Date: _____ Type: _____

Firm Name: _____

Project: _____

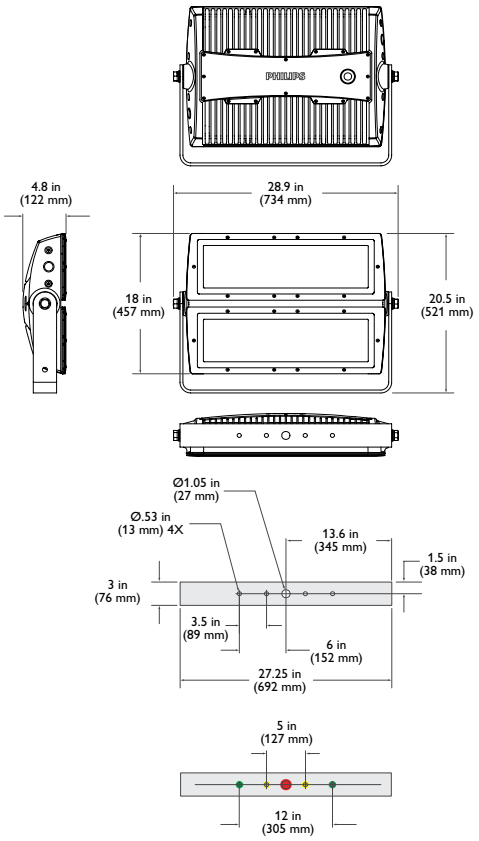
eW Reach Powercore gen2

23° spread lens, CQC

Premium long-throw exterior LED floodlight with solid white light

eW Reach Powercore gen2 combines all the benefits of LED-based lighting and control in an elegant fixture specifically designed for large-scale installations, such as skyscrapers, casinos, bridges, piers, public monuments, and themed attractions. With significantly more lumen output than any other competitive fixture and unprecedented light projection, this powerful fixture represents the next generation in exterior illumination. Fixtures are available in a warm 2700 K or a cool 4000 K. Custom configurations with custom channels of white or color LED sources are also available to support special applications.

- Integrates Powercore technology — Powercore technology rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage.
- Unparalleled light output — Fixtures produce thousands of lumens and throw light hundreds of feet. eW Reach Powercore gen2 offers legitimate LED-based white light illumination of large-scale structures and objects.
- 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 are included with spread lenses for easy user installation.
- Unique split design — Spread lenses fit over each half of the fixture to support diffuser combinations. For instance, you could use one spread lens on the fixture's lower half to bathe a large façade with light at street level, and a different spread lens to project light hundreds of feet up the building's walls.



- 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 — eW Reach Powercore gen2 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 eW Reach Powercore gen2 Product Guide at www.philipscolorkinetics.com/ls/essentialwhite/ewreach/

PHILIPS

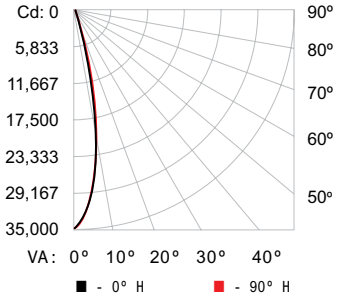
Photometrics / eW Reach Powercore 23° spread lens

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

2700 K

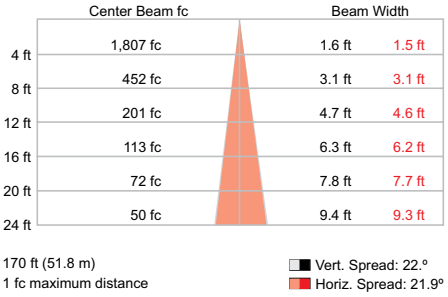
Lumens	5,262
Efficacy	42.9 lm / W

Polar Candela Distribution



	0	25	45	70	90
0	28917	28917	28917	28917	28917
5	24544	24552	24801	24943	25006
15	8032	8125	8226	8316	8366
25	1113	1118	1106	1096	1088
35	185	183	178	174	173
45	94	93	90	89	91
55	63	62	59	59	59
65	46	45	43	42	42
75	34	33	32	31	30
85	26	25	25	25	25
90	25	25	25	25	25

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	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	96	94	92	94	92	91	90
4	104	99	95	92	103	98	94	88	96	92	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	90	85	93	89	87	91	88	86	90	87	85	84
6	98	92	88	85	97	91	87	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	82	79	85	82	79	85	81	79	84	81	79	78
9	91	84	80	78	90	84	80	77	83	80	77	83	79	77	82	79	77	76
10	89	82	78	76	88	82	78	75	81	78	76	81	78	75	80	77	75	74

Zonal Lumen

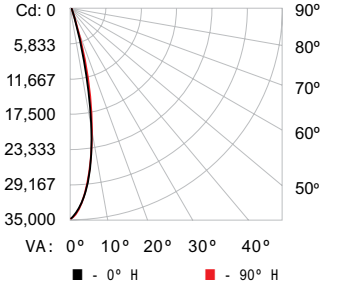
Zone	Lumens	% Fixture
0 - 60	5173.3	98.0 %
60 - 90	105.2	2.0 %
0 - 90	5262.5	100.0 %

For lux multiply fc by 10.7

4000 K

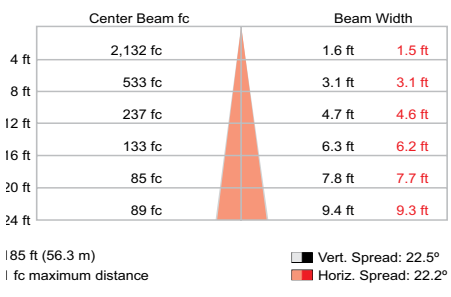
Lumens	6,191
Efficacy	49 lm / W

Polar Candela Distribution



	0	25	45	70	90
0	11999	11999	11999	11999	11999
5	11152	11160	11238	11392	11433
15	7414	7557	7783	8051	8199
25	3391	3531	3730	3998	4147
35	1057	1097	1167	1286	1362
45	267	263	263	281	298
55	108	106	104	105	106
65	69	68	67	67	66
75	45	44	43	42	41
85	29	28	28	27	27
90	0	6	10	13	27

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	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	96	94	92	94	92	91	90
4	104	99	95	92	103	98	94	88	96	92	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	85	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	74

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	6066.8	98.0 %
60 - 90	123.9	2.0 %
0 - 90	6190.7	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* (Half Unit)	4000 K* (Half Unit)
Output	Lumens†	5,262	6,191
	Efficacy (lm / W)	42.9	49
	CRI	80	82
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz	
	Power Consumption	250 W maximum at full output, steady state	
	Power Factor	.989 @ 120 VAC	
Control		On / Off; digital dimming by 4 connector cable & DE Pro	
Physical	Dimensions *(Height x Width x Depth)*	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^2	
	Housing	Die-cast aluminium, powder-coated finish	
	Lens	Tempered glass	
	Fixture Connections	6 ft (1.8 m) Leader Cable	
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage	
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/	
	Humidity	0 – 95%, non-condensing	
Certification and Safety	Certification	CQC, 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†
L_{90}	@ 25°C	42,300 hrs	84,100 hrs
	@ 50°C	42,300 hrs	48,300 hrs
L_{80}	@ 25°C	42,300 hrs	>100,000 hrs
	@ 50°C	42,300 hrs	>100,000 hrs
L_{70}	@ 25°C	42,300 hrs	>100,000 hrs
	@ 50°C	42,300 hrs	>100,000 hrs

* L_{xx} = 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 Powercore gen2 *Includes 6 ft (1.8 m) leader cable*	2700 K	523-000044-51	912400130275
	4000 K	523-000044-53	912400130276
3 Conductor Replacement Leader Cable: 6 ft (1.8 m)	CE	108-000046-01	910503700622
4 Conductor Replacement Leader Cable (required to digitally dim unit, w/ DE Pro); 6 ft (1.8 m)	CE	108-000043-03	910503700454
Data Enabler Pro (required to digitally dim unit)	PG21 / PG13 (metric size conduit)	106-000004-01	910503701211
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.

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