Project:		Туре:	Date:	Notes:
R	AB DESIGN			HELIX1-LED Area Light
Slipfitter	Non- Direct Mount	Yoke Mount		Lumen Adjustable
House Side Cutoff	Side Cutoff			R C R CERTIFED
IDEAL /	APPLICATIONS	• • • • • • • • • • • • • • • • • • • •		le fixture designed with a full range of I, III, IV, V), rotatable optics, glare control
✓ Parkir✓ Comr	ng Lots 🗸 Schools nercial 🗸 Roadways	 ✓ Dealerships ✓ Outdoor Pathways/ 	shields, and control options to cre	eate the perfect, most optimized standard fixture has all-in-one features

The HELIX-LED Series is one of the most progressive area lights in the Canadian market that is dark sky friendly and listed on the DLC LUNA QPL.

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SPECIFICATIONS

Walkways

	LED100A60	LED150A100		LED100A60	LED150A100
	PERFORMANCE			CONSTRUCTION	
Max. Light Output	14400/11500/8600 lm	21200 /17000 /14000 lm	Housing	Die-cast A	luminum
	(Lumen Selectable)	(Lumen Selectable)	Lens	Polycarbonate	
Max. Efficacy		m/W	Paint Specs.	Weather and Co	
ССТ		000K/4000K/5000K	Faint Specs.	Polyester powder coat finish	
		00K, 2700K, 3000K	Housing Finish	Bronze*, Cus	tom Colours
Beam Distribution	Type II, Type III,	Type IV, Type V		MOUNTING	
LED Lifetime (L70)	100,000) Hours	Slip fitter, Direct m	ount for round/squar	e poles, Trunnion
CRI	83		mount, Yoke mount		
B-U-G	B3-U	IO-G3	CERTIFICATIONS		
Dimming	0-10V(10	0%-100%)	cULus certified as per UL1598 & CSA C22.2 NO. 250.0:21, IP65, Wet Location, DLC Premium, DLC LUNA		
ELECTRICAL					
Wattage	100/80/60W	150/120/100W	Factory Installed Controls		
Voltage	120-3	347V	DHFS Motion Sensor, PCLS Control , Twist Lock Photocell, 7 PIN Receptacle with Shorting Cap ANSI C136. 41-2013 compliant, 3 PIN Receptacle with Shorting Cap ANSI C136.10		
Surge Protection	6kV internal & 10kV e	xternal as per UL1449			
Power Factor	0.9	998	1	Surge protection(120-2	o 1 ,
THD	4.17%	4.54%	O	otions Sold Separatel	y
Cable Specs. Input Power - 1m Cabtire Cable (SJOW 3x18 AWG) Dimming - 1m Cabtire Cable (SJOW 2x18 AWG)			Slip fitter, Direct mount for round/square poles, Non- Adjustal Direct Mount, Trunnion mount, Yoke mount, House Side Cuto		
AMI	BIENT OPERATING TEMPE		Side Cutoff, DHFS Motion sensor remote control, PCLS remo		ontrol, PCLS remote
	-40°C to +50°C (-40°F to +	122°F)		control	

Specs shown are for 120V/4000K

Plazas

Default factory setting 4000K/Highest Wattage Setting

Note: DLC LUNA certification applies to only HELIX1-LED150A100 fixtures in 2200K - 3000K CCT and mounted with a Non Adjustable Direct Mount Arm (Code - 020041).



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HELIX1-LED Area Light

Rotatable Optics



Can be used to re-direct the light in the required direction providing more flexibility especially for retrofit jobs.





RAB

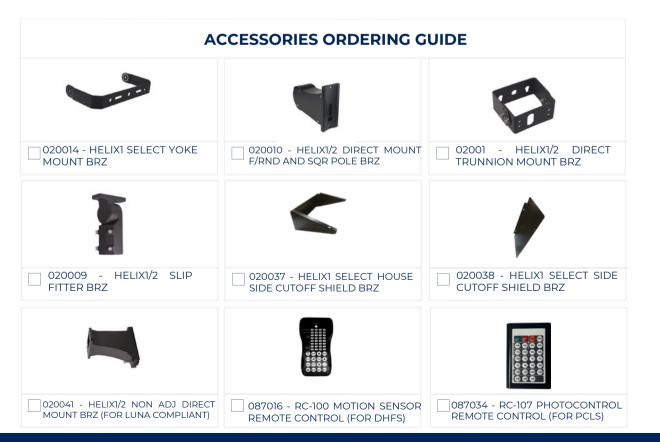
ORDERING GUIDE

HELIX1		н	VK		-	DIM	-	
Fixture	Wattage	Voltage	Colour Temp.	Beam Distribution	Finish	Dimming	Controls	Surge Protection
	LED100A60 LED150A100	H - 120-347V	VK - Colour Selectable (3000K/4000K ^a / 5000K) 2.2K - 2200K ^d 2.7K - 2700K ^d 3K - 3000K ^d	T2 - Type II T3 - Type III ^a T4 -Type IV T5 - Type V T2R -Type II Rotated Right T2L -Type II Rotated Left T3R-Type III Rotated Right T3L-Type III Rotated Left T4R - Type IV Rotated Right T4L -Type IV Rotated Left	BRZ - Bronze ^a CST- Custom Finish	DIM - 0-10V Dimming	Blank ^a PC - Photocontrol PCLS - Photocell CCT Lumen Sensor ^e 3PIN - 3 PIN Receptacle 7PIN - 7 PIN Receptacle DHFS - Dimming. High Frequency Motion Sensor ^e	SP10 - 10kV Surge Protection ^a SP20 - 20kV Surge Protection ^b
	ст							

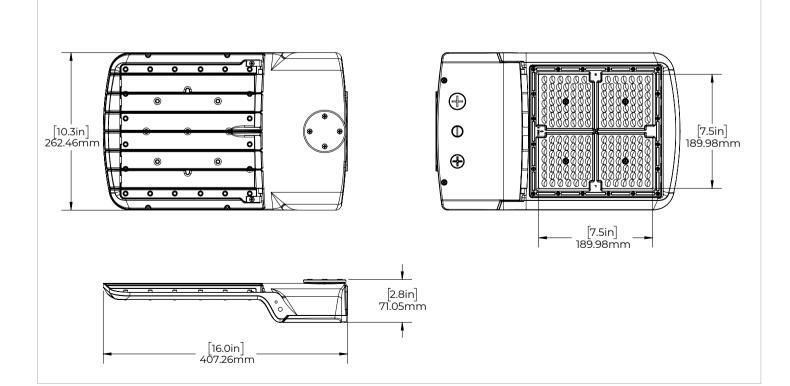
	STOCK CODE
083664	HELIX1-LED100A60-H-VK-T3-BRZ-DIM-SP10
083782	HELIX1-LED100A60-H-VK-T3-BRZ-DIM-PCLS-SP10 ^c
081707	HELIXI-LED150A100-H-VK T3-BRZ-DIM-SP10
081856	HELIX1-LED150A100-H-VK-T3-BRZ-DIM-PCLS-SP10 ^c

Note: Default factory setting is 4000K/Highest Wattage

- Standard Configuration
- **b** Available with 120-277V only
- c One remote control neededfor sensor (PCLS RC107 & DHFS RC100)
- **d** Units qualify for DLC LUNA when ordered in fixed 2200K or 2700K or 3000K CCT and with a Non Adjustable Direct Mount Arm



3



HELIX 1

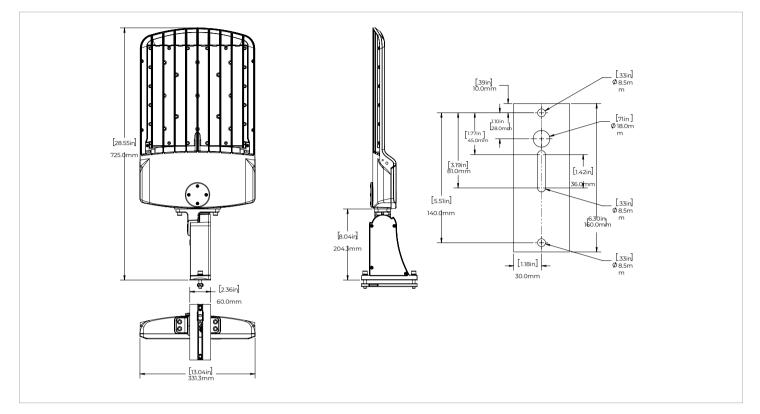
EPA (ft ²)				
	0° Tilt	45° Tilt	90° Tilt	
HELIX1-LED	0.25	1.16	1.52	
HELIX1-LED(HCO)	0.63	1.32	1.52	
HELIX1-LED(SCO)	0.70	1.16	1.52	
WEIGHT				
IELIXI-LED 8.4 lbs				

Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 calculations

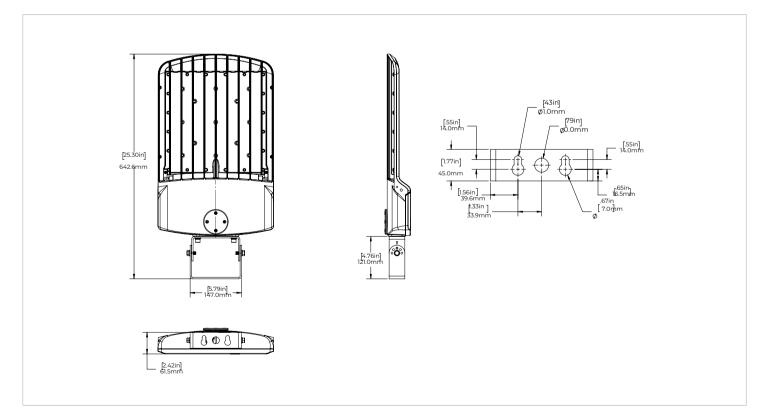
AMPERAGE DRAW & SURGE PROTECTION						
CURRENT SU					SURGE PROTECTION	
	120V	208V	240V	277V	347V	120-347V
HELIX1-LED100A60	0.86A	0.67A	0.50A	0.49A	0.32A	10kV
HELIX1-LED150A100	1.32A	0.76A	0.66A	0.57A	0.46A	10kV
TM-21 ESTIMATED LUMEN MAINTENACE						
	50,000	Hours 75,000 Hours			100,000 Hours	
HELIX1-LED	88	88.9%		7%		78.9%



DIRECT MOUNT

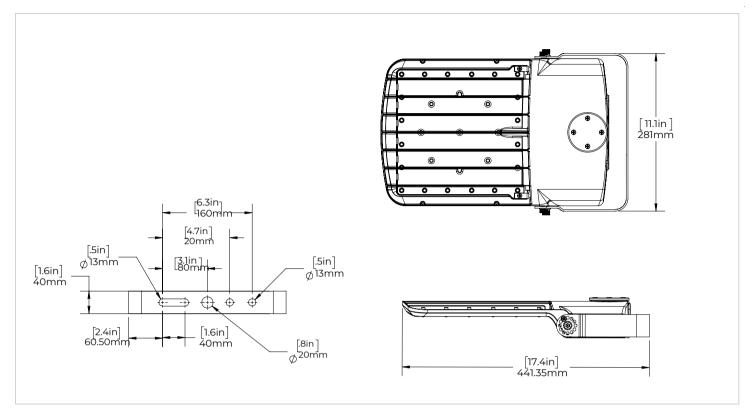


TRUNNION

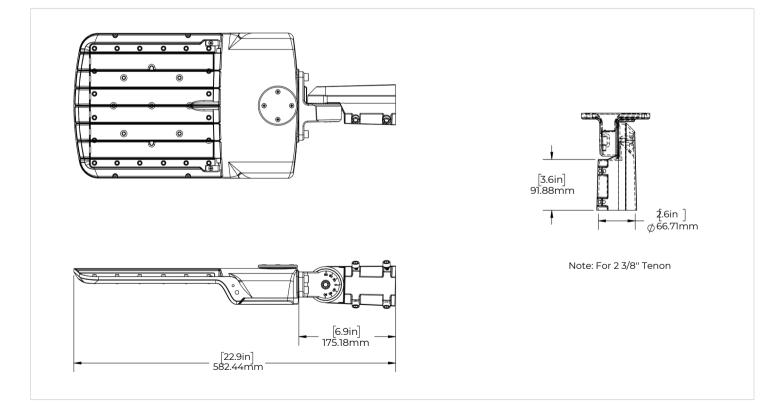


RAB

YOKE

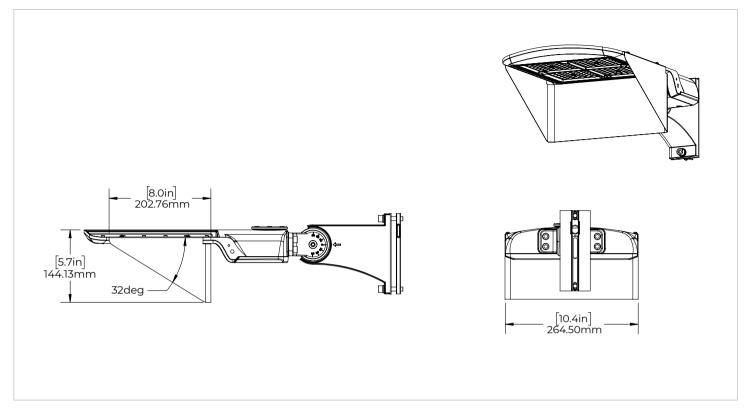


SLIPFITTER

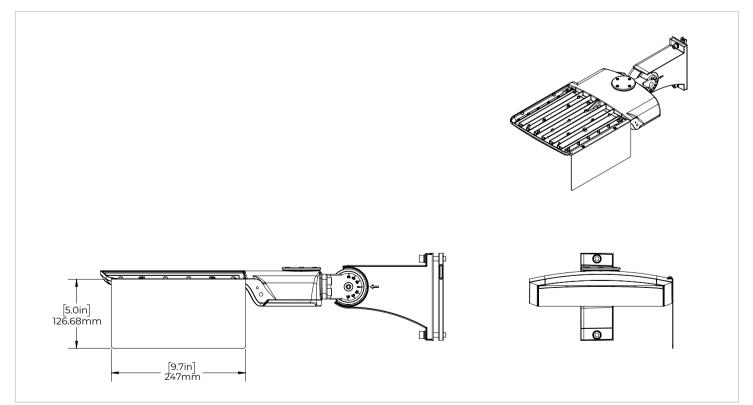


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HELIX 1 WITH HOUSE SIDE CUTOFF (HCO)



HELIX 1 WITH SIDE CUT OFF (SCO)



PHOTOCELL/CCT/LUMEN SENSOR (PCLS)



New PCLS Controller allows the Installer to adjust colour temperature, brightness, and photocontrol settings using a remote control after installation.

	SPECIFICATIONS
INPUT POWER	LED INPUT : MAX . 250VDC 3A; SENSOR INPUT: 10-14VDC, >301
SINKING CURRENT	MAX. 25MA
CONTROL OUTPUT	0-10V OUTPUT SIGNALS
POWER CONSUMPTION	MAX.0.5W
OPERATE LEVEL	10-20LUX ON, 30-80LUX OFF
AMBIENT TEMPERATURE	99%RH
OPERATING TEMPERATURE	-40° F- +158° F (-40°C- +70°C)

PHOTOCELL FUNCTIONS



When the ambient light is above set lux values, fixture will not switch on.



When the ambient light is below set lux values, fixture will switch on.



Light levels can be lowered to 50% after specified time period for improved energy savings.

CCT FUNCTIONS

Choose between 3000K/4000K/5000K

LUMEN/BRIGHTNESS FUNCTIONS



Light levels can be dimmed up or down by increments of 10%

Refer to page 9 for more details on the PCLS Remote Control Usability

RC107 REMOTE SPECIFICATIONS (FOR PCLS CONTROLLER)

DEFAULT FACTORY SETTING		
TASK LIGHT LEVEL	100%	
HOLD TIME	DISABLE	
PHOTOCELL	LOW	
ССТ	CCT LOW (WW - 3000K)	

FEATURES				
	ON OFF RESET REPEAT	ON: Turn on the fixture, the brightness is according to the task level you set OFF: Turn off the fixture, the fixture is permanently off. RESET: Task Light Level:100%; Hold Time: Disable; Photocell:Low; CCT:CCT Low (WW - 3000K) REPEAT: Send the same setting to different fixtures installed.		
ON OFF RESET REPEAT		DIM+: With each push of the button, brightness increases by 10%. DIM-: With each push of the button, brightness decreases by 10%; Select the task brightness of the fixture as needed.		
DIM+ DIM- 50% 60% DIM+ DIM- 50% 60% 70% 80% 90% 100% 0588E 105 4H 6H 8H 9H 10H 12H 10588E LOW MIDDLE HIGH	014+ 011- 70% 80% 90% 100%	HOLD TIME: The "hold time" starts to count right after the fixture turns on. When th "hold time is up, the fixture adjusts to 50% brightness until the light co turns the light fixture off. DISABLE: When you choose disabled, the fixture maintains the task light level		
Detection Range: 50ft	DISABLE LOW MIDDLE HIGH	LOW: When the ambient lux is less than 30lux, the fixture turn on at the task you set, when the ambient lux is more than 50lux, the fixture turns off. MIDDLE: When the ambient lux is less than 80lux, the fixture turn on at the task you set, when the ambientent lux is more than 100lux, the fixture turns HIGH: When the ambient lux is less than 150lux, the fixture turn on at the level you set, when the ambient lux is more than 180lux, the fixture turn DISABLE: Photoelectric switch disabled:		
		CCT : Adjust CCT(WW - Warm White/3000K, NW - Neutral White/4000K, CW White/5000K)		

Note: Custom settings can be done based on requirements in the Factory.

RAB

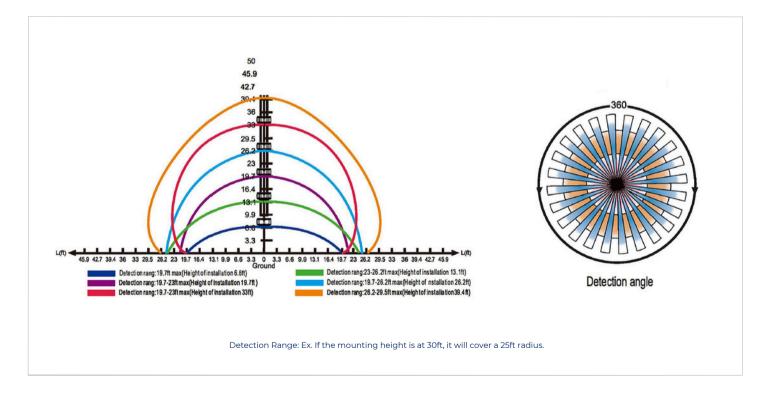
DIMMING HIGH FREQUENCY MOTION SENSOR (DHFS)



DHFS Microwave motion sensor offers a range of control features based on motion detection allowing the Installer to adjust the brightness of the fixture, hold time and daylight settings using a remote control after installation.

CATIONS
12V-24V DC
5.8GHZ +/-75MHZ
0-1 OV, MAX. 25MA SINKING CURRENT
MAX 26FT (8M)/360°
MAX 40FT
50FT. (15M) INDOOR, NO BACKLIGHT
MAX. 95% RH
-40°F - 158° F (-40°C- 70°C)

SENSOR COVERAGE



Refer to page 11 for more details on the DHFS Remote Control Usability

RC100 REMOTE SPECIFICATIONS (FOR DHFS CONTROLLER)

DEFAULT FACTORY SETTING		
BRIGHTNESS	100%	
SENSITIVITY	100%	
HOLD TIME	5 MINS	
DAYLIGHT SENSOR	*	
STAND-BY DIM	30%	
STAND-BY TIME	60 MINS	

FEATURES

BRIGHTNESS

Sets the highest light fixture brightness when motion is detected.



BRIGHTNESS (0)) (0)) (0))

10s 1m 5m 10m

 $\mathbf{\Phi} \odot \odot \odot \odot$

OK

(SEND)

(MODE3) (MODE4

аталов -ву -ву щено (тт 30m 60m

SENSITIVITY 20% 50% 75% 00%

HOLD

ON/ OFF DISP

(AUTO)

RESET

(MODE1) (MODE2

HOLD TIME:

The time the light fixture will remain at the brightness setting after it $\mbox{det}\varepsilon$ motion.

DAYLIGHT SENSOR:

The lux setting that the light fixture will turn on/off. If the ambient lux is m than the defined lux setting, the fixture & sensor function will turn off and remain off until the ambient lux is below the setting. To disable the lux set select the SUN icon. To set the lux to match current room conditions, select the EVE icon.

STAND-BY DIM:

The Dim level that the light fixture will dim down after the Hold Time has expired.

To disable dimming and only have ON/OFF, select the 0% icon.

STAND-BY TIME:

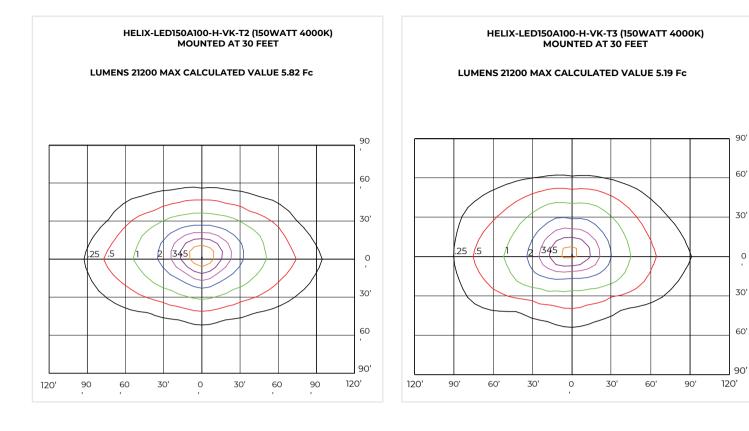
The time the light fixture will remain in the dim down state before it shuts disable the light from shutting off, select the INFINITY icon.

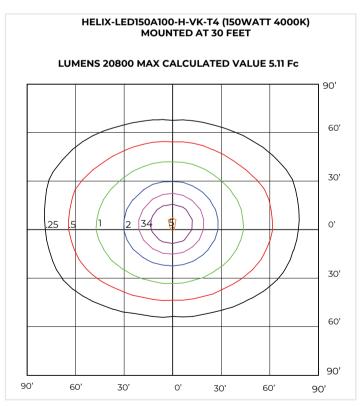
RC100REMOTECONTROLSPECIFICATION

Power Supply	2 x AAA 1.5V Batteries
Communication Protocol	940 nm IR Tx & Rx
Communication Range	Up to 15m (50 ft)
Operating Temp	0 °C to 50°C (32°F to 122°F)
Dimensions	123x70x20.3mm (4.84"x2.76"x0.8")



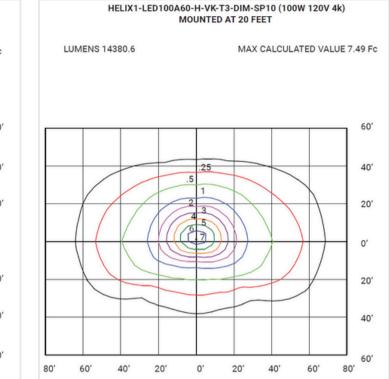


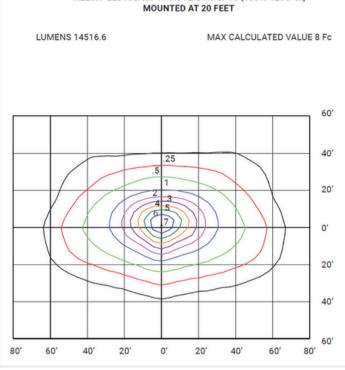




HELIX-LED150A100-H-VK-T5 (150WATT 4000K) MOUNTED AT 30 FEET LUMENS 21100 MAX CALCULATED VALUE 4.76 Fc 90' 60' 30' 25 F 0 30' 60' 90' 90' 60' 30' 0' 30' 60' 90'







HELIX1-LED100A60-H-VK-T2-DIM-SP10 (100W 120V 4k)



MAX CALCULATED VALUE 5.90 Fc

LUMENS 14386.5

