Project

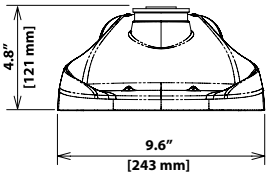
Type Leotek Cobrahead 1-7

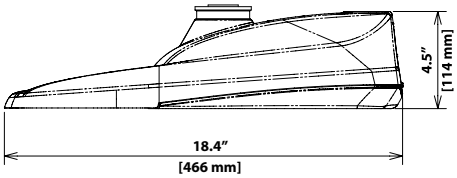
Catalog No. See Below

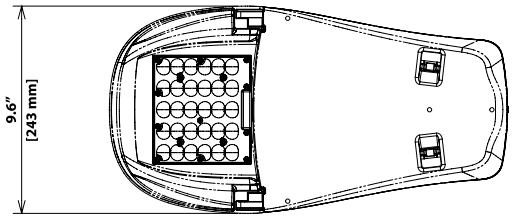
GreenCobra™ Jr. LED Street Light
GCJ J-Series Specification Data Sheet

Luminaire Data

Weight 7 lbs [3.2 kg]
EPA 0.39 ft^2







Ordering Information

Sample Catalog No. GCJ1-30J-MV-40K-2R-GY-055-PCR7-WL

GCJ1, GCJ2, GCJ3	30J	NV	30K	2R, 5	GY	025, 040, 045, 055, 075, 080	PCR7CR, WL, SCS (Special Current Selector)
Model*	**LED Code**	**Voltage**	**Color Temperature**	**Distribution**	**Finish**[1]	**Output Code**[2]	**Options**
GCJ1*	30J	**MV** 120-277V	**27K** 2700K	**2R** Type 2	**GY** Gray	Refer to Page 3 to select the performance code.	**FOC**[3] Fixed Output Code
GCJ2*		**HV** 347-480V	**30K** 3000K	**3R** Type 3R	**DB** Dark Bronze		**LPCR** Less Photocontrol Receptacle
GCJ3*			**40K** 4000K	**3F** Type 3F	**BK** Black		**PCR7**[4] ANSI 7-wire Photo-control Receptacle
			50K 5000K	**4** Type 4			**PCR7-CR**[5] Control Ready 7-wire PC Receptacle
				5 Type 5			**WL** Utility Wattage Label
							4B 4-Bolt Mounting Bracket
							RWG Rubber Wildlife Guard
							SWTB Straight Wire Terminal Block
							BBL Bubble Level
							DSC Door Safety Cable
							CF[6] Coastal Paint Finish
							SP2[7] Extreme Surge Protection, 20KV/10KA, Fail-to-on
							LSSP2[7] Extreme Surge Protection, Fail-to-off

* Refer to performance data table on page 3 for specific model with corresponding output code

Notes:

1 Gray, Black, and Dark Bronze standard. Consult factory for other finishes. See page 2 for RAL codes of Standard finishes.

2 Specified output code is the factory set lumen performance. Refer to performance data table on page 3 of this spec sheet. Field adjustable output selector enables fixture to be changed in the field to adjust light output for local conditions (not available with Fixed Output Code, FOC) or PCR7-CR option. Consult factory if wattage limits require a special drive current.

3 Non-field adjustable, fixed output code. Specify required output code. Not available with PCR7-CR option.

4 Includes output selector that enables field adjustability of light levels. Includes connectors to allow easy upgrade of wireless dimming via PCR7. Wireless node by others.

5 Control-ready wired at factory for wireless node dimming (node by others). Output selector not included in the fixture. Not able to adjust above specified output code.

6 Specify the CF Option for coastal installation. See warranty for details.

7 Standard surge protection, 10kV/5kA, fail-to-on, meets enhanced surge protection based on ANSI 136.25-2015 3-part test.

8 Flush mounted house side shield. Shield cuts light off at 1 mounting height behind luminaire. Gray frame with black louvres.

9 Flush mounted cul-de-sac shield. Shield cuts light off at 1 mounting height behind luminaire and 2 times the mounting height on either side of luminaire. Gray frame with black louvres.

10 Flush mounted front side shield cuts light off at approximately 1½ mounting height in front of luminaire (street side). Gray frame with black louvres.

11 Specify Color (GY, DB, BK). Refer to Leotek web site for specific mounting details and drawings at https://leotek.com/lighting-library/

12 Specify MV (120-277V) or HV (347-480V).

Accessories*	
HSSJGCJ[8]	House Side Shield, Snap-On*
CSSJGCJ[9]	Cul-De-Sac Side Shield, Snap-On*
FSSJGCJ[10]	Front Side Shield, Snap-On*
SPB[11]	Square Pole Horizontal Arm Bracket
RPB[11]	Round Pole Horizontal Arm Bracket
PTB[11]	Pole Top Tenon Horizontal Arm Bracket
PTB2[11]	Pole Top Tenon Horizontal Arm Bracket (2@180°)
WB[11]	Wall Horizontal Arm Bracket
BSK	Bird Deterrent Spider Kit
LLPC[12]	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap

*Accessories are ordered separately and not to be included in the catalog number. For factory installed HSS, CSS, and FSS specify as option in luminaire catalog number.

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Luminaire Specifications

Housing
Die cast aluminum housing with universal two-bolt slip fitter mounts to 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter mast arm. One-piece aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Four-bolt mounting bracket (4B option) is available. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass by independent lab. Mounting has leveling adjustment from ± 5° in 2.5° steps. Electrical components are accessed without tools via a high-strength, non-conductive polycarbonate door with quick-release latches. Polycarbonate material meets UL 746C for outdoor usage. Available rubber wildlife guard (RWG option) conforms to mast arm with no gaps.

Light Emitting Diodes
LEDs produce nominal 90% of initial intensity at 60,000 hours hours of life per IES recommended lumen maintenance life projection based on 6 times the duration of the collected LM-80 data. For details on IESNA Position on LED Product Lifetime Prediction, PS-10-18. LEDs have correlated color temperature of 3000K (30K), 4000K (40K), or 5000K (50K)and 70 CRI minimum. LEDs are ROHS compliant, 100% mercury and lead free.

Field Adjustability
LED lumen output can be changed in the field to adjust light output for local conditions (not available with PCR7-CR option). The specified output code will be the factory set output. Field adjustments can be made with the output selector included in the fixture. Field adjustable range shown in performance data table.

Quality Control
Every luminaire is performance tested before and after a 2-hour burn-in period. Assembled in the USA.

Optical Systems
Micro-lens optical systems produce IESNA Type 2, Type 3, Type 4, or Type 5 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0). Optional house side shield cuts light off at 1/2 mounting height behind luminaire. Front side shield cuts light off at approximately one mounting height in front of the luminaire (street side). Cul-de-sac shield provides back and side light control for end of cul-de-sac applications. All shields are field installable without tools.

Electrical
Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 6 to 14 gauge wire. Surge protection complies with IEEE/ANSI C62.41 Category C High, 10kV/5kA and ANSI C136.2-2015, 3-part test.

Power Supply
IP66 rated power power supply with high power factor of > 90%. Auto sensing universal AC input from 120 to 277VAC (MV model) and 347 to 480VAC (HV mode) rated for both line to line and line to neutral applications. Maximum THD rating of 20%. Class 1 or Class 2. Built-in overheating protection mechanism will reduce drive current to LEDs and electrical components if the driver experiences unusual internal overheating situation. Built-in short circuit, voltage overload, and current overload protection with automatic recovery after correction.

Controls
3-Wire photocontrol receptacle is standard. ANSI C136.41 7-wire (PCR7) photocontrol receptacles is available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish
Housing receives a durable, fade-resistant polyester powder coat finish with 3.0 mil nominal thickness. Standard finish tested to withstand 5000 hours in salt spray exposure per ASTM B117 and Coastal Finish per ASTM G85. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels
Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified product. Consult DLC QPL for Standard and Premium Classification Listings. All electronic components inside of the luminaire are NRTL damp location rated per ANSI 136.37-2011 Ingress Protection standard. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C. Assembled in the U.S.A

Photometry
Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty
10-year limited warranty is standard on luminaire and components. See Leotek.com for warranty details.

Vandal Resistance
Housing and optics rated to IK10

Certification and Compliance
Luminaire complies with:
ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77
Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449, UL 1598

Color Specifications

Order Code	Color	RAL #	Pantone Equivalent
GY	Gray	7040	429C
BK	Black	9004	426C
DB	Dark Bronze	6022	BLACK 2C

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Performance Data: 2700K (27K)

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Output Code	System Wattage (W)	Delivered Lumens (Lm)[1]	Efficacy (Lm/W)	System Drive Current (mA)	Field Adjustable Output Range
GCJ1	30J	025	17	2397	141	250	↑
		035	26	3692	142	420	
		040	30	4140	138	480	
		045	34	4742	139	530	↓
GCJ2	30J	050	37	5291	143	590	↑
		060	44	6229	141	700	↓
GCJ3	30J	065	49	6734	137	780	↑
		075	54	7398	137	860	
		080	58	7830	135	930	
		085	64	8448	132	990	
		090	67	8813	132	1050	↓

Notes:
1 Nominal lumens. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.

Performance Data: 3000K (30K)

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Output Code	System Wattage (W)	Delivered Lumens (Lm)[1]	Efficacy (Lm/W)	System Drive Current (mA)	Field Adjustable Output Range
GCJ1	30J	025	17	2533	149	250	↑
		040	27	4058	152	420	
		045	30	4560	152	480	
		050	34	5223	154	530	↓
GCJ2	30J	055	37	5550	150	590	↑
		065	44	6425	146	700	↓
GCJ3	30J	070	49	7062	145	780	↑
		075	54	7722	143	860	
		080	58	8236	142	930	
		090	64	8960	140	990	
		095	67	9380	140	1050	↓

Notes:
1 Nominal lumens. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.

Performance Data: 4000K (40K) and 5000K (50K)

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Output Code	System Wattage (W)	Delivered Lumens (Lm)[1]	Efficacy (Lm/W)	System Drive Current (mA)	Field Adjustable Output Range
GCJ1	30J	025	17	2669	157	250	↑
		045	27	4299	161	420	
		050	30	4830	161	480	
		055	34	5532	163	530	↓
GCJ2	30J	060	37	5883	159	590	↑
		070	44	6864	156	700	↓
GCJ3	30J	075	49	7256	149	780	↑
		080	54	7992	148	860	
		085	58	8468	146	930	
		090	64	9216	144	990	
		095	67	9648	144	1050	↓

Notes:
1 Nominal lumens. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.

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BUG Ratings: 2700K (27K)

All data nominal. IES files for all CCTs are available at leotek.com.

		Type 2R	Type 3R	Type 3F	Type 4	Type 5
Product & LED Code	**Output Code**	**BUG Rating**	**BUG Rating**	**BUG Rating**	**BUG Rating**	**BUG Rating**
GCJ1 30J	025	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1
	035	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
	040	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
	045	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
GCJ2 30J	050	B2-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
	060	B2-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B3-U0-G3
GCJ3 30J	065	B2-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B3-U0-G1
	075	B2-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B3-U0-G1
	080	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
	085	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
	090	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3

BUG Ratings: 3000K (30K)

All data nominal. IES files for all CCTs are available at leotek.com.

		Type 2R	Type 3R	Type 3F	Type 4	Type 5
Product & LED Code	**Output Code**	**BUG Rating**	**BUG Rating**	**BUG Rating**	**BUG Rating**	**BUG Rating**
GCJ1 30J	025	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
	040	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
	045	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
	050	B2-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
GCJ2 30J	055	B2-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
	065	B2-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B3-U0-G3
GCJ3 30J	070	B2-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B3-U0-G1
	075	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
	080	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
	090	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
	095	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2

BUG Ratings: 4000K (40K) and 5000K (50K)

All data nominal. IES files for all CCTs are available at leotek.com.

		Type 2R	Type 3R	Type 3F	Type 4	Type 5
Product & LED Code	**Output Code**	**BUG Rating**	**BUG Rating**	**BUG Rating**	**BUG Rating**	**BUG Rating**
GCJ1 30J	025	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
	045	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
	050	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
	055	B2-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
GCJ2 30J	060	B2-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G1	B3-U0-G1
	070	B2-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B3-U0-G1
GCJ3 30J	075	B2-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
	080	B2-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
	085	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
	090	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
	095	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2

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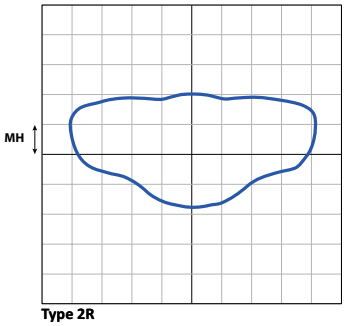
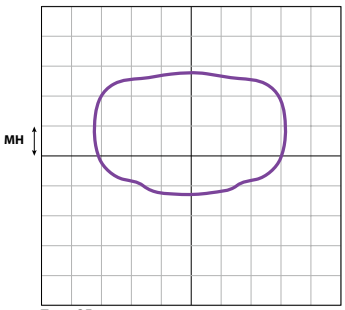
Optical Distribution

(Each square block represents one mounting height, MH)



Type 2R



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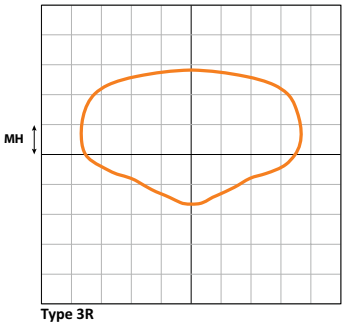

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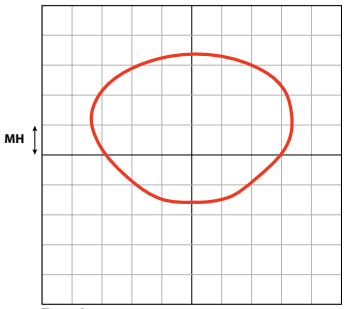

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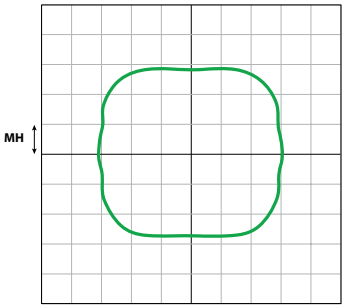

Type 5

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LEOTEK LITE-ON GROUP

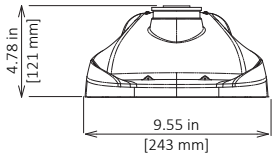
Project
Type C1-C2
Catalog No. See Below

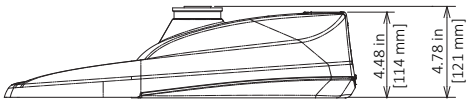
ComfortView™ Neighborhood LED Street Light

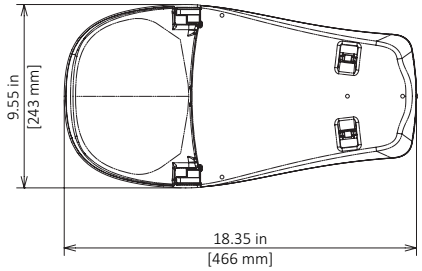
CV Specification Data Sheet

Luminaire Data

Weight 7 lbs [3.2 kg]
EPA 0.39 ft²







Ordering Information

Sample Catalog No. CV1-H-MV-40K-2R-GY-045-FOC

CV1	H	MV	30K	2R	GY	030, 055	PCR7CR, WL, SCS (Special Current Selector)
Product	**LED Code**	**Voltage**	**Color Temperature**	**Distribution**	**Finish**[1]	**Output Code**[2]	**Options**
CV1	**H**	**MV** 120-277V **HV** 347-480V	**27K** 2700K **30K** 3000K **40K** 4000K	**2R** Type 2 **3R** Type 3	**GY** Gray **DB** Dark Bronze **BK** Black	**025** **030** **035** **040** **045** **050** **055** **060** **070** **075** **080**	**FOC**[3] Fixed Output Code **LPCR** Less Photocontrol Receptacle **PCR7**[4] ANSI 7-wire Photo-control Receptacle **PCR7-CR**[5] Control Ready 7-wire PC Receptacle **WL** Utility Wattage Label **4B** 4-Bolt Mounting Bracket **RWG** Rubber Wildlife Guard **SWTB** Straight Wire Terminal Block **BBL** Bubble Level **CF**[6] Coastal Paint Finish

Notes:

1 Gray, Black, and Dark Bronze standard. Consult factory for other finishes.

2 Specified output code is the factory set lumen performance. Field adjustable is standard via an eight-position output selector. Refer to output data table on this spec sheet. An illustration of the output selector and its label is shown on page 2. Consult factory if special output setting is required.

3 Non-field adjustable, fixed lumen output. Specify required output code. Not available with PCR7-CR option.

4 Includes output selector that enables field adjustability of light levels. Includes connectors to allow easy upgrade of wireless dimming via PCR7. Wireless node by others.

5 Control-ready wired at factory for wireless none dimming (node by others). Output selector not included in the fixture. Not able to adjust above specificed drive current.

6 Specify the CF Option for coastal installation. See warranty for details.

7 Flush mounted Cul-de-Sac Shield cuts light off at 1 times the mounting height behind the luminaire, 1¾ in front, and 2¼ times the mounting height laterally.

8 Flush mounted Front Side Shield cuts light off at approximately 1½ times the mounting height in front of the luminaire (street side) and 2¼ times the mounting height laterally.

9 Flush mounted House Side Shield cuts light off at 1 times the mounting height behind the luminaire and 2¾ times the mounting height laterally.

10 80 Degree Cutoff Shield mitigates high angle glare above 80 degrees from nadir and cuts light off at 1½ times the mounting height behind and 2⅓ times the mounting height laterally.

11 Specify Color (GY, DB, BK)

12 Specify MV (120-277V) or HV (347-480V).

Accessories*	
CSSCV[7]	Cul-De-Sac Side Shield, Snap-On*
FSSCV[8]	Front Side Shield, Snap-On*
HSSCV[9]	House Side Shield, Snap-On*
VHCS[10]	80 Degree Cutoff Shield*
PTB[11]	Pole Top Tenon Horizontal Arm Bracket
PTB2[11]	Pole Top Tenon Horizontal Arm Bracket (2@180°)
RPB[11]	Round Pole Horizontal Arm Bracket
SPB[11]	Square Pole Horizontal Arm Bracket
WB[11]	Wall Horizontal Arm Bracket
LLPC[12]	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap
BSK	Bird Deterrent Spider Kit

*Accessories are ordered separately and not to be included in the catalog number. For factory installed HSSCV, CSSCV, FSSCV and VHCS specify as option in luminaire catalog number. HSSCV, CSSCV, FSSCV can be installed without a tool, but a tool is required for removal. 80 Degree Cutoff Shield (VHCS) requires a Phillips head screwdriver for installation.

*2700 and 3000K ComfortView fixtures are certified as Community Friendly Lighting Equipment by the Smart Outdoor Lighting Alliance (SOLA).

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ComfortView_Series_Specification Sheet_07-31-19.
Specifications subject to change without notice.

ComfortView™ Neighborhood LED Street Light

CV Specification Data Sheet

Luminaire Specifications

Housing
Die cast aluminum housing with universal two-bolt slip fitter mounts to 1-1/4” to 2” (1-5/8” to 2-3/8” O.D.) diameter mast arm. One-piece aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Four-bolt mounting bracket is available. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass. Mounting has leveling adjustment from ± 5° in 2.5° steps. Electrical components are accessed without tools via a high-strength, non-conductive polycarbonate door with quick-release latches. Polycarbonate material meets UL 746C for outdoor usage. Available rubber wildlife guard (RWG option) conforms to mast arm with no gaps.

Light Emitting Diodes
Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21 (L90 ≥ 100k hours). LEDs are tested in accordance with IES LM-80 testing procedures. LEDS have correlated color temperature of 2700 (27K), 3000 (30K), 4000 (40K), and 70 CRI minimum. LEDs are 100% mercury and lead free.

Field Adjustability
LED lumen output can be changed in the field to adjust light output for local conditions (not available with PCR7-CR option). The specified output code will be the factory set output. Field adjustments can be made with the output selector included in the fixture. Field adjustable range shown in performance data table.

Quality Control
Every luminaire is performance tested before and after a 2-hour burn-in period. Assembled in the USA.

Optical Systems
Two-stage reflective optics produce IESNA Type 2 or Type 3 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90º (BUG Rating, U=0). Optional house side shield cuts light off at 1/2 mounting height behind luminaire. Cul-de-sac shield provides back and side light control for end of cul-de-sac applications. Front side shield cuts light off at approximately one mounting height in front of luminaire (street side). 80 degreee cutoff shield eliminates very high angle glare above 80 degrees from nadir. All shields are field installable without tools.

Electrical
Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 6 to 14 gauge wire. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA and ANSI C136.2-2015, 20kV/10kA.

Controls
3-Wire photocontrol receptacle is standard. ANSI C136.41 7-wire (PCR7) photocontrol receptacles is available. All photocontrol receptacles have a tool-less rotatable base. Wireless control module is provided by others.

Finish
Housing receives a durable, fade-resistant polyester powder coat finish with 3.0 mil nominal thickness. Standard finish tested to withstand 5000 hours in salt spray exposure per ASTM B117 and Coastal Finish per ASTM G85. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels
Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified product. Consult DLC QPL for Standard and Premium Classification Listings. International Dark Sky Association listed. 2700 and 3000K ComfortView fixtures are certified as Community Friendly Lighting Equipment by the Smart Outdoor Lighting Alliance (SOLA). Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C. Assembled in the U.S.A

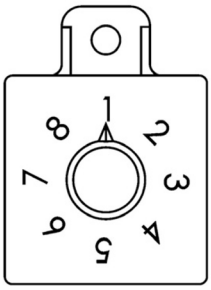
Photometry
Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty
10-year limited warranty is standard on luminaire and components.

Vandal Resistance
Housing and optics rated to IK10

Standards
Luminaire complies with:
ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77
Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449, UL 1598

Example of ComfortView™ Output Selector and Label:



W	Est lm
1	66 / 7000
2	48 / 5500
3	43 / 5000
4	38 / 4500
5	34 / 4000
6	29 / 3500
7	24 / 3000
8	19 / 2500

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Performance Data[1]

All data nominal. IES files for all CCTs available at leotek.com.

Product	Color Temperature (CCT)	Output Code	Drive Current (mA)	System Wattage (W)	Delivered Lumens (Lm)[2]	Efficacy (Lm/W)	Field Adjustable Output Range
CV1-H	2700K (27K)	025	190	19	2242	118	↕
		030	250	24	2892	120	
		035	300	29	3463	119	
		040	350	34	4163	122	
		045	400	38	4535	119	
		050	460	43	4998	116	
		055	520	48	5479	114	
		070	700	66	7220	110	
	3000K (30K)	025	190	19	2412	127	↕
		030	250	24	3073	128	
		035	300	29	3676	127	
		045	350	35	4423	128	
		050	400	38	4777	126	
		055	460	45	5561	124	
		060	520	49	5800	118	
		075	700	67	7722	115	
	4000K (40K)	025	190	19	2675	139	↕
		035	250	24	3294	137	
		040	300	29	3930	136	
		045	350	34	4561	134	
		050	400	38	5059	133	
		055	460	43	5594	130	
		060	520	48	6147	128	
		080	700	67	8227	123	

Notes:
1 Data shown above is for type 2 optic. For type 3 optic, consult IES files for specific data at Leotek.com
2 Nominal lumens. Normal tolerance ± 10% due to factors including LED bin variance, and ambient temperatures.

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Specifications subject to change without notice.

BUG Ratings

All data nominal. IES files for all CCTs available at leotek.com.

Product	Color Temperature (CCT)	Output Code	Drive Current (mA)	Type 2 BUG Rating	Type 3 BUG Rating
CV1-H	2700K (27K)	025	190	B1-U0-G1	B1-U0-G1
		030	250	B1-U0-G1	B1-U0-G1
		035	300	B1-U0-G1	B1-U0-G1
		040	350	B1-U0-G1	B1-U0-G1
		045	400	B1-U0-G1	B2-U0-G1
		050	460	B1-U0-G1	B2-U0-G1
		055	520	B1-U0-G1	B2-U0-G1
		070	700	B2-U0-G1	B2-U0-G2
	3000K (30K)	025	190	B1-U0-G1	B1-U0-G1
		030	250	B1-U0-G1	B1-U0-G1
		035	300	B1-U0-G1	B1-U0-G1
		045	350	B1-U0-G1	B1-U0-G1
		050	400	B1-U0-G1	B2-U0-G1
		055	460	B1-U0-G1	B1-U0-G1
		060	520	B1-U0-G1	B2-U0-G1
		075	700	B2-U0-G1	B2-U0-G2
	4000K (40K)	025	190	B1-U0-G1	B1-U0-G1
		035	250	B1-U0-G1	B1-U0-G1
		040	300	B1-U0-G1	B1-U0-G1
		045	350	B1-U0-G1	B2-U0-G1
		050	400	B1-U0-G1	B2-U0-G1
		055	460	B1-U0-G1	B2-U0-G1
		060	520	B2-U0-G1	B2-U0-G1
		080	700	B2-U0-G1	B3-U0-G2

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