

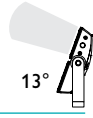


# Photometrics

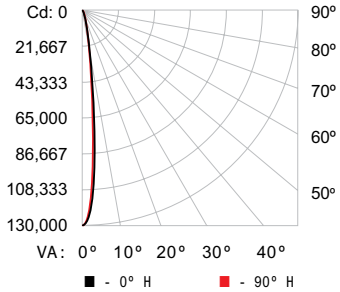
Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at [www.philipscolorkinetics.com/support/ies](http://www.philipscolorkinetics.com/support/ies).

## 13° spread lens, half unit

Lumens	Efficacy
6029	49.2 lm / W

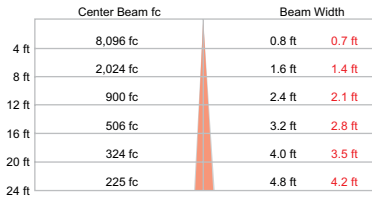


### Polar Candela Distribution



	0	25	45	70	90
0	129543	129543	129543	129543	129543
5	77630	74496	71216	67970	67197
15	2233	1930	1706	1566	1590
25	300	292	286	278	292
35	168	163	153	149	170
45	90	85	80	81	85
55	62	59	55	56	58
65	47	45	41	42	42
75	36	35	33	33	33
85	30	29	29	29	29
90	29	29	29	29	29

### Illuminance at Distance



360 ft (109.7 m)  
1 fc maximum distance

Vert. Spread: 11.5°  
Horiz. Spread: 10.1°

### Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80	70	50	30	10	0													
RW %:	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	116	114	112	111	113	112	110	98	108	107	106	104	103	102	101	100	100	98
	2	113	110	107	105	111	108	106	97	105	103	102	102	101	100	100	99	98	96
	3	110	107	104	101	109	105	103	95	103	101	99	101	99	98	99	97	96	95
	4	108	104	101	99	107	103	100	94	101	99	97	99	98	96	98	96	95	94
	5	106	102	99	97	105	101	98	94	100	97	95	98	96	95	97	95	94	93
	6	105	100	97	95	104	100	97	93	98	96	94	97	95	93	96	94	93	92
	7	103	99	96	94	102	98	95	92	97	95	93	96	94	93	95	94	92	91
	8	102	97	94	92	101	97	94	91	96	94	92	95	93	92	95	93	91	91
	9	101	96	93	92	100	96	93	91	95	93	91	95	92	91	94	92	91	90
	10	100	95	93	91	99	95	92	90	94	92	90	94	92	90	93	91	90	89

### Zonal Lumen

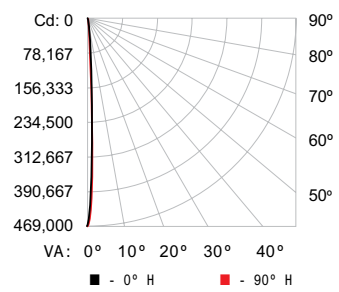
Zone	Lumens	% Fixture
0 - 60	5917.0	98.1 %
60 - 90	112.4	1.9 %
0 - 90	6029.4	100.0 %

## 5° native (no spread lens), half unit

Lumens	Efficacy
6710	56.7 lm / W

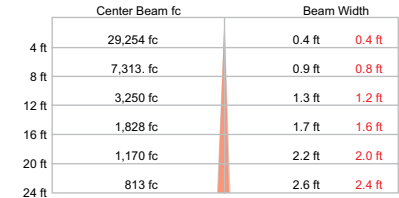


### Polar Candela Distribution



	0	25	45	70	90
0	468056	468056	468056	468056	468056
5	80134	80205	77031	66862	62411
15	802	793	805	811	840
25	237	235	251	257	284
35	131	126	132	125	174
45	81	76	77	78	80
55	62	59	59	64	61
65	56	50	49	52	48
75	45	38	38	38	36
85	34	33	33	33	34
90	33	33	33	33	33

### Illuminance at Distance



685 ft (208.8 m)  
1 fc maximum distance

Vert. Spread: 6.2°  
Horiz. Spread: 5.7°

### Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80	70	50	30	10	0													
RW %:	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	116	114	112	110	113	111	110	98	108	106	105	104	103	102	101	100	99	98
	2	113	109	107	105	111	108	105	96	105	103	101	102	100	99	99	98	97	96
	3	110	106	103	101	108	105	102	95	102	100	98	100	98	97	98	97	95	94
	4	108	103	100	98	106	102	99	93	100	98	96	99	97	95	97	95	94	93
	5	106	101	98	95	104	100	97	92	99	96	94	97	95	93	96	94	93	92
	6	104	99	96	93	103	98	95	91	97	95	93	96	94	92	95	93	92	91
	7	102	97	94	92	101	97	94	90	96	93	91	95	93	91	94	92	91	90
	8	101	96	93	91	100	95	93	89	95	92	90	94	92	90	93	91	90	89
	9	99	95	92	90	99	94	91	89	94	91	89	93	91	89	92	90	89	88
	10	98	93	91	89	98	93	90	88	93	90	88	92	90	88	91	89	88	87

### Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	6580.4	98.1 %
60 - 90	130.0	1.9 %
0 - 90	6710.4	100.0 %

## Specifications

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

Item	Specification	Details
	Color Temperature*	2700 K – 6500 K
	Lumens†	6029 (half unit)
	Efficacy (lm / W)	49.2 (half unit)
	CRI	79 (no spread lens, full unit)
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz
	Power Consumption	250 W maximum at full output, steady state
	Power Factor	.99 (no spread lens, full unit, 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 <i>Height x Width x Depth</i>	20.5 x 28.9 x 4.8 in (521 x 734 x 122 mm)
	Weight	75 lb (34 kg)
	Effective Projected Area (EPA)	0.42 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 -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Humidity	0 – 95%, non-condensing
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from <a href="http://www.philipscolorkinetics.com/support/install_tool/">www.philipscolorkinetics.com/support/install_tool/</a>
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>  
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## 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 Accessories

Item	Type	Item Number	Philips 12NC
iW Reach Powercore gen2 <i>Includes 6 ft (1.8 m) leader cable</i>	CQC	523-000045-51	912400130285
Replacement Leader Cable 6 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
Data Enabler Pro	3/4 in / 1/2 in NPT (U.S. trade size conduit)	106-000004-00	910503701210
	PG21 / PG13 (metric size conduit)	106-000004-01	910503701211

Use Item Number when ordering in North America.



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