# eW Profile Powercore gen4

Date:			
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Project:			

4000 K, 120 VAC, 489 mm (19.25 in)

# Interior under-cabinet ultra-low profile workspace and accent lighting luminaire with single temperature white light

Profile gen4 brings advanced under-cabinet lighting to today's sophisticated kitchens. Thanks to its ultra-low profile, Profile gen4 fits seamlessly into any kitchen—from galley to grand, including retrofits and new construction. To create the right ambiance, it offers four popular color temperatures (2700 K, 3000 K, 3500 K, or 4000 K). A choice of luminaire lengths and a wide range of accessories keep installation fast and easy. Exceptional energy efficiency can generate rebates right from the start, and deliver dramatic energy savings over many years of reliable use.





- Exceptional illumination—Profile gen4 delivers exceptional light with an impressive CRI of 90+, so it's brighter and better. Optibin, our proprietary binning optimization process, guarantees uniformity and consistency of hue and color temperature.
- Flexible integration—Profile gen4's ultra-low profile lets it fit discretely into almost any layout, from simple to elaborate, making it suitable for installation within closet storage spaces and under cabinets.
- Smart power—Patented Powercore® technology provides precision output to Profile gen4 luminaires directly from line voltage, enabling longer run lengths and eliminating the need for bulky, hard-to-hide power supplies.
- Ambiance options—Four popular color temperature options offer a range of light, from warm to cool—Warm (2700 K), White (3000 K), Neutral (3500 K), and Cool (4000 K).
- Smooth dimming capability—Patented DIMand® technology offers smooth dimming capability with the DM-1000 0-10 V ELV Dimmer or select reverse-phase ELV-type dimmers.

- Rebate eligibility—Profile gen4 is EnergyStar® listed, as well as a California Title T24 high-efficiency residential listed product, creating rebate opportunities in selected areas.
- Energy cost savings—Profile gen4 consumes less than 3 W of energy per foot, and can support continuous runs of up to 15.3 m (50 ft). Profile gen4 luminaires use 40% less energy than comparable fluorescent sources, and 80% less energy than incandescent sources. No off-state power consumption increases energy savings even further.
- Easy installation—Contractor-friendly installation dramatically simplifies installation and lowers total system cost. Available in 279 mm (11 in), 533 mm (21 in), and 1,041 mm (41 in) fixture lengths with multiple jumper cable and connector options to accommodate a wide range of projects. UL rated for dry and damp environments.
- 5-year warranty—Profile gen4 delivers a long, useful light. A 5-year warranty exceeds that of other manufacturers, providing a high degree of confidence to consumers.

For detailed product information, please refer to the Profile Product Guide at www.colorkinetics.com/global/products/essentialwhite/ew-profile-powercore-gen4/



# Specifications

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

#### **Output**

•	
Color Temperature *	4000 K
Beam Angle	105° x 100°
Lumens <sup>†</sup>	417
Efficacy (lm/W)	87.9
CRI	97

#### **Electrical**

Input Voltage	120 VAC
Power Consumption	5 W
(Maximum at full output, steady state)	
Power Factor	0.97 @ 120 VAC
Surge Limits ¶	0.5 kV maximum differential (L to N)
	1 kV maximum common (L to Gnd or N to Gnd)

For additional Surge Protection Requirements for LED Lighting Systems, please refer to www.colorkinetics.com/KB/surge-protection.

#### Control

#### Dimmer #

Compatible with selected commercially available reverse-phase ELV-type dimmers

#### **Lumen Maintenance**

bient

Threshold§	Temperature	Reported ¶¶	Calculated ¶¶
L 90	25 °C	41,000	41,000
	50 °C	30,000	30,000
L 80	25 °C	> 60,000	86,000
	50 °C		65,000
L 70	25 °C	> 60,000	> 100,000
	50 °C	> 60,000	> 100,000
L 50	25 °C	> 60,000	> 100,000
	50 °C	> 60,000	> 100,000

#### **Physical**

Dimensions (Height x Width x Depth)	22 x 489 x 43 mm (0.88 x 19.25 x 1.7 in)
Weight	369 g (13 oz)
Housing Material	Extruded aluminium, white powder-coated finish
Lens	Polycarbonate
Luminaire Connections	Integral male/female connectors

#### **Temperature Ranges**

-20 to 50 °C (-4 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

#### Thermal Protection enabled

For additional Thermal Protection information, please refer to https://colorkinetics.helpdocs.io/article/sh301ducix

#### **Luminaire Run Lengths**

Up to 15.3 m (50 ft) of luminaires in a single run. To calculate luminaire run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.colorkinetics.com/support/install\_tool/

#### **Certification and Safety**

Approbation	UL/cUL, FCC Class B
Certifications	ENERGY STAR
Environment	Dry/Damp Location, IP50California Title 24 Compliant

<sup>\*</sup> Color tempratures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.377A.

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<sup>†</sup> Lumen output measurements comply with IES LM-79-08 testing procedures.

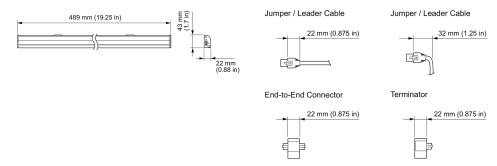
<sup>‡</sup> Refer to www.colorkinetics.com/support/appnotes/ for more information.

<sup>§</sup> 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.

 $<sup>\</sup>P$  Minimum surge limits per IEC 61547, tested in accordance with IEC 61000-4-5.

<sup>¶</sup> 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.

### **Dimensions**



# Photometrics 4000 K, 489 mm (19.25 in)

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

Beam Angle	105° x 100°
LED	4000 K
Lumens	417.0
Efficacy (lm/W)	87.9

Polar Candela Distribution



#### Illuminance at Distance

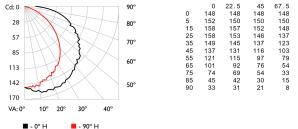
#### 1.6 ft 331.88 fc 3.5 ft 3.2 ft 36.88 fc 5.2 ft 4.8 ft 2 ft 20.74 fc 6.9 ft 6.4 ft 2.7 ft 8 ft 3.3 ft Vert. Spread: 104.8° Horiz. Spread: 100.1°

% Luminaire 26.90% 43.40% 74.70% 22.90% 13% 2.40% 97.60% 2.40% 100% Zone 0-30 0-40 0-60 60-90 70-100 90-120 0-90 90-180 0-180 Lumens 112.1 181.1 311.3 95.3 54.3 10 406.7 10.2 416.9

**Zonal Lumen** 

For lux multiply fc by 10.7

# 90 148 149 139 130 111 86 62 38 18 3 80°



#### Coefficients of Utilization - Zonal Cavity Method

										Eff	ecti	ve	Floor	Ca	/ity	Refle	cta	nce:	20%
RCC	%:		8	30			-	70			50			30			10		0
RW	%:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
R	CR:																		
(	0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	0.98	1.1	1.1	1.1	1.05	1.05	1.05	- 1	1	1	0.98
1			1.02			1.04	- 1	0.96	0.81	0.95						0.87			0.8
- 2	2	0.97	0.89	0.82	0.76	0.95	0.87	0.8	0.68	0.83	0.77	0.73	0.79	0.75	0.71	0.76	0.72	0.69	0.66
5	3	0.89	0.78	0.7	0.63	0.86				0.73				0.64	0.59			0.58	
	4	0.81	0.69	0.6	0.53	0.79	0.68	0.59	0.5	0.65	0.58	0.52	0.62	0.56	0.51	0.6	0.54	0.5	0.48
	5	0.75	0.62	0.53	0.46	0.73	0.61	0.52	0.43	0.58	0.51	0.45	0.56	0.49	0.44	0.54			
6	3	0.69	0.56	0.47	0.4	0.67	0.55	0.46	0.38	0.53	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.38	0.36
7	7	0.64	0.51	0.42	0.36	0.62	0.5	0.41	0.34	0.48	0.4	0.35	0.46	0.4	0.35	0.45	0.39	0.34	0.32
8	В	0.6	0.46	0.38	0.32	0.58	0.45	0.37	0.3	0.44	0.37	0.31	0.42	0.36	0.31	0.41	0.35	0.31	0.29
Ş			0.42							0.4				0.33	0.28	0.38			
10	0	0.52	0.39	0.31	0.26	0.51	0.39	0.31	0.25	0.37	0.3	0.26	0.36	0.3	0.25	0.35	0.29	0.25	0.23

### Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
eW Profile Powercore gen4, 4000 K, 120 VAC, 489 mm (19.25 in)	523-000027-97	912400135970
ncludes mounting clips and end-to-end connector		
Accessories		
Permanent Wiring Compartment and Terminator (Requires Jumper Cable for luminaire connection), White	120-000065-00	910503700270
Switched Portable Leader Cable and Terminator, 3 m (10 ft), White	108-000034-00	910503700258
Switched Permanent Wiring Compartment and Terminators, White	120-000065-04	910503701022
End-to-End Connector, Quantity 5, 22 mm (.875 in), White	108-000035-10	910503700368
umper Cable, 152 mm (6 in), White	108-000035-00	910503700260
umper Cable, 305 mm (12 in), White	108-000035-01	910503700261
umper Cable, 457 mm (18 in), White	108-000035-02	910503700262
umper Cable, 1.5 m (5 ft), White	108-000035-03	910503700263
Y" Jumper Cable and Terminator, 419 mm (16.5 in), White	108-000035-04	910503700264
Mounting Track, 25 @ 229 mm (9 in), White	120-000064-02	910503700273
Mounting Track, 25 @ 483 mm (19 in), White	120-000064-00	910503700271
Mounting Track, 24 @ 991 mm (39 in), White	120-000064-01	910503700272
DM-1000 0-10 V ELV Dimmer	109-000036-00	912400135916
Right Handed Terminators, Bag of 10	120-000063-02	910503700730

