



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

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

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

# iW Reach Compact Powercore

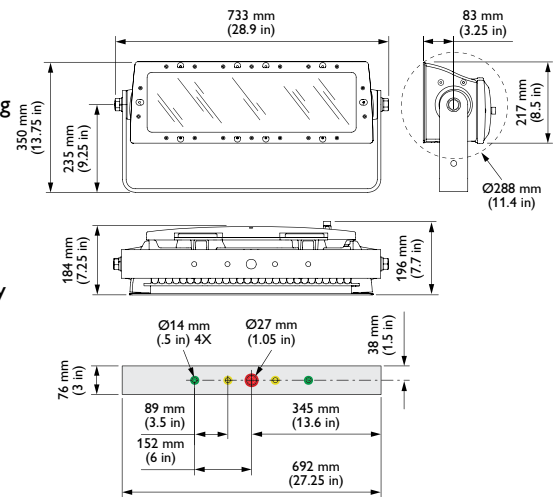
## 23° spread lens, CQC

Premium long-throw compact exterior LED floodlight with intelligent white light

iW Reach Compact Powercore combines all the benefits of LED-based lighting and control in a compact fixture specifically designed for large-scale installations, such as skyscrapers, casinos, bridges, piers, public monuments, and themed attractions. iW Reach Compact Powercore combines channels of warm, neutral, and cool LED sources to offer high-quality variable white light in color temperatures ranging from 2700 K – 6500 K. iW Reach Compact Powercore delivers intense, energy-efficient output at a reasonable price, opening up new possibilities for exterior illumination.

- Integrates Powercore technology — Powercore technology rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage. Philips Data Enabler Pro merges line voltage and control data and delivers them to fixtures over a single standard cable, dramatically simplifying installation and lowering total system cost.
- High-performance illumination in a wide range of color temperatures — Channels of warm, neutral, and cool white LEDs produce temperatures ranging from 2700 K to 6500 K, offering the greatest possible light intensity at all temperatures. Fixture brightness can be varied while maintaining constant temperature.
- Intense light output — Outputs thousands of lumens and throws light hundreds of feet, delivering legitimate LED-based white-light illumination of large-scale structures and objects in a compact, fully-sealed housing.
- Superior color consistency — Optibin, a proprietary binning optimization process developed by Philips Color Kinetics, guarantees consistency of hue across LEDs, fixtures, and manufacturing runs.

- Versatile optics — Exchangeable spread lenses of 8°, 13°, 23°, 40°, 63°, and an asymmetric 5° x 17° support a variety of photometric distributions for applications including spotlighting, wall grazing, and asymmetric wall washing. Bezel and gasket are included with spread lenses for easy user installation.
- High-performance, cost-effective light — Significantly less cost to install, operate, and maintain than traditional light sources.
- Simple fixture positioning — Rugged, slim-profile mounting bracket allows simple positioning and fixture rotation through a full 360°. Side locking bolts reliably secure fixture with a standard wrench.



- Universal power input range — Accepts a universal power input range of 100 – 240 VAC, allowing consistent installation in any location around the world.

For detailed product information, please refer to the iW Reach Compact Powercore Product Guide at [www.philipscolorkinetics.com/ls/intelliwhite/iwreachcompact/](http://www.philipscolorkinetics.com/ls/intelliwhite/iwreachcompact/)

**PHILIPS**

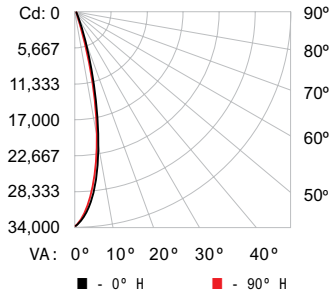
# Photometrics

## 23° spread lens

|          |             |
|----------|-------------|
| Lumens   | 6065        |
| Efficacy | 48.5 lm / W |

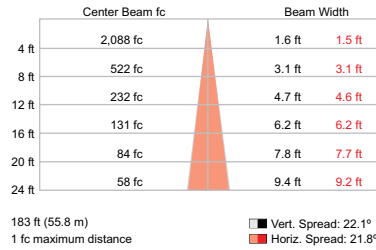


### Polar Candela Distribution



|    | 0     | 25    | 45    | 70    | 90    |
|----|-------|-------|-------|-------|-------|
| 0  | 33407 | 33407 | 33407 | 33407 | 33407 |
| 5  | 28502 | 27762 | 27204 | 26804 | 26803 |
| 15 | 9252  | 8513  | 8001  | 7648  | 7614  |
| 25 | 1209  | 1040  | 928   | 862   | 860   |
| 35 | 193   | 178   | 167   | 163   | 166   |
| 45 | 103   | 98    | 94    | 92    | 95    |
| 55 | 70    | 67    | 64    | 63    | 63    |
| 65 | 52    | 50    | 48    | 46    | 45    |
| 75 | 39    | 38    | 35    | 34    | 33    |
| 85 | 30    | 29    | 29    | 29    | 29    |
| 90 | 29    | 29    | 29    | 29    | 29    |

### Illuminance at Distance



### 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  | 0   |     |     |     |
| RCR: 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 100 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1      | 115 | 112 | 110 | 109 | 112 | 110 | 109 | 96  | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 98  | 98  | 96  |
| 2      | 111 | 107 | 104 | 101 | 109 | 105 | 103 | 93  | 102 | 100 | 98  | 99  | 98  | 96  | 97  | 95  | 94  | 93  |
| 3      | 107 | 103 | 99  | 96  | 106 | 101 | 98  | 90  | 99  | 96  | 94  | 97  | 94  | 92  | 94  | 93  | 91  | 90  |
| 4      | 104 | 99  | 95  | 92  | 103 | 98  | 94  | 88  | 96  | 93  | 90  | 94  | 91  | 89  | 92  | 90  | 88  | 87  |
| 5      | 101 | 95  | 91  | 88  | 100 | 94  | 91  | 85  | 93  | 89  | 87  | 91  | 88  | 86  | 90  | 87  | 86  | 84  |
| 6      | 98  | 92  | 88  | 85  | 97  | 91  | 88  | 83  | 90  | 87  | 84  | 89  | 86  | 84  | 88  | 85  | 83  | 82  |
| 7      | 96  | 89  | 85  | 82  | 95  | 89  | 85  | 81  | 88  | 84  | 82  | 87  | 84  | 81  | 86  | 83  | 81  | 80  |
| 8      | 93  | 87  | 83  | 80  | 92  | 86  | 83  | 79  | 86  | 82  | 80  | 85  | 82  | 79  | 84  | 81  | 79  | 78  |
| 9      | 91  | 85  | 81  | 78  | 90  | 84  | 80  | 77  | 83  | 80  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 76  |
| 10     | 89  | 82  | 79  | 76  | 88  | 82  | 78  | 75  | 81  | 78  | 76  | 81  | 78  | 76  | 80  | 77  | 75  | 75  |

### Zonal Lumen

| Zone    | Lumens | % Fixture |
|---------|--------|-----------|
| 0 - 60  | 5944.0 | 98.0 %    |
| 60 - 90 | 120.8  | 2.0 %     |
| 0 - 90  | 6064.8 | 100.0 %   |

For lux multiply fc by 10.7

## Specifications

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

| Item                     | Specification                          | Details  |
|--------------------------|--|--|
| Output                   | Color Temperature*                     | 2700 K – 6500 K  |
|                          | Lumens†                                | 6065   |
|                          | Efficacy (lm / W)                      | 48.5   |
|                          | CRI                                    | 79 (native beam, no spread lens, all channels full on)   |
| Electrical               | Input Voltage                          | 100 – 240 VAC, auto-switching, 50 / 60 Hz  |
|                          | Power Consumption                      | 125 W  |
|                          | Power Factor                           | .992 (no spread lens, all channels full on) @ 120 VAC  |
| 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<br>(Height x Width x Depth) | 8.5 x 28.9 x 7.7 in (217 x 733 x 196 mm)   |
|                          | Weight                                 | 51 lb (23 kg)  |
|                          | Effective Projected Area (EPA)         | 0.186 m <sup>2</sup>   |
|                          | Housing                                | Die-cast aluminium, powder-coated finish   |
|                          | Lens                                   | Tempered glass   |
|                          | Fixture Connections                    | Integral male / female waterproof connector, 6 ft (1.8 m) unified power / data cable   |
|                          | Temperature Ranges                     | -40° – 122° F (-40° – 50° C) Operating<br>-4° – 122° F (-20° – 50° C) Startup<br>-40° – 176° F (-40° – 80° C) Storage                      |
|                          | Humidity                               | 0 – 95%, non-condensing  |
| Certification and Safety | Certification                          | CQC, CE, FCC Class A, PSE  |
|                          | Environment                            | Dry / Damp / Wet Location, IP66  |

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

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



CHROMACORE<sup>®</sup> | OPTIBIN<sup>®</sup> | POWERCORE<sup>®</sup>  
CKTECHNOLOGY | CKTECHNOLOGY | CKTECHNOLOGY

## Lumen Maintenance

| Threshold* | Ambient Temperature | Reported†  | Calculated†  |
|------------|---------------------|------------|--------------|
| L90        | @ 25°C              | 42,000 hrs | 84,000 hrs   |
|            | @ 50°C              | 42,000 hrs | 48,000 hrs   |
| L80        | @ 25°C              | 42,000 hrs | >100,000 hrs |
|            | @ 50°C              | 42,000 hrs | >100,000 hrs |
| L70        | @ 25°C              | 42,000 hrs | >100,000 hrs |
|            | @ 50°C              | 42,000 hrs | >100,000 hrs |

\* L<sub>xx</sub> = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B50, or the median value where 50% 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-80-80 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

## Fixtures and Data Enabler Pro

| Item  | Type   | Item Number   | Philips 12NC |
|---|--|---------------|--------------|
| iW Reach Compact Powercore<br><i>Includes 6 ft (1.8 m) leader cable</i> | CQC / CE / PSE                                   | 523-000083-02 | 912400130286 |
| Data Enabler Pro  | 3/4 in / 1/2 in NPT<br>(U.S. trade size conduit) | 106-000004-00 | 910503701210 |
|   | PG21 / PG13<br>(metric size conduit)             | 106-000004-01 | 910503701211 |

Use Item Number when ordering in North America.

## Accessories

| Item                                     | Type                  | Item Number   | Philips 12NC |
|--|-----------------------|---------------|--------------|
| Replacement Leader Cable 6<br>ft (1.8 m) | CQC / CE / PSE        | 108-000043-03 | 910503700454 |
| Spread Lens with bezel                   | 13°                   | 120-000068-00 | 910503700506 |
|  | 23°                   | 120-000068-01 | 910503700507 |
|  | 40°                   | 120-000068-02 | 910503700508 |
|  | 63°                   | 120-000068-03 | 910503700509 |
|  | Asymmetric (5° x 17°) | 120-000068-04 | 910503700510 |
|  | 8°                    | 120-000068-05 | 910503700511 |

Use Item Number when ordering in North America.



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

Copyright © 2014 Philips Solid-State Lighting Solutions, Inc. All rights reserved.  
 Chromacore, Chromasic, CK, the CK logo, Color Kinetics, the Color Kinetics logo, ColorBlast,  
 ColorBlaze, ColorBurst, eW Fuse, ColorGraze, ColorPlay, ColorReach, iW Reach, eW Reach,  
 DIMand, EssentialWhite, eWV, iColor, iColor Cove, IntelliWhite, iW, iPlayer, Optibin, and Powercore  
 are either registered trademarks or trademarks of Philips Solid-State Lighting Solutions, Inc. in  
 the United States and / or other countries. All other brand or product names are trademarks  
 or registered trademarks of their respective owners. Due to continuous improvements and  
 innovations, specifications may change without notice. DAS-000110-04 R01 08-14