

FEATURES

- Unique thermal management system yields a 434,000 hour rated life
- Can be mounted on round or square poles
- Easy hinged access, field replaceable optical bezel and heat dissipating fins



*3000K and warmer CCTs only

See Certification Specifications

CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Die cast aluminum two-piece housing
- Die cast main (thermal) housing provides direct heat exchange between the LED light engine and the cool outdoor air
- LED drivers are thermally isolated from the main housing, mechanically attached and heat sunk to the rear housing
- Shape of the main housing is designed to prevent debris accumulation and is a bird nesting deterrent. Back and main housings are designed to hinge open for easy mounting and easy access
- IFS polyester powder-coat electrostatically applied and thermocured
- IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds

OPTICS

- Optical one piece cartridge system consisting of an LED engine, LEDs, optics, gasket and stainless steel bezel
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system
- Optics are held in place without the use of adhesives
- Cartridge assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED

ELECTRICAL

- Luminaire accepts 100V through 277V, 347V or 480V input, 50 to 60 Hz
- Power factor is $\geq .90$ at full load
- Optional 0 to 10 volt dimming leads are available upon request
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is listed by UL for use at 600VAC at 50°C or higher
- Plug disconnects are listed by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only
- Surge protection - 20kA
- Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard

CONTROLS

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- Available with Energenti for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see currentlighting.com/beacon)

INSTALLATION

- Arm mount for attachment to round or square pole
- Slip fitter or adjustable knuckle fits 2 3/8" arm or tenon
- Suitable for applications requiring 3G testing prescribed by ANSI C136.31

CERTIFICATIONS

- CSA labeled, suitable for wet locations (standard)
- IDA approved for 3000K or warmer CCT
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 06/03/2020.

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	3,414–15,549
Wattage Range	27–136
Efficacy Range (LPW)	99–139
Life (Hours)	L70 > 430,000
Input Current Range (Amps)	0.12–1.36



CRUZER

AREA LUMINAIRE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: CRZ-36L-80-4K7-3-UNV-AM-BLT

CATALOG #

CRZ					
Series	Engine Watts	LED Color	Optics	Voltage	Electrical Options
CRZ Cruzer	24L-27 27 Watt - LED array 24L-55 55 Watts - LED array 36L-80 80 Watts - LED array 48L-110 110 Watts - LED array 60L-136 136 Watts - LED array	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	2 Type II 3 Type III 4F Type IV, forward 4W Type IV, wide 5R Type V, rectangular SQM Type V, square medium 5W Type V, round wide	UNV 120-277V 347 347V 480 480V	PCU Photocell, Button Universal

Control Options	Sensor Options	Mounting Options	Shield Options	Finish
GENI-XX Energeni ^{3,6} WIS wiSCAPE Fixture Module, in-fixture relay for wireless lighting control ^{1,6} WISSC wiSCAPE Fixture Module, in-fixture relay for wireless lighting control and motion/occupancy control ^{1,6}	MOB Motion sensor 33% or 50% dimming ^{2,5,6} OCS Occupancy sensor (on/off)	MAF Mast Arm Fitter (formerly SF2) for 2 3/8" OD horizontal arm K Knuckle (formerly PK2) limit to 30° tilt or 2 3/8" OD horizontal arm or vertical tenon AM Arm mount WB Wall Bracket	BC Backlight control 90 90° house side shield 270 270° house side shield 360 360° house side shield	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGT Verde Green Textured Color Option CC Custom color

- Notes:
- 1 Not available at 347V or 480V input
 - 2 Not available on 48L-110, not available on 60L-136
 - 3 When ordering Energeni, specify the routine setting ode (example GENI-04). See Energeni brochure and instructions for setting table and options
 - 4 Must specify group and zone information at time of order.
 - 5 Specify time delay, dimming level and mounting height
 - 6 Not available with other control or sensor options

PERFORMANCE DATA

# LED'S	Drive Current	System Watts	Distribution Type	5K (5000K nominal, 70CRI)					4K (4000K nominal, 70CRI)					3K (3000K nominal, 70CRI)				
				Lumens	LPW ¹	B	U	G	Lumens	LPW ¹	B	U	G	Lumens	LPW ¹	B	U	G
24	350mA	27W	2	3703	132	1	0	1	3817	136	1	0	1	3474	124	1	0	1
			3	3680	131	1	0	1	3794	135	1	0	1	3453	123	1	0	1
			4	3721	133	2	0	1	3836	137	2	0	1	3491	125	2	0	1
			4W	3647	124	1	0	2	3759	128	1	0	2	3421	117	1	0	1
			5R	3765	134	2	0	1	3882	139	2	0	1	3532	126	2	0	1
			5W	3640	130	2	0	1	3752	134	2	0	1	3414	122	2	0	1
24	700 mA	55W	2	6171	107	1	0	1	6362	110	1	0	2	5789	100	1	0	1
			3	6134	106	1	0	2	6323	109	1	0	2	5754	99	1	0	2
			4	6201	107	3	0	1	6323	110	3	0	1	5817	100	3	0	1
			4W	6078	113	1	0	2	6265	117	1	0	2	5701	106	1	0	2
			5R	6275	108	3	0	1	6469	112	3	0	1	5887	102	3	0	1
			5W	6066	105	3	0	1	6254	108	3	0	1	5691	98	3	0	1
36	700 mA	80W	2	9430	115	1	0	2	9722	119	1	0	2	8847	108	1	0	2
			3	9374	110	1	0	3	9664	113	1	0	3	8794	103	1	0	2
			4	9477	111	1	0	3	9770	114	3	0	2	8891	104	3	0	2
			4W	9288	115	1	0	2	9575	119	1	0	3	8713	108	1	0	2
			5R	9591	112	3	0	2	9887	116	3	0	2	8997	105	3	0	1
			5W	9265	108	4	0	2	9552	112	4	0	2	8692	102	3	0	2
48	700 mA	110	2	12574	108	4	0	2	12963	118	2	0	2	11796	108	2	0	2
			3	12498	114	1	0	3	12884	117	1	0	3	11725	107	1	0	3
			4	12635	115	4	0	2	13026	119	4	0	2	11854	108	4	0	2
			4W	12383	115	1	0	3	12766	119	1	0	3	11617	108	1	0	3
			5R	12787	117	4	0	2	13182	120	4	0	2	11996	109	3	0	2
			5W	12360	113	4	0	2	12742	116	4	0	2	11595	106	4	0	2
60	700 mA	136W	2	15291	112	2	0	2	15764	116	2	0	2	14321	105	2	0	2
			3	15198	111	2	0	3	15668	115	2	0	3	14234	104	2	0	3
			4	15365	113	2	0	3	15840	116	4	0	2	14391	105	4	0	2
			4W	15059	112	2	0	4	15524	116	2	0	4	14104	105	2	0	3
			5R	15549	114	4	0	2	16030	117	4	0	2	14563	107	4	0	2
			5W	15022	110	4	0	2	15487	113	4	0	2	14070	103	4	0	2

¹ Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application

CRUZER

AREA LUMINAIRE

ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
24	1	350 mA	120	27	0.27
			277		0.12
			347		0.09
			480		0.06
24	2	700 mA	120	55	0.55
			277		0.24
			347		0.19
			480		0.14
36	1	700 mA	120	80	0.80
			277		0.35
			347		0.28
			480		0.20
48	1	700 mA	120	110	1.10
			277		0.48
			347		0.38
			480		0.27
60	1	700 mA	120	136	1.36
			277		0.59
			347		0.54
			480		0.34

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	1TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°F	1.00	0.97	0.95	0.94	0.91	>434,000

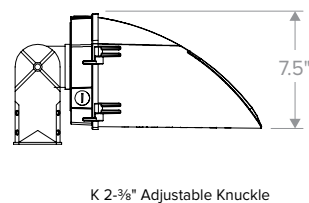
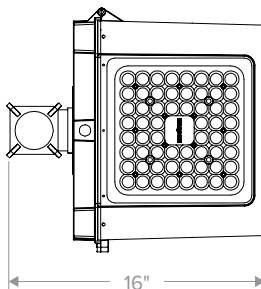
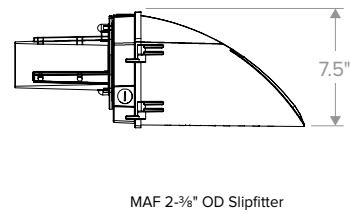
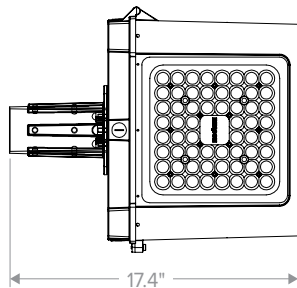
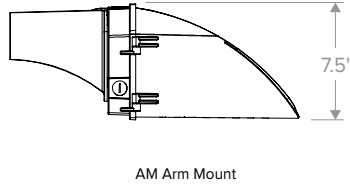
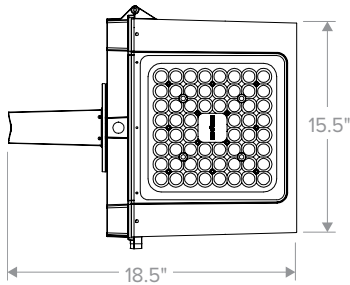
1 Projected per IESNA TM-21-11

Data references the extrapolated performance projections for the base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08

AMBIENT TEMPERATURE	LUMEN MULTIPLIER
0°C 32°F	1.02
10°C 50°F	1.01
20°C 68°F	1.00
25°C 77°F	1.00

Use these factors to determine relative lumen output for average ambient temperatures from 0–25°C (32–122°F)

DIMENSIONS



CRUZER

AREA LUMINAIRE

PHOTOMETRY

CRZ-60L-136-5K7-2-UNV TYPE II

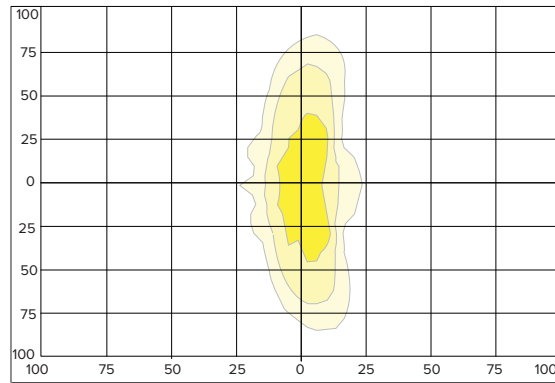
LUMINAIRE DATA

Description	5000 Kelvin, 70 CRI
Distribution Type	Type 2
Delivered Lumens	15,291
Watts	136
Efficacy	112
Mounting	Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	12920.5	84.5
Downward House Side	2370.4	15.5
Downward Total	15290.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15290.9	100.0

ISOMETRIC FOOTCANDLE



10' Mounting Height

.5 FC
1.0 FC

2.0 FC

CRZ-60L-136-5K7-3-UNV TYPE III

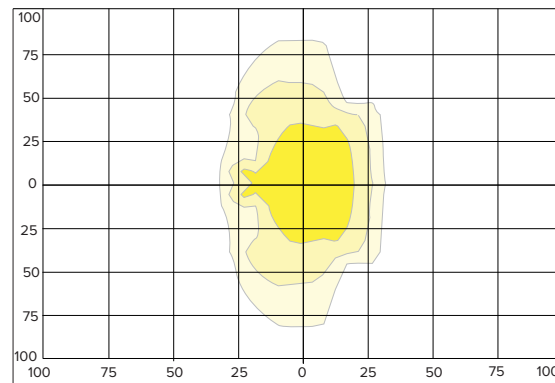
LUMINAIRE DATA

Description	5000 Kelvin, 70 CRI
Distribution Type	Type 3
Delivered Lumens	15,198
Watts	136
Efficacy	111
Mounting	Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	13292.7	87.5
Downward House Side	1905.3	12.5
Downward Total	15198.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15198.0	100.0

ISOMETRIC FOOTCANDLE



10' Mounting Height

.5 FC
1.0 FC

2.0 FC

CRZ-60L-136-5K7-4-UNV TYPE IV

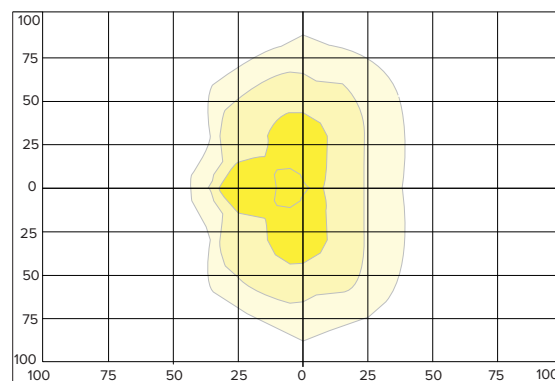
LUMINAIRE DATA

Description	5000 Kelvin, 70 CRI
Distribution Type	Type 4
Delivered Lumens	15,365
Watts	136
Efficacy	113
Mounting	Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7682.7	50.0
Downward House Side	7682.7	50.0
Downward Total	15365.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15365.4	100.0

ISOMETRIC FOOTCANDLE



10' Mounting Height

.5 FC
1.0 FC

2.0 FC

PHOTOMETRY CONTINUED

CRZ-60L-136-5K7-5R-UNV TYPE V RECTANGULAR

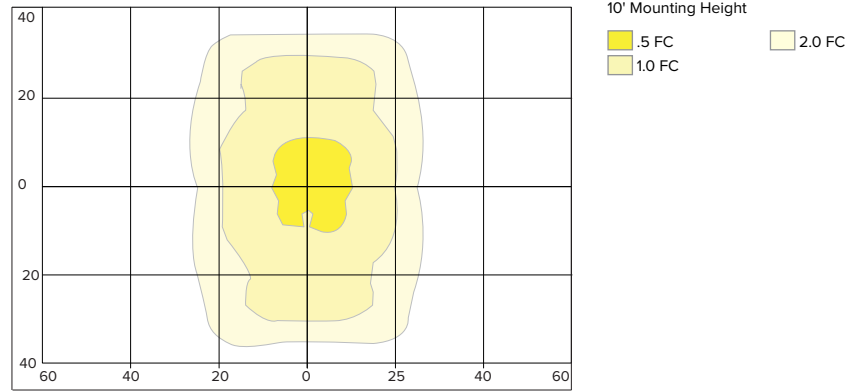
LUMINAIRE DATA

Description	5000 Kelvin, 70 CRI
Distribution Type	Type 5R
Delivered Lumens	15,549
Watts	137
Efficacy	114
Mounting	Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7774.7	50.0
Downward House Side	7774.7	50.0
Downward Total	15549.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15549.4	100.0

ISOMETRIC FOOTCANDLE



CRZ-60L-136-5K7-5W-UNV TYPE V ROUND WIDE

LUMINAIRE DATA

Description	5000 Kelvin, 70 CRI
Distribution Type	Type 5QM
Delivered Lumens	15,022
Watts	137
Efficacy	110
Mounting	Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7511.2	50.0
Downward House Side	7511.2	50.0
Downward Total	15022.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15022.4	100.0

ISOMETRIC FOOTCANDLE

