PureGlow IntelliHue Powercore

100° x 100°, 305 mm (12 in), Wide Beam Angle

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.
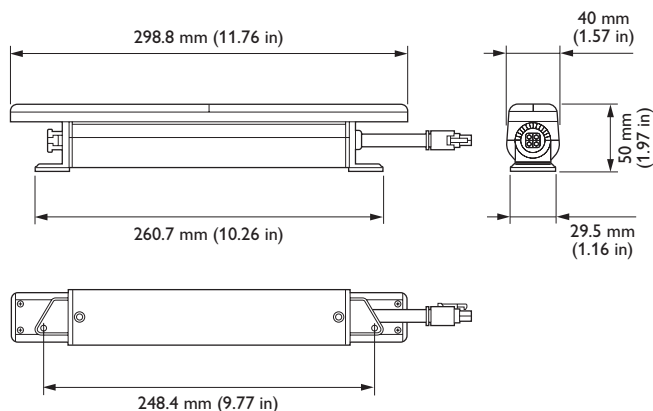
PureGlow IntelliHue Powercore

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

- 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) die-cast aluminum housings, as well as a range of beam angles — including wide (100˚ x 100˚), medium (30˚ x 60˚), and narrow (10˚ x 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.

For detailed product information, please refer to the PureGlow IntelliHue Powercore Product Guide at www.colorkinetics.com/ls/IntelliHue/Pureglow/

Dimensions

298.8 mm (11.76 in)

260.7 mm (10.26 in)

40 mm (1.57 in)

50 mm (1.97 in)

29.5 mm (1.16 in)

248.4 mm (9.77 in)

Specifications

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

PureGlow IntelliHue Powercore, 100° x 100°, 305 mm (12 in), Wide Beam Angle

Output

Beam Angle	100° x 100°
Lumens 2700 K†	715
Lumens 4000 K	661
Efficacy (lm/W) 2700 K	55
Efficacy (lm/W) 4000 K	55
CRI 2700 K	92.9
CRI 4000 K	93.8
CRI R9 2700K	84.2
CRI R9 4000 K	70

Electrical

Input Voltage	100 – 277 VAC, auto-ranging, 50/60 Hz
Power Consumption *(Maximum at full output, steady state)*	13 W
Power Factor	0.9 @ 100 – 240 VAC
Power Factor	0.85 @ 277 VAC

Control

Interface	Data Enabler Pro (DMX or Ethernet)
Control System	Philips full range of controllers, including Light System Manager, ColorDial Pro, and iPlayer 3, or third-party controllers

Lumen Maintenance

Threshold§	Ambient Temperature	Reported¶	Calculated¶
L_{50}	25° C	47100	72300
	50° C	47100	72300

Physical

Dimensions *(Height x Width x Depth)*	50 x 298.8 x 40 mm (1.97 x 11.75 x 1.57 in)
Weight	0.5 kg (1.1 lb)
Housing Material	Die-cast aluminium, white powder-coated finish
Lens	Polycarbonate
Fixture Connections	Integral male/female connectors
Temperature Ranges	-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 Length	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/

Certification and Safety

Approbation	UL/cUL, CE, FCC Class B, CE, PSE, C-Tick, SAA
Environment	Dry/Damp Location, IP20

---

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

§ Lxx = 50% lumen maintenance (when light output drops below 50% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

¶ Lumen maintenance figures are based on lifetime prediction graphs supplied by LED source manufacturers. Whenever possible, figures use measurements that comply with IES LM-80-08 testing procedures. In accordance with TM-21-11, Reported values represent the interpolated value based on six times the LM-80-08 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.
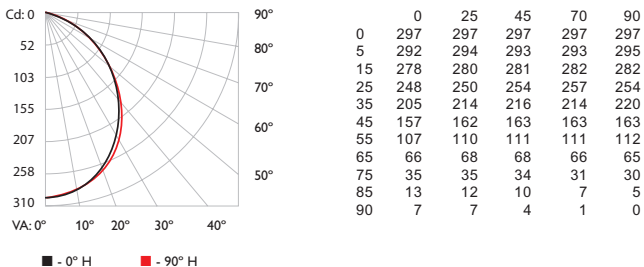
PureGlow IntelliHue Powercore Photometrics 100 ° x 100°, 305 mm (12 in)

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

Beam Angle	100° x 100°
LED	2700 K
Lumens 2700 K	715
Efficacy (lm/W) 2700 K	55

Polar Candela Distribution

Cd: 0
52
103
155
207
258
310

VA: 0° 10° 20° 30° 40°

90°
80°
70°
60°
50°

■ - 0° H   ■ - 90° H

	0	25	45	70	90
0	297	297	297	297	297
5	292	294	293	293	295
15	278	280	281	282	282
25	248	250	254	257	254
35	205	214	216	214	220
45	157	162	163	163	163
55	107	110	111	111	112
65	66	68	68	66	65
75	35	34	34	31	30
85	13	12	10	7	5
90	7	7	4	1	0

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%

Illuminance at Distance

	Center Beam fc	Beam Width	
2 ft	74 fc	4.4 ft	4.3 ft
4 ft	19 fc	8.7 ft	8.5 ft
6 ft	8 fc	13.1 ft	12.8 ft
8 ft	5 fc	17.5 ft	17.0 ft
10 ft	3 fc	21.9 ft	21.3 ft
12 ft	2 fc	26.2 ft	25.6 ft

17.2 ft (5.2 m)
1 fc maximum distance

■ Vert. Spread: 95.1°
■ Horiz. Spread: 93.6°
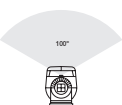
Coefficients Of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

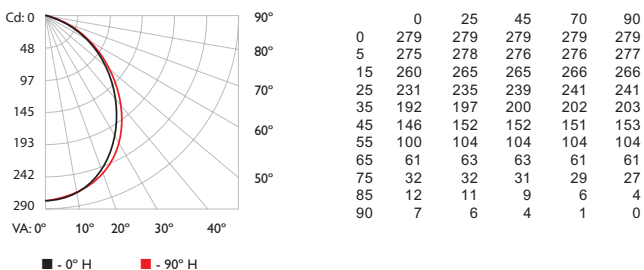| RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR:																		
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
1	1.09	1.05	1.01	0.97	1.06	1.02	0.99	0.84	0.98	0.95	0.92	0.93	0.91	0.89	0.89	0.88	0.86	0.84
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	0.79	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	0.66	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	0.49	0.44	0.55	0.48	0.43	0.53	0.47	0.43	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	0.30
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

For lux multiply fc by 10.7

PureGlow IntelliHue Powercore Photometrics 4000 K, 100 ° x 100°, 305 mm (12 in)

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

Beam Angle	100° x 100°
LED	4000 K
Lumens 4000 K	661
Efficacy (lm/W) 4000 K	55

Polar Candela Distribution

Cd: 0
48
97
145
193
242
290

VA: 0° 10° 20° 30° 40°

90°
80°
70°
60°
50°

■ - 0° H   ■ - 90° H

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

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%

Illuminance at Distance

	Center Beam fc	Beam Width	
2 ft	70 fc	4.3 ft	4.2 ft
4 ft	17 fc	8.6 ft	8.4 ft
6 ft	8 fc	12.9 ft	12.6 ft
8 ft	4 fc	17.2 ft	16.8 ft
10 ft	3 fc	21.5 ft	21.0 ft
12 ft	2 fc	25.8 ft	25.2 ft

16.7 ft (5.0 m)
1 fc maximum distance

■ Vert. Spread: 94.1°
■ Horiz. Spread: 92.9°

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	20	50	30	20	50	30	20	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	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	0.84
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
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
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
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	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	0.54	0.47	0.43	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
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
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	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

For lux multiply fc by 10.7

Fixture and Accessories

Fixture	Item Number	Philips 12NC
PureGlow IntelliHue Powercore *100° x 100°, 305 mm (12 in), Wide Beam Angle*	123-000025-00	912400133448

Accessories		
Leader Cable, UL, 3 m (10 ft)	108-000065-00	912400133637
Leader Cable, CE/CCC, 3 m (10 ft)	108-000065-01	912400133638
Jumper Cable, UL, 305 mm (1 ft)	108-000066-00	912400133639
Jumper Cable, CE/CCC, 305 mm (1 ft)	108-000066-01	912400133640
Jumper Cable, UL, 1.5 m (5 ft)	108-000066-02	912400133641
Jumper Cable, CE/CCC, 1.5 m (5 ft)	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

Power Supplies		
Data Enabler Pro, 3/4 in / 1/2 in NPT (U.S. trade size conduit)	106-000004-00	910503701210
Data Enabler Pro, PG21/PG13 (metric size conduit)	106-000004-01	910503701211

DAS-000147-01 R00 04 Mar 2016

PHILIPS