



HELIX2-LED

Area Light



The HELIX-LED is a highly versatile fixture designed with a full range of beam distribution options (Type II, III, IV, V), rotatable optics, glare control shields, and control options to create the perfect, most optimized lighting layout for your area. This standard fixture has all-in-one features including color Selection, and Lumen Adjustability.

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.

IDEAL APPLICATIONS

Parking Lots

Roadways

Schools

Dealerships

Pathway

Commercial Plazas

SPECIFICATIONS

	LED240A180	LED300A240	LED240A180	LED300A240			
PERFORMANCE							
Light Output	35250/30900/26500 lm	44300/39700/35300 lm					
Efficacy	147 lm/W						
CCT	CCT Selectable - 3000K/4000K/5000K Dedicated CCT - 2200K, 2700K, 3000K						
Beam Distribution	Type II, Type III, Type IV, Type V						
LED Lifetime (L80)	90,000 Hours						
CRI	83						
B-U-G	B4-U0-G4	B5-U0-G5					
ELECTRICAL							
Wattage	240/210/180 W	300/270/240 W					
Voltage	120-347 V						
Surge Protection	6 kV Internal & 10 kV External per UL1449						
Power Factor	>0.99						
THD	2.3%	2.4%					
Dimming	0-10 V (0-100%)						
Cable Specs	Input Power - 1m Cabtire Cable (SJOW 3x18 AWG) Dimming - 1m Cabtire Cable (SJOW 2x18 AWG)						
AMBIENT OPERATING TEMPERATURE							
Fixture	-40°C to 50°C (-40°F to +122°F)						
CONSTRUCTION							
Housing	Die-cast Aluminum						
Lens	Polycarbonate						
Paint Specs.	Weather and Corrosion Resistant Polyester Powder Coat Finish						
Housing Finish	Bronze, Custom Colours						
Specs shown are for 120V/4000K							
CERTIFICATIONS							
			cULus Certified as per UL 1598 & CSA C22.2 NO. 250.0:21. IP65, Wet Location, DLC Premium, DLC LUNA*				
FACTORY INSTALLED CONTROLS							
			Smart Bluetooth Controls* (using CONTROLLED mobile app), 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, 20kV Surge protection(120-277V)				
OPTIONS SOLD SEPARATELY							
			Slip Fitter, Direct Mount of Round/Square Poles, Non-Adjustable Direct Mount, Trunnion Mount, Yoke Mount, House Side Cutoff, Side Cutoff, DHFS Motion Sensor Remote Control, PCLS Remote Control, Bluetooth 5-Key Battery Powered Wireless Wall Switch, Bluetooth 3-key Ac Line Voltage Wall Switch				
DEFAULT SETTINGS							
			CCT	4000K			
			Wattage	240 W			
WEIGHT (Fixture Only)							
				4.2kg (9.2lbs)			
MAX AMPERAGE DRAW (A)							
			120V	208V	240V	277V	347V
	LED240A180	2.100	1.212	1.050	0.910	0.726	
	LED300A240	2.625	1.514	1.313	1.137	0.908	
LUMEN MAINTENANCE							
		L90	L80	L70			
	LED240A180	44,000 Hrs	90,000 Hrs	145,000 Hrs			
	LED300A240	42,000 Hrs	85,000 Hrs	140,000 Hrs			

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

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).

*DLC Premium and DLC LUNA classification do not apply to Bluetooth controls.

CONTROLLED



ORDERING GUIDE

HELIX2		H					DIM		
Fixture	Wattage	Voltage	Colour Temp.	Beam Distribution	Finish	Dimming	Controls	Surge Protection	
HELIX2	LED240A180	H - 120-347V	VK- CCT ^a Selectable - 3000K/4000K /5000K	T2 - Type II	BRZ - Bronze ^a	Dim - 0-10V Dimming	Blank - No Controls ^a	SP10 - 10kV Surge Protection ^a	
	LED300A240		2.2K - 2200K ^d	T3 - Type III ^a	CST - Custom Finish		PC - Photocontrol		
			2.7K - 2700K ^d	T4 - Type IV			PCLS - Photocell CCT Lumen Sensor ^c	SP20 - 20kV Surge Protection ^b	
			3K - 3000K ^d	T5 - Type V			3PIN - 3 PIN Receptacle		
				T2R - Type II Rotated Right			7PIN - 7 PIN Receptacle		
				T2L - Type II Rotated Left					
				T3R - Type III Rotated Right			DHFS - Dimming High Frequency Motion Sensor ^c		
				T3L - Type III Rotated Left					
				T4R - Type IV Rotated Right			BC - Bluetooth Controlled		
				T4L - Type IV Rotated Left					

^a - Standard Configuration

^b - Available with 120-277V only

^c - One remote control needed for 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

STOCK CODE

083720

HELIX2-LED240A180-H-VK-T3-BRZ-DIM-SP10

081708

HELIX2-LED300A240-H-VK-T3-BRZ-DIM-SP10

ACCESSORIES SOLD SEPARATELY

020040	HELIX2 SELECT SIDE CUTOFF SHIELD BRZ		020036	YOKE MOUNT BRZ F/HELIX2 SELECT	
020039	HELIX2 SELECT HOUSE SIDE CUTOFF SHIELD BRZ		020010	DIRECT MOUNT BRZ F/HELIX1/2	
087016	RC-100 MOTION SENSOR REMOTE CONTROL		020011	DIRECT TRUNNION MOUNT BRZ F/HELIX1/2	
087034	RC-107 PHOTOCONTROL REMOTE CONTROL		020009	SLIP FITTER BRZ F/HELIX1/2	
084633	BLUETOOTH 5-KEY BATTERY POWERED WIRELESS WALL SWITCH & PLATE ¹		020041	NON ADJ DIRECT MOUNT BRZ F/HELIX1/2	
084215	BLUETOOTH 3-KEY AC LINE VOLTAGE WALL SWITCH				

¹ Wireless Bluetooth module can also be used as portable remote control.

ADDITIONAL DETAILS

	EPA (ft)		
	Tilt 0°	Tilt 45°	Tilt 90°
HELIX2	0.70	2.03	2.76
HELIX2 (with HCO)	0.97	2.03	2.76
HELIX2 (with SCO)	1.30	2.03	2.76

*EPA calculation includes both fixture and mounting

PHOTOCELL/CCT/LUMEN SENSOR (PCLS)



SPECIFICATIONS

INPUT POWER	LED INPUT : MAX . 250VDC 3A; SENSOR INPUT: 10-14VDC, >30MA
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)

FUNCTIONS

PHOTOCELL	CCT	LUMEN
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.	Choose between 3000K/4000K/5000K	Light levels can be dimmed up or down by increments of 10% Light levels can be lowered to 50% after specified time period for improved energy savings.

RC107 REMOTE SPECIFICATIONS (FOR PCLS CONTROLLER)



DEFAULT FACTORY SETTING

TASK LIGHT LEVEL	100%
HOLD TIME	DISABLE
PHOTOCELL	LOW
CCT	CCT MID (NW - 4000K)

FEATURES

	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 (NW - 4000K) REPEAT: Send the same setting to different fixtures installed.
	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.
	HOLD TIME: The "hold time" starts to count right after the fixture turns on. When the "hold time is up, the fixture adjusts to 50% brightness until the light control turns the light fixture off. DISABLE: When you choose disabled, the fixture maintains the task light level
	LOW: When the ambient lux is less than 30lux, the fixture turn on at the task level 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 level you set, when the ambient lux is more than 100lux, the fixture turns off. HIGH: When the ambient lux is less than 150lux, the fixture turn on at the task level you set, when the ambient lux is more than 180lux, the fixture turns off; DISABLE: Photoelectric switch disabled:
	CCT : Adjust CCT(WW - 3000K, NW - 4000K, CW - 5000K)

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

DIMMING HIGH FREQUENCY MOTION SENSOR (DHFS)

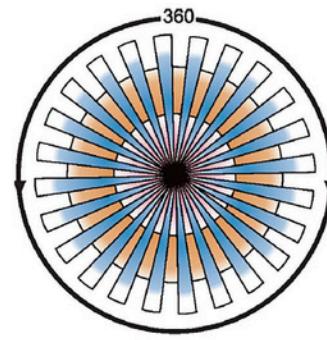
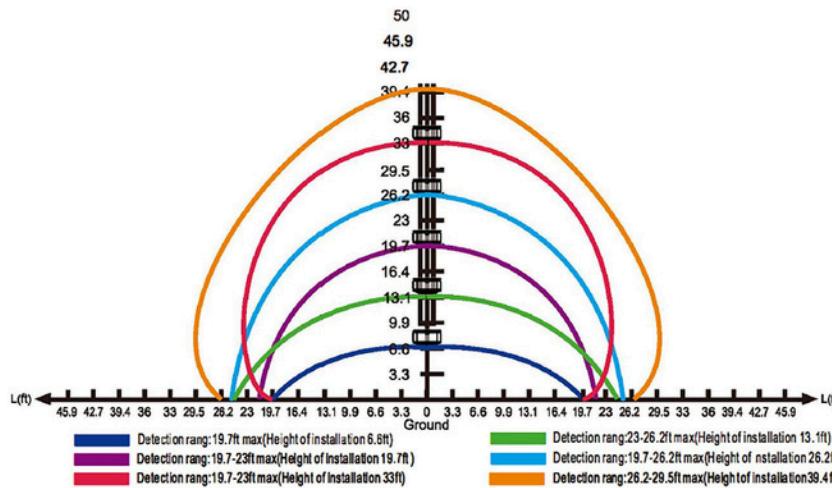


DHFS Microwave motion sensor offers a range of control features based on motion detection allowing the Installer to adjust the brightness of the fixture, hold time and daylight settings using a remote control after installation.

SPECIFICATIONS

POWER SUPPLY	12V-24V DC
HIGH FREQUENCY SYSTEM	5.8GHZ +/-75MHZ
DIM CONTROL OUTPUT	0-10V, MAX. 25MA SINKING CURRENT
DETECTION RADIUS/ANGLE	MAX 26FT (8M)/360°
MOUNTING HEIGHT	MAX 40FT
REMOTE RANGE	50FT. (15M) INDOOR, NO BACKLIGHT
HUMIDITY	MAX. 95% RH
TEMPERATURE	-40°F - 158°F (-40°C- 70°C)

SENSOR COVERAGE



Detection angle

Detection Range: Ex. If the mounting height is at 30ft, it will cover a 25ft radius.

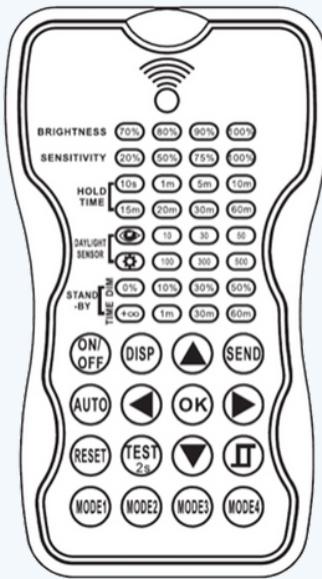
Refer to page 6 for more details on the DHFS Remote Control Usability

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.

SENSITIVITY:

Sets the sensitivity to which the sensor will detect motion.

HOLD TIME:

The time the light fixture will remain at the brightness setting after it detects motion.

DAYLIGHT SENSOR:

The lux setting that the light fixture will turn on/off. If the ambient lux is more 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 sensor, select the SUN icon. To set the lux to match current room conditions, select the EYE 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 off. To disable the light from shutting off, select the INFINITY icon.

RC100 REMOTE CONTROL SPECIFICATION

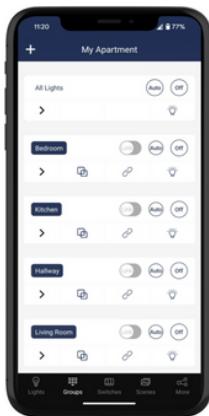
POWER SUPPLY	2 x AAA 1.5V Batteries
COMMUNICATION PROTOCOL	940 nm IR Tx & Rx
COMMUNICATION RANGE	Up to 15m (50 ft)
OPERATING TEMP	0 °C to 50 °C (32°F to 122°F)
DIMENSIONS	123x70x20.3mm (4.84"x2.76"x0.8")

CONTROLLED

RAB[®]
DESIGN

ControlLED Network Lighting Controls (NLC) delivers secure, wireless lighting management with Bluetooth Mesh and the ControlLED App. Integrated sensors enable automatic adjustments for comfort, safety, and efficiency.

Maximum Bluetooth transmittance of 860ft between fixtures (unobstructed) and 200ft between user and any one fixture.



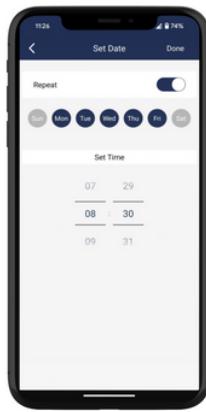
Organized Fields:
Create Zones and Groups



Dimming Lights:
Set dim level for groups or individual lights.



Scenes:
Create custom scenes for different scenarios.



Schedules:
Create custom schedules for recurring events.



Share Access:
Share access using QR codes.

BLUETOOTH CONTROL

FEATURES

- Bluetooth mesh network
- DLC - Networked Lighting Control (NLC) & Luminaire Level Lighting Control (LLLC)
- Group and Individual fixture dimming
- Scenes & Schedules

SPECIFICATIONS

Input Voltage	12 VDC
Input Current	Min 150mA
Output Current	10mA Max.
Dimming	Class 2, 0-10 VDC
Bluetooth Transmit	860ft Max.
Radio Frequency	2.4GHz ±75MHz
Bluetooth Version	5.0

Get the App!



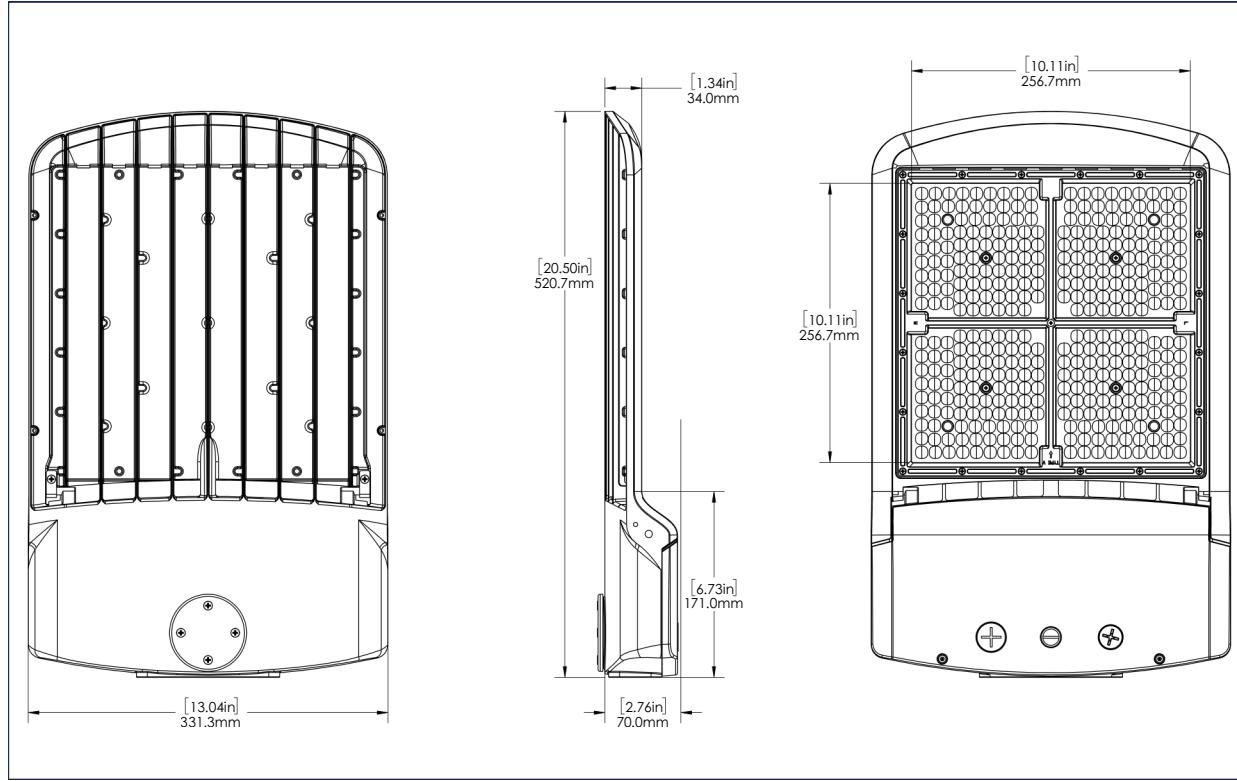
RAB[®]
DESIGN

Engineered by skilled hands,
for skilled hands.

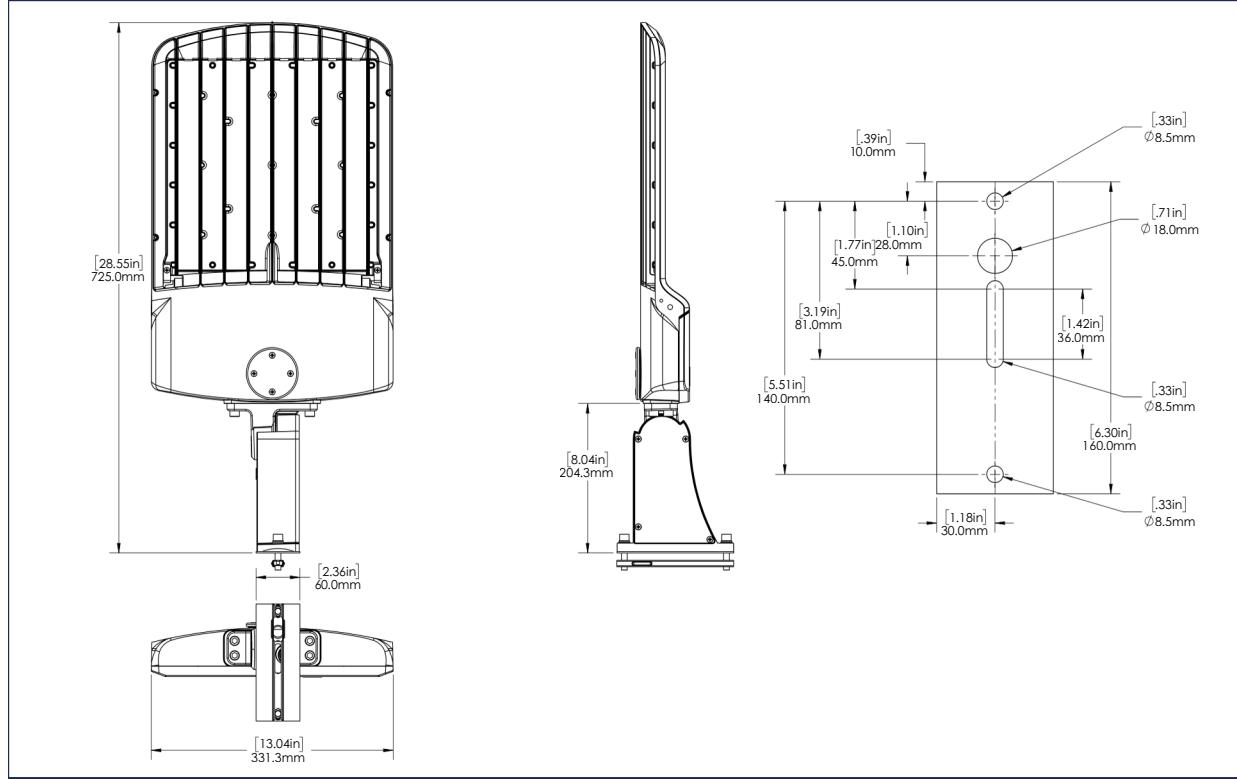
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DIMENSIONS

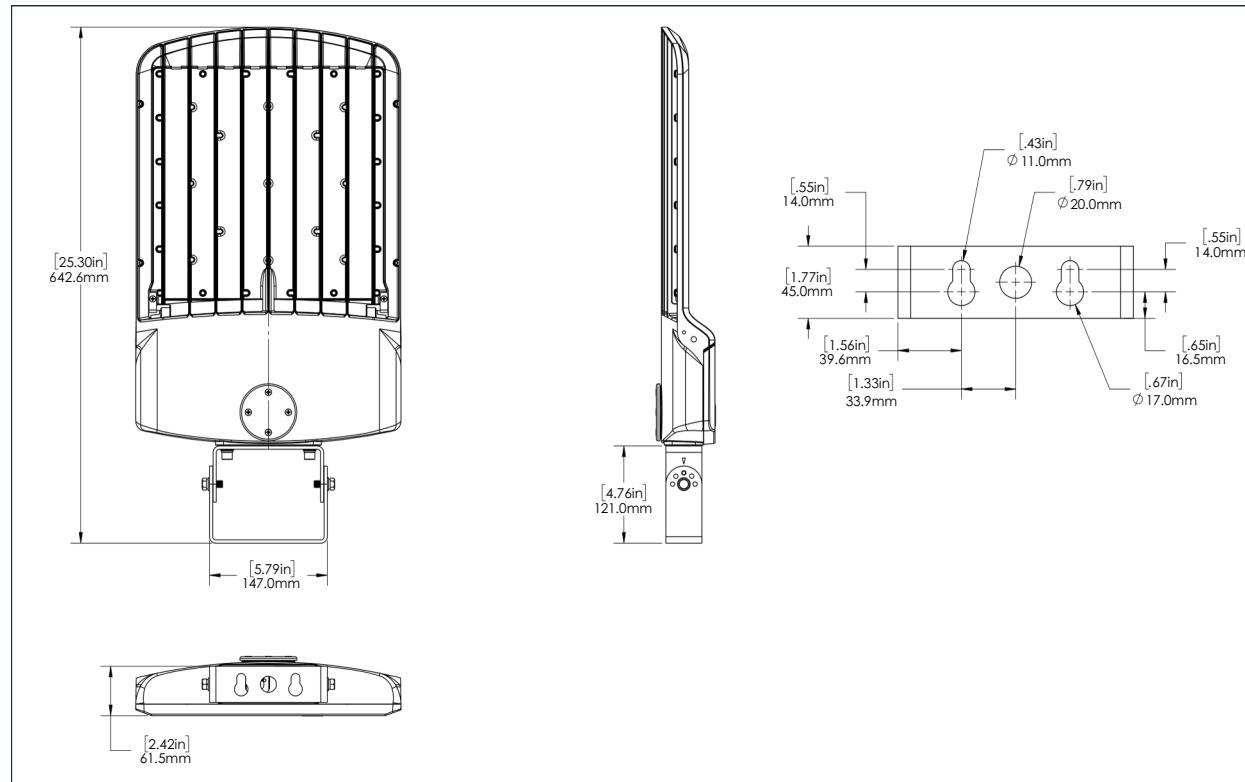
HELIX2 (WITHOUT MOUNTING)



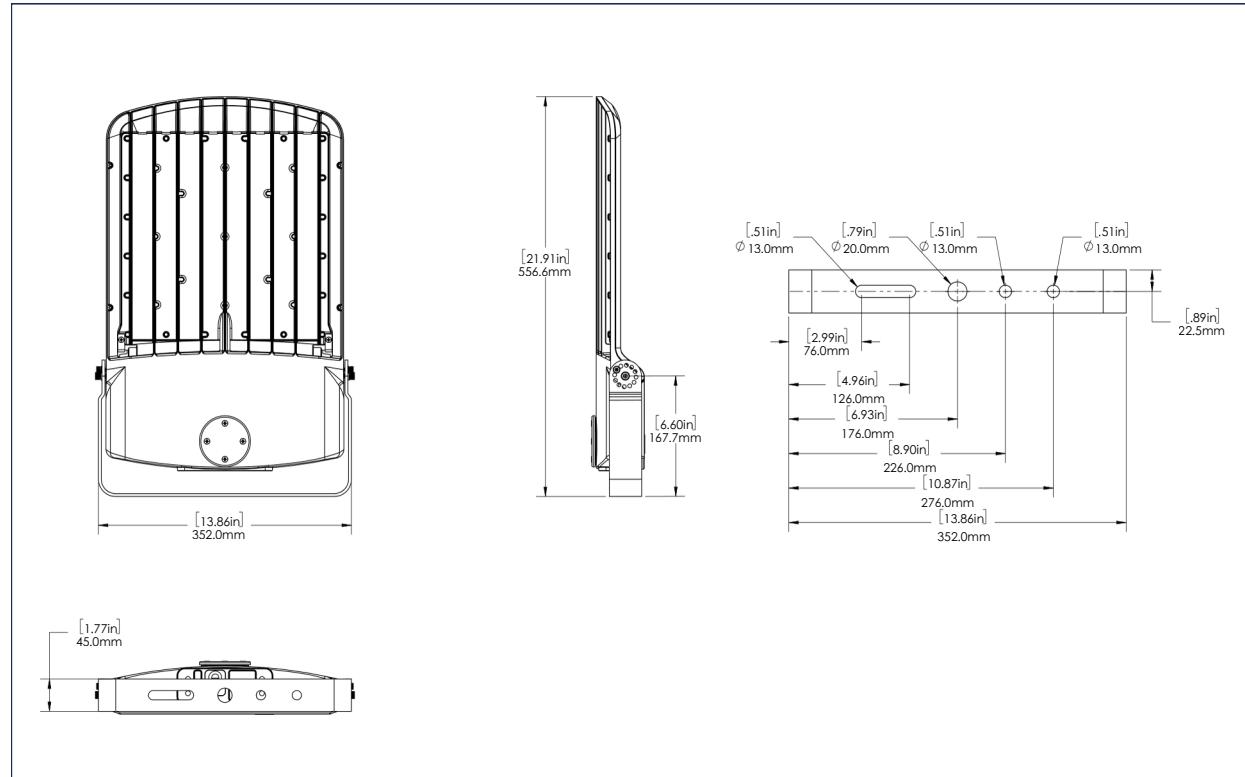
DIRECT MOUNT



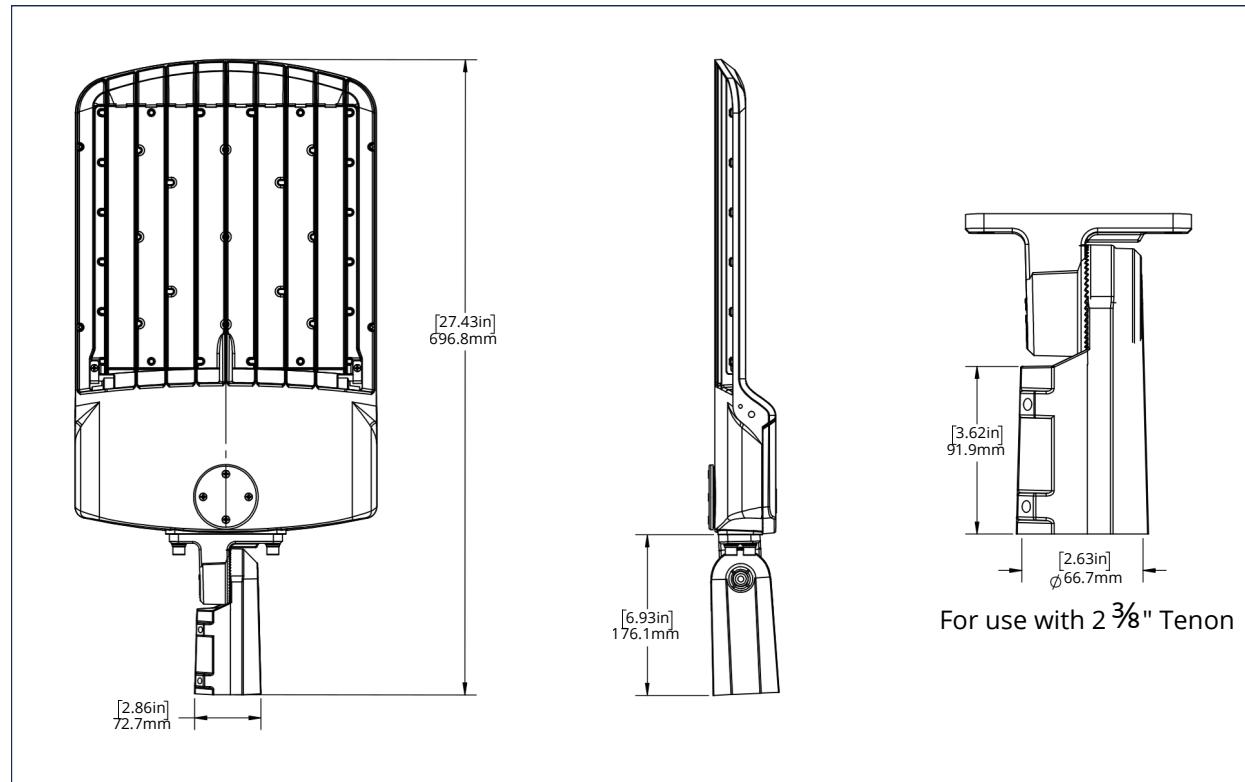
TRUNNION



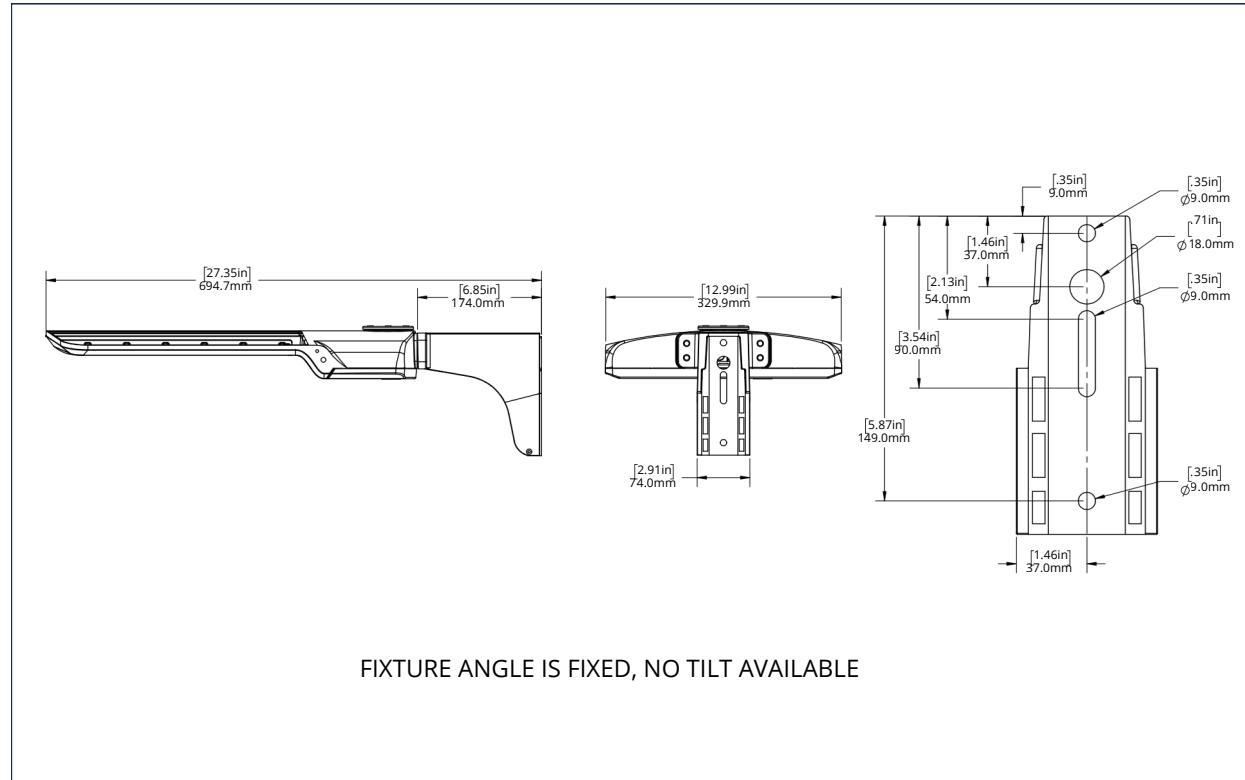
YOKES



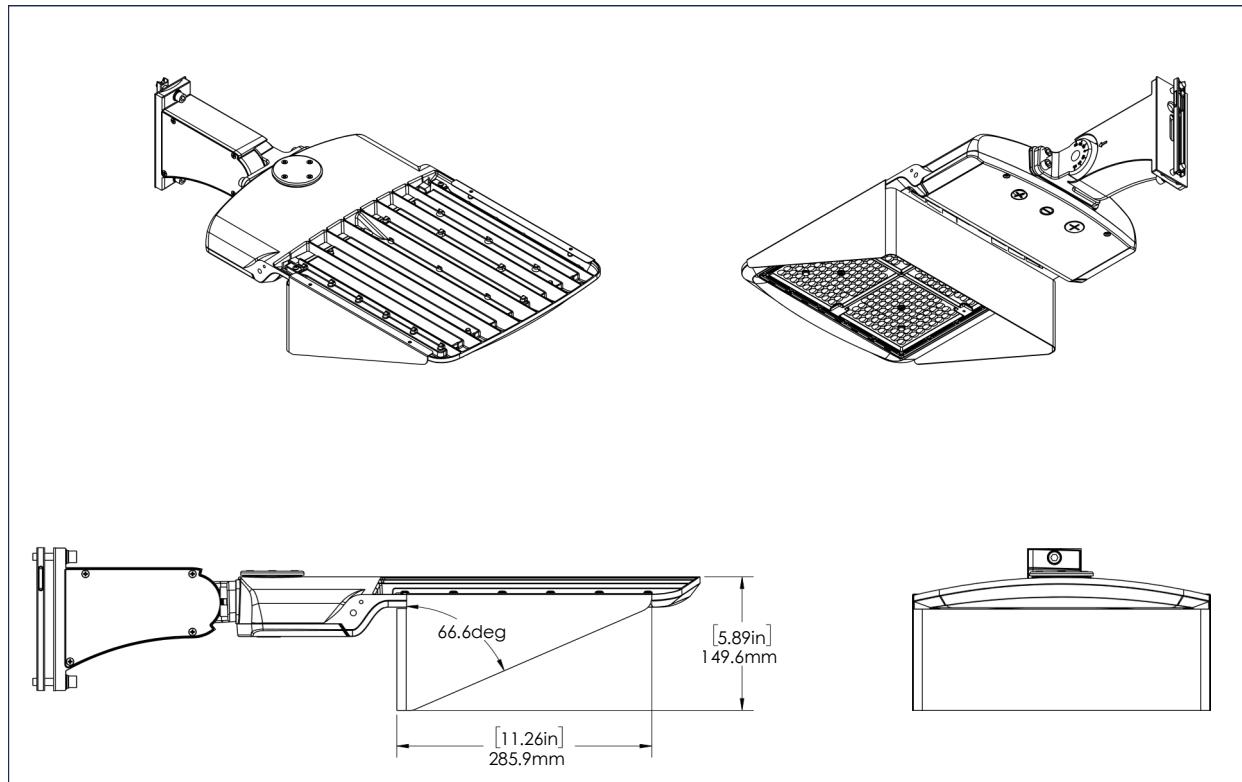
SLIPFITTER



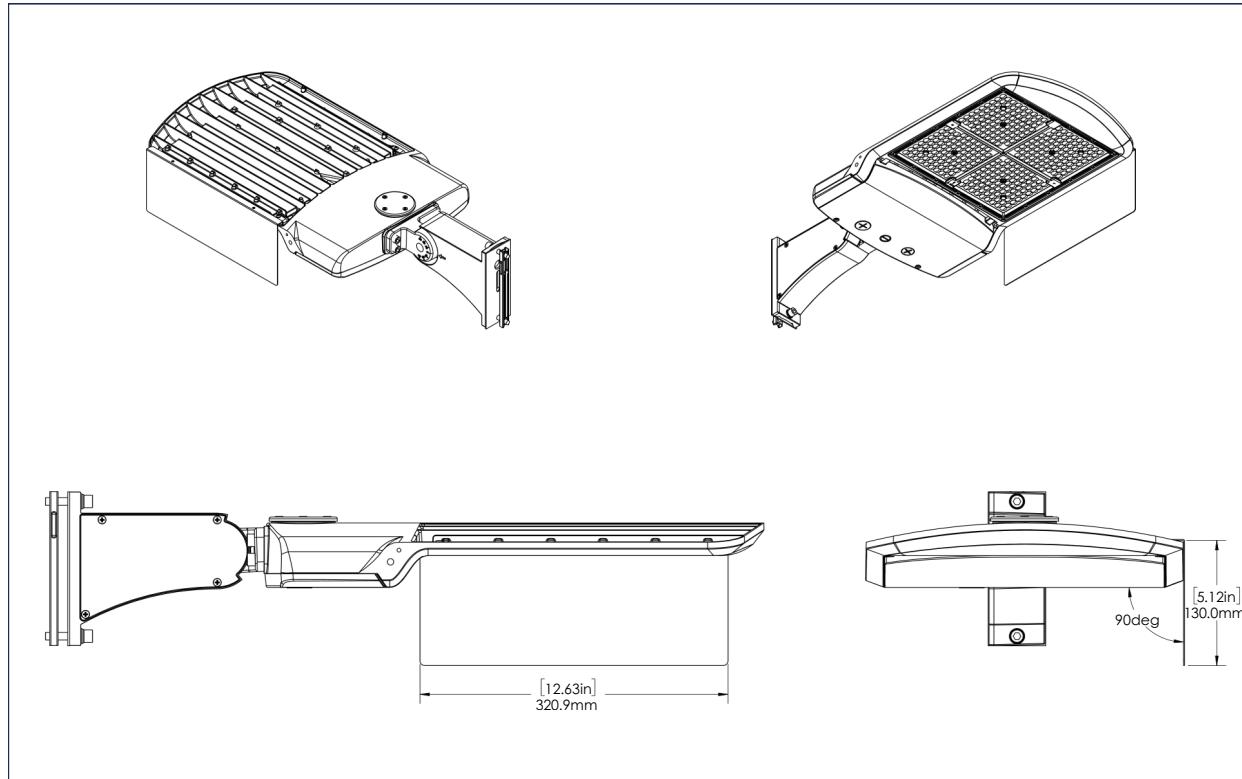
NON ADJUSTABLE DIRECT MOUNT



HELIX2 WITH HOUSE SIDE CUTOFF (HCO)



HELIX2 WITH SIDE CUT OFF (SCO)

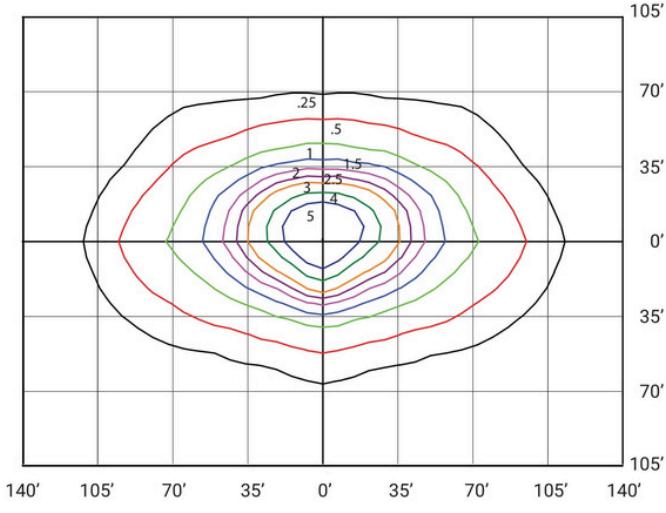


PHOTOMETRIC PLOTS

HELIX2-LED240A180-H-VK-T2-DIM-SP10
(240W, 120V, 4000K)
MOUNTED AT 35 FEET

LUMENS 35705.3

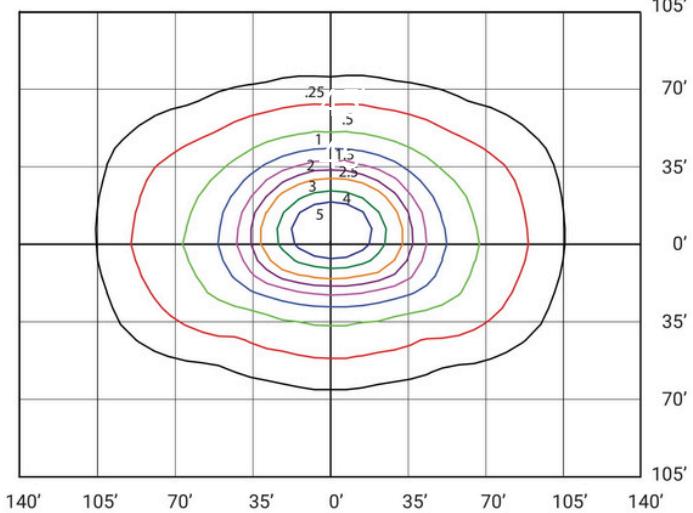
MAX CALCULATED VALUE 6.99 Fc



HELIX2-LED240A180-H-VK-T3-DIM-SP10
(240W, 120V, 4000K)
MOUNTED AT 35 FEET

LUMENS 35251.7

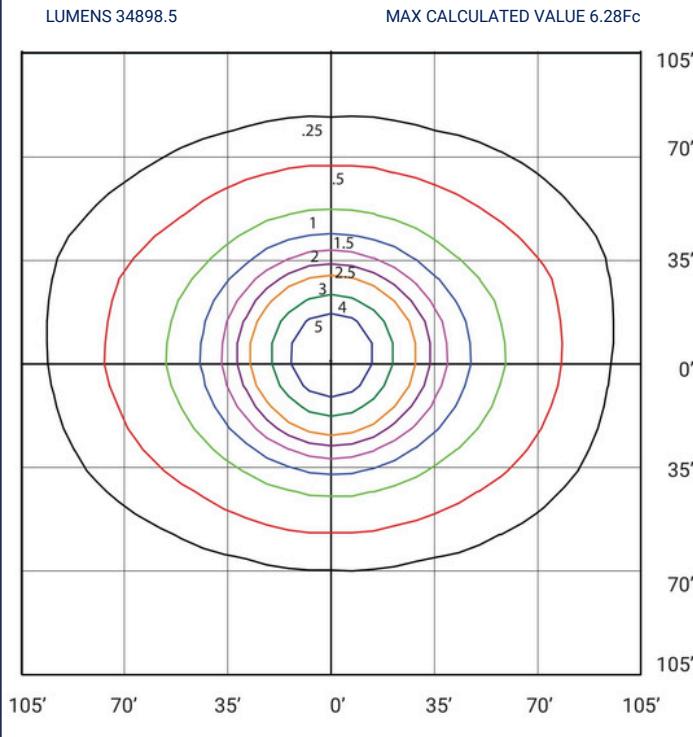
MAX CALCULATED VALUE 6.99Fc



HELIX2-LED240A180-H-VK-T4-DIM-SP10
(240W, 120V, 4000K)
MOUNTED AT 35 FEET

LUMENS 34898.5

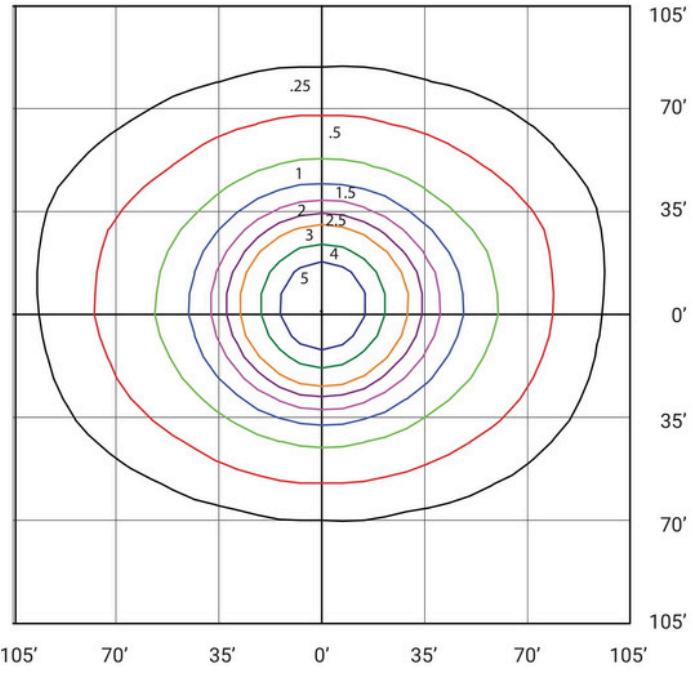
MAX CALCULATED VALUE 6.28Fc



HELIX2-LED240A180-H-VK-T5-DIM-SP10
(240W, 120V, 4000K)
MOUNTED AT 35 FEET

LUMENS 35705.3

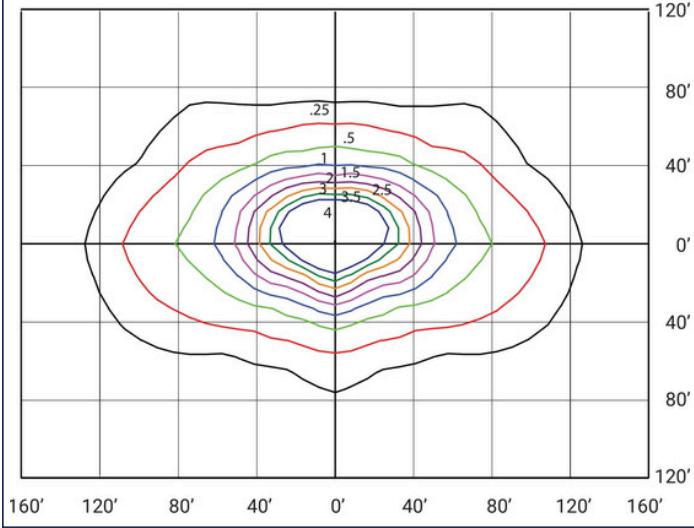
MAX CALCULATED VALUE 6.41Fc



HELIX2-LED300A240-H-VK-T2-DIM-SP10
(300W, 120V, 4000K)
MOUNTED AT 40 FEET

LUMENS 43370.2

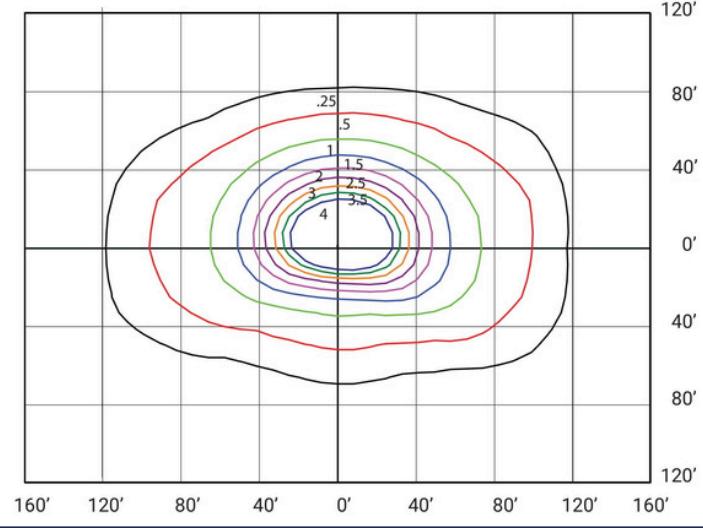
MAX CALCULATED VALUE 6.34 Fc



HELIX2-LED300A240-H-VK-T3-DIM-SP10
(300W, 120V, 4000K)
MOUNTED AT 40 FEET

LUMENS 44330.7

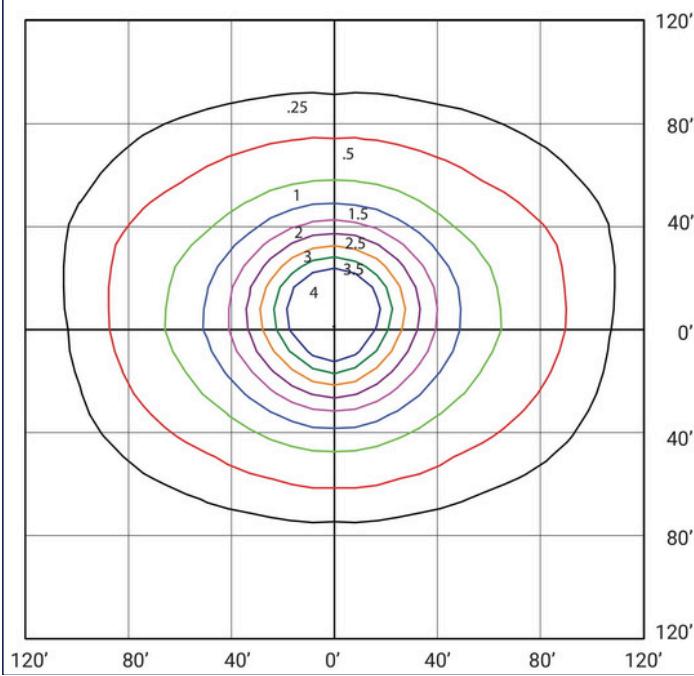
MAX CALCULATED VALUE 6.74Fc



HELIX2-LED300A240-H-VK-T4-DIM-SP10
(300W, 120V, 4000K)
MOUNTED AT 40 FEET

LUMENS 43225.1

MAX CALCULATED VALUE 5.30Fc



HELIX2-LED300A240-H-VK-T5-DIM-SP10
(300W, 120V, 4000K)
MOUNTED AT 40 FEET

LUMENS 44484.7

MAX CALCULATED VALUE 4.78Fc

