



ColorReach Powercore gen2

Premium long-throw exterior LED floodlight with intelligent color light

PHILIPS



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ColorReach Powercore gen2 high-performance LED luminaires are premium exterior long-throw dynamic color changing luminaires for lighting tall buildings, bridges, and iconic structures. ColorReach Powercore gen2 offers a range of accessories that allow for customizable beam angles for floodlighting, spotlighting, wall washing, and grazing, along with the efficiency and cost-effectiveness of Powercore technology in a rugged die-cast aluminum housing.

- Improved color mixing—Updated Color Reach Powercore gen2 provides more punch and light quality for exterior long throw applications. End users will appreciate the clean mixed beam with higher application efficiency, allowing placement of light exactly where desired.
- Unparalleled light output—ColorReach Powercore gen2 offers unprecedented LED-based illumination of large-scale structures and objects.
- Expanded customization with a wide range of new Philips accessory options. To complement the native 5° lens, six different diffuser lenses can customize the luminaire to produce 8°, 13°, 23°, 43°, 63°, and 5° x 17° (asymmetric) beam angles. The option to add or combine a louver, full glare shield, or half glare shield creates new aesthetic possibilities for designers and architects.
- 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.
- Integrates patented Powercore technology that 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 data and delivers them to luminaires over a single standard cable, dramatically simplifying installation and lowering total system cost.
- Simple luminaire positioning—Rugged, slim-profile mounting bracket allows simple positioning and luminaire rotation through a full 360°. Side locking bolts reliably secure luminaire with a standard wrench.
- Universal power input range of 100 to 277 VAC.
- Works seamlessly with the complete Philips Color Kinetics line of controllers, including ColorDial Pro, iPlayer 3, and Light System Manager—as well as third-party controllers.



Unique split design supports diffuser combinations

Each half of the luminaire is individually addressable and controllable. For instance, you could use one spread lens on the luminaire's lower half to bathe a large façade with color at street level, and a different spread lens to project a contrasting or complementary color hundreds of feet up the building's walls. New accessories, including a new louver and two glare shields, provide extra flexibility to help with dark sky compliance and trespass light.

A Dynamic Makeover for a National Landmark

Located on the Korea Strait, Busan Metropolitan City is South Korea's largest port city and a hub for tourism and commerce. The Busan North Harbor Bridge, which connects the Nam District in south-central Busan to Youngdo Island, was completed in April 2014. The three-lane bridge spans 5,700 m (18,000 ft) and is intended to relieve traffic in downtown Busan.

The Busan North Harbor Bridge features beautiful diagonal suspension cables. Its design is both aesthetically pleasing and cost-effective, as the cables support the bridge's weight, minimizing construction costs.

The city of Busan partnered with Philips Color Kinetics to transform the Busan North Harbor Bridge into a prominent national landmark. While traditional metal halide lamps were initially considered, they were ultimately rejected in favor of an LED lighting solution.

With a typical useful life of 50,000 hours or more,

LED luminaires are more energy efficient than metal halide lamps, which have a lifetime of up to 15,000 hours. As an added benefit, LED luminaires can natively produce a wide range of saturated, dynamic colors and can be programmed to create different effects and light shows.

760 ColorGraz MX Powercore luminaires were installed along the bridge at the base of cable stays, highlighting the suspension cables with colored light. The bridge's two pylons are illuminated using 160 ColorReach Powercore gen2 luminaires, installed at the top and the base of the pylons. Finally, 370 ArchiPoint iColor Powercore light points were affixed linearly down the upper section of each pylon, giving the bridge an extra sparkle. The entire installation is controlled with a single Light System Manager Ethernet lighting controller.

Lighting designer Jeong Seon Anh, of H Avenue Company, illuminated the bridge in a staggered array of saturated colors and programmed them to shift every 20 seconds, providing a dream-like experience for travelers crossing the bridge.



Photo Credits: courtesy of Philips Korea



Photo Credits: courtesy of Philips Korea



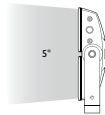
Photo Credits: courtesy of Philips Korea

Photometrics

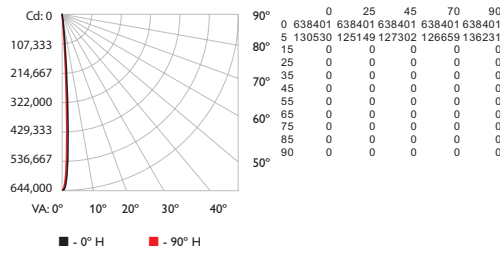
Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at www.philipscolorkinetics.com/support/ies.

ColorReach Powercore RGB 5° native lens, full unit

Lumens	Efficacy
9,380	34.7



Polar Candela Distribution



Illuminance at Distance

	Center Beam fc	Beam Width
4 ft	39,900 fc	0.5 ft 0.4 ft
8 ft	9,975 fc	0.9 ft 0.9 ft
12 ft	4,433 fc	1.4 ft 1.3 ft
16 ft	2,494 fc	1.9 ft 1.8 ft
20 ft	1,596 fc	2.4 ft 2.2 ft
24 ft	1,108 fc	2.8 ft 2.6 ft

800 ft (243.8 m)
1 fc maximum distance

■ Vert. Spread: 6.8°
■ Horiz. Spread: 6.3°

Zonal Lumen

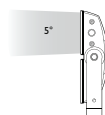
Zone	Lumens	% Luminaire
0-30	9,687.6	100.0%
0-40	9,687.6	100.0%
0-60	9,687.6	100.0%
0-90	9,687.6	100.0%
60-90	0.0	0.0%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	9,687.6	100.0%

Coefficients Of Utilization - Zonal Cavity Method

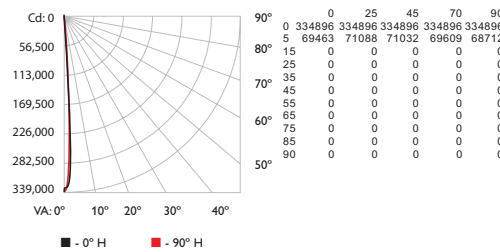
		Effective Floor Cavity Reflectance: 20%																										
RCC %:	80					70					50					30					10					0		
RW %:	70	50	30	0	0	70	50	30	0	0	50	30	0	0	50	30	0	0	50	30	0	0	50	30	0	0		
RCR:																												
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
1	1.17	1.15	1.14	1.13	1.14	1.13	1.12	1.00	1.09	1.08	1.08	1.06	1.05	1.05	1.02	1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
2	1.15	1.12	1.11	1.09	1.13	1.11	1.09	1.00	1.08	1.07	1.05	1.05	1.04	1.03	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
3	1.13	1.10	1.08	1.06	1.12	1.09	1.07	1.00	1.07	1.05	1.04	1.05	1.03	1.02	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
4	1.12	1.09	1.06	1.05	1.11	1.08	1.06	1.00	1.06	1.04	1.03	1.04	1.03	1.02	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
5	1.11	1.07	1.05	1.04	1.10	1.07	1.05	1.00	1.05	1.02	1.01	1.03	1.02	1.01	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
6	1.10	1.07	1.04	1.03	1.09	1.06	1.04	1.00	1.05	1.03	1.02	1.04	1.02	1.01	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
7	1.09	1.06	1.04	1.02	1.08	1.05	1.03	1.00	1.04	1.03	1.01	1.04	1.02	1.01	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
8	1.08	1.05	1.03	1.02	1.08	1.05	1.03	1.00	1.04	1.02	1.01	1.03	1.02	1.01	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
9	1.07	1.05	1.03	1.01	1.07	1.04	1.02	1.00	1.04	1.02	1.01	1.03	1.02	1.01	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
10	1.07	1.04	1.02	1.01	1.07	1.04	1.02	1.00	1.03	1.02	1.01	1.03	1.02	1.01	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		

ColorReach Powercore RGB 5° native lens, half unit

Lumens	Efficacy
4,935	36.3



Polar Candela Distribution



Illuminance at Distance

	Center Beam fc	Beam Width
4 ft	20,931 fc	0.5 ft 0.4 ft
8 ft	5,233 fc	1.0 ft 0.8 ft
12 ft	2,326 fc	1.5 ft 1.2 ft
16 ft	1,308 fc	1.9 ft 1.7 ft
20 ft	837 fc	2.4 ft 2.1 ft
24 ft	581 fc	2.9 ft 2.5 ft

580 ft (176.8 m)
1 fc maximum distance

■ Vert. Spread: 7.0°
■ Horiz. Spread: 5.9°

Zonal Lumen

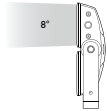
Zone	Lumens	% Luminaire
0-30	4,934.7	100.0%
0-40	4,934.7	100.0%
0-60	4,934.7	100.0%
0-90	4,934.7	100.0%
60-90	0.0	0.0%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	4,934.7	100.0%

Coefficients Of Utilization - Zonal Cavity Method

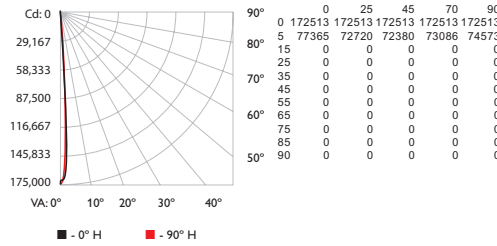
RCC %:		80				70				50				30				20				10				0			
Rw	%:	70	50	30	0	70	50	30	0	50	30	0	50	30	0	50	30	0	50	30	0	50	30	0	50	30	0		
RCR:																													
0		1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00										
1		1.17	1.15	1.14	1.13	1.14	1.13	1.12	1.00	1.09	1.08	1.08	1.06	1.05	1.05	1.02	1.02	1.02	1.00										
2		1.15	1.12	1.11	1.09	1.13	1.11	1.08	1.00	1.08	1.07	1.05	1.05	1.04	1.03	1.03	1.02	1.01	1.00										
3		1.13	1.10	1.08	1.06	1.12	1.09	1.07	1.00	1.07	1.05	1.04	1.05	1.03	1.02	1.03	1.02	1.01	1.00										
4		1.12	1.09	1.06	1.05	1.11	1.08	1.06	1.00	1.06	1.04	1.03	1.04	1.03	1.02	1.03	1.02	1.01	1.00										
5		1.11	1.07	1.05	1.04	1.10	1.07	1.05	1.00	1.05	1.04	1.02	1.04	1.02	1.01	1.03	1.01	1.00	1.00										
6		1.10	1.07	1.04	1.03	1.09	1.06	1.04	1.00	1.05	1.03	1.02	1.04	1.02	1.01	1.03	1.02	1.01	1.00										
7		1.09	1.06	1.04	1.02	1.08	1.05	1.03	1.00	1.04	1.03	1.01	1.04	1.02	1.01	1.03	1.02	1.01	1.00										
8		1.08	1.05	1.03	1.02	1.08	1.05	1.03	1.00	1.04	1.02	1.01	1.03	1.02	1.01	1.03	1.01	1.00	1.00										
9		1.08	1.05	1.03	1.01	1.07	1.04	1.02	1.00	1.04	1.02	1.01	1.03	1.02	1.01	1.03	1.02	1.01	1.00										
10		1.07	1.04	1.02	1.01	1.07	1.04	1.02	1.00	1.03	1.02	1.01	1.03	1.02	1.01	1.03	1.01	1.00	1.00										

ColorReach Powercore RGB 8° diffuser lens, half unit

Lumens	Efficacy
4,680	34.4



Polar Candela Distribution



Illuminance at Distance

	Center Beam fc	Beam Width
4 ft	10,782 fc	0.7 ft 0.6 ft
8 ft	2,696 fc	1.3 ft 1.2 ft
12 ft	1,198 fc	2.0 ft 1.8 ft
16 ft	674 fc	2.6 ft 2.4 ft
20 ft	431 fc	3.3 ft 3.1 ft
24 ft	300 fc	4.0 ft 3.7 ft

415 ft (126.5 m)
1 fc maximum distance

■ Vert. Spread: 9.4°
■ Horiz. Spread: 8.7°

Zonal Lumen

Zone	Lumens	% Luminaire
0-30	4,680.1	100.0%
0-40	4,680.1	100.0%
0-60	4,680.1	100.0%
0-90	4,680.1	100.0%
60-90	0.0	0.0%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	4,680.1	100.0%

Coefficients Of Utilization - Zonal Cavity Method

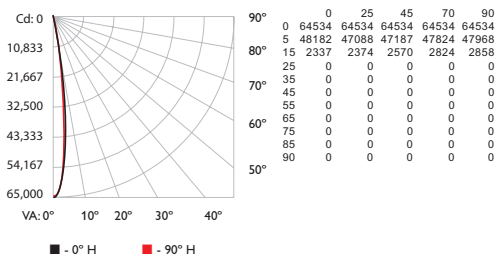
RCC %:		80				70				50				30				0				Effective Floor Cavity				Reflection: 20%			
RW %:		70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0
RCR:																													
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
1	1.17	1.15	1.14	1.13	1.14	1.13	1.12	1.09	1.08	1.08	1.06	1.05	1.04	1.02	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2	1.15	1.12	1.10	1.09	1.13	1.11	1.09	1.08	1.06	1.05	1.05	1.04	1.03	1.02	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
3	1.13	1.10	1.08	1.06	1.11	1.09	1.07	1.07	1.05	1.04	1.04	1.03	1.02	1.02	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
4	1.12	1.08	1.06	1.04	1.10	1.07	1.05	1.05	1.06	1.04	1.03	1.03	1.02	1.02	1.01	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
5	1.10	1.07	1.05	1.03	1.09	1.06	1.04	1.04	1.05	1.02	1.02	1.01	1.01	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
6	1.09	1.06	1.04	1.02	1.09	1.06	1.03	1.03	1.04	1.03	1.01	1.01	1.01	1.02	1.01	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
7	1.09	1.05	1.03	1.02	1.08	1.05	1.03	1.03	1.04	1.02	1.01	1.01	1.01	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
8	1.08	1.05	1.03	1.01	1.07	1.04	1.02	1.00	1.03	1.02	1.01	1.01	1.01	1.03	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
9	1.07	1.04	1.02	1.01	1.07	1.04	1.02	1.00	1.03	1.01	1.00	1.00	1.00	1.03	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
10	1.07	1.04	1.02	1.00	1.06	1.03	1.02	1.00	1.03	1.01	1.00	1.00	1.00	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

ColorReach Powercore RGB 13° diffuser lens, half unit

Lumens	Efficacy
4,272	31.4



Polar Candela Distribution



Illuminance at Distance

	Center Beam fc	Beam Width
4 ft	4,033 fc	1.0 ft 1.0 ft
8 ft	1,008 fc	2.0 ft 1.9 ft
12 ft	448 fc	3.0 ft 2.9 ft
16 ft	252 fc	4.0 ft 3.9 ft
20 ft	161 fc	5.0 ft 4.9 ft
24 ft	112 fc	5.9 ft 5.8 ft

254 ft (77.4 m)
1 fc maximum distance

■ Vert. Spread: 14.1°
■ Horiz. Spread: 13.8°

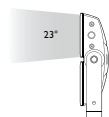
Zonal Lumen

Zone	Lumens	% Luminaire
0-30	4,272.0	100.0%
0-40	4,272.0	100.0%
0-60	4,272.0	100.0%
0-90	4,272.0	100.0%
60-90	0.0	0.0%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	4,272.0	100.0%

Coefficients Of Utilization - Zonal Cavity Method

RCC %:					Effective Floor Cavity Reflection: 20%										
RW %:	80	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR:	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.11	1.11	1.11	1.06	1.06	1.06	1.02
1	1.16	1.15	1.13	1.12	1.14	1.13	1.11	0.99	1.09	1.08	1.07	1.05	1.04	1.04	1.02
2	1.14	1.11	1.09	1.07	1.12	1.10	1.08	0.99	1.07	1.05	1.04	1.04	1.03	1.02	1.01
3	1.12	1.08	1.06	1.04	1.10	1.07	1.05	0.98	1.05	1.03	1.02	1.03	1.01	1.00	0.99
4	1.10	1.06	1.03	1.01	1.09	1.05	1.03	0.97	1.03	1.01	1.00	1.02	1.00	0.99	0.97
5	1.08	1.04	1.02	1.00	1.07	1.04	1.01	0.96	1.02	1.00	0.98	1.01	0.99	0.98	0.96
6	1.07	1.03	1.00	0.98	1.06	1.02	1.00	0.96	1.01	0.99	0.97	1.00	0.98	0.97	0.95
7	1.05	1.01	0.99	0.97	1.05	1.01	0.98	0.95	1.00	0.98	0.96	0.99	0.97	0.96	0.95
8	1.04	1.00	0.98	0.96	1.04	1.00	0.97	0.94	0.99	0.97	0.95	0.98	0.96	0.95	0.94
9	1.03	0.99	0.97	0.95	1.02	0.99	0.96	0.94	0.98	0.96	0.94	0.97	0.95	0.94	0.93
10	1.02	0.98	0.96	0.94	1.02	0.98	0.95	0.93	0.97	0.95	0.94	0.97	0.95	0.93	0.93

Lumens	Efficacy
4,111	30.2



	0	25	45	70	90
90°	0	26059	26059	26059	26059
80°	5	22893	23080	23279	23524
	15	6684	6781	6977	7146
	25	607	608	627	639
70°	35	0	0	0	0
	45	0	0	0	0
	55	0	0	0	0
60°	65	0	0	0	0
	75	0	0	0	0
	85	0	0	0	0
50°	90	0	0	0	0

Cd: 0
 4,500
 9,000
 13,500
 18,000
 22,500
 27,000

VA: 0° 10° 20° 30° 40°

■ - 0° H ■ - 90° H

	Center Beam fc	Beam Width
4 ft	1,629 fc	1.5 ft
8 ft	407 fc	3.0 ft
12 ft	181 fc	4.6 ft
16 ft	102 fc	6.1 ft
20 ft	65 fc	7.6 ft
24 ft	45 fc	9.1 ft

161.5 ft (49.2 m)
 1 fc maximum distance

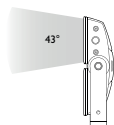
Vert. Spread: 21.6°

Horiz. Spread: 21.6°

Zone	Lumens	% Luminaire
0-30	4,109.0	99.9%
0-40	4,111.2	100.0%
0-60	4,111.2	100.0%
0-90	4,111.2	100.0%
60-90	0.0	0.0%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	4,111.2	100.0%

		Effective Floor Cavity Reflectance: 20%																				
RCR %:		80				70				50				30				10				0
RW %:		70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	0
RCR:																						
1	1.19	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00	0.98	0.98
2	1.16	1.14	1.12	1.10	1.16	1.13	1.11	1.10	0.98	1.06	1.06	1.05	1.01	1.04	1.03	1.01	1.00	0.99	0.98	0.98	0.96	0.98
3	1.12	1.09	1.06	1.04	1.08	1.07	1.05	1.05	0.96	1.04	1.02	1.01	1.02	0.99	0.99	0.98	0.97	0.96	0.97	0.95	0.97	0.95
4	1.09	1.05	1.02	1.00	1.08	1.04	1.01	1.01	0.94	1.02	0.99	0.97	0.99	0.97	0.96	0.96	0.94	0.96	0.94	0.94	0.96	0.94
5	1.07	1.02	0.98	0.96	1.06	1.01	0.95	0.92	0.90	0.96	0.96	0.94	0.97	0.95	0.93	0.93	0.91	0.92	0.90	0.92	0.91	0.91
6	1.04	0.98	0.95	0.93	1.03	0.98	0.95	0.90	0.87	0.94	0.94	0.92	0.95	0.93	0.91	0.91	0.89	0.92	0.89	0.88	0.90	0.88
7	1.02	0.96	0.93	0.90	1.01	0.95	0.92	0.86	0.84	0.92	0.91	0.89	0.93	0.91	0.89	0.87	0.86	0.90	0.88	0.87	0.88	0.86
8	0.99	0.94	0.90	0.88	0.96	0.93	0.90	0.85	0.82	0.92	0.89	0.87	0.91	0.89	0.87	0.85	0.84	0.88	0.86	0.86	0.87	0.86
9	0.97	0.92	0.88	0.86	0.95	0.91	0.88	0.83	0.80	0.90	0.87	0.85	0.90	0.87	0.85	0.83	0.82	0.86	0.85	0.84	0.85	0.84
10	0.95	0.90	0.86	0.84	0.93	0.89	0.86	0.81	0.78	0.88	0.86	0.84	0.88	0.85	0.83	0.82	0.80	0.83	0.83	0.83	0.83	0.82
11	0.94	0.89	0.84	0.82	0.91	0.87	0.84	0.79	0.76	0.86	0.84	0.82	0.86	0.83	0.81	0.80	0.78	0.81	0.81	0.81	0.81	0.80

Lumens	Efficacy
4,049	29.8



	0	25	45	70	90
90°	0	7119	7119	7119	7119
80°	5	6922	6845	6829	6848
	15	5145	5046	5026	5052
	25	2705	2647	2665	2738
	35	912	907	928	882
70°	45	183	185	188	199
	55	9	9	6	5
	65	0	0	0	0
60°	75	0	0	0	0
	85	0	0	0	0
50°	90	0	0	0	0

VA: 0° 10° 20° 30° 40°

■ - 0° H ■ - 90° H

The diagram shows a cross-section of a beam with a total height of 24 ft. The beam width is 3.1 ft at the top (4 ft height) and increases linearly to 18.7 ft at the base (24 ft height). The beam width is 3.2 ft at 4 ft, 6.2 ft at 8 ft, 9.3 ft at 12 ft, 12.4 ft at 16 ft, 15.5 ft at 20 ft, and 19.1 ft at 24 ft. The beam width is 3.1 ft at the top (4 ft height) and increases linearly to 18.7 ft at the base (24 ft height). The beam width is 3.2 ft at 4 ft, 6.2 ft at 8 ft, 9.3 ft at 12 ft, 12.4 ft at 16 ft, 15.5 ft at 20 ft, and 19.1 ft at 24 ft.

Height (ft)	Center Beam fc	Beam Width
4	445 fc	3.1 ft 3.2 ft
8	111 fc	6.2 ft 6.4 ft
12	49 fc	9.3 ft 9.6 ft
16	28 fc	12.4 ft 12.7 ft
20	18 fc	15.5 ft 15.9 ft
24	12 fc	18.7 ft 19.1 ft

84.5 ft (25.8 m)
1 fc maximum distance

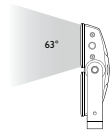
■ Vert. Spread: 42.5°
 ■ Horiz. Spread: 43.4°

Zone	Lumens	% Luminaire
0-30	3,281.0	81.0%
0-40	3,886.0	96.0%
0-60	4,049.4	100.0%
0-90	4,049.4	100.0%
60-90	0.0	0.0%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	4,049.4	100.0%

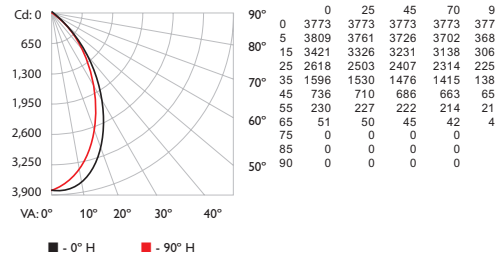
RC: %		80				70				50				30				10				20%	
RW: %		70				50				30				10				0		0			
RCR:		70				50				30				10				0		0			
0	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00				
1	1.14	1.11	1.09	1.07	1.12	1.06	1.06	1.06	1.05	1.04	1.02	1.02	1.00	0.99	0.98	0.98	0.97	0.96	0.95				
2	1.09	1.05	1.01	0.98	1.07	1.03	1.00	0.98	1.00	0.97	0.93	0.93	0.91	0.89	0.88	0.88	0.87	0.85	0.81				
3	1.04	0.98	0.94	0.90	1.02	0.97	0.93	0.85	0.94	0.91	0.88	0.92	0.89	0.87	0.86	0.80	0.85	0.84					
4	1.00	0.93	0.88	0.84	0.98	0.92	0.87	0.80	0.90	0.86	0.83	0.88	0.84	0.82	0.80	0.83	0.81	0.79					
5	0.95	0.88	0.82	0.79	0.94	0.87	0.82	0.76	0.85	0.81	0.78	0.83	0.80	0.77	0.72	0.78	0.76	0.75					
6	0.91	0.83	0.78	0.74	0.90	0.83	0.77	0.72	0.81	0.77	0.73	0.78	0.75	0.73	0.70	0.75	0.73	0.71					
7	0.87	0.79	0.73	0.70	0.86	0.78	0.73	0.68	0.77	0.72	0.69	0.76	0.72	0.69	0.67	0.71	0.68	0.67					
8	0.84	0.75	0.70	0.66	0.82	0.74	0.69	0.65	0.73	0.69	0.65	0.72	0.68	0.65	0.63	0.68	0.65	0.64					
9	0.81	0.73	0.68	0.64	0.79	0.71	0.66	0.62	0.70	0.66	0.62	0.69	0.65	0.62	0.60	0.65	0.62	0.61					
10	0.77	0.68	0.63	0.59	0.75	0.69	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.57	0.62	0.59	0.58					

ColorReach Powercore RGB 63° diffuser lens, half unit

Lumens	Efficacy
4,023	29.6



Polar Candela Distribution



Illuminance at Distance

Center Beam fc	Beam Width
4 ft	236 fc 4.7 ft 4.6 ft
8 ft	59 fc 9.4 ft 9.1 ft
12 ft	26 fc 14.0 ft 13.7 ft
16 ft	15 fc 18.7 ft 18.7 ft
20 ft	9 fc 23.4 ft 22.9 ft
24 ft	7 fc 28.1 ft 27.4 ft

61.5 ft (18.7 m)
1 fc maximum distance

Vert. Spread: 60.6°
Horiz. Spread: 59.5°

Zonal Lumen

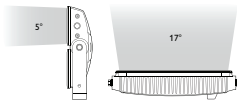
Zone	Lumens	% Luminaire
0-30	2,322.4	57.7%
0-40	3,230.6	80.3%
0-60	3,970.1	98.7%
0-90	4,023.5	100.0%
60-90	53.4	1.3%
70-100	2.0	0.1%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	4,023.5	100.0%

Coefficients Of Utilization - Zonal Cavity Method

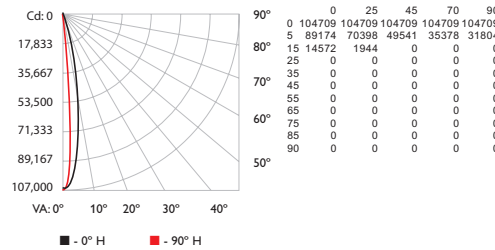
RCC %:	80	70	50	30	10	0
RW %:	70	50	30	0	50	30
RCR:	0	1	2	3	4	5
0	1.19	1.19	1.19	1.19	1.16	1.16
1	1.13	1.10	1.07	1.05	1.10	1.08
2	1.06	1.01	0.97	0.93	1.04	1.02
3	1.00	0.93	0.87	0.83	0.98	0.92
4	0.94	0.86	0.80	0.75	0.92	0.85
5	0.89	0.79	0.73	0.68	0.87	0.79
6	0.84	0.74	0.67	0.62	0.82	0.73
7	0.79	0.69	0.62	0.57	0.78	0.68
8	0.75	0.64	0.58	0.53	0.73	0.64
9	0.71	0.60	0.54	0.49	0.70	0.60
10	0.67	0.56	0.50	0.46	0.66	0.56

ColorReach Powercore RGB 5° x 17° asymmetric lens, half unit

Lumens	Efficacy
4,303	31.6



Polar Candela Distribution



Illuminance at Distance

Center Beam fc	Beam Width
4 ft	6,544 fc 1.2 ft 0.5 ft
8 ft	1,636 fc 2.4 ft 1.0 ft
12 ft	727 fc 3.7 ft 1.4 ft
16 ft	409 fc 4.9 ft 1.9 ft
20 ft	262 fc 6.1 ft 2.4 ft
24 ft	182 fc 7.3 ft 2.9 ft

324 ft (98.8 m)
1 fc maximum distance

Vert. Spread: 17.4°
Horiz. Spread: 6.8°

Zonal Lumen

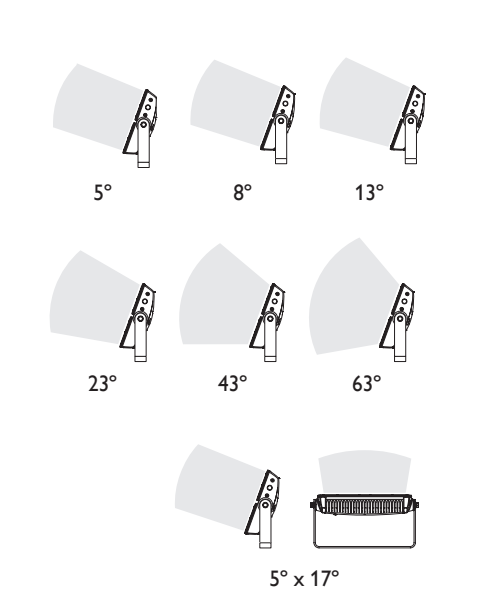
Zone	Lumens	% Luminaire
0-30	4,303.6	100.0%
0-40	4,303.6	100.0%
0-60	4,303.6	100.0%
0-90	4,303.6	100.0%
60-90	0.0	0.0%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	4,303.6	100.0%

Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80	70	50	30	10	0
RW %:	70	50	30	0	50	30
RCR:	0	1	2	3	4	5
0	1.19	1.19	1.19	1.19	1.16	1.16
1	1.16	1.15	1.13	1.12	1.14	1.13
2	1.14	1.11	1.09	1.07	1.12	1.10
3	1.12	1.09	1.06	1.04	1.10	1.07
4	1.10	1.07	1.04	1.02	1.09	1.06
5	1.09	1.05	1.02	1.00	1.07	1.04
6	1.07	1.03	1.01	0.99	1.06	1.03
7	1.06	1.02	0.99	0.97	1.05	1.01
8	1.05	1.01	0.98	0.96	1.04	1.00
9	1.04	1.00	0.97	0.95	1.03	0.99
10	1.03	0.99	0.96	0.95	1.02	0.99

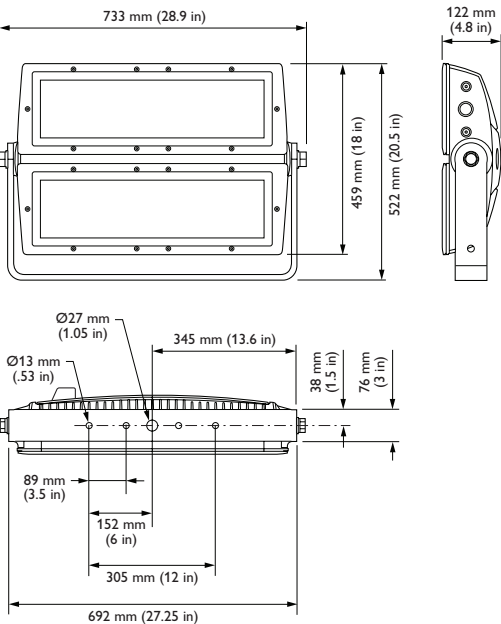
Specifications, UL/CE

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



Item	Specification	Details
Output	Beam Angle	5° primary optic (no spread lens) 8°/13°/23°/43°/63°/5° x 17° (asymmetric) spread lenses
	Lumens†	9,380 (full unit, no spread lens)
	LED Channels	Red/Green/Blue
	Lumen Maintenance§¶	100,000 hours L70 @ 25° C 100,000 hours L70 @ 50° C
Electrical	Input Voltage	100 to 277 VAC, auto-switching, 50/60 Hz
	Power Consumption	270 W maximum at full output, steady state
Control	Interface	Data Enabler Pro (DMX/Ethernet)
	Control System	Philips Color Kinetics full range of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, or third-party controllers
Physical	Dimensions (Height x Width x Depth)	522 x 733 x 122 mm (20.5 x 28.9 x 4.8 in)
	Weight	34 kg (75 lb)
	Effective Projected Area (EPA)	0.42 m²
	Housing	Die-cast aluminium, powder-coated finish
	Mechanical Impact	IK07
	Lens	Tempered glass
	Luminaire Connections	Integral male/female waterproof connector
	Temperature Ranges	-40 to 50 °C (-40 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 www.philipscolorkinetics.com/support/install_tool/
Certification and Safety	Certification	UL/cUL, CE, FCC Class A, PSE
	Environment	Dry/Damp/Wet Location, IP66

† Lumen measurement complies with IES LM-79-08 testing procedures
§ Lxx = xx% lumen maintenance (when light output drops below xx% 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.



Specifications, CQC

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

Item	Specification	Details
Output	Beam Angle	5° primary optic (no spread lens) 8°/13°/23°/43°/63°/5° x 17° (asymmetric) spread lenses
	Lumens†	9,380 (full unit, no spread lens)
	LED Channels	Red/Green/Blue
	Lumen Maintenance§¶	100,000 hours L70 @ 25° C 100,000 hours L70 @ 50° C
Electrical	Input Voltage	100 to 240 VAC, auto-switching, 50/60 Hz
	Power Consumption	290 W maximum at full output, steady state
Control	Interface	Data Enabler Pro (DMX/Ethernet)
	Control System	Philips Color Kinetics full range of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, or third-party controllers
Physical	Dimensions (Height x Width x Depth)	522 x 733 x 122 mm (20.5 x 28.9 x 4.8 in)
	Weight	34 kg (75 lb)
	Effective Projected Area (EPA)	0.42 m²
	Housing	Die-cast aluminium, powder-coated finish
	Mechanical Impact	IK07
	Lens	Tempered glass
	Luminaire Connections	Integral male/female waterproof connector, 6 ft (1.8 m) unified power/data cable
	Temperature Ranges	-40 to 50 °C (-40 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 www.philipscolorkinetics.com/support/install_tool/
Certification and Safety	Certification	CQC, FCC Class A, CE, PSE, C-Tick
	Environment	Dry/Damp/Wet Location, IP66

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

§ Lxx = xx% lumen maintenance (when light output drops below xx% 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.

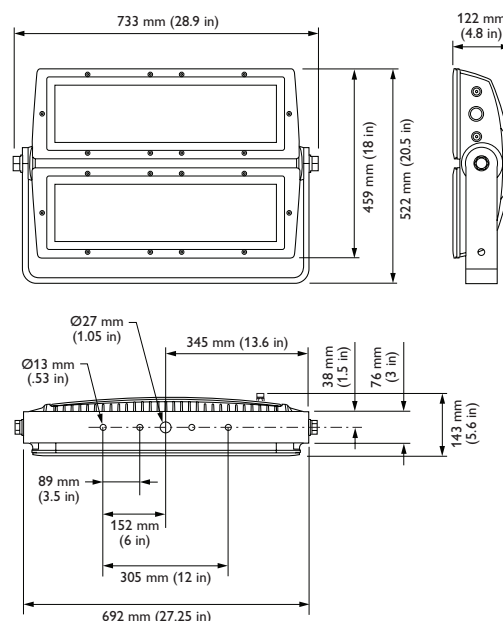
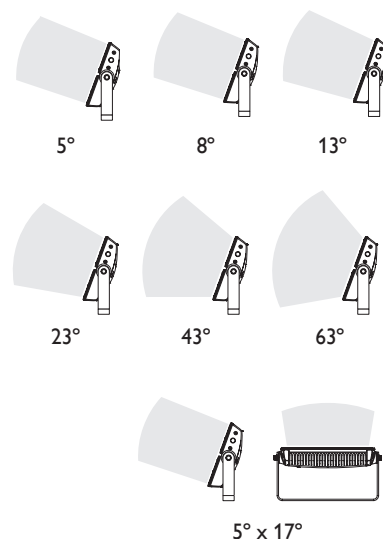
¶ Lumen maintenance figures are based on lifetime prediction graphs supplied by LED source manufacturers. Whenever possible, figures use measurements that comply with IES LM-80-08 testing procedures. In accordance with TM-21-11, reported values represent the interpolated value based on six times the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



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Custom Configurations

In addition to the standard configurations listed here, custom configurations are also available with non-standard colors or color temperatures. See the ColorReach Powercore gen2 Ordering Information sheet at www.philipscolorkinetics.com/ls/rgb/colorreach/ for complete details.

Component	Available Non-Standard Options
Color Temperature	2700 K, 3000 K, 3500 K, 4000 K, 5500 K, 6000 K, 6500 K
Color	Royal Blue, Blue, Green, Amber, Red

Luminaires and Data Enabler Pro

ColorReach Powercore gen2 luminaires are part of a complete line-voltage system that includes luminaires and:

- One or more Data Enabler Pro devices.
- Any Philips controller, including Light System Manager, iPlayer 3, and ColorDial Pro, or a third-party controller.
- One 1.8 m (6 ft) leader cable (included with CQC luminaire) to connect each ColorReach Powercore gen2 luminaire to a junction box or Data Enabler Pro.
- 4-conductor copper wire to connect ColorReach Powercore gen2 luminaires in series or in parallel. Standard 12 AWG (2.05 mm) stranded wire is recommended

Luminaires

Item	Item Number*	Philips 12NC
ColorReach Powercore gen2 UL/CE (Leader cable sold separately)	123-000153-02	912400133609
ColorReach Powercore gen2 CQC (Includes 1.8 m (6 ft) leader cable)	123-000013-52	912400133606

Data Enabler

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

Use Item Number when ordering in North America.

Accessories

All of the Philips Color Kinetics accessories are designed to provide customizable options for controlling and dispersing light as well as added protection.

* For complete instructions on how to install the accessories, refer to the ColorReach Powercore gen2 Accessory Installation Instructions at <http://www.colorkinetics.com/ls/accessories/Reach-Powercore/>

Item	Item Number	Philips 12NC
Leader Cable, 100 to 277 VAC, UL, 3 m (10 ft)	108-000055-03	910503704066
Leader Cable, 100 to 277 VAC, UL, 15.2 m (50 ft)	108-000055-00	910503703137
Leader Cable, 100 to 277 VAC, CE/PSE, 3 m (10 ft)	108-000055-04	910503704067
Leader Cable, 100 to 277 VAC, CE/PSE, 15.2 m (50 ft)	108-000055-01	910503704064
Leader Cable, 100 to 240 VAC, CE/PSE, 1.8 m (6 ft)	108-000043-03	910503700454

Item	Item Number	Philips 12NC	
Louver (Requires Trim Bezel)	120-000187-02	912400133589	
Half Glare Shield (Requires Trim Bezel)	120-000187-01	912400133588	
Full Glare Shield (Requires Trim Bezel)	120-000187-00	912400133587	

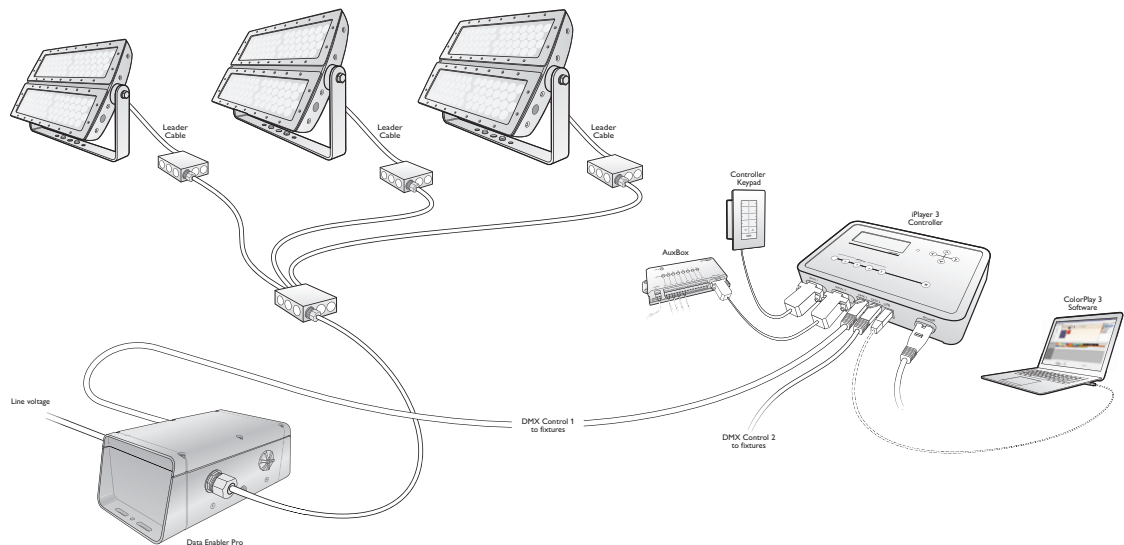
Use Item Number when ordering in North America.

Item	Item Number	Philips 12NC	
Trim Bezel	120-000187-03	912400134263	
8° Spread Lens with Bezel	120-000068-17	912400133598	 
13° Spread Lens with Bezel	120-000068-12	912400133593	
23° Spread Lens with Bezel	120-000068-13	912400133594	
43° Spread Lens with Bezel	120-000068-14	912400133595	
63° Spread Lens with Bezel	120-000068-15	912400133596	
5° X 17° Asymmetric Spread Lens with Bezel	120-000068-16	912400133597	

Use Item Number when ordering in North America.

Typical ColorReach Powercore installation

For detailed wiring diagrams visit www.philipscolorkinetics.com/support/wiring/lis_prod.html



Installation

ColorReach Powercore, a high-performance exterior architectural floodlight with extended light projection, is designed to brilliantly and dynamically illuminate prominent, signature façades. Because each ColorReach Powercore luminaire weighs 34 kg (75 lb), you may need two people to lift the luminaire out of the box and position it in the mounting location. Optional accessory optics require the installation of both the spread lens and a bezel.

Owner/User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate ColorReach 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.

 Refer to the ColorReach Powercore Installation Instructions for specific warning and caution statements.

Installing in Damp or Wet Locations

When installing in damp or wet locations, you must seal all junction boxes and Data Enabler Pro devices with electronics-grade RTV silicone sealant so that water or moisture cannot enter or accumulate in wiring compartments, cables, luminaires, or other electrical parts. You must use suitable outdoor-rated junction boxes when installing in wet or damp locations. Additionally, you must use gaskets, clamps, and other parts required for installation to comply with all applicable local and national codes.

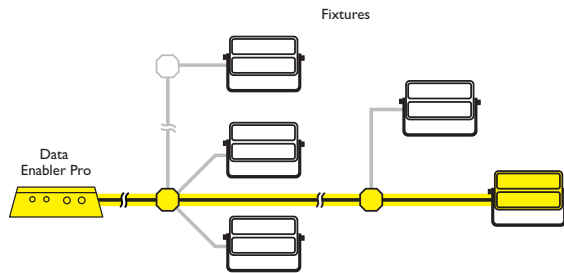
Prepare for the Installation

✳ To streamline the configuration of complex installations, record the serial number (DMX) or IP address (Ethernet) and location of each Data Enabler Pro.

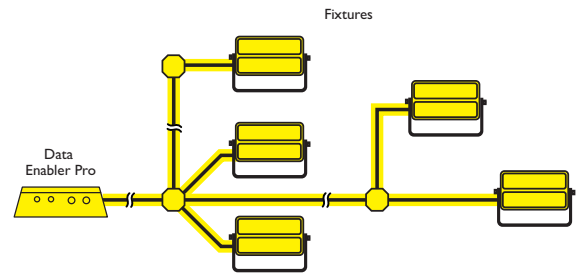
1. Refer to the lighting design plan, architectural diagram, or other diagram that shows the physical layout of the installation to identify the locations of all switches, controllers, Data Enabler Pro devices, luminaires, and cables.

ColorReach Powercore luminaires can be installed in series or in parallel (wired to a common junction box). The maximum number of luminaires each Data Enabler Pro can support depends on specific configuration details such as luminaire spacing, circuit size, line voltage, and method of connection (in series or in parallel). For more information, and for help calculating the number of luminaires your specific installation can support, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/, or consult Application Engineering Services at 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 length should not exceed 53.3 m (175 ft), and the total cable length per Data Enabler Pro should not exceed 122 m (400 ft).

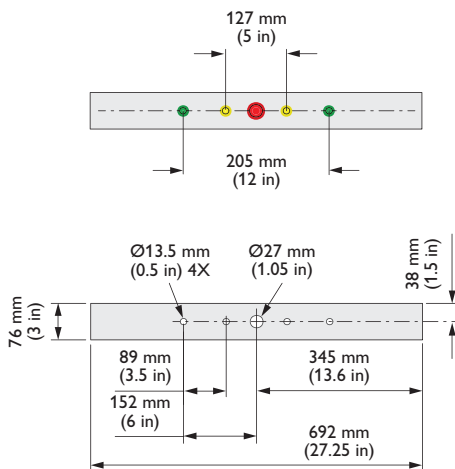


Data Integrity – maximum individual length 53.3 m (175 ft)



Data Integrity – total length 122 m (400 ft)

Mounting bracket dimensions for pre-drilling



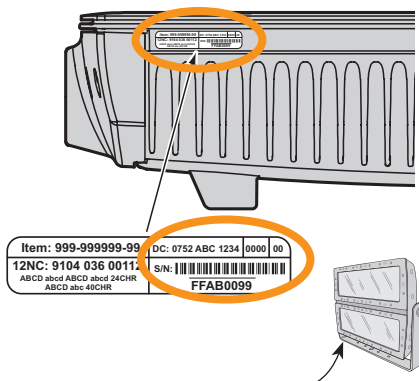
2. Ensure that the luminaire mounting locations and substrates are sufficiently sturdy to bear the weight of each ColorReach Powercore gen2 luminaire. Pre-drill holes in the mounting substrate if necessary, making reference to the mounting bracket dimensions. Use at least two screws to secure each luminaire, one on either side of the mounting bracket's central screw hole.

If mounting ColorReach Powercore gen2 on a lighting pole, make sure the pole can both support the total weight of the luminaires and withstand the maximum velocity winds to which it will be subjected. Each luminaire weighs 34 kg (75 lb), and has an effective projected area (EPA) of 0.42 m².

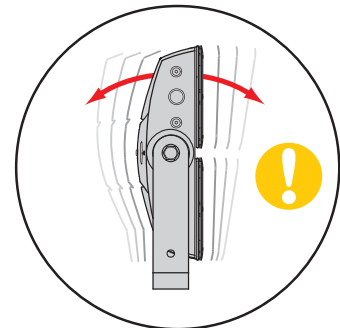
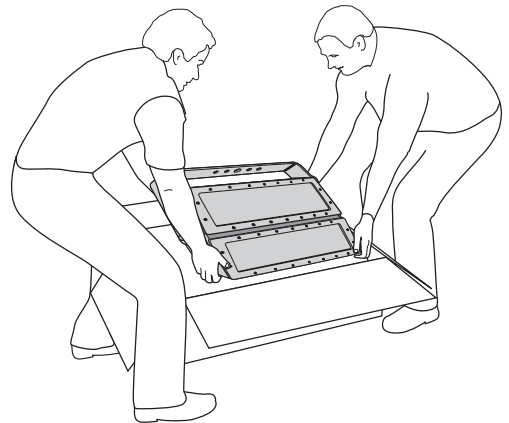
3. Install all Data Enabler Pro devices, including any interfaces with controllers. Data Enabler Pro and external controllers send power and control signals to luminaires over the single leader cable.
4. Verify that all additional supporting equipment (switches, controllers) is in place.
5. Ensure that all additional parts and tools are available, including:
 - A 28 mm hex or adjustable wrench for adjusting the locking bolts on the luminaire bracket.
 - One electrical junction box per luminaire, rated for your application. (Refer to the junction box manufacturer's literature for additional items required for mounting or sealing.)
 - A sufficient length of 4-conductor copper wire. We recommend 2.05 mm (12 AWG) stranded wire.
 - Conduit as required.
 - Electronics-grade room temperature vulcanizing (RTV) silicone sealant.

Unpack the Luminaires

1. Unpack ColorReach Powercore gen2 luminaires. Because each ColorReach Powercore gen2 luminaire weighs 34 kg (75 lb), you may need two people to lift the luminaire out of the box and position it in the mounting location.
2. Each ColorReach Powercore gen2 luminaire comes pre-programmed with a unique serial number. As you unpack the luminaires, record the serial numbers in a layout grid (typically a spreadsheet or list) for easy reference and light addressing.
3. Assign each luminaire to a position in the lighting design plan.



4. 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 light luminaire's housing.

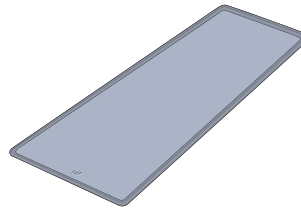


⚠ Do not rest ColorReach Powercore on its back, as doing so may damage the connector port. Be careful not to tip the luminaire over during positioning.

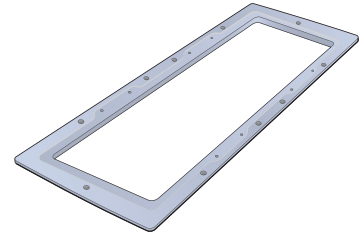
Attach Accessory Lenses (Optional)

Accessories can be installed to change the beam angle or add extra glare control protection to the luminaire in outdoor environments.

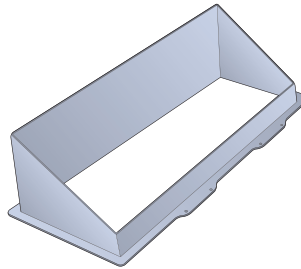
✳ For complete instructions on how to install the accessories, refer to the *Accessory Installation Instructions* at <http://www.colorkinetics.com/lis/accessories/Reach-Powercore/>



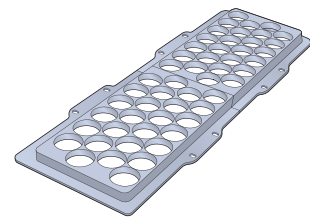
Spread Lens



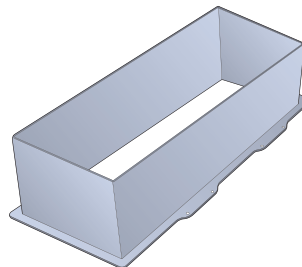
Trim Bezel



Half Glare Shield



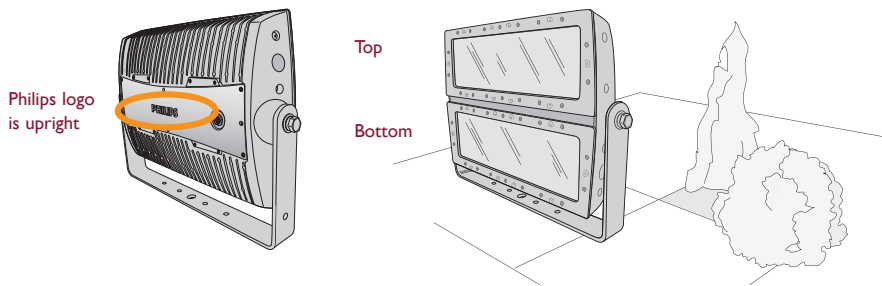
Louver



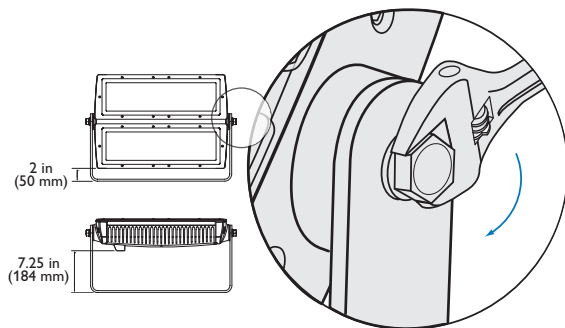
Full Glare Shield

Position and Mount Luminaires

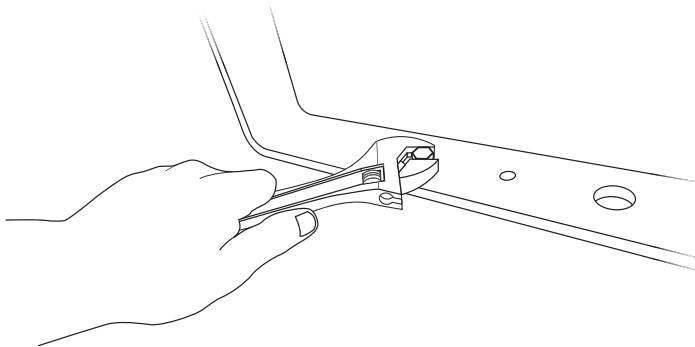
1. Position each ColorReach Powercore gen2 luminaire in its designated mounting location. Make sure the mounting area is clear of debris and other obstructions.



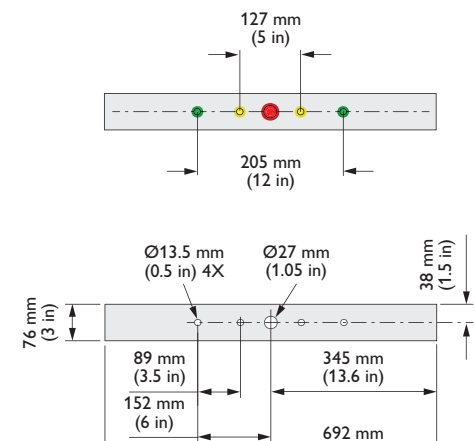
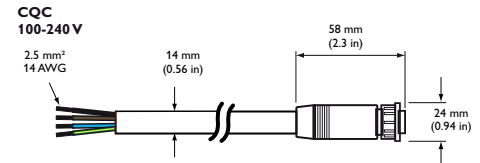
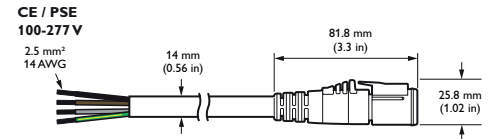
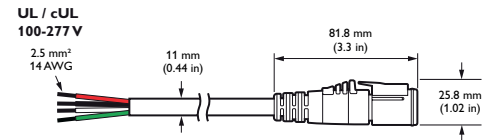
2. Loosen the locking bolts, using a 28 mm hex or adjustable wrench, and rotate the luminaire to access the mounting bracket. Tilting the luminaire 90° affords 184 mm (7.25 in) clearance.

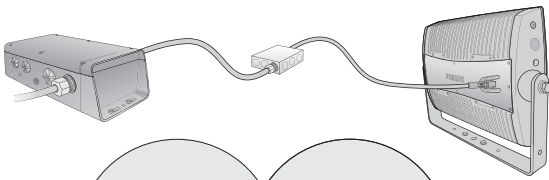


3. If mounting holes have been pre-drilled, align the mounting bracket's screw holes with the pre-drilled holes. Mount the luminaire bracket using hardware appropriate for the mounting substrate. Use at least two screws to secure each luminaire, one on either side of the mounting bracket's central screw hole.



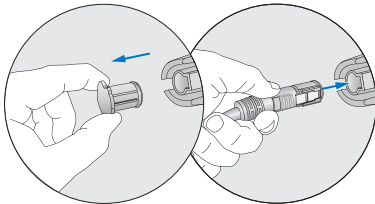
Leader Cable connector dimensions



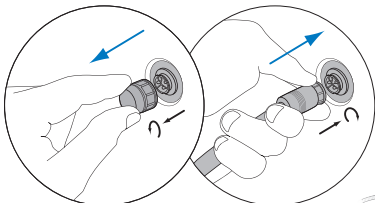


Connect the Luminaires

Make sure the power is OFF before connecting ColorReach Powercore gen2 luminaires.



UL/CE (100 to 277 VAC)

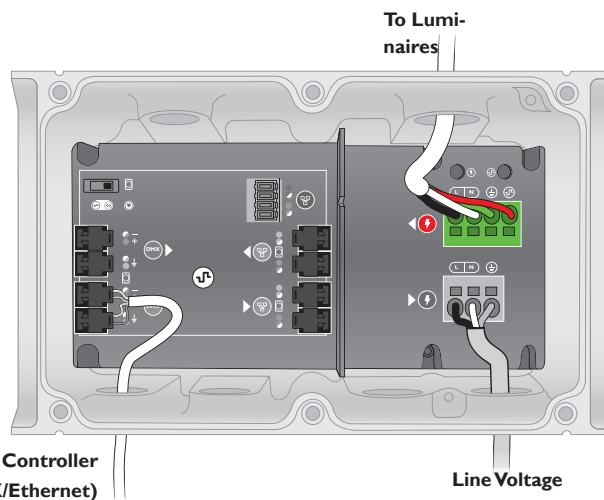
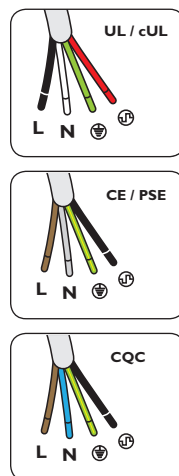
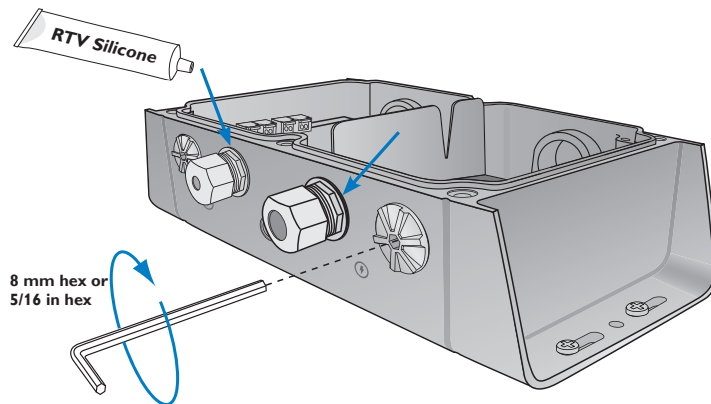


CQC (100 to 240 VAC)

1. Mount junction boxes in accordance with the lighting design plan.
2. If installing luminaires in a series, pull 4-conductor copper wire between each junction box in the series.

If installing luminaires in parallel, pull 4-conductor copper wire from a common junction box to each luminaire's junction box.

The maximum cable run from a Data Enabler Pro to any individual ColorReach Powercore luminaire is 53 m (175 ft). When installing in parallel, the total cable length cannot exceed 122 m (400 ft).
3. If necessary, remove the connector cap from the port on the back of the ColorReach Powercore housing, and insert the leader cable into the port.
For UL/CE luminaires, push the cable until the connector clicks and locks in place.
For CQC luminaires, turn the leader cable's lock nut to the right until it locks into place.
4. Use wire nuts to connect line, neutral, ground, and data. If installing in series, connect the leader cable from each luminaire to the luminaire's junction box. If installing in parallel, connect the leader cable from each luminaire to the lead wire from the Data Enabler Pro in the common junction box.
5. Tuck wire connections into the junction box.



6. Seal all junction boxes with electronics-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.
7. Run the wiring from the first junction box in the series to the Data Enabler Pro, or, if installing in parallel, run the wiring from the common junction box to the Data Enabler Pro. Secure connections within the Data Enabler Pro housing.

Address and Configure the Luminaires

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

ColorReach Powercore gen2 luminaires use DMX addresses to communicate with controllers. The number of DMX addresses each ColorReach Powercore gen2 luminaire requires depends on the luminaire's configuration.

ColorReach Powercore gen2 luminaires operate in 8-bit mode by default. You can configure luminaires to operate in 16-bit mode, which increases resolution for smoother dimming and more precise control. You can also configure luminaires to operate in full-luminaire mode or half-luminaire mode. In full-luminaire mode, the top and bottom halves of the luminaire work in unison (show the same light output simultaneously). In half-luminaire mode, the two halves work independently (can show different light output simultaneously).

In 8-bit mode, luminaires use one DMX address per LED channel (one for red, one for green, and one for blue). In 16-bit mode, luminaires 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.

ColorReach Powercore gen2 luminaires come factory-addressed with a starting DMX address of 1. For lighting designs where luminaires work in unison, all luminaires can be assigned the same starting DMX address. Changes to the default starting DMX addresses are not necessary, but if lights 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 your luminaires and sort them in a useful order.

The following table shows the DMX channel assignments for the different possible ColorReach Powercore gen2 configurations, assuming a starting DMX address of 1.

DMX 3-Channel Assignments

8-Bit Mode						
Half Lumi- naire	1	2	3			
	Red	Green	Blue			

16-Bit Mode						
Full Lumi- naire	1	2	3	4	5	6
	Red	Red	Green	Green	Blue	Blue

You can switch between full-luminaire mode and half-luminaire mode, assign unique DMX addresses to luminaires, or set all luminaires to the same starting DMX address using QuickPlay Pro software. Luminaires are identified within QuickPlay Pro by serial number, so you will need the layout grid that you created when you recorded the serial numbers of your luminaires during installation planning.

- In Ethernet installations, you can use QuickPlay Pro with a computer connected directly to a switch within the light system's network. QuickPlay Pro can automatically discover all luminaires, controllers, and Data Enabler Pro devices for quick configuration.
- In DMX installations, you can address and configure 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 configuration, refer to *Addressing and Configuration using QuickPlay Pro* at www.philipscolorkinetics.com/support/addressing.

 You can download QuickPlay Pro from www.philipscolorkinetics.com/support/addressing/

Aim and Lock the Luminaires

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

1. Aim the luminaires by rotating each luminaire to the correct angle.
2. Lock the luminaires by tightening the locking bolts using a 28 mm hex or adjustable wrench.

✳ For exterior applications with direct exposure to water, ColorReach Powercore gen2 luminaires should not be aimed directly upwards, as water may pool on the lens and affect beam quality. Instead, the luminaire should be angled to allow for proper water drainage.

