



# PureStyle IntelliHue Powercore

Premium concealed interior linear LED luminaire with intelligent white and color light



# PureStyle IntelliHue Powercore

## Premium concealed interior linear LED luminaire with intelligent white and color light

Innovative PureStyle Powercore luminaires bring lighting professionals high output in a compact, easily concealed luminaire. PureStyle delivers exceptionally high-quality light for a wide range of interior applications from cove to wall-washing to backlighting and beyond. Here are just some of the powerful advantages that PureStyle brings to lighting professionals and their clients.

- **Unbeatable Performance**—Major innovations, including a unique optical cluster, enable PureStyle to deliver up to 95 CRI, outputs of up to 800 lumens per foot, and color temperatures that range from 2000 K to 10000 K—all with superior beam quality that delivers bright, smooth light.
- **Innovative Design**—With its compact size and an extremely short mixing distance, PureStyle can excel in areas where traditional linear luminaires are impractical. It's available in 305 mm (1 ft) and 1219 mm (4 ft) extruded anodized aluminium housings, as well as a range of beam angles—including wide (100° x 100°), medium (30° x 60°), and narrow (10° by 60°). Interlocking connectors ensure end-to-end installation without visible light scalloping between luminaires—just pure, seamless light.
- **Superior Color Consistency**—Improves color consistency between all LED luminaires in a family with Chromasync technology. During the manufacturing process a calibrated light measurement device creates an algorithm to define a common color gamut for an entire family of LED luminaires. When Chromasync is enabled, color consistency between luminaires is achieved without having to manually adjust color points on each luminaire.
- **White and Color Light**—PureStyle combines tunable white and dynamic color light in one innovative, high-performance luminaire that's easy to install and control.
- **High R9 Values**—PureStyle delivers R9 values that can reach up to 81. Saturated red light gives objects and surfaces a vibrant and rich color that is ideal for spaces where ambience is important.
- **Industry-Leading Controls**—PureStyle luminaires work seamlessly with the complete Philips Color Kinetics line of controllers, including iPlayer 3, Light System Manager, and ColorDial Pro—as well as third-party controllers.
- **Higher Efficiency, Lower Cost**—All PureStyle luminaires integrate Powercore technology, which controls power output to luminaires directly from line voltage—rapidly, efficiently, and accurately. The Philips Color Kinetics Data Enabler Pro merges line voltage with control, and delivers them to the luminaire over a single standard cable—simplifying installation dramatically and lowering total system cost.
- **Easy Installation**—PureStyle luminaires accept power input of 100 to 277 VAC for consistent installation anywhere in the world. Powercore allows long runs and eliminates the need for special wiring and external power supplies. For example, special connectors enable PureStyle luminaires to be connected directly (using jumper cables) with leader cables or with the terminator.



### Flexible mounting and positioning

The PureStyle end-to-end locking power connectors can make 180° turns, making these compact luminaires easy to position in even the most challenging mounting scenarios. 305 mm (1 ft) and 1.5 m (5 ft) jumper cables can add extra space between luminaires.

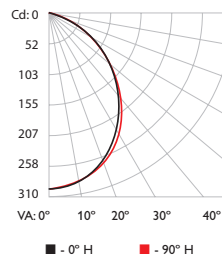
Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at [www.philipscolorkinetics.com/support/ies](http://www.philipscolorkinetics.com/support/ies).

PureStyle IntelliHue Powercore  
2700 K

1 ft, 100° x 100° (wide) beam angle

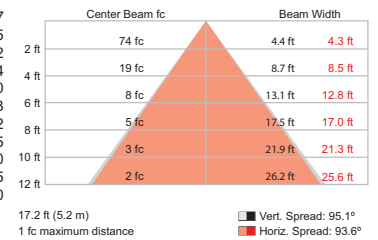
Lumens	Efficacy	CRI*	CRI R9*
710	54.7	92.9	84.2

### Polar Candela Distribution



90°	297	297	297	297	297
	292	294	293	293	295
80°	278	280	281	282	282
	248	250	254	257	254
70°	205	214	216	214	220
	157	162	163	163	163
60°	107	110	111	111	112
	66	68	68	66	65
	35	35	34	31	30
50°	13	12	10	7	5
	7	7	4	1	0

## Illuminance at Distance



## Zonal Lumen

Zone	Lumens	% Luminaire
0-30	223.7	31.5%
0-40	356.5	50.2%
0-60	581.2	81.9%
0-90	694.9	97.9%
60-90	113.7	16.0%
70-100	50.8	7.2%
90-120	9.6	1.4%
90-180	14.8	2.1%
0-180	709.8	100.0%

### Coefficients Of Utilization - Zonal Cavity Method

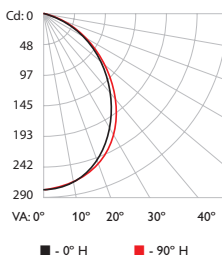
Effective Floor Cavity Reflectance: 20%																					
RC %:	80				70				50				30				10				0
RW	%: 70	50	30	0	%: 70	50	30	0	%: 50	30	20	10	0	%: 50	30	20	10	0			
RCR:																					
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.08	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98			
1	1.09	1.05	1.01	0.97	1.06	1.02	0.99	0.84	0.98	0.95	0.92	0.93	0.91	0.89	0.89	0.88	0.86	0.84			
2	1.00	0.92	0.86	0.80	0.97	0.90	0.84	0.72	0.86	0.81	0.77	0.83	0.78	0.75	0.79	0.76	0.73	0.71			
3	0.92	0.82	0.74	0.68	0.89	0.80	0.73	0.62	0.77	0.71	0.66	0.74	0.69	0.64	0.71	0.67	0.63	0.61			
4	0.84	0.73	0.65	0.58	0.82	0.72	0.64	0.54	0.69	0.62	0.57	0.68	0.60	0.56	0.64	0.59	0.55	0.53			
5	0.78	0.66	0.57	0.51	0.76	0.64	0.56	0.48	0.62	0.55	0.50	0.60	0.54	0.49	0.58	0.53	0.48	0.46			
6	0.72	0.59	0.51	0.45	0.70	0.58	0.50	0.43	0.56	0.50	0.44	0.54	0.47	0.43	0.52	0.47	0.42	0.41			
7	0.67	0.54	0.46	0.40	0.65	0.53	0.45	0.38	0.51	0.44	0.39	0.50	0.43	0.39	0.48	0.43	0.38	0.36			
8	0.63	0.50	0.41	0.36	0.61	0.49	0.41	0.34	0.47	0.40	0.35	0.46	0.40	0.35	0.45	0.39	0.35	0.33			
9	0.59	0.46	0.38	0.32	0.57	0.45	0.37	0.31	0.44	0.37	0.32	0.42	0.36	0.32	0.41	0.36	0.31	0.29			
10	0.55	0.42	0.35	0.29	0.54	0.42	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.38	0.33	0.29	0.27			

## PureStyle IntelliHue Powercore 4000 K

1 ft, 100° x 100° (wide) beam angle

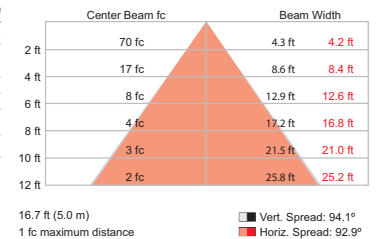
Lumens	Efficacy	CRI*	CRI R9*
661.1	54.7	93.8	70

### Polar Candela Distribution



90°	0	279	279	279	279	279
	5	275	278	276	276	276
80°	15	260	265	265	266	266
	25	231	235	239	241	241
70°	35	192	197	200	202	202
	45	146	152	152	151	151
	55	100	104	104	104	104
60°	65	61	63	63	61	61
	75	32	32	31	29	29
	85	12	11	9	6	6
50°	90	7	6	4	1	1

## Illuminance at Distance



## Zonal Lumen

Zone	Lumens	% Luminaire
0-30	210.3	31.8%
0-40	334.4	50.5%
0-60	543.3	82.1%
0-90	648.4	98.0%
60-90	105.0	15.9%
70-100	46.7	7.1%
90-120	8.6	1.3%
90-180	13.2	2.0%
0-180	661.5	100.0%

### Coefficients Of Utilization - Zonal Cavity Method

RCR %:	80				70				Effective Flow				Cavity Reflectance:				20%			
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	50	30	20	0	50	30	20	0
RCR:																				
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.08	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96
1	1.09	1.05	1.01	0.97	1.06	1.02	0.99	0.84	0.98	0.95	0.92	0.93	0.91	0.89	0.90	0.88	0.86	0.84	0.81	0.81
2	1.00	0.92	0.86	0.81	0.97	0.90	0.84	0.72	0.86	0.82	0.77	0.83	0.79	0.75	0.80	0.76	0.73	0.71	0.71	0.71
3	0.92	0.82	0.74	0.68	0.89	0.80	0.73	0.63	0.77	0.71	0.66	0.74	0.69	0.65	0.71	0.67	0.63	0.61	0.61	0.61
4	0.84	0.73	0.65	0.58	0.82	0.72	0.64	0.55	0.69	0.62	0.57	0.66	0.61	0.56	0.64	0.59	0.55	0.53	0.53	0.53
5	0.78	0.66	0.57	0.51	0.76	0.65	0.57	0.48	0.62	0.56	0.50	0.60	0.54	0.49	0.58	0.52	0.48	0.46	0.46	0.46
6	0.72	0.60	0.51	0.45	0.70	0.58	0.50	0.43	0.57	0.49	0.44	0.55	0.48	0.44	0.53	0.47	0.43	0.41	0.41	0.41
7	0.67	0.54	0.46	0.40	0.65	0.53	0.45	0.38	0.52	0.45	0.39	0.50	0.44	0.39	0.49	0.43	0.39	0.37	0.37	0.37
8	0.63	0.50	0.41	0.36	0.61	0.49	0.41	0.35	0.47	0.40	0.35	0.46	0.40	0.35	0.45	0.39	0.35	0.33	0.33	0.33
9	0.60	0.46	0.38	0.33	0.58	0.46	0.38	0.32	0.44	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30	0.30	0.30
10	0.55	0.42	0.35	0.30	0.54	0.42	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.29	0.27	0.27	0.27

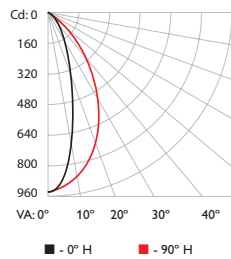
For lux multiply fc by 10.7

\* CRI refers to CRI  $R_a$  value, CRI R9 refers to R9 value in accordance with IESNA LM-79 standards.

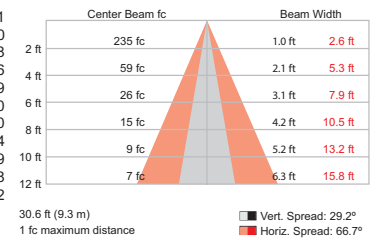
PureStyle IntelliHue Powercore  
2700 K  
1 ft, 30° x 60° (medium) beam angle

Lumens	Efficacy	CRI*	CRI R9*
748	60.6	92.7	76.2

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	424.1	56.7%
0-40	553.7	74.0%
0-60	683.7	91.4%
0-90	744.5	99.6%
60-90	60.8	8.1%
70-100	33.1	4.4%
90-120	3.3	0.4%
90-180	3.3	0.4%
0-180	747.8	100.0%

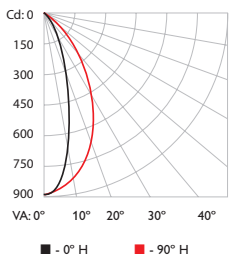
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%											
RCC %:		80				70				50			
RW %:		70	50	30	0	70	50	30	0	50	30	20	0
RCR:													
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06
1	1.12	1.08	1.05	1.02	1.09	1.06	1.03	0.90	1.02	0.99	0.97	0.98	0.96
2	1.05	0.99	0.94	0.89	1.02	0.97	0.92	0.81	0.93	0.89	0.86	0.90	0.87
3	0.98	0.90	0.84	0.79	0.96	0.89	0.83	0.74	0.86	0.81	0.77	0.83	0.79
4	0.92	0.83	0.77	0.72	0.90	0.82	0.76	0.68	0.80	0.74	0.70	0.78	0.73
5	0.87	0.77	0.70	0.65	0.85	0.76	0.70	0.63	0.74	0.69	0.64	0.72	0.67
6	0.82	0.72	0.65	0.60	0.80	0.71	0.64	0.58	0.69	0.64	0.59	0.68	0.63
7	0.78	0.67	0.60	0.55	0.76	0.66	0.60	0.54	0.65	0.59	0.55	0.64	0.58
8	0.74	0.63	0.56	0.52	0.72	0.62	0.56	0.51	0.61	0.55	0.51	0.60	0.55
9	0.70	0.59	0.53	0.48	0.69	0.59	0.52	0.47	0.58	0.52	0.48	0.57	0.51
10	0.67	0.56	0.50	0.45	0.65	0.55	0.49	0.45	0.55	0.49	0.45	0.54	0.48

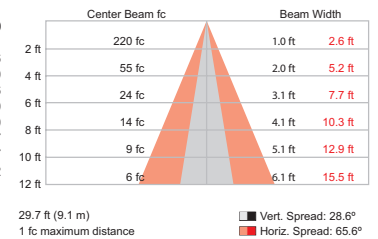
PureStyle IntelliHue Powercore  
4000 K  
1 ft, 30° x 60° (medium) beam angle

Lumens	Efficacy	CRI*	CRI R9*
689	61.4	90.7	57.8

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	393.0	57.1%
0-40	511.8	74.3%
0-60	630.1	91.5%
0-90	685.4	99.6%
60-90	55.3	8.0%
70-100	30.2	4.4%
90-120	3.1	0.4%
90-180	3.1	0.4%
0-180	688.5	100.0%

Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%											
RCC %:		80				70				50			
RW %:		70	50	30	0	70	50	30	0	50	30	20	0
RCR:													
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06
1	1.12	1.08	1.05	1.02	1.09	1.06	1.03	0.90	1.02	0.99	0.97	0.98	0.96
2	1.05	0.99	0.94	0.89	1.02	0.97	0.92	0.82	0.93	0.90	0.86	0.90	0.87
3	0.98	0.90	0.84	0.80	0.96	0.89	0.83	0.74	0.86	0.81	0.78	0.84	0.80
4	0.92	0.83	0.77	0.72	0.90	0.82	0.76	0.68	0.80	0.75	0.70	0.78	0.73
5	0.87	0.77	0.71	0.65	0.85	0.76	0.70	0.63	0.74	0.69	0.64	0.73	0.68
6	0.82	0.72	0.65	0.60	0.81	0.71	0.65	0.58	0.69	0.64	0.59	0.68	0.63
7	0.78	0.67	0.60	0.56	0.76	0.67	0.60	0.54	0.65	0.59	0.55	0.63	0.58
8	0.74	0.63	0.56	0.52	0.72	0.62	0.56	0.51	0.61	0.55	0.51	0.59	0.54
9	0.70	0.59	0.53	0.48	0.69	0.59	0.52	0.47	0.58	0.52	0.48	0.57	0.51
10	0.67	0.56	0.50	0.45	0.66	0.56	0.50	0.45	0.55	0.49	0.45	0.54	0.48

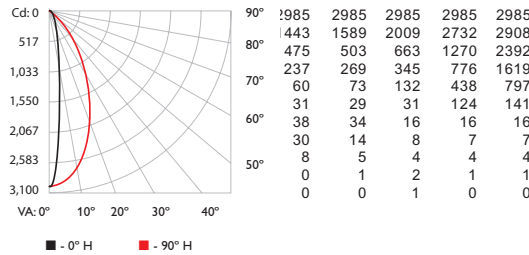
For lux multiply fc by 10.7

\* CRI refers to CRI <sub>R<sub>a</sub></sub> value, CRI R9 refers to R9 value in accordance with IESNA LM-79 standards.

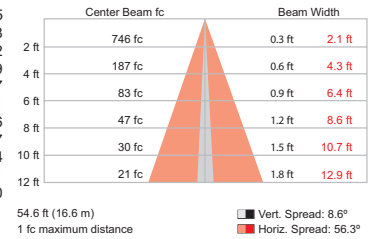
PureStyle IntelliHue Powercore  
2700 K  
1 ft, 10° x 60° (narrow) beam angle

Lumens	Efficacy	CRI*	CRI R9*
777	59.5	93.3	82

#### Polar Candela Distribution



#### Illuminance at Distance



#### Zonal Lumen

Zone	Lumens	% Luminaire
0-30	567.6	73.0%
0-40	689.9	88.8%
0-60	757.0	97.4%
0-90	776.9	100.0%
60-90	19.9	2.6%
70-100	7.9	1.0%
90-120	0.1	0.0%
90-180	0.1	0.0%
0-180	777.0	100.0%

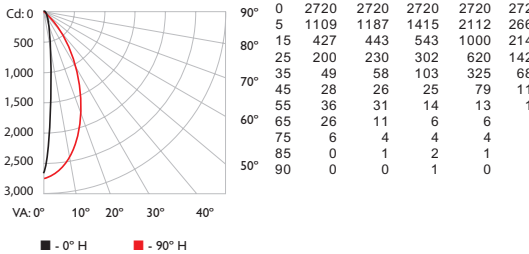
#### Coefficients Of Utilization - Zonal Cavity Method

RCC %:		80				70				50				30				10				0			
RW %:		70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0
Effective Floor Cavity Reflectance: 20%																									
RCR:																									
0	1.19	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00						
1	1.14	1.11	1.08	1.06		1.11	1.09	1.06	0.94	1.05	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.93						
2	1.08	1.03	0.99	0.96		1.06	1.02	0.98	0.88	0.98	0.95	0.93	0.95	0.93	0.91	0.93	0.91	0.89	0.87						
3	1.03	0.97	0.92	0.88		1.01	0.95	0.91	0.83	0.93	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.82						
4	0.98	0.91	0.85	0.81		0.96	0.90	0.85	0.78	0.88	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.77						
5	0.94	0.86	0.80	0.76		0.92	0.85	0.79	0.73	0.83	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.72						
6	0.89	0.81	0.75	0.71		0.88	0.80	0.75	0.69	0.79	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.68						
7	0.86	0.77	0.71	0.67		0.84	0.76	0.71	0.66	0.75	0.70	0.67	0.74	0.69	0.66	0.73	0.69	0.66	0.65						
8	0.82	0.73	0.67	0.64		0.81	0.72	0.67	0.62	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.61						
9	0.79	0.70	0.64	0.60		0.78	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.67	0.63	0.60	0.58						
10	0.76	0.67	0.61	0.58		0.75	0.66	0.61	0.57	0.65	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.56						

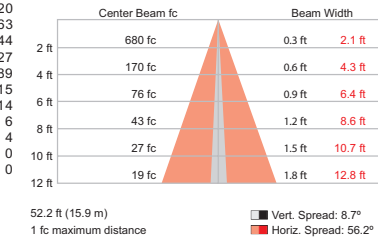
PureStyle IntelliHue Powercore  
4000 K  
1 ft, 10° x 60° (narrow) beam angle

Lumens	Efficacy	CRI*	CRI R9*
728	59.5	93.3	68.2

#### Polar Candela Distribution



#### Illuminance at Distance



#### Zonal Lumen

Zone	Lumens	% Luminaire
0-30	537.4	73.8%
0-40	648.9	89.1%
0-60	709.9	97.5%
0-90	728.0	100.0%
60-90	18.2	2.5%
70-100	7.3	1.0%
90-120	0.1	0.0%
90-180	0.1	0.0%
0-180	728.1	100.0%

#### Coefficients Of Utilization - Zonal Cavity Method

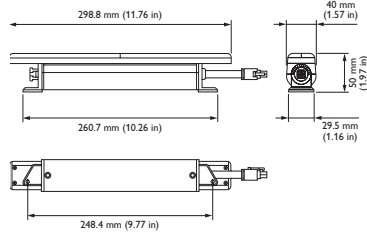
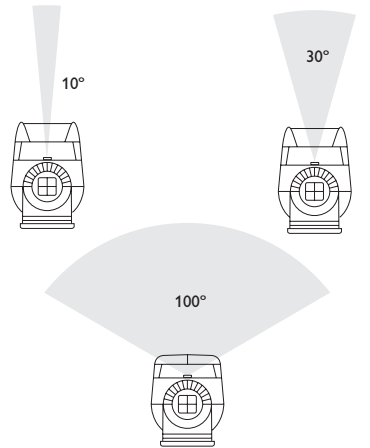
RCC %:		80				70				50				30				10				0			
RW %:		70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0				
RCR:																									
0	1.19	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00						
1	1.14	1.11	1.08	1.06	1.06	1.11	1.09	1.06	0.94	1.05	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94						
2	1.08	1.03	0.99	0.96	0.96	1.06	1.02	0.98	0.88	0.98	0.95	0.93	0.95	0.93	0.91	0.93	0.91	0.89	0.87						
3	1.03	0.97	0.92	0.88	0.88	1.01	0.95	0.91	0.83	0.93	0.89	0.86	0.90	0.87	0.85	0.88	0.86	0.83	0.82						
4	0.98	0.91	0.86	0.82	0.82	0.96	0.90	0.85	0.78	0.88	0.84	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.77						
5	0.94	0.86	0.80	0.76	0.76	0.92	0.85	0.80	0.74	0.83	0.79	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.73						
6	0.90	0.81	0.76	0.72	0.72	0.88	0.80	0.75	0.70	0.79	0.74	0.71	0.78	0.74	0.70	0.76	0.73	0.70	0.69						
7	0.86	0.77	0.72	0.68	0.68	0.85	0.76	0.71	0.66	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.65						
8	0.82	0.73	0.68	0.64	0.64	0.81	0.73	0.68	0.63	0.72	0.67	0.64	0.71	0.66	0.63	0.70	0.66	0.63	0.62						
9	0.79	0.70	0.65	0.61	0.61	0.78	0.70	0.64	0.60	0.69	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.59						
10	0.76	0.67	0.62	0.58	0.58	0.75	0.67	0.61	0.57	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.56						

For lux multiply fc by 10.7

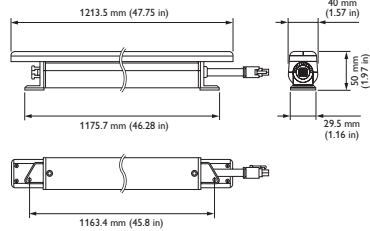
\* CRI refers to CRI <sub>R<sub>a</sub></sub> value, CRI R9 refers to R9 value in accordance with IESNA LM-79 standards.

# Specifications

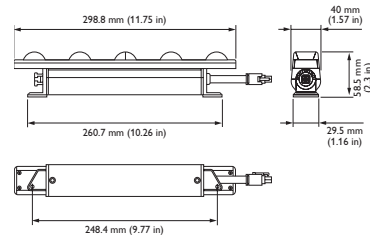
Due to continuous improvements and innovations, specifications may change without notice.



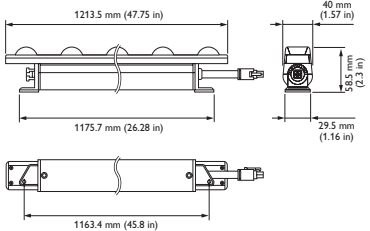
**1 ft, 100° x 100° (wide) beam angle**



**4 ft, 100° x 100° (wide) beam angle**



**1 ft, 10° x 60° / 30° x 60° (narrow/medium) beam angle**



**4 ft, 10° x 60° / 30° x 60° (narrow/medium) beam angle**

Item	Specification	Length	Temperature	Wide	Medium	Narrow
	Lumens*	305 mm (1 ft)	2700 K	710	748	777
			4000 K	662	689	728
		1219 mm (4f t)	2700 K	2,840	2,992	3,108
			4000 K	2,648	2,756	2,912
	Efficacy		2700 K	54.7	60.6	59.5
			4000 K	54.8	61.4	59.2
	CRI**		2700 K	92.9	92.7	93.3
			4000 K	93.8	90.7	93.3
	R9**		2700 K	84.2	76.2	82
			4000 K	70	57.8	68.2
	Lumen Maintenance†		L50	L70	L80	L90
		Reported	> 54,000 hours	46,100 hours	28,600 hours	13,100 hours
		Calculated	90,300 hours	46,100 hours	28,600 hours	13,100 hours
Electrical	Input Voltage			100 to 277 VAC, auto-ranging, 50 / 60 Hz via Data Enabler Pro		
	Power Consumption			13 W maximum at full output, steady state		52 W maximum at full output, steady state
	Power Factor			> 0.9 @ 100 to 240 VAC, > 0.85 @ 240 to 277 VAC		
Control	Interface			Data Enabler Pro (DMX or Ethernet)		
	Control System			Philips full range of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, or third-party controllers		
Physical	Dimensions (Length x Width x Height)	305 mm (1 ft) Wide Beam		298.8 x 40 x 50 mm (11.75 x 1.57 x 1.97 in)		
		305 mm (1 ft) Narrow/Medium Beam		1298.8 x 40 x 58.5 mm (11.75 x 1.57 in x 2.3 in)		
		1219 mm (4 ft) Wide Beam		1213.5 x 40 x 50 mm (47.75 x 1.57 x 1.97 in)		
		1219 mm (4 ft) Narrow/Medium Beam		1213.5 x 40 x 58.5 mm (47.75 x 1.57 x 2.3 in)		
	Weight		0.5 kg (1.1 lb) - 305 mm (1 ft) 1.8 kg (4.2 lb) - 1219 mm (4 ft)			
	Housing		Extruded anodized aluminium			
	Lens		Polycarbonate			
	Luminaire Connections		Integral male / female connectors			
	Temperature Ranges		-20 to 50 °C (-4 to 122 °F) Operating -20 to 50 °C (-4 to 122 °F) Startup -40 to 80 °C (-40 to 176 °F) Storage			
	Humidity		0 to 95%, non-condensing			
	Luminaire Run Lengths		To calculate luminaire 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>			
Certification and Safety	Certification			UL/cUL, FCC Class B, CE, PSE, CQC, RCM		
	Environment			Dry/Damp Location, IP20		

CHROMACORE  
CKTECHNOLOGY

OPTIBIN  
CKTECHNOLOGY

POWERCORE  
CKTECHNOLOGY



\* 305 mm (1 ft) lumen output measurement complies with IES LM-79-08 testing procedures. 1219 mm (4 ft) measurements are estimated based on the 305 mm (1 ft) measurements.

† 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 luminaires 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.

\*\* CRI refers to CRI R<sub>a</sub> value, CRI R9 refers to R9 value in accordance with IESNA LM-79 standards.

# Luminaires and Accessories

PureStyle IntelliHue Powercore luminaires are part of a complete system which includes luminaires and the following equipment:

- One or more Data Enabler Pro devices.
- One Leader Cable to connect each Data Enabler Pro output to a series of luminaires, or one Wiring Compartment with a sufficient length of 4-conductor copper wire. Standard 12 AWG stranded wire is recommended.
- Any Philips controller, including Light System Manager, iPlayer 3, and ColorDial Pro, or a third-party controller.

## Included in the box

PureStyle IntelliHue Powercore luminaire
Installation Instructions

Item	Type	Item Number	Philips 12NC
PureStyle IntelliHue Powercore 305 mm (1 ft)	100° x 100° (Wide)	123-000025-00	912400133448
	30° x 60° (Medium)	123-000025-01	912400133449
	10° x 60° (Narrow)	123-000025-02	912400133450
PureStyle IntelliHue Powercore 1219 mm (4 ft)	100° x 100° (Wide)	123-000025-03	912400133451
	30° x 60° (Medium)	123-000025-04	912400133452
	10° x 60° (Narrow)	123-000025-05	912400133453

Item	Style	Item Number*	Philips 12NC
Data Enabler Pro	3/4 in / 1/2 in NPT (US trade size conduit)	106-000004-00	910503701210
	PG21/PG13 (metric size conduit)	106-000004-01	910503701211

Item	Type		Item Number	Philips 12NC
Leader Cable	3 m (10 ft)	UL	108-000065-00	912400133637
		CE/CCC	108-000065-01	912400133638
Jumper Cable	305 mm (1 ft)	UL	108-000066-00	912400133639
		CE/CCC	108-000066-01	912400133640
	1.5 m (5 ft)	UL	108-000066-02	912400133641
		CE/CCC	108-000066-03	912400133642
Mounting Track	White		120-000194-00	912400133643
Wiring Compartment	UL		120-000191-00	912400133644
Louver	305 mm (1 ft)		120-000192-02	912400133647
End Of Run Diffusers	Bag of 10		120-000196-00	912400134527

Use Item Number when ordering in North America.

# Installation

PureStyle IntelliHue Powercore offers high-intensity indoor cove lighting with Powercore technology. Powercore, which integrates LED power and data management within the luminaire, eases installation by eliminating the need for external power supplies.

## Owner/User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate PureStyle IntelliHue Powercore luminaires in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

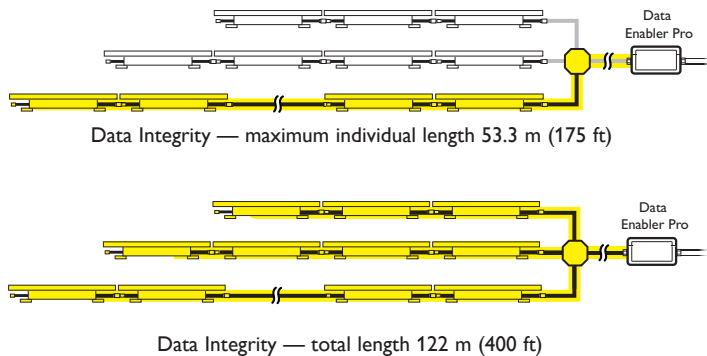
## Create a Lighting Design Plan and Layout Grid

1. Determine the appropriate location of each Data Enabler Pro in relation to the luminaires, and of the luminaires in relation to each other.

PureStyle IntelliHue Powercore luminaires are installed in series. The in-line connectors allow end-to-end luminaire connections for the best visual effects. Joined directly together, the connectors allow for spacing of 4 mm (0.16 in) to 6.4 mm (0.25 in) without a jumper cable. When you need to separate luminaires by more than these minimums, use the 305 mm (1 ft) or 1.5 m (5 ft) jumper cables.

The maximum number of luminaires each Data Enabler Pro can support depends on specific configuration details such as luminaire length, luminaire spacing, circuit size, line voltage, and Leader Cable length. For help calculating the number of luminaires your specific installation can support, download the Configuration Calculator from [www.philipscolorkinetics.com/support/install\\_tool/](http://www.philipscolorkinetics.com/support/install_tool/), or consult Application Engineering Services at [support@colorkinetics.com](mailto:support@colorkinetics.com).

In addition to maximum luminaire run lengths determined by the electrical configuration, each Data Enabler Pro imposes maximum run lengths based on data integrity. To ensure data integrity, maximum individual run lengths should not exceed 53.3 m (175 ft), and the total cable length per Data Enabler Pro should not exceed 122 m (400 ft).



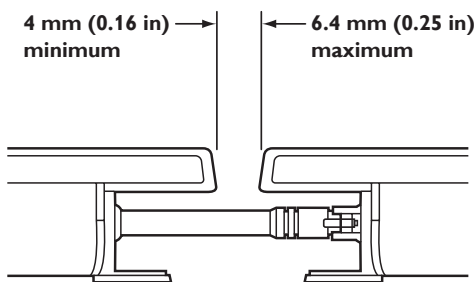
2. PureStyle IntelliHue Powercore is a versatile linear 4-channel LED lighting luminaire that can be used successfully in many different types of accent and direct-view lighting applications. Because of its high light output, PureStyle IntelliHue Powercore should be positioned at a minimum distance from illuminated surfaces in accent lighting applications to ensure smooth color mixing.

Because PureStyle luminaires can be used in several lighting applications, setback distance is installation dependent. A wide beam angle is recommended for cove applications where there is more distance between the luminaire and the illuminated surface, while a narrow/medium beam angle is recommended for

\* Refer to the PureStyle IntelliHue Powercore Installation Instructions for specific warning and caution statements.

\* Refer to the Data Enabler Pro Installation Instructions or Product Guide for guidelines on configuring and positioning the Data Enabler Pro in relation to the controller.

### Distance between luminaires joined end-to-end





grazing applications where the distance between luminaire and illuminated surface is shorter. IES files are provided, but a mockup is recommended for the most accurate evaluation of a space.

At up to 800 lumens per foot, PureStyle IntelliHue Powercore luminaires may be more appropriate for wall-washing, grazing, and indirect lighting applications than for traditional cove applications at full output, especially where coves are relatively small.

If installing PureStyle IntelliHue Powercore in a cove, make sure that you use the luminaire's power consumption and efficacy ratings to ensure that coves are large enough to keep operating temperatures within safe levels. The designer or architect should also determine the cove's fascia design and luminaire setback based on the cove dimensions and room width. We strongly recommend creating dimensional models and mockups prior to installation.

## Start the Installation

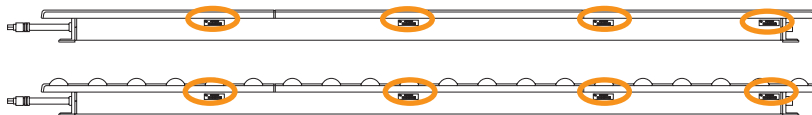
1. Install all Data Enabler Pro devices, including any interfaces with controllers. One Leader Cable is required to connect each run or series of luminaires to a Data Enabler Pro. The Data Enabler Pro sends power and control signals to the luminaires over the Leader Cable.
2. Verify that all additional supporting equipment, such as switches and controllers, are in place.
3. If your installation calls for Jumper Cables to add space between luminaires, make sure they are available.
4. Ensure that all additional parts (optional mounting tracks, mounting hardware, diffusers) and tools are available.

\* For medium and narrow beam angle luminaires, make sure the Power and Data is fed from the appropriate side of the run to account for directionality of light.

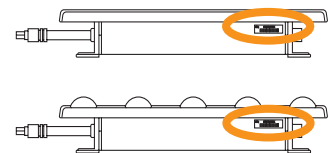
## Unpack and Prepare Luminaires

1. Carefully inspect the box containing PureStyle IntelliHue Powercore and the contents for any damage that may have occurred in transit.
2. On an architectural diagram or other diagram that shows the physical layout of the installation, identify the locations of all switches, controllers, power supplies, luminaires, and Leader and Jumper Cables.
3. PureStyle IntelliHue Powercore luminaires are addressable in 305 mm (1 ft) segments. This feature allows playback controllers to send unique light output data to each segment of each luminaire within your installation.

Each luminaire segment (node) comes pre-programmed with a unique serial number. Luminaires have one or four serial numbers, depending on luminaire length. As you unpack the luminaires, record the serial numbers in a layout grid (typically a spreadsheet or list) for easy reference and light addressing.



Location of serial numbers on 1219 mm (4 ft) PureStyle IntelliHue Powercore luminaires



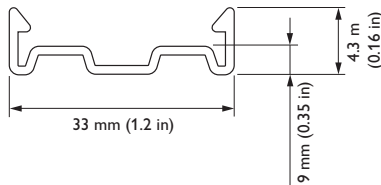
Location of serial number on 305 mm (1 ft) PureStyle IntelliHue Powercore luminaires

4. Assign each luminaire to a position in the lighting design plan.
5. To streamline installation and aid in light show programming, you can affix a weatherproof label identifying the order or placement in the installation to an inconspicuous location on each luminaire's housing.

## Install the Luminaires

You can mount PureStyle IntelliHue Powercore luminaires directly to a wall, ceiling, cabinet, or other secure surface. For linear applications, you can install several PureStyle IntelliHue Powercore luminaires in optional 1219 mm (4 ft) lengths of mounting track to ensure straight runs.

### Mounting Track dimensions



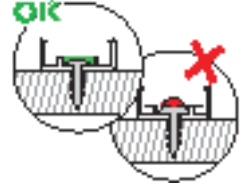
✳ If using the Wiring Compartment to run conduit from Data Enabler Pro to the first luminaire in a run, make sure you leave enough space at the end of the run to accommodate the Wiring Compartment.

✳ You can use the luminaire base as a template when pre-drilled holes are required. Hold the luminaire in place and mark the two screw holes.

### (Optional) Install Mounting Tracks

1. Field-cut the mounting tracks to the desired length with hacksaws or tin snips.
2. Install the mounting tracks using hardware suitable for the mounting surface.

To ensure proper luminaire fit, hardware must not extend above the track standoffs after installation. The recommended maximum spacing between screws is 305 mm (1 ft).



### Mount and Connect the Luminaires

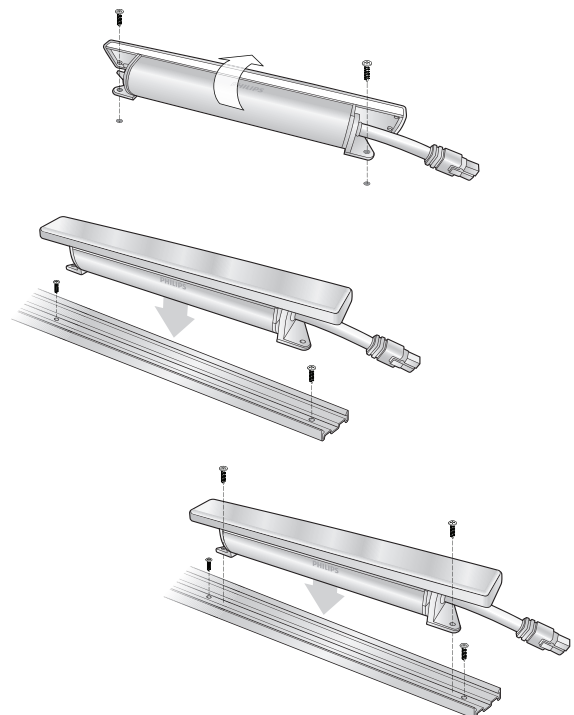
Make sure the power is OFF before mounting and connecting luminaires.

1. Rotate a PureStyle Powercore IntelliHue luminaire as necessary to provide unobstructed access to the mounting holes.
2. Position the first luminaire in a series.

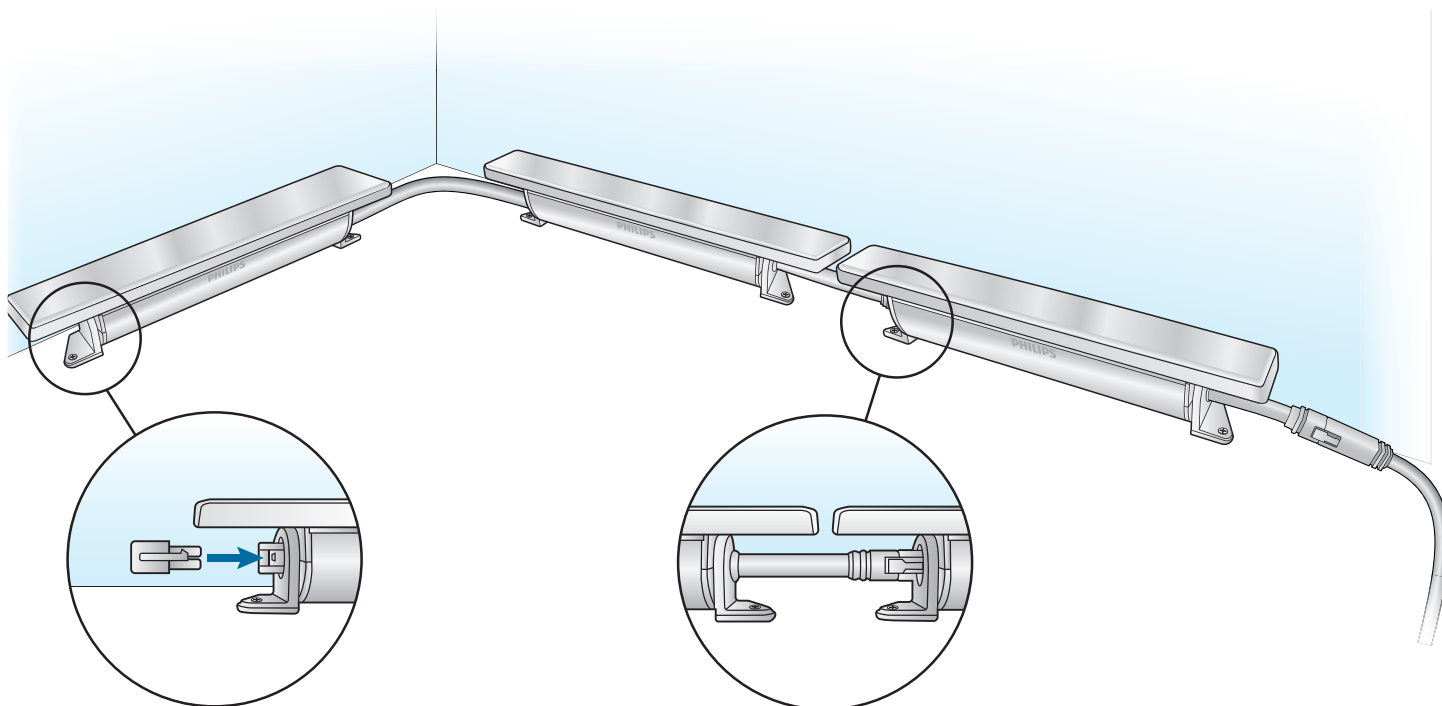
If using mounting tracks on a horizontal surface, snap the luminaire into the track.

If using mounting tracks on vertical or overhead surfaces, or if not using mounting tracks, attach 305 mm (1 ft) luminaires with two #6 (3.5 mm) mounting screws each (not included) suitable for the mounting surface. Attach 1219 mm (4 ft) luminaires with two #6 (3.5 mm) mounting screws suitable for the mounting surface, four at each end of the luminaire,

Ensure that the male connector is in position to receive data and power from the leader cable's female connector.

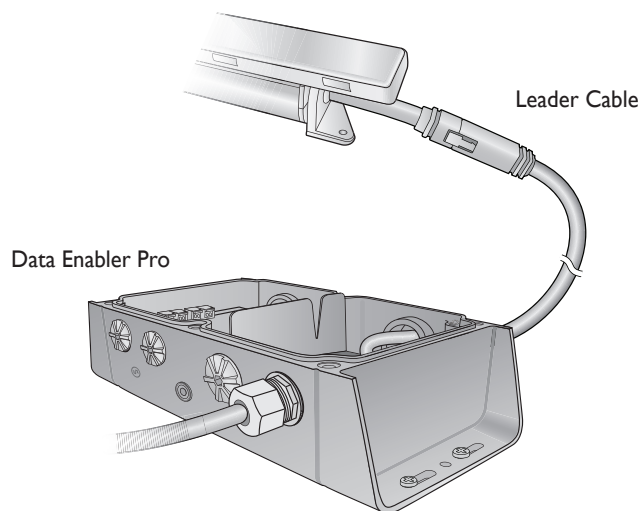


3. Position the next luminaire in the series, matching the male connector end to the female connector of the previously mounted luminaire. Attach the luminaire to the surface or snap it into the track.
4. Continue mounting the luminaires, making power/data connections as you go, until all lights in the series are mounted.
5. Insert the provided terminator into the last luminaire in the series.



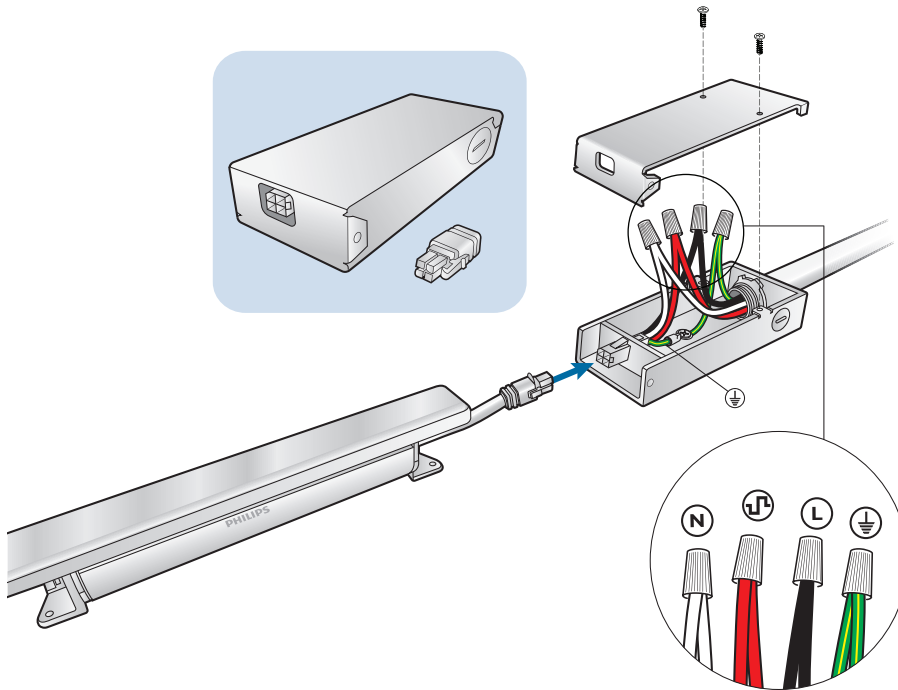
6. Make power connections:

If using a Leader Cable, connect the Leader Cable to the first luminaire in the series. Run the Leader Cable to the Data Enabler Pro.

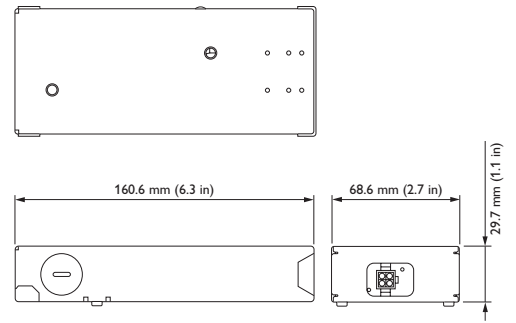


If using the PureStyle Powercore IntelliHue Wiring Compartment to run conduit from the Data Enabler Pro to the first luminaire in a series, pull cable through conduit. (We recommend standard 4-conductor 12AWG copper wire.)

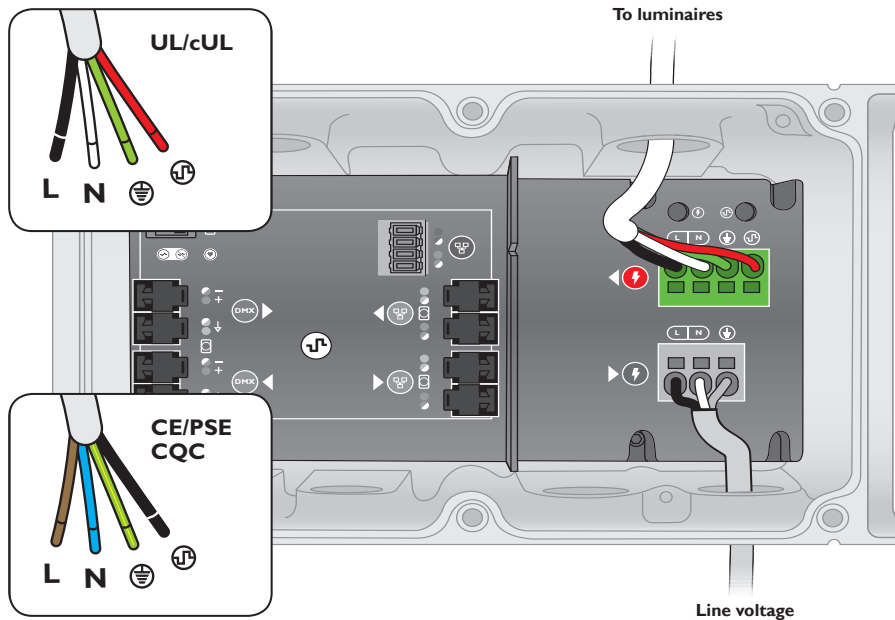
Remove the cover from the Wiring Compartment. Using wire nuts, make wire connections inside the Wiring Compartment housing, then replace the cover. Connect the Wiring Compartment to the first luminaire in the series.



#### Wiring Compartment dimensions



#### 7. Secure connections within the Data Enabler Pro housing.



#### 8. Repeat steps 1 to 7 for each Data Enabler Pro in the installation.

# Address and Configure the Luminaires

Make sure the power is ON before addressing and configuring luminaires.

PureStyle IntelliHue Powercore luminaires are addressable in 305 mm (1 ft) segments, or nodes. PureStyle IntelliHue Powercore luminaires have one or four nodes, depending on luminaire length. Each node is identified by a unique serial number.

PureStyle IntelliHue Powercore luminaires operate in 8-bit mode by default. You can configure PureStyle IntelliHue Powercore to operate in 16-bit mode, which increases luminaire resolution for smoother dimming.

In 8-bit mode, luminaire nodes use one DMX address per LED channel (red, green, blue, and mint white). In 16-bit mode, luminaire nodes use two DMX addresses per LED channel. The first DMX address corresponds to the “coarse” data for that channel, and the second corresponds to the “fine” data. By using double the number of DMX addresses, 16-bit mode increases luminaire resolution from 256 dimming steps to 65,536 (256 x 256) dimming steps.

Configuration	DMX Addresses Per Segment
3-3 Channel Configuration, 8-bit	3
3-3 Channel Configuration, 16-bit	6
3-4 Channel Configuration, 8-bit	3
3-4 Channel Configuration, 16-bit	6
4-4 Channel Configuration, 8-bit	4
4-4 Channel Configuration, 16-bit	8

Each PureStyle IntelliHue Powercore node comes factory-addressed with a starting DMX address of 1. For lighting designs where luminaires work in unison, all nodes can be assigned the same starting DMX address. Changes to the default starting DMX address are not necessary, but if nodes were previously readdressed for use in other installations, you must reset them. For light show designs that show different colors on different luminaires, you must assign unique DMX addresses to nodes and sort them in a useful order.

- In Ethernet installations, you can address and configure your luminaires using QuickPlay Pro with a computer connected to your lighting installation’s network. QuickPlay Pro can automatically discover all of your luminaires, controllers, and Data Enabler Pro devices for quick configuration.
- In DMX installations, you can address and configure your luminaires using QuickPlay Pro with iPlayer 3 or SmartJack Pro. You can manually enter luminaire serial numbers, or you can import a spreadsheet listing each luminaire’s serial number and starting DMX address.

For complete details on addressing and configuring PureStyle IntelliHue Powercore luminaires with QuickPlay Pro, refer to the *Addressing and Configuration Guide*, which you can view or download at [www.philipscolorkinetics.com/support/addressing](http://www.philipscolorkinetics.com/support/addressing).


✳ You can address luminaires and switch between 8-bit mode and 16-bit mode using QuickPlay Pro. You can download QuickPlay Pro from [www.philipscolorkinetics.com/support/addressing/](http://www.philipscolorkinetics.com/support/addressing/)

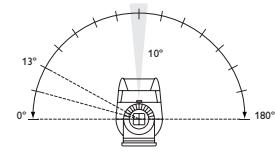
✳ You will need the layout grid that you created when you recorded the serial numbers of the light luminaires in your installation.

# Aim Luminaires

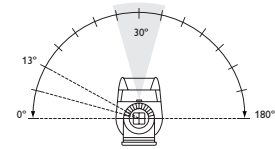
Make sure power is ON before aiming luminaires.

Aim the luminaires by rotating each luminaire to the correct angle. There are detents every 13° in the bracket that hold it in position.

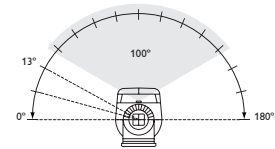
 Do not look directly into the luminaire when aiming and locking.



**10° x 60° (narrow beam angle)**



**30° x 60° (medium beam angle)**



**100° x 100° (wide beam angle)**

