



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

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

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

# eW Reach Compact Powercore

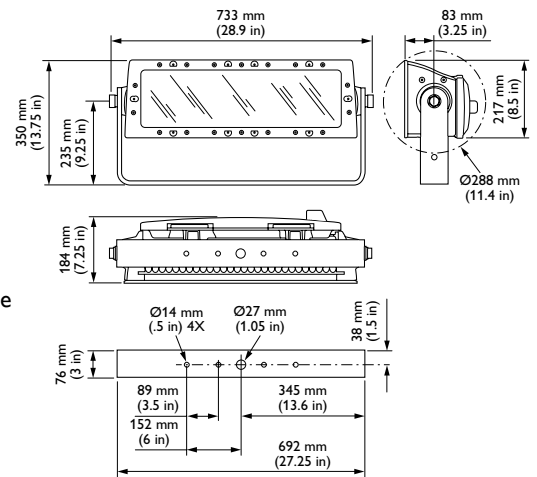
## 23° spread lens, UL / CE

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

eW Reach Compact Powercore combines all the benefits of LED-based lighting in a compact fixture specifically designed for large-scale installations calling for high-quality white light, including commercial skyscrapers, casinos, large retail exteriors, bridges, piers, public monuments, and themed attractions. With levels of light output and projection never before achieved in a compact LED lighting fixture, eW Reach Compact Powercore delivers intense, energy-efficient output at a reasonable price, opening up new possibilities for exterior illumination. Standard configurations include a warm 2700 K and a cool 4000 K, with six additional color temperatures available, ranging from 3000 K to 6500 K.

- Intense light output — eW Reach Compact Powercore outputs thousands of lumens and throws light hundreds of feet, delivering legitimate LED-based illumination of large-scale structures and objects in a compact, fully-sealed housing.
- Integrates Powercore technology — Fixtures rapidly, efficiently, and accurately process power directly from line voltage, eliminating the need for additional, external power supplies.
- Versatile optics — Exchangeable spread lenses of 8°, 13°, 23°, 40°, 63°, and an asymmetric 5° x 17° support a variety of photometric distributions for a multitude of applications, including spotlighting, wall grazing, and asymmetric wall washing. Bezel and gasket ship with spread lenses for easy user installation.

- Rich, uniform white light — High-performance LEDs offer rich, uniform white light at significantly less cost for installation, operation, and maintenance than traditional light sources.
- Simple fixture positioning — Rugged, slim-profile mounting bracket allows flexible positioning and fixture rotation through a full 360°. Side locking bolts reliably secure fixture with standard wrench.



- Universal power input range — Accepts a universal power input range of 100 – 277 VAC, allowing long fixture runs and consistent installation in any location around the world.

For detailed product information, please refer to the eW Reach Compact Powercore Product Guide at [www.philipscolorkinetics.com/l/essentialwhite/ewreachcompact/](http://www.philipscolorkinetics.com/l/essentialwhite/ewreachcompact/)



# Photometrics / eW Reach Compact Powercore, 23° spread lens

## 2700 K

|          |             |
|----------|-------------|
| Lumens   | 5313        |
| Efficacy | 43.4 lm / W |

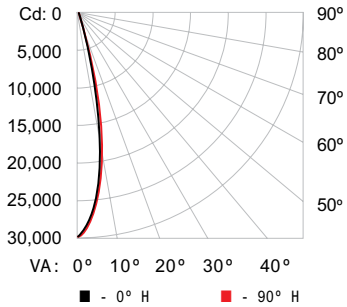


## 4000 K

|          |             |
|----------|-------------|
| Lumens   | 6091        |
| Efficacy | 49.5 lm / W |

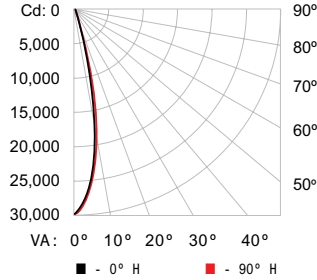


### Polar Candela Distribution



|    | 0      | 25     | 45     | 70     | 90     |
|----|--------|--------|--------|--------|--------|
| 0  | 113964 | 113964 | 113964 | 113964 | 113964 |
| 5  | 76317  | 73663  | 68871  | 62998  | 60119  |
| 15 | 2370   | 2012   | 1684   | 1431   | 1362   |
| 25 | 255    | 250    | 243    | 235    | 239    |
| 35 | 144    | 140    | 131    | 126    | 140    |
| 45 | 75     | 71     | 66     | 67     | 69     |
| 55 | 52     | 50     | 46     | 47     | 46     |
| 65 | 39     | 38     | 35     | 35     | 34     |
| 75 | 30     | 30     | 28     | 27     | 27     |
| 85 | 25     | 25     | 24     | 25     | 25     |
| 90 | 24     | 24     | 24     | 25     | 25     |

### Polar Candela Distribution



|    | 0     | 25    | 45    | 70    | 90    |
|----|-------|-------|-------|-------|-------|
| 0  | 33554 | 33554 | 33554 | 33554 | 33554 |
| 5  | 28765 | 28059 | 27479 | 27053 | 26947 |
| 15 | 9589  | 8888  | 8378  | 7979  | 7853  |
| 25 | 1319  | 1165  | 1049  | 960   | 924   |
| 35 | 207   | 192   | 180   | 173   | 171   |
| 45 | 106   | 101   | 97    | 95    | 96    |
| 55 | 72    | 69    | 66    | 64    | 64    |
| 65 | 53    | 51    | 49    | 47    | 46    |
| 75 | 39    | 38    | 36    | 34    | 33    |
| 85 | 30    | 29    | 29    | 28    | 28    |
| 90 | 28    | 28    | 28    | 28    | 28    |

### Illuminance at Distance

| Distance | Center Beam fc | Beam Width           |
|----------|----------------|----------------------|
| 4 ft     | 1845 fc        | 1.6 ft <b>1.5 ft</b> |
| 8 ft     | 461 fc         | 3.1 ft <b>3.1 ft</b> |
| 12 ft    | 205 fc         | 4.7 ft <b>4.6 ft</b> |
| 16 ft    | 115 fc         | 6.2 ft <b>6.2 ft</b> |
| 20 ft    | 74 fc          | 7.8 ft <b>7.7 ft</b> |
| 24 ft    | 51 fc          | 9.4 ft <b>9.2 ft</b> |

172 ft (52.4 m)  Vert. Spread: 22.1°  
 1 fc maximum distance  Horiz. Spread: 21.8°

### Illuminance at Distance

| Distance | Center Beam fc | Beam Width           |
|----------|----------------|----------------------|
| 4 ft     | 2,097 fc       | 1.6 ft <b>1.5 ft</b> |
| 8 ft     | 524 fc         | 3.1 ft <b>3.1 ft</b> |
| 12 ft    | 233 fc         | 4.7 ft <b>4.6 ft</b> |
| 16 ft    | 131 fc         | 6.3 ft <b>6.2 ft</b> |
| 20 ft    | 84 fc          | 7.8 ft <b>7.7 ft</b> |
| 24 ft    | 58 fc          | 9.4 ft <b>9.3 ft</b> |

183 ft (55.8 m)  Vert. Spread: 22.1°  
 1 fc maximum distance  Horiz. Spread: 22.8°

### 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  | 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 | 102 | 102 | 102 | 100 | 100 |   |
|        | 1  | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 96  | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 99  | 99  | 98  | 96  | 96  |   |
|        | 2  | 111 | 107 | 104 | 101 | 109 | 106 | 103 | 93  | 102 | 100 | 98  | 100 | 98  | 96  | 97  | 95  | 94  | 97  | 95  | 94  | 93  | 93  |   |
|        | 3  | 107 | 103 | 99  | 96  | 106 | 101 | 98  | 90  | 99  | 96  | 94  | 97  | 94  | 92  | 94  | 93  | 91  | 94  | 93  | 91  | 90  | 90  |   |
|        | 4  | 104 | 99  | 95  | 92  | 103 | 98  | 94  | 88  | 96  | 93  | 90  | 94  | 91  | 89  | 92  | 90  | 88  | 92  | 90  | 88  | 87  | 87  |   |
|        | 5  | 101 | 95  | 91  | 88  | 100 | 94  | 91  | 85  | 93  | 90  | 87  | 91  | 89  | 86  | 90  | 88  | 86  | 90  | 88  | 86  | 85  | 85  |   |
|        | 6  | 98  | 92  | 88  | 85  | 97  | 92  | 88  | 83  | 90  | 87  | 84  | 89  | 86  | 84  | 88  | 85  | 83  | 88  | 85  | 83  | 82  | 82  |   |
|        | 7  | 96  | 90  | 85  | 83  | 95  | 89  | 85  | 81  | 88  | 84  | 82  | 87  | 84  | 82  | 86  | 83  | 81  | 86  | 83  | 81  | 80  | 80  |   |
|        | 8  | 93  | 87  | 83  | 80  | 93  | 87  | 83  | 79  | 86  | 82  | 80  | 85  | 82  | 79  | 84  | 81  | 79  | 84  | 81  | 79  | 78  | 78  |   |
|        | 9  | 91  | 85  | 81  | 78  | 90  | 84  | 81  | 77  | 84  | 80  | 78  | 83  | 80  | 78  | 82  | 79  | 77  | 82  | 79  | 77  | 76  | 76  |   |
|        | 10 | 89  | 83  | 79  | 76  | 88  | 82  | 79  | 75  | 82  | 78  | 76  | 81  | 78  | 76  | 80  | 78  | 76  | 80  | 78  | 76  | 75  | 75  |   |

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

### Zonal Lumen

| Zone    | Lumens | % Fixture |
|---------|--------|-----------|
| 0 - 60  | 5210.4 | 98.1 %    |
| 60 - 90 | 103.0  | 1.9 %     |
| 0 - 90  | 5313.5 | 100.0 %   |

For lux multiply fc by 10.7

### Zonal Lumen

| Zone    | Lumens | % Fixture |
|---------|--------|-----------|
| 0 - 60  | 5970.7 | 98.0 %    |
| 60 - 90 | 120.3  | 2.0 %     |
| 0 - 90  | 6091.0 | 100.0 %   |

For lux multiply fc by 10.7

## Specifications

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

| Item                        | Specification                          | 2700 K*   | 4000 K* |
|-----------------------------|--|---|---------|
| Output                      | Lumens†                                | 5313  | 6091    |
|                             | Efficacy (lm / W)                      | 43.4  | 49.5    |
|                             | CRI                                    | 80  | 82      |
| Electrical                  | Input Voltage                          | 100 – 277 VAC, auto-switching, 50 / 60 Hz   |         |
|                             | Power Consumption                      | 125 W   |         |
|                             | Power Factor                           | .967 @ 120 VAC (2700 K) .961 @ 120 VAC (4000 K)   |         |
| Control                     |  | On / Off, digital dimming by 4 connector cable & DE Pro   |         |
| 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<br>(EPA)      | 0.186 m <sup>2</sup>  |         |
|                             | Housing                                | Die-cast aluminium, powder-coated finish  |         |
|                             | Lens                                   | Tempered glass  |         |
|                             | Fixture Connections                    | Integral male / female waterproof connector,<br>10 ft (3.0 m) power 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 |         |
| Certification<br>and Safety | Humidity                               | 0 – 95%, non-condensing   |         |
|                             | Certification                          | UL / cUL, FCC Class A, CE, PSE  |         |
|                             | Environment                            | Dry / Damp / Wet Location, IP66   |         |

\* Correlated color temperature (CCT) complies with ANSI C78.377-2008 for the chromaticity of solid state lighting products.

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



## Lumen Maintenance

| Threshold* | Ambient Temperature | Reported†    | Calculated†  |
|------------|---------------------|--------------|--------------|
| L90        | @ 25°C              | 42,400 hrs   | 42,400 hrs   |
|            | @ 50°C              | 42,400 hrs   | 42,400 hrs   |
| L80        | @ 25°C              | >100,000 hrs | >100,000 hrs |
|            | @ 50°C              | >100,000 hrs | >100,000 hrs |
| L70        | @ 25°C              | >100,000 hrs | >100,000 hrs |
|            | @ 50°C              | >100,000 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-80-08 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

## Fixtures and Accessories

| Item   | Type   | Item Number   | Philips 12NC  |              |
|--|--|---------------|---------------|--------------|
| eW Reach Compact Powercore<br><i>Includes 10 ft (3.0 m) Leader Cable</i>             | 2700K  | UL / cUL      | 523-000095-00 | 910503703281 |
|  |  | CE / PSE      | 523-000095-06 | 912400130228 |
|  | 4000K  | UL / cUL      | 523-000095-03 | 912400130225 |
|  |  | CE / PSE      | 523-000095-09 | 912400130231 |
| 3 Conductor Replacement Leader Cable:  | 10 ft (3.0 m)                                  | UL / cUL      | 108-000056-03 | 910503704071 |
|  |  | CE / PSE      | 108-000056-04 | 910503704072 |
|  | 50 ft (15.2 m)                                 | UL / cUL      | 108-000056-00 | 910503703138 |
|  |  | CE / PSE      | 108-000056-01 | 910503704069 |
| 4 Conductor Replacement Leader Cable:<br>(required to digitally dim unit, w/ DE Pro) | 10 ft (3.0 m)                                  | UL / cUL      | 108-000055-03 | 910503704066 |
|  |  | CE / PSE      | 108-000055-04 | 910503704067 |
|  | 50 ft (15.2m)                                  | UL / cUL      | 108-000055-00 | 910503703137 |
|  |  | CE / PSE      | 108-000055-01 | 910503704064 |
| Data Enabler Pro (required to digitally dim unit)                                    | 3/4 in / 1/2 in NPT<br>(US trade size conduit) | 106-000004-00 | 910503701210  |              |
|  | PG21 / PG13<br>(metric size conduit)           | 106-000004-01 | 910503701211  |              |
| Spread Lens with bezel   | 8°   | 120-000068-05 | 910503700511  |              |
|  | 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  |              |

Use Item Number when ordering in North America.



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