



# PureGlow IntelliHue Powercore

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



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

Innovative PureGlow Powercore luminaires bring lighting professionals high output in a compact, easily concealed luminaire. PureGlow 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 PureGlow brings to lighting professionals and their clients.

- **Unbeatable Performance**—Major innovations, including a unique optical cluster, enable PureGlow to deliver up to 95 CRI, lumen outputs of up to 800 lm, and color temperatures that range from 2000K to 10000K—all with superior beam quality that delivers bright, smooth light.
- **Innovative Design**—With its compact size and an extremely short mixing distance, PureGlow 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 aluminum 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 fixtures—just pure, seamless light.
- **Superior Color Consistency**—Improves color consistency between all LED fixtures 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 fixtures. When Chromasync is enabled, color consistency between fixtures is achieved without having to manually adjust color points on each fixture.
- **White and Color Light**—PureGlow combines tunable white and dynamic color light in one innovative, high-performance luminaire that's easy to install and control.
- **High R9 Values**—PureGlow 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**—PureGlow 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 PureGlow luminaires integrate Powercore technology, which controls power output to fixtures 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**—PureGlow luminaires accept power input of 100 - 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 PureGlow luminaires to be connected directly (using jumper cables) with leader cables or with the terminator.



### Flexible mounting and positioning

The PureGlow 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 fixtures.

# Photometrics

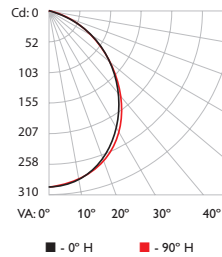
Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at [www.philipscolorkinetics.com/support/ies](http://www.philipscolorkinetics.com/support/ies).

## PureGlow IntelliHue Powercore 2,700k

1 ft, 100° x 100° (wide) beam angle

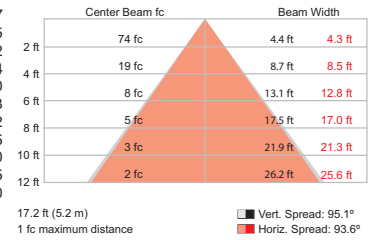
Lumens	Efficacy	CRI*	CRI R9*
715.1	55	92.9	84.2

### Polar Candela Distribution



90°	297	297	297	297	297
80°	292	294	293	293	295
70°	278	280	281	282	282
60°	248	250	254	257	254
50°	205	214	216	214	220
40°	157	162	163	163	163
30°	107	110	111	111	112
20°	66	68	68	66	65
10°	35	35	34	31	30
0°	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

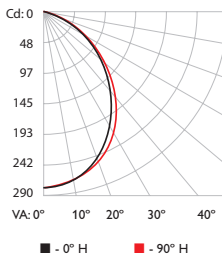
		Effective Floor Cavity Reflectance: 20%																				
RCC %:		80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	0	50	30	0	50	30	0	10	0			
RCR:																						
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	1.00	0.98			
1	1.09	1.05	1.01	0.97	1.06	1.02	0.99	0.84	0.98	0.95	0.91	0.89	0.89	0.88	0.86	0.86	0.84	0.84	0.81			
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	0.79	0.75	0.79	0.76	0.73	0.71	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	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	0.66	0.60	0.56	0.64	0.59	0.55	0.53	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	0.46			
6	0.72	0.59	0.51	0.45	0.70	0.58	0.50	0.43	0.56	0.49	0.44	0.55	0.48	0.43	0.53	0.47	0.43	0.41	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	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	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	0.30	0.30			
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	0.27			

## PureGlow IntelliHue Powercore 4,000k

1 ft, 100° x 100° (wide) beam angle

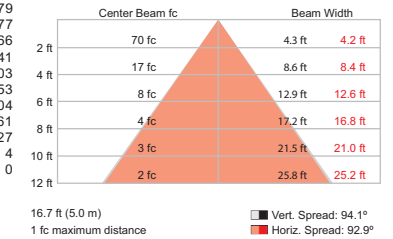
Lumens	Efficacy	CRI*	CRI R9*
661.1	55	93.8	70

### Polar Candela Distribution



90°	0	279	279	279	279	279
80°	5	275	278	276	276	277
70°	15	260	265	265	266	266
60°	25	231	235	239	241	241
50°	35	192	197	200	202	203
40°	45	146	152	152	151	153
30°	55	100	104	104	104	104
20°	65	61	63	63	61	61
10°	75	32	32	31	29	27
0°	85	12	11	9	6	4
	90	7	6	4	1	0

### 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

		Effective Floor Cavity										Reflectance: 20%						
RCC %:	80	70				50				30				10				0
RW %:	70	50	30	20	70	50	30	20	70	50	30	20	70	50	30	20	0	
RCR:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	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	0.90	0.88	0.86	
2	1.00	0.92	0.86	0.81	0.97	0.90	0.84	0.72	0.86	0.81	0.77	0.83	0.79	0.75	0.80	0.76	0.73	
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	
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	
5	0.78	0.66	0.57	0.51	0.76	0.65	0.57	0.48	0.62	0.55	0.50	0.60	0.54	0.49	0.58	0.53	0.48	
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	
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	
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	
9	0.59	0.46	0.38	0.32	0.57	0.45	0.38	0.31	0.44	0.37	0.32	0.43	0.36	0.32	0.41	0.36	0.32	
10	0.55	0.42	0.35	0.30	0.54	0.42	0.34	0.29	0.40	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.29	

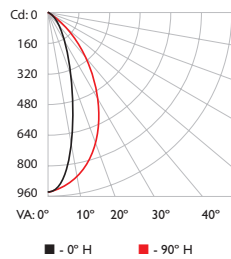
For lux multiply fc by 10.7

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

PureGlow IntelliHue Powercore  
2,700K  
1 ft, 30° x 60° (medium) beam angle

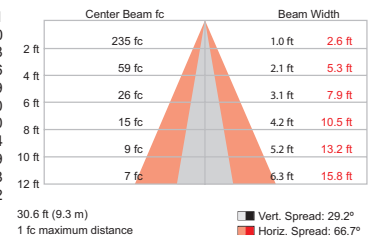
Lumens	Efficacy	CRI*	CRI R9*
695.7	61	92.7	76.2

### Polar Candela Distribution



90°	941	941	941	941	941
80°	883	897	910	929	920
70°	536	556	644	788	808
60°	244	290	372	564	626
50°	119	134	184	352	409
	66	74	93	173	200
	43	45	48	73	80
	27	29	28	33	34
	13	18	18	19	19
	3	8	11	10	8
	0	5	8	5	2

### 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%

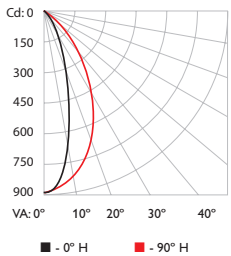
### Coefficients Of Utilization - Zonal Cavity Method

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

PureGlow IntelliHue Powercore  
4,000K  
1 ft, 30° x 60° (medium) beam angle

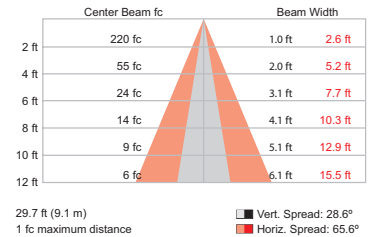
Lumens	Efficacy	CRI*	CRI R9*
639.6	61	90.7	57.8

### Polar Candela Distribution



90°	0	881	881	881	881	881
80°	5	822	832	850	868	860
70°	15	491	516	597	726	751
60°	25	223	262	336	514	576
50°	35	107	121	170	317	370
	45	61	67	83	151	176
	55	41	41	44	64	70
	65	26	27	26	29	30
	75	12	16	16	17	17
	85	2	7	10	8	7
	90	0	4	7	4	2

### 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

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

For lux multiply fc by 10.7

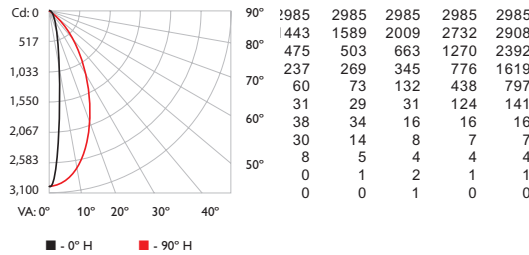
\* CRI refers to CRI  $R_a$  value, CRI R9 refers to R9 value in accordance with IESNA LM-79 standards.



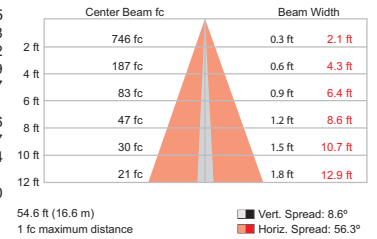
PureGlow IntelliHue Powercore  
2,700K  
1 ft, 10° x 60° (narrow) beam angle

Lumens	Efficacy	CRI*	CRI R9*
763.8	60	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%

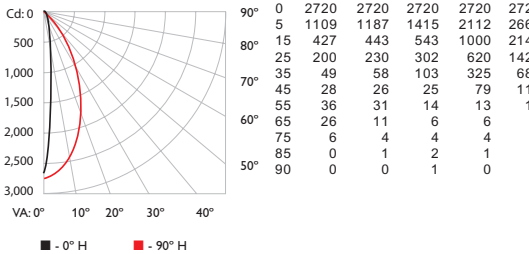
Coefficients Of Utilization - Zonal Cavity Method

RCC %:		80				70				50				30				10				0			
RW %:		70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	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	1.00	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	0.93	0.93	0.93				
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	0.91	0.93	0.91	0.93	0.91	0.89	0.87	0.87	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	0.84	0.88	0.85	0.83	0.82	0.82	0.82				
4	0.98	0.91	0.85	0.81	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	0.77	0.77				
5	0.94	0.86	0.80	0.76	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	0.72	0.72				
6	0.89	0.81	0.75	0.71	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	0.68	0.68				
7	0.86	0.77	0.71	0.67	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	0.65	0.65				
8	0.82	0.73	0.67	0.64	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	0.61	0.61				
9	0.79	0.70	0.64	0.60	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	0.58	0.58				
10	0.76	0.67	0.61	0.58	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	0.56	0.56				

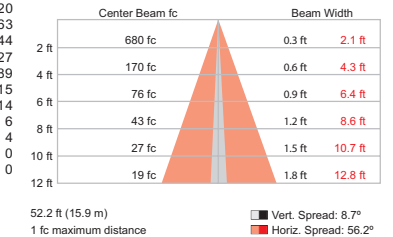
PureGlow IntelliHue Powercore  
4,000K  
1 ft, 10° x 60° (narrow) beam angle

Lumens	Efficacy	CRI*	CRI R9*
706.9	59	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

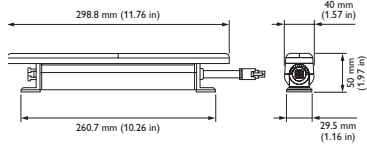
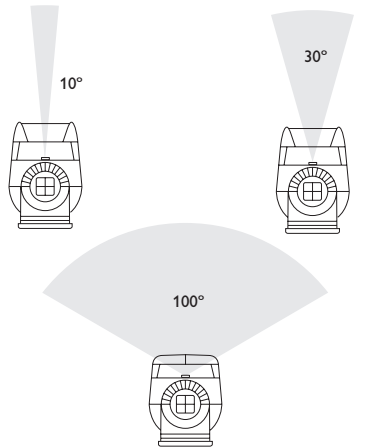
RCC %:		80				70				50				30				10				0	
RW %:		70	50	30	20	70	50	30	20	70	50	30	20	70	50	30	20	70	50	30	20		
Effective Floor Cavity Reflectance: 20%																							
RCR:																							
0	1.19	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00				
1	1.14	1.11	1.08	1.06	1.06	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		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	0.85	0.88	0.86	0.83	0.82				
4	0.98	0.91	0.86	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		0.92	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		0.88	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		0.85	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		0.81	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		0.78	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		0.75	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

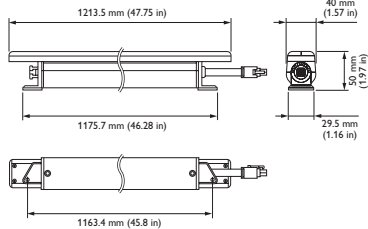
\* CRI refers to CRI <sub>a</sub> value, CRI R9 refers to R9 value in accordance with IESNA LM-79 standards.

# Specifications

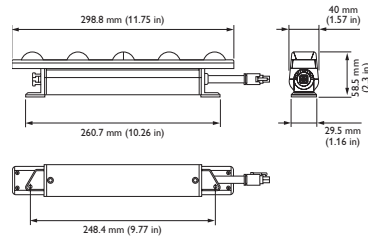
Due to continuous improvements and innovations, specifications may change without notice.



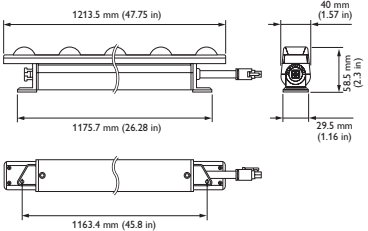
**1 ft, 100° x 100° (wide) beam angle**



**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	Temperature	Wide	Medium	Narrow
	Lumens*	2,700K	715.1	695.7	763.8
		4,000K	661.1	639.6	706.9
	Efficacy	2,700K	55	61	60
		4,000K	55	61	59
	CRI**	2,700K	92.9	92.7	93.3
		4,000K	93.8	90.7	93.3
	R9**	2,700K	84.2	76.2	82
		4,000K	70	57.8	68.2
Electrical	Lumen Maintenance†		47,100 hours L50 @ 25° C	47,100 hours L50 @ 50° C	
	Input Voltage		100 – 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 - 240 VAC, >0.85 @ 240 - 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)	Wide Beam Angle			
		298.8 mm (11.75 in) x 40 mm (1.57 in) x 50 mm (1.97 in)			
		Wide Beam Angle			
		1213.5 mm (47.75 in) x 40 mm (1.57 in) x 50 mm (1.97 in)			
		Narrow / Medium Beam Angle			
		298.8 mm (11.75 in) x 40 mm (1.57 in) x 58.5 mm (2.3 in)			
	Weight	Narrow / Medium Beam Angle			
		1213.5 mm (47.75 in) x 40 mm (1.57 in) x 58.5 mm (2.3 in)			
		0.5 kg (1.1 lb) - 305 mm (1 ft)			
		1.8 kg (4.2 lb) - 1219 mm (4 ft)			
		Extruded anodized aluminum			
		Polycarbonate			
		Integral male / female connectors			
		-20° – 50° C (-4° – 122° F) Operating -20° – 50° C (-4° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage			
Humidity		0 – 95%, non-condensing			
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>			
Certification and Safety	Certification	UL / cUL, FCC Class B, CE, PSE, CQC, RCM			
	Environment	Dry / Damp Location, IP20			

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\* 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 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.

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

## Fixtures and Accessories

PureGlow IntelliHue Powercore fixtures are part of a complete system which includes fixtures 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 fixtures, 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

PureGlow IntelliHue Powercore fixture

Installation Instructions

Item	Type	Item Number	Philips 12NC
PureGlow 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
PureGlow 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

PureGlow IntelliHue Powercore offers high-intensity indoor cove lighting with Powercore technology. Powercore, which integrates LED power and data management within the fixture, 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 PureGlow IntelliHue Powercore fixtures 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.

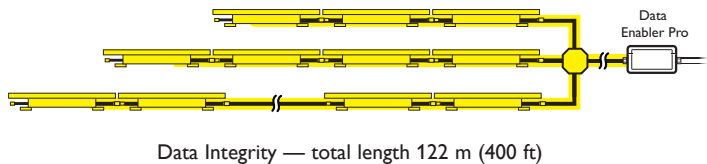
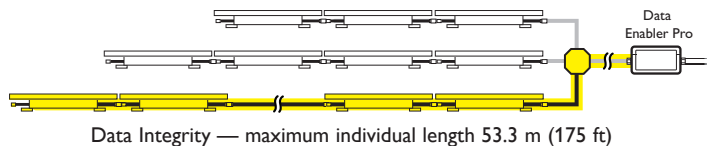
## Create a Lighting Design Plan and Layout Grid

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

PureGlow IntelliHue Powercore fixtures are installed in series. The in-line connectors allow end-to-end fixture connections for the best visual effects. Joined directly together, the connectors allow for spacing of 4 mm (.16 in) to 6.4 mm (.25 in) without a jumper cable. When you need to separate fixtures by more than these minimums, use the 305 mm (1 ft) or 1.5 m (5 ft) jumper cables.

The maximum number of fixtures each Data Enabler Pro can support depends on specific configuration details such as fixture length, fixture spacing, circuit size, line voltage, and Leader Cable length. For help calculating the number of fixtures 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 fixture 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).



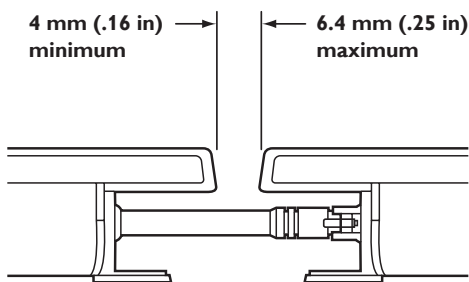
2. PureGlow IntelliHue Powercore is a versatile linear 4-channel LED lighting fixture that can be used successfully in many different types of accent and direct-view lighting applications. Because of its high light output, PureGlow IntelliHue Powercore should be positioned at a minimum distance from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

Because PureGlow fixtures 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 fixture and the illuminated surface, while a narrow/medium beam angle is recommended for grazing

✳ Refer to the PureGlow 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 fixtures joined end-to-end





applications where the distance between fixture 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, PureGlow IntelliHue Powercore fixtures 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 PureGlow IntelliHue Powercore in a cove, make sure that you use the fixture'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 fixture setback based on the cove dimensions and room width. We strongly recommend creating dimensional models and mockups prior to installation.

## Start the Installation

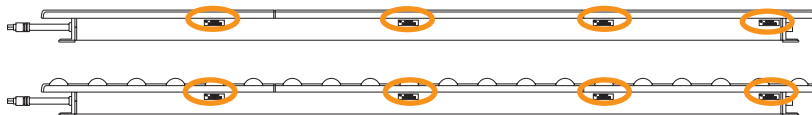
1. Install all Data Enabler Pro devices, including any interfaces with controllers.  
One Leader Cable is required to connect each run or series of fixtures to a Data Enabler Pro. The Data Enabler Pro sends power and control signals to the fixtures over the Leader Cable.
2. Verify that all additional supporting equipment, such as switches and controllers, are in place.
3. If your installation calls for Jumper Cables to add space between fixtures, 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 fixtures, make sure the Power and Data is fed from the appropriate side of the run to account for directionality of light.

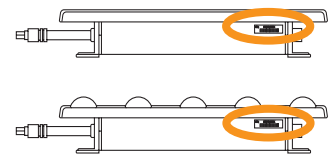
## Unpack and Prepare Fixtures

1. Carefully inspect the box containing PureGlow 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, fixtures, and Leader and Jumper Cables.
3. PureGlow IntelliHue Powercore fixtures are addressable in 305 mm (1 ft) segments. This feature allows playback controllers to send unique light output data to each segment of each fixture within your installation.

Each fixture segment (node) comes pre-programmed with a unique serial number. Fixtures have one or four serial numbers, depending on fixture length. As you unpack the fixtures, 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) PureGlow IntelliHue Powercore fixtures



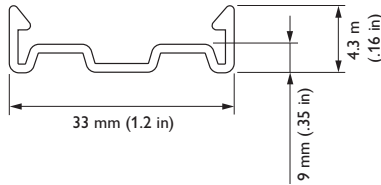
Location of serial number on 1 ft (305 mm) PureGlow IntelliHue Powercore fixtures

4. Assign each fixture 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 fixture's housing.

## Install the Fixtures

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

### Mounting Track dimensions



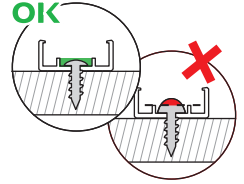
✳ If using the Wiring Compartment to run conduit from Data Enabler Pro to the first fixture in a run, make sure you leave enough space at the end of the run to accommodate the Wiring Compartment.

✳ You can use the fixture base as a template when pre-drilled holes are required. Hold the fixture 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 fixture 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 Fixtures

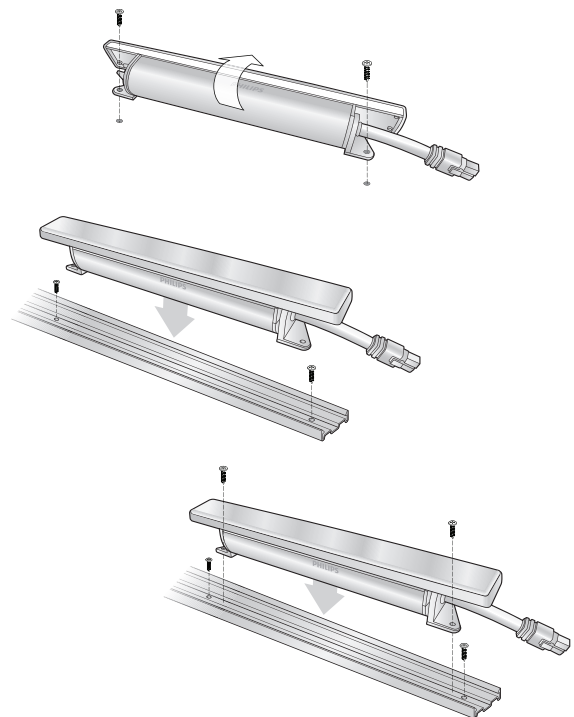
Make sure the power is OFF before mounting and connecting fixtures.

1. Rotate a PureGlow Powercore RGBA fixture as necessary to provide unobstructed access to the mounting holes.
2. Position the first fixture in a series.

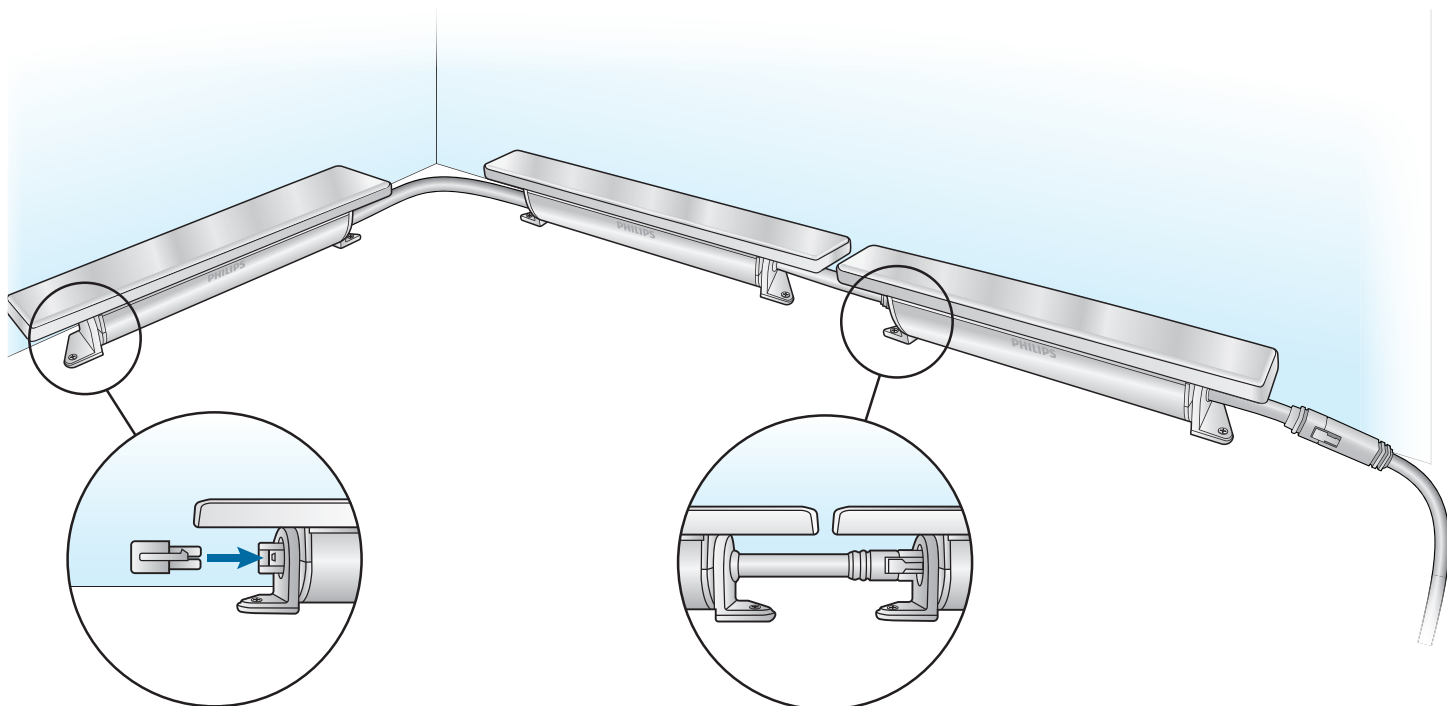
If using mounting tracks on a horizontal surface, snap the fixture into the track.

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

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

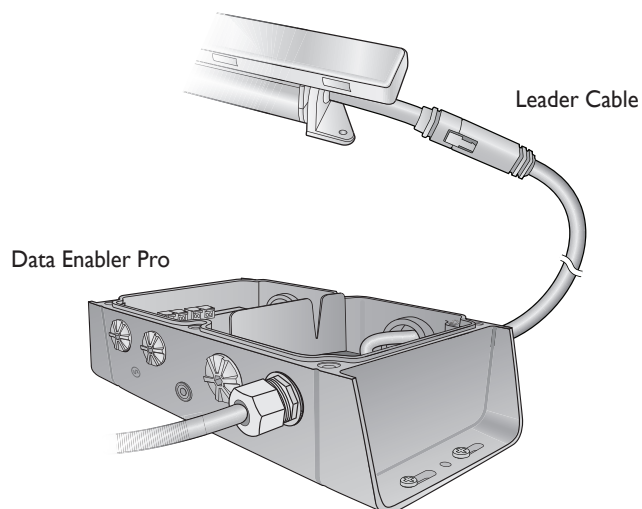


3. Position the next fixture in the series, matching the male connector end to the female connector of the previously mounted fixture. Attach the fixture to the surface or snap it into the track.
4. Continue mounting the fixtures, making power/data connections as you go, until all lights in the series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



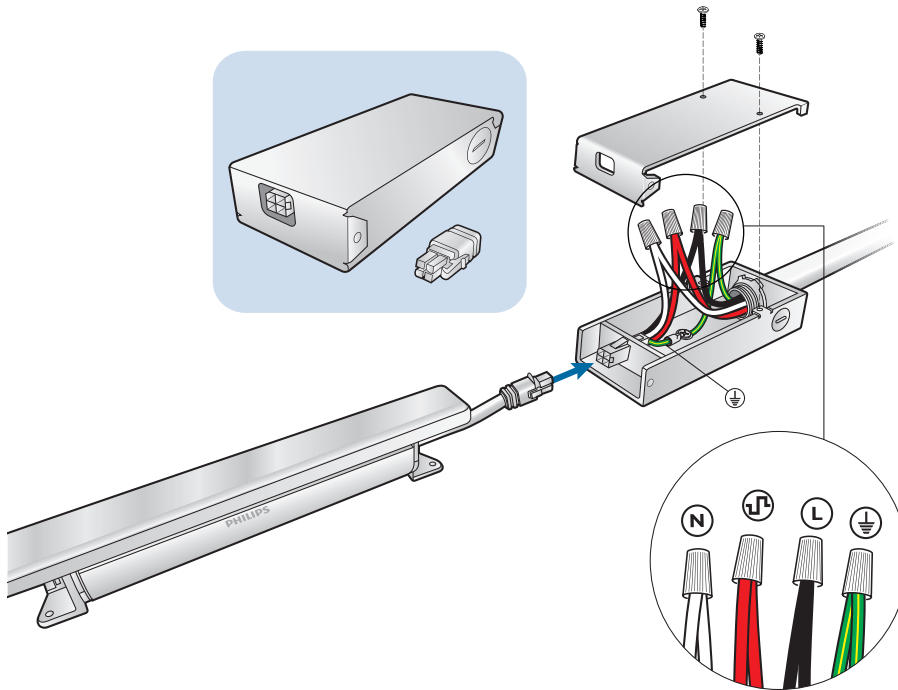
6. Make power connections:

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

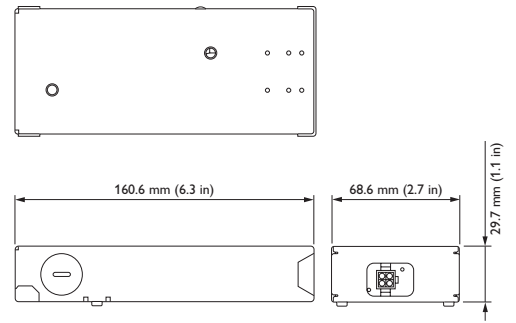


If using the PureGlow Powercore RGBW Wiring Compartment to run conduit from the Data Enabler Pro to the first fixture in a series, pull cable through conduit. (We recommend standard 4-conductor 12 AWG copper wire.)

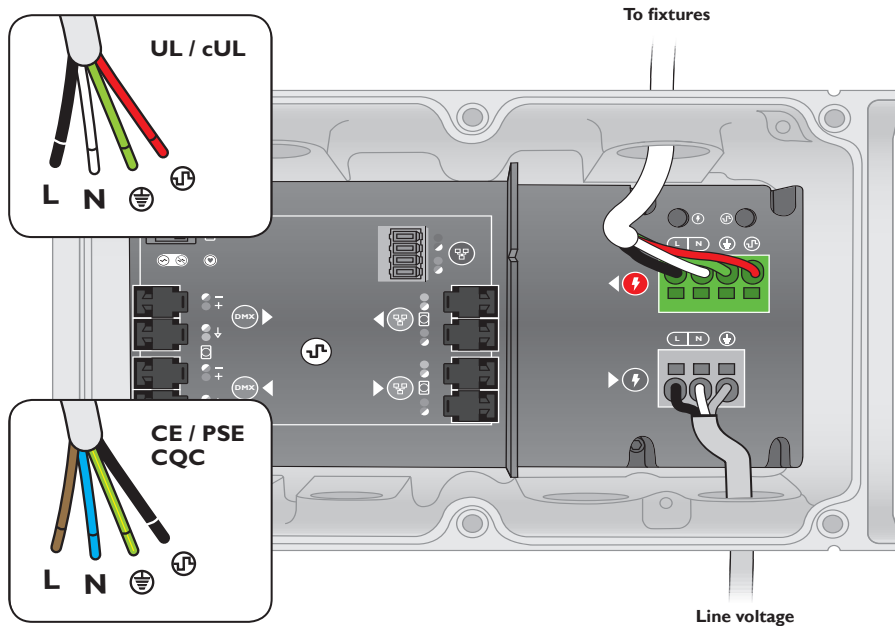
Remove the cover from the Wiring Compartment. Using wire nuts, make wire connections inside the Wiring Compartment housing, then replace the cover. Connect the Wiring Compartment to the first fixture in the series.



#### Wiring Compartment dimensions



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



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



# Address and Configure the Fixtures

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

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

PureGlow IntelliHue Powercore fixtures operate in 8-bit mode by default. You can configure PureGlow IntelliHue Powercore to operate in 16-bit mode, which increases fixture resolution for smoother dimming.

In 8-bit mode, fixture nodes use one DMX address per LED channel (red, green, blue, and amber). In 16-bit mode, fixture 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 fixture 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 PureGlow IntelliHue Powercore node comes factory-addressed with a starting DMX address of 1. For lighting designs where fixtures 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 fixtures, you must assign unique DMX addresses to nodes and sort them in a useful order.

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

For complete details on addressing and configuring PureGlow IntelliHue Powercore fixtures 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 fixtures 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/)

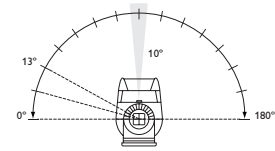
✳ You will need the layout grid that you created when you recorded the serial numbers of the light fixtures in your installation.

# Aim Fixtures

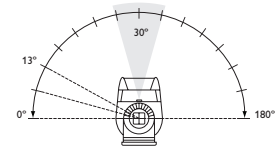
Make sure power is ON before aiming fixtures.

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

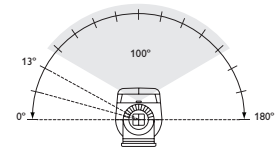
 Do not look directly into the fixture when aiming and locking.



**10° x 60° (narrow beam angle)**



**30° x 60° (medium beam angle)**



**100° x 100° (wide beam angle)**

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