

Recessed Downlight

CRL6K-G2

6" LED Recessed

Wet Location New Construction/
Retrofit Downlight

Specifier's Reference

Project

Type

Model No.

Comments

application

- The Philips Capri CRL6K-G2 incorporates the latest in solid state technology to provide optimal lighting performance for both residential and light commercial applications. The all-in-one design makes it ideal for new construction and retrofit opportunities, and provides equivalent illumination compared to incumbent incandescent and halogen directional light sources. The CRL6K-G2 is cETLus classified for use with most Capri 6" cans as well as many competitors downlights to maximize retrofit potential.

light engine

- Light engine incorporates the latest technology from Philips Lumileds and provides light output and distribution comparable to a 65W BR30 incandescent.
- Consumes less than 13W of input power.
- Long life LEDs provide over 50,000 hours at 70% lumen maintenance.
- LED Module – Multi-chip printed circuit board assembly provides excellent color consistency between trims. Available in 2700K and 3500K correlated color temperatures (CCT), and a typical color rendering index (CRI) of 85.
- LED Driver – 120V, 50/60Hz, >0.90 power factor, UL8750 compliant class 2. Verified to be compliant to FCC 47CFR part 15 Class B. Class A noise rating. Dimmable to 15% on ELV and triac dimmer controls (see Recommended Dimmer List on back).

construction

- All-in-one module with integral driver accommodates easy installation.
- Die-Cast Heat Sink – Large finned yet lightweight die-cast aluminum heat sink engineered to provide maximum thermal management to optimize balance of performance and longevity. LEDs perform in excess of 50,000 hours at 70% lumen maintenance.

- Lower Trim Casting – Die-cast aluminum finned trim assembly is thermally coupled to the upper heat sink to maximize thermal management. Integral flange provides a clean aesthetic appeal.
- Mixing Chamber – Deep mixing chamber is lined with die-formed Miro 5 optics-grade aluminum for maximum brightness and efficiency.
- Lens – Acrylic high efficiency lens diffuses the light into the appearance of a single light source without pixilated glare.
- Torsion Springs – Allow for easy, rigid attachment to the housing. Provide positive retention and a snug fit to the ceiling eliminating the potential for gaps.
- Socket Bracket – Integral to the driver bracket, allows E26 socket clip to be affixed and provides temporary support for ease of installation.

accessories

- A variety of splay trims snap easily into the lower casting to provide a finished look. Available in smooth cones or baffles, and in painted and anodized finishes. Refer to catalog system below for ordering details.

listings

- cETLus classified for use in wet locations, IC and non-IC applications. Classification allows compliant use with most 6" Capri and many competitive 6" cans maximizing retrofit potential (see Can Compatibility Chart).
- Warranty – 5 year manufacturer's warranty applicable to both IC and non-IC applications up to a 40°C ambient temperature.



Green Choice: CRL6K-G2-6-27K-CRL6B-WHT

housing

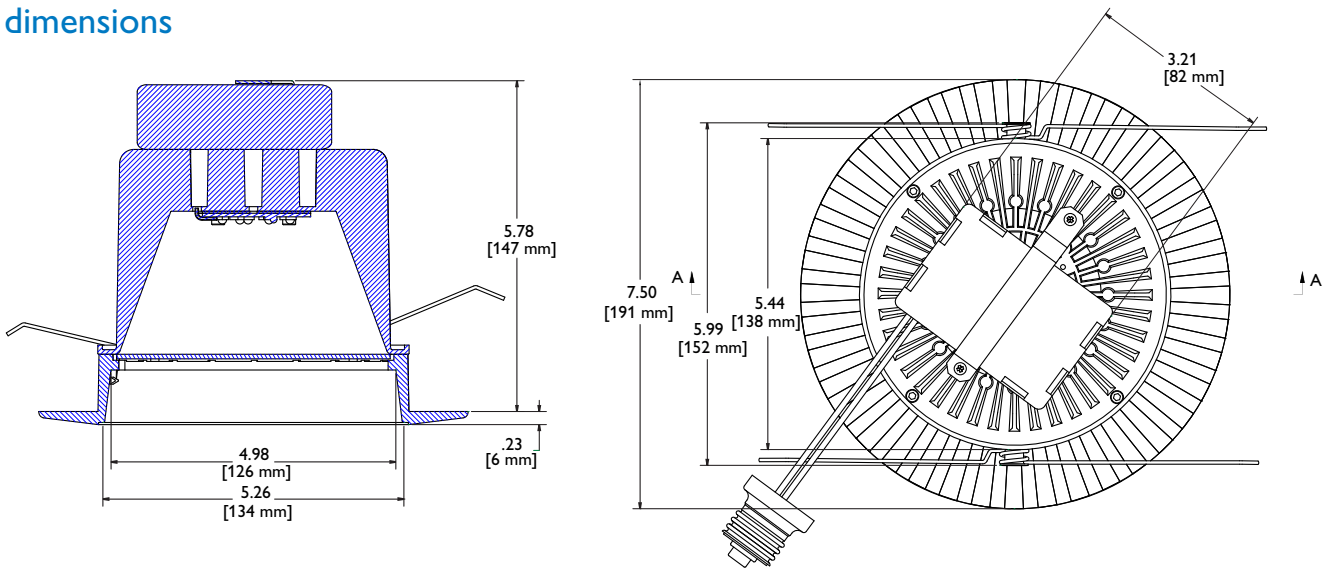
trim accessories²

CRL6K-G2	6	27K	CRL6	
Housing CRL6K-G2- 6" LED Module Generation 2		Color Temperature 27K – 2700K 35K – 3500K		Style R – Reflector B – Baffle ¹
	Lumens 6 – 600 Typical Lumens		Voltage BLANK – 120V	Splay CRL6 – 6" LED Splay Insert
				Finish WHT – White BLK – Black CLR – Clear GLD – Gold

Footnotes

- Baffle available in white or black only.
- CRL6K-G2 trim and accessory splay ordered and shipped as separate line items.

dimensions



6" CRL6K Housing Compatibility Chart

Manufacturer	SKU
Capri	CR1, CR1NB, CR1QP, CR1NBQP, CRR1, CRR1NB, CRR1QP, CRR1NBQP, QL1, QL1NB, QL1QP, QL1NBQP, QL6, QL6NB, QL6QP, QL6NBQP, PR75ASIC, PR75ASICNB, R10, R10IC, RR10, RR10IC, R150ASIC, FDIC6V90
Halo	H7ICAT, H7ICT, H7TCP, H7RICAT, H7RT, H7RICT

Manufacturer	SKU
Edison	E1700 Series
Lithonia	LC6, L7X, L7XR
Juno	IC22, IC22W, IC22R, IC22S, IC23, IC23W, IC2, IC2W, TC2, TC2W, TC2R
Elite	B6, B6IC, B6000-IC, B6IC-100, B6R, B6RIC, EZ6IC, EZ6RIC
Elco	EL7IC100A, EL7IC, EL7ICA, EL7RICA, R10H, RR10H
Sea Gull	11028, 11028QC, 1128, 1128QC, 11018, 11008, 11017

Following is a list of standard incandescent leading edge dimmers recommended for use with the CRL6K-G2:

Leviton, Illumitech Series (Part numbers IPI06-XXX)
 Leviton, Trimatron Series (Part numbers 6602-X, 6681-X, 6683-X, 6684-X, 700-X and 705-X)
 Leviton, SureSlide Series (Part Numbers 6633)
 Lutron Skylark Series (Part Number S-600, S2-LH)
 Cooper, Aspire Series (Part numbers 9530XXX)

The following Electronic Low Voltage (ELV) dimmers are also recommended for use with the CRL6K-G2:

Lutron Nova T Series (Part number NTELV-600)
 Lutron Faedra (Part Number FAELV-500-XX)
 Leviton Vizia (Part Number VPE04)

trims



BLK – Black Trim



CLR – Clear Trim



GLD – Gold Trim



WHT – White Trim



BLK – Black Baffle



WHT – White Baffle

photometrics

CRL6K-G2-6-27K-CRL6B-BLK

Tested to LM-79 standards.

Clear Specular Reflector		Candle Power				Average Luminance			
Test No.	C12321L	Angle	End	At 45°	Cross	Angle	End	At 45°	Cross
S/MH	(0 degree plane) 0.9	0	483	483	483	45	13143	12731	11435
Lamp Type	(1)11 White LEDS	5	479	477	474	55	7571	7362	6392
Total Fixture Lumens	538	15	426	422	407	65	3952	3790	3121
IES File	C12321L.ies	25	317	311	293	75	827	728	265
Input Watts	13	35	201	196	180	85	0	0	0
Luminaire Efficacy	42 LPW	45	109	105	94	Coefficients of Utilization			
Comp Yearly Energy Cost at \$0.08/KWh = \$5.71		55	51	49	43	pcc	80		70
		65	20	19	15	pw	50	30	50
		75	3	2	1	RCR	50		30
						0	118	118	118
						1	112	109	106
						2	106	100	103
						3	98	92	96
						4	93	83	91
						5	86	78	85
						6	81	71	81
						7	77	67	76
						8	72	61	71
						9	68	57	68
						10	66	55	64

CRL6K-G2-6-27K-CRL6R-CLR

Tested to LM-79 standards.

Clear Specular Reflector		Candle Power				Average Luminance			
Test No.	29813	Angle	End	At 45°	Cross	Angle	End	At 45°	Cross
S/MH	(0 degree plane) 0.9	0	463	463	463	45	9768	9613	9536
Lamp Type	(1)11 White LEDS	5	458	456	456	55	6404	6308	6308
Total Fixture Lumens	629	15	407	404	405	65	4151	4021	3762
IES File	29813.ies	25	313	310	310	75	1906	1906	1906
Input Watts	13	35	211	208	210	85	629	629	1258
Luminaire Efficacy	48 LPW	45	126	124	123	Coefficients of Utilization			
Comp Yearly Energy Cost at \$0.08/KWh = \$5.00		55	67	66	66	pcc	80		70
		65	32	31	29	pw	70	50	30
		75	9	9	9	RCR	50		30
		85	1	1	2	0	118	118	118
						1	112	108	105
						2	104	97	93
						3	96	89	81
						4	91	81	73
						5	84	73	67
						6	79	68	60
						7	73	63	56
						8	69	57	51
						9	66	54	46
						10	61	51	44

photometrics

CRL6K-G2-6-27K-CRL6B-WHT

Tested to LM-79 standards.

Clear Specular Reflector Test No. ITL69647 S/MH (0 degree plane) 0.9 Lamp Type (1)11 White LEDS Total Fixture Lumens 594 IES File ITL69647.ies Input Watts 13 Luminaire Efficacy 47 LPW		Candle Power		Average Luminance						
		Angle	End	Angle	End					
				45	12504					
				55	8533					
				65	6164					
				75	4270					
				85	3623					
Comp Yearly Energy Cost at \$0.08/KWh = \$5.11		25	287	Coefficients of Utilization						
		35	190	pcc	80			70		
		45	112	pw	70	50	30	70	50	30
		55	62	RCR						
		65	33	0	118	118	118	115	115	115
		75	14	1	111	108	104	109	105	102
		85	4	2	104	96	92	101	94	90
				3	95	88	81	93	85	80
				4	90	80	72	88	79	71
				5	83	72	66	81	71	65
				6	79	67	59	77	67	58
				7	73	61	55	71	61	54
				8	68	57	50	68	56	50
				9	65	54	46	64	53	46
				10	61	50	42	60	50	42

CRL6K-G2-6-35K-CRL6R-CLR

Tested to LM-79 standards.

Clear Specular Reflector		Candle Power				Average Luminance			
Test No.	29811	Angle	End	45	Cross	Zone	End	45	Cross
S/MH	(0 degree plane) 0.9	0	534	534	534	45	9071	9148	8916
Lamp Type	(1)11 White LEDS	5	522	524	528	55	5639	5639	5352
Total Fixture Lumens	647	15	457	456	457	65	3243	3373	3113
IES File	29811.ies	25	340	339	339	75	1694	1694	1694
Input Watts	12	35	216	214	212	85	629	629	629
Luminaire Efficacy	54 LPW	45	117	118	115	Coefficients of Utilization			
Comp Yearly Energy Cost at \$0.08/KWh = \$4.44		55	59	59	56	pcc	80	70	
		65	25	26	24	pw	70	50	30
		75	8	8	8	RCR			
		85	1	1	1	0	118	118	118
						1	112	109	106
						2	105	98	93
						3	97	90	83
						4	92	82	76
						5	85	76	68
						6	81	69	63
						7	76	65	57
						8	71	59	53
						9	68	56	50
						10	64	53	46

CRL6K-G2-6-35K-CRL6B-BLK

Tested to LM-79 standards.

Clear Specular Reflector		Candle Power				Average Luminance			
Test No.	C233794-1	Angle	End	45	Cross	Zone	End	45	Cross
S/MH	(0 degree plane) 0.9	0	490	490	490	45	10592	10532	9461
Lamp Type	(1)11 White LEDS	5	484	484	482	55	6159	6146	5319
Total Fixture Lumens	541	15	426	425	417	65	3367	3250	2647
IES File	C233794-1.ies	25	313	312	298	75	793	602	164
Input Watts	11	35	195	196	180	85	0	0	0
Luminaire Efficacy	48 LPW	45	106	105	95	Coefficients of Utilization			
Comp Yearly Energy Cost at \$0.08/KWh = \$5.00		55	50	50	43	pcc	80	70	
		65	20	19	16	pw	70	50	30
		75	3	2	1	RCR			
		85	0	0	0	0	118	118	118
						1	112	109	106
						2	106	100	94
						3	98	92	85
						4	93	83	78
						5	86	78	70
						6	81	71	65
						7	77	67	59
						8	72	61	56
						9	68	57	52
						10	66	55	47

photometrics

CRL6K-G2-6-35K-CRL6B-WHT

Tested to LM-79 standards.

Clear Specular Reflector

Test No.	30080
S/MH	(0 degree plane) 0.9
Lamp Type	(1)11 White LEDS
Total Fixture Lumens	649
IES File	30080.ies
Input Watts	11
Luminaire Efficacy	58 LPW

Comp Yearly Energy Cost at
\$0.08/KWh = \$4.14

Candle Power

Angle	End	45	Cross
0	517	517	517
5	517	515	509
15	465	461	442
25	353	350	327
35	236	233	212
45	137	136	122
55	73	73	65
65	37	37	33
75	16	15	12
85	4	3	1

Average Luminance

Zone	End	45	Cross
45	15097	14965	13416
55	9915	9902	8818
65	6876	6802	6011
75	4683	4503	3722
85	3120	2674	981

Coefficients of Utilization

pcc	80			70		
pw	70	50	30	70	50	30
RCR						
0	118	118	118	115	115	115
1	112	108	105	109	106	103
2	104	97	93	102	95	91
3	96	89	82	94	88	81
4	91	81	73	89	80	73
5	84	75	67	82	73	67
6	80	68	60	78	68	60
7	75	64	56	72	63	56
8	69	58	52	68	57	52
9	67	55	47	65	55	47
10	63	52	45	61	51	45



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Contact Factory for Additional Configurations.

Specifications are subject to change without notice.

Consult website for latest version of this spec sheet.

Some luminaires use fluorescent or high intensity discharge (HID) lamps

that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

