)	251 x 293 x 205 mm (9.9 x 11.5 x 8.1 in)	251 x 293 x 205 mm (9.9 x 11.5 x 8.1 in)
	Assembled Weight†	3.3 kg (7.3 lbs)	3.3 kg (7.3 lbs)	3.3 kg (7.3 lbs)
1.2 m (4 ft)	Housing Dimensions <i>Height x Width x Depth</i>	251 x 1172 x 205 mm (9.9 x 46.1 x 8.1 in)	251 x 1172 x 205 mm (9.9 x 46.1 x 8.1 in)	251 x 1172 x 205 mm (9.9 x 46.1 x 8.1 in)
	Assembled Weight†	11.4 kg (25.1 lb)	11.4 kg (25.1 lb)	11.4 kg (25.1 lb)

† Assembled weight includes fixture housing and LED module.

# Product Selection

To order a complete SkyRibbon IntelliHue Wall Grazing Powercore fixture, choose a housing (voltage, length, and type), an optional spread lens, an optional accessories.

1 Choose housing type	2 Choose terminal housing and optional corners	3 Choose LED Module	4 Choose optional spread lens	5 Choose accessories															
<p><b>120 VAC or 277 VAC</b></p>  <p>Flanged 1 ft (.3 m) or 4 ft (1.2 m)</p>  <p>Flangeless 1 ft (.3 m) or 4 ft (1.2 m)</p>  <p>T-Bar 1 ft (.3 m) or 4 ft (1.2 m)</p>  <p>Slotted-T 1 ft (.3 m) or 4 ft (1.2 m)</p>	<p><b>220 – 240 VAC</b></p>  <p>Flanged 1 ft (.3 m) or 4 ft (1.2 m)</p>  <p>Flangeless 1 ft (.3 m) or 4 ft (1.2 m)</p>  <p>T-Bar 1 ft (.3 m) or 4 ft (1.2 m)</p>  <p>Slotted-T 1 ft (.3 m) or 4 ft (1.2 m)</p>	<p>Terminal</p>  <p>Joiner Plate (to terminate run)</p>  <p>Inside Corner</p>  <p>Outside Corner</p> 	 <p>(1 ft / .3 m)</p>  <p>(4 ft / 1.2 m)</p>	 <p>10° x 60° 1 ft (.3 m) or 4 ft (1.2 m)</p>  <p>10° x 90° 1 ft (.3 m) or 4 ft (1.2 m)</p>  <p>30° x 30° 1 ft (.3 m) or 4 ft (1.2 m)</p>  <p>30° x 90° 1 ft (.3 m) or 4 ft (1.2 m)</p>	<table border="1"> <thead> <tr> <th data-bbox="1130 331 1333 1281">120 VAC / 277 VAC</th> <th data-bbox="1333 331 1534 1281">220 – 240 VAC</th> </tr> </thead> <tbody> <tr> <td data-bbox="1136 378 1326 441">  <p>Leader Cable (10 ft)</p> </td> <td data-bbox="1339 378 1513 441">  <p>Leader Cable (3 m)</p> </td> </tr> <tr> <td data-bbox="1136 462 1326 567">  <p>Jumper Cable (1 ft)</p> </td> <td data-bbox="1339 462 1513 567">  <p>Jumper Cable (0.9 m)</p> </td> </tr> <tr> <td data-bbox="1136 588 1326 693">  <p>Jumper Cable (4 ft)</p> </td> <td data-bbox="1339 588 1513 693">  <p>Jumper Cable (1.4 m)</p> </td> </tr> <tr> <td data-bbox="1136 714 1326 819">  <p>Jumper Cable (8 ft)</p> </td> <td data-bbox="1339 714 1513 819">  <p>Jumper Cable (1.7 m)</p> </td> </tr> <tr> <td data-bbox="1136 840 1326 903">  <p>Louver (1 ft / .3 m)</p> </td> <td data-bbox="1339 840 1513 903">  <p>Louver (1 ft / .3 m)</p> </td> </tr> <tr> <td data-bbox="1136 924 1326 1113">  <p>Louver Kit (4 ft / 1.2 m)</p> </td> <td data-bbox="1339 924 1513 1113">  <p>Louver Kit (4 ft / 1.2 m)</p> </td> </tr> </tbody> </table>	120 VAC / 277 VAC	220 – 240 VAC	 <p>Leader Cable (10 ft)</p>	 <p>Leader Cable (3 m)</p>	 <p>Jumper Cable (1 ft)</p>	 <p>Jumper Cable (0.9 m)</p>	 <p>Jumper Cable (4 ft)</p>	 <p>Jumper Cable (1.4 m)</p>	 <p>Jumper Cable (8 ft)</p>	 <p>Jumper Cable (1.7 m)</p>	 <p>Louver (1 ft / .3 m)</p>	 <p>Louver (1 ft / .3 m)</p>	 <p>Louver Kit (4 ft / 1.2 m)</p>	 <p>Louver Kit (4 ft / 1.2 m)</p>
120 VAC / 277 VAC	220 – 240 VAC																		
 <p>Leader Cable (10 ft)</p>	 <p>Leader Cable (3 m)</p>																		
 <p>Jumper Cable (1 ft)</p>	 <p>Jumper Cable (0.9 m)</p>																		
 <p>Jumper Cable (4 ft)</p>	 <p>Jumper Cable (1.4 m)</p>																		
 <p>Jumper Cable (8 ft)</p>	 <p>Jumper Cable (1.7 m)</p>																		
 <p>Louver (1 ft / .3 m)</p>	 <p>Louver (1 ft / .3 m)</p>																		
 <p>Louver Kit (4 ft / 1.2 m)</p>	 <p>Louver Kit (4 ft / 1.2 m)</p>																		

For 220—240 VAC installations, you must use leader and jumper cables.

For 120 / 277 VAC installations, you can either use leader and jumper cables or hardwire the fixtures. When hardwiring, the fixture acts as a junction box.

## Housing and Terminal Options

Item	Style	Length	Voltage	Item Number	Philips 12NC
Housing	Flanged	300 mm	220–240 VAC	172-000073-31	910503704347
		1200 mm	220–240 VAC	172-000073-29	910503704345
		1 ft	120 VAC	172-000073-10	910503704326
			277 VAC	172-000073-22	910503704338
		4 ft	120 VAC	172-000073-07	910503704323
			277 VAC	172-000073-19	910503704335
	Flangeless	300 mm	220–240 VAC	172-000073-42	910503705013
		1200 mm	220–240 VAC	172-000073-44	910503705015
		1 ft	120 VAC	172-000073-11	910503704327
			277 VAC	172-000073-23	910503704339
		4 ft	120 VAC	172-000073-08	910503704324
			277 VAC	172-000073-20	910503704336
	T-Bar / Slotted-T	300 mm	220–240 VAC	172-000073-30	910503704346
		1200 mm	220–240 VAC	172-000073-28	910503704344
		1 ft	120 VAC	172-000073-09	910503704325
			277 VAC	172-000073-21	910503704337
		4 ft	120 VAC	172-000073-06	910503704322
			277 VAC	172-000073-18	910503704334
Inside 90° Corner	Flanged		172-000073-33	910503704357	
	Flangeless		172-000073-34	910503704358	
	T-Bar / Slotted-T		172-000073-32	910503704356	
Outside 90° Corner	Flanged		172-000073-36	910503704360	
	Flangeless		172-000073-37	910503704361	
	T-Bar / Slotted-T		172-000073-35	910503704359	
Terminal Housing	Flanged		172-000073-39	910503704989	
	Flangeless		172-000073-40	910503704990	
	T-Bar / Slotted-T		172-000073-38	910503704988	
Joiner Plate	Compatible with All Housing Versions		172-000073-63	912400133612	

Use Item Number when ordering in North America.

## LED Modules, Spread Lenses, and Louvers

Item	Length	Details	Item Number	Philips 12NC
LED Modules	300 mm / 1 ft	IntelliHue	123-000073-00	910503702669
	1200 mm / 4 ft	IntelliHue	123-000073-01	910503702670
Spread lens	300 mm / 1 ft	10° x 60°	120-000173-02	910503704574
	300 mm / 1 ft	10° x 90°	120-000173-01	910503704573
	300 mm / 1 ft	30° x 30°	120-000173-03	910503704575
	300 mm / 1 ft	30° x 60°	120-000173-04	910503704576
	1200 mm / 4 ft	10° x 60°	120-000173-07	910503704579
	1200 mm / 4 ft	10° x 90°	120-000173-14	912400130391
	1200 mm / 4 ft	30° x 30°	120-000173-08	910503704580
	1200 mm / 4 ft	30° x 60°	120-000173-09	910503704581
Louver	300 mm / 1 ft		120-000173-05	910503704577
	1200 mm / 4 ft		120-000173-13	910503705054

Use Item Number when ordering in North America.

## Leader and Jumper Cables

Item	Length	Voltage	Item Number	Philips 12NC
Leader Cable	3 m	220–240 VAC	108-000072-14	910503705048
	10 ft	120 / 277 VAC	108-000072-04	910503703985
Jumper Cable	0.9 m	220–240 VAC	108-000072-15	910503705049
	1.4 m	220–240 VAC	108-000072-16	910503705050
	1.7 m	220–240 VAC	108-000072-17	910503705051
	1 ft	120 / 277 VAC	108-000072-00	910503702835
	4 ft	120 / 277 VAC	108-000072-01	910503702836
	8 ft	120 / 277 VAC	108-000072-02	910503702837

Use Item Number when ordering in North America.





Philips Color Kinetics  
3 Burlington Woods Drive  
Burlington, Massachusetts 01803 USA  
Tel 888.385.5742  
Tel 617.423.9999  
Fax 617.423.9998  
[www.philipscolorkinetics.com](http://www.philipscolorkinetics.com)

Copyright © 2014–2015 Philips Solid-State Lighting Solutions, Inc. All rights reserved. Chromacore, Chromasic, CK, the CK logo, Color Kinetics, the Color Kinetics logo, ColorBlast, ColorBlaze, ColorBurst, eW Fuse, ColorGraze, ColorPlay, ColorReach, iW Reach, eW Reach, DIMand, EssentialWhite, eW, iColor; iColor Cove, IntelliWhite, iW, iPlayer, Optibin, and Powercore are either registered trademarks or trademarks of Philips Solid-State Lighting Solutions, Inc. in the United States and / or other countries. All other brand or product names are trademarks or registered trademarks of their respective owners. Due to continuous improvements and innovations, specifications may change without notice. DAS-000124-02 R04 03-15