19-inch / 483mm
LED Searchlight

Eco-Friendly Product

Beam Intensity

   3.5° Beam Option — 12 Million Candela
1 Lux at 3464 Meters (approx.)

   8.5° Beam Option — 3,150,000 Candela
1 Lux at 1774 Meters (approx.)

Color Temperature — 6200K

Controls — Joystick Electric Control, Remote Lever-Gear, or Local Handle

Environmental — IP56

LED Emitter Life — 35,000+ Hours *(tested)*

Light Energy — 21,000 Lumens

Materials/Finish — Marine Grade Aluminum and Stainless Steel with Salt-Resistant, Scratch-Resistant Powder Coat (White, Black, Grey, and Custom)

Modular Redundancy — Each pod has its own electronics, so if one fails, a bright beam still is projected (Pg.2)

Power Consumption — 400 Watts

Voltages — 110VAC – 277VAC

Joystick Electric Control

Remote Lever-Gear Control

OPTIONS

Anti-icing Heater — Heaters prevent ice build-up in cold climates

Azimuth Indicator — LCD panel displays horizontal aiming position

High Powered Strobe — Denies night vision and disorients intruder while transforming the searchlight into a Nonlethal Weapon

Morse Code — Signaling capability for Military/Government

Infrared Night Vision — Infrared (IR) LEDs project invisible beam to human eye but used covertly with Lowlight Cameras/NVG's (Pg.4)

SmartVIEW™ — Control System provides Digital BUS Network, and TCP/IP Interface allows Remote Computer Control. Protocols supported: ONVIF, Pelco-D, NMEA 0183 and Carlisle & Finch's own Protocol

Wall of Light LEDs — Wide beam at short range, illuminates areas where the narrower long-distance beam cannot service (Pg.3)
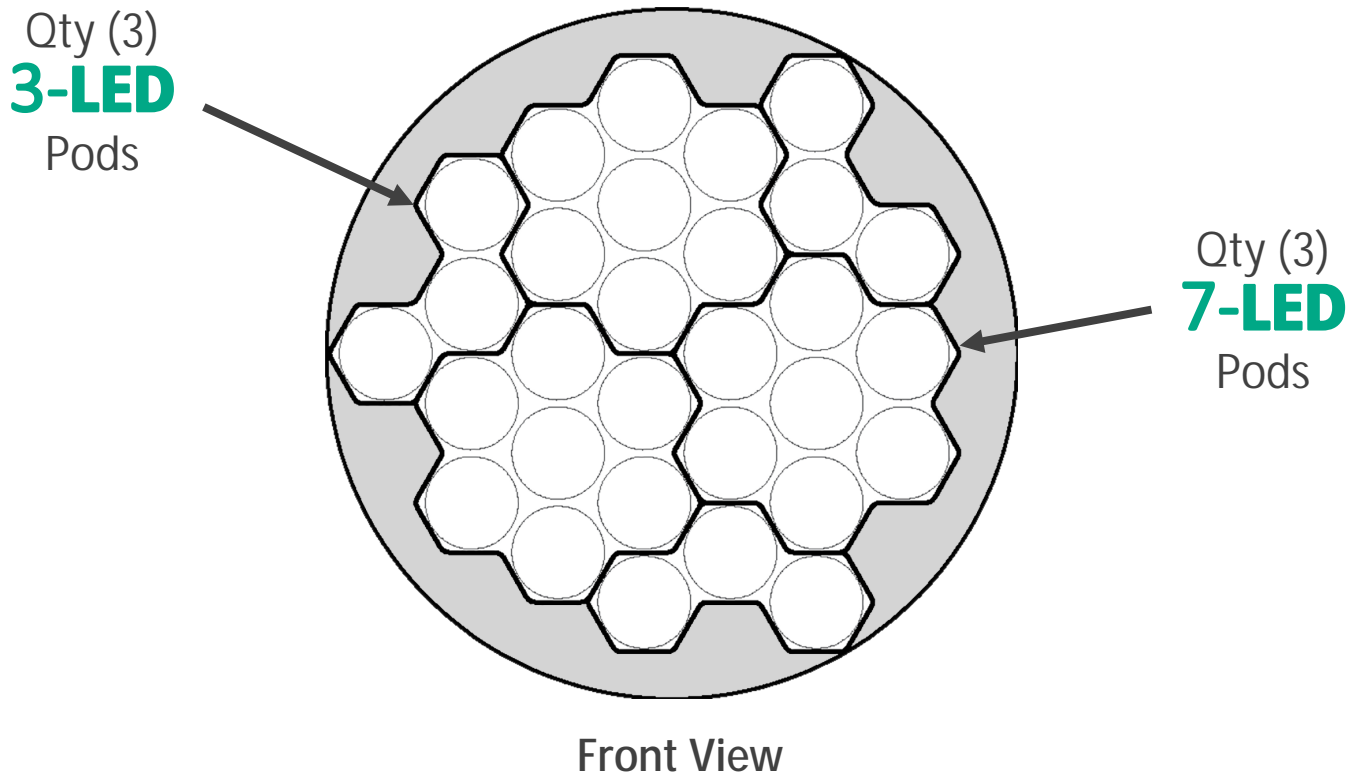
Local Handle Control

Lighting the way forward since 1894

Redundancy and Extreme Long-life provides much higher reliability than Halogen!

Qty (3)
**3-LED**
Pods

Qty (3)
7-LED
Pods

Front View

§ **Multiple LED Redundancy**   There are 30 Individual LEDs (i.e., light sources.) If one fails, there are 29 more producing a bright beam.

§ **Multiple Pod Redundancy** Unique to **C&F**, each pod has its own separate electronics. If an electronic board happens to fail, there are five (5) additional pods producing a bright beam in back-up mode.

§ **Long Emitter-Life**   When the lamp fails on traditional Halogen searchlights, the entire searchlight fails. Lamp-life is approx. 250 hours for the most popular industry standard lamps. Since the LEDs will last 30,000+ hours, there are approximately 120 Halogen searchlight failures for every LED searchlight due to lamp-life failure alone (i.e., 35,000 ÷ 250 = 140 failures.)

The Wall of Light!

"Auxiliary LEDs illuminate wide areas at close range where the narrower beam cannot service"

Imagine a passenger suddenly falls overboard on a marine vessel. Using the auxiliary LEDs for **"Search and Rescue"**, an operator can instantly direct a powerful "Wall of Light", wider than a football field, anywhere around the vessel to save the person! This wide beam is also extremely effective for **"Vessel Interdiction"**, **"Docking"**, **"Seeing Workers at Night"**, **"Seeing near the base of a Guard Tower"**, etc.. This option provides short range wide beam illumination and long-range search capabilities, combined within one versatile product.


"Wall of Light" **LEDs**

LED Wall of Light!

Narrower Beam LEDs

300 meters (approx)

200 meters (approx)
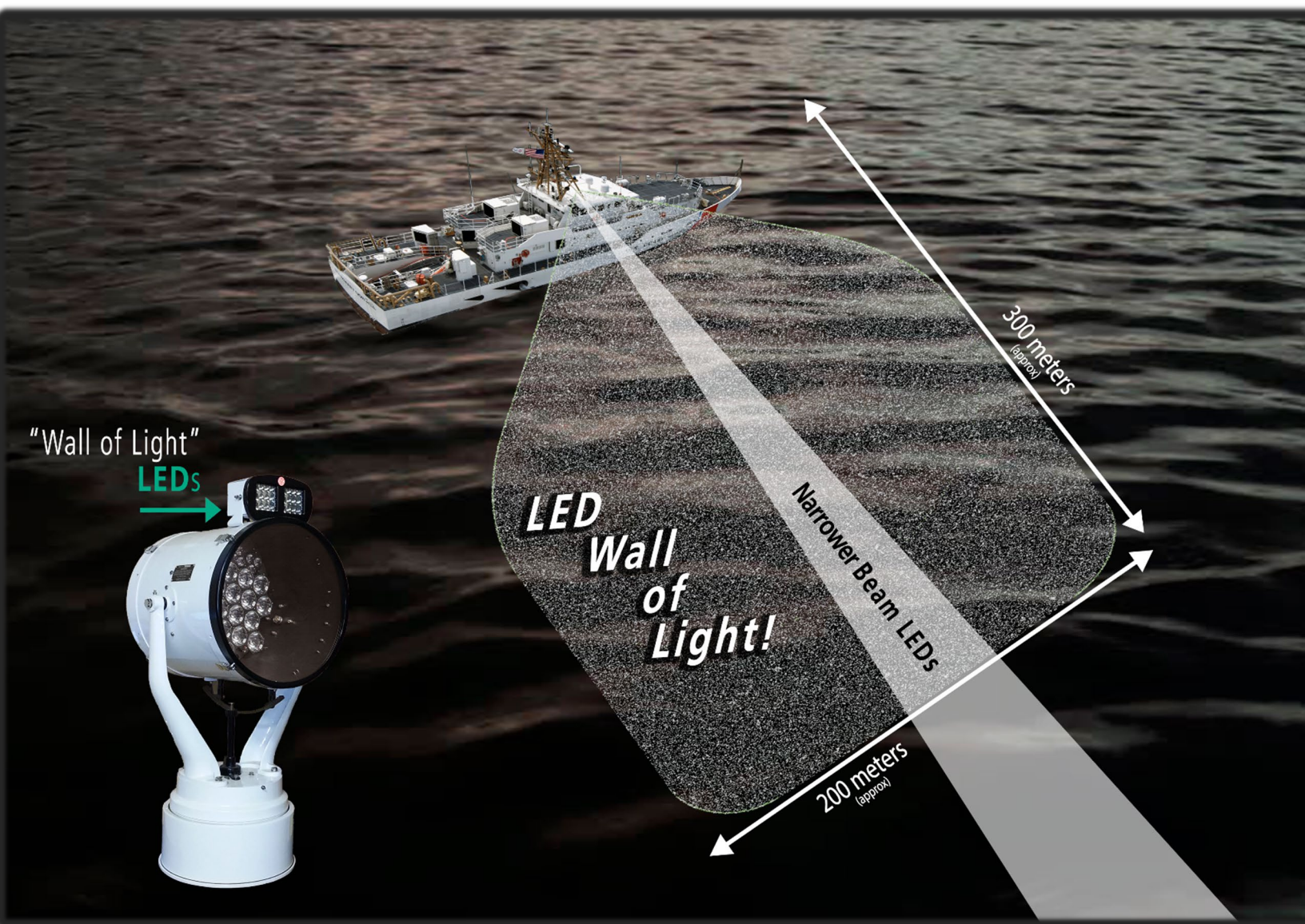
Infrared (IR) LEDs provide built-in Night Vision

Qty (9)
IR LEDs
"Invisible Beam"

NIGHT VISION CAPABILITY

An invisible beam, undetectable to the human eye, covertly lights up objects in total darkness, and they appear like daylight on a camera monitor. And greatly enhances Night Vision Goggles!
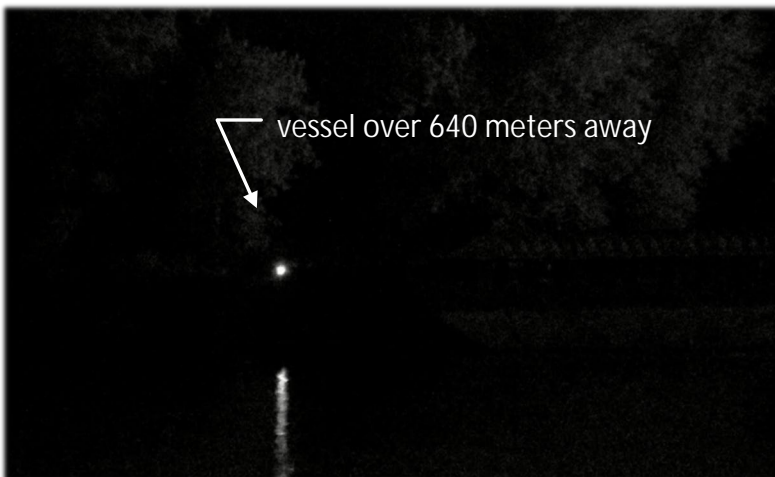
Qty (27)
LEDs
"Visible Beam"

FRONT VIEW

Invisible IR Beam

Visible Beam w/ STROBE

Lowlight Camera
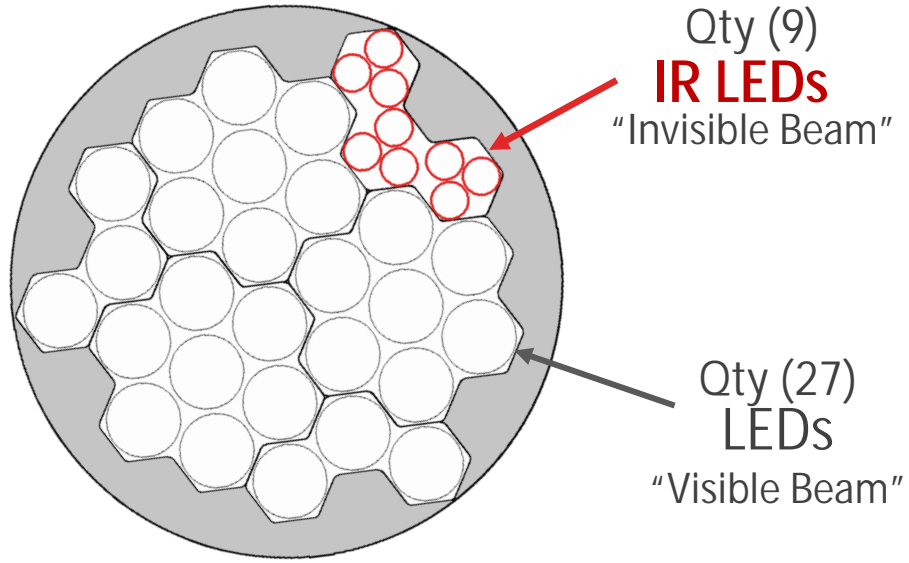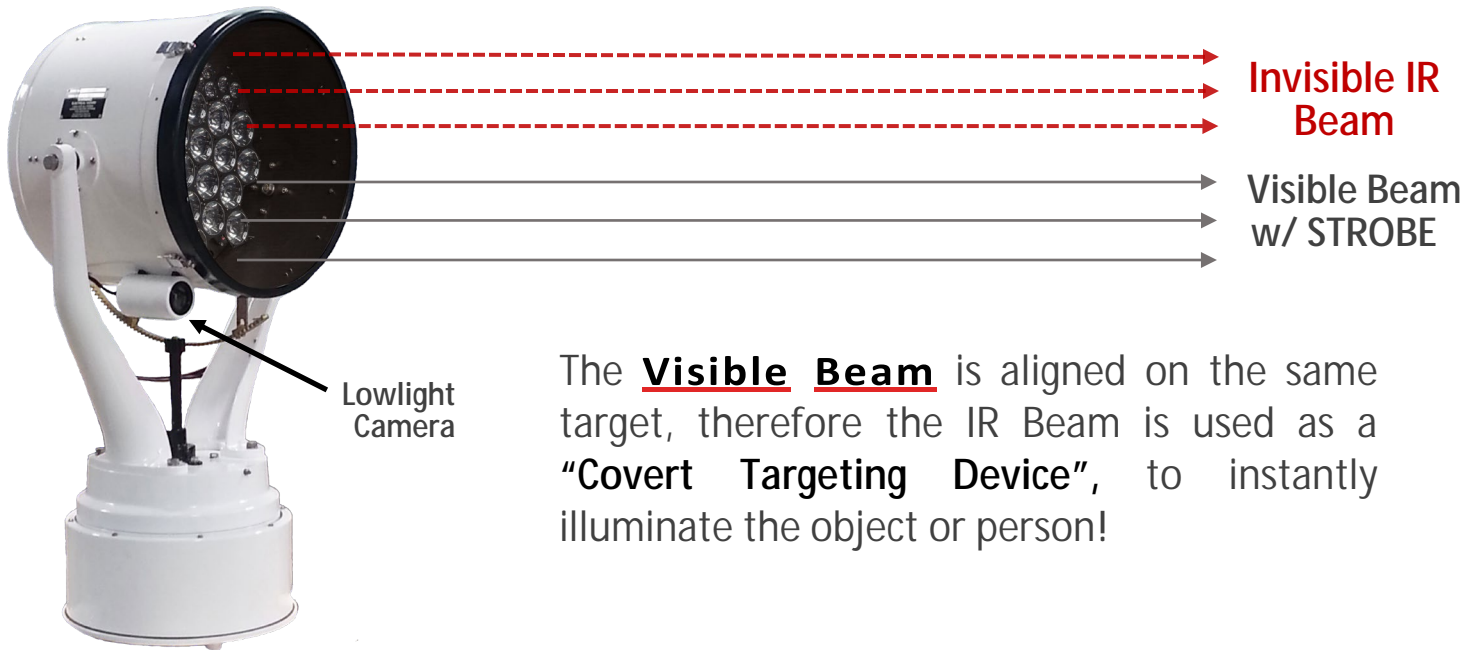
The **Visible Beam** is aligned on the same target, therefore the IR Beam is used as a **"Covert Targeting Device",** to instantly illuminate the object or person!
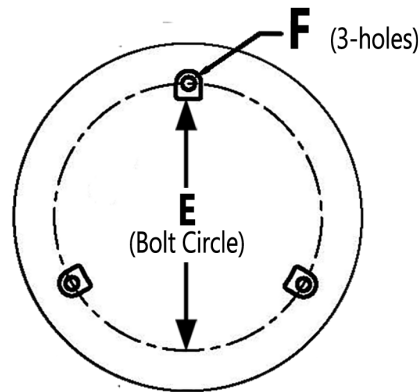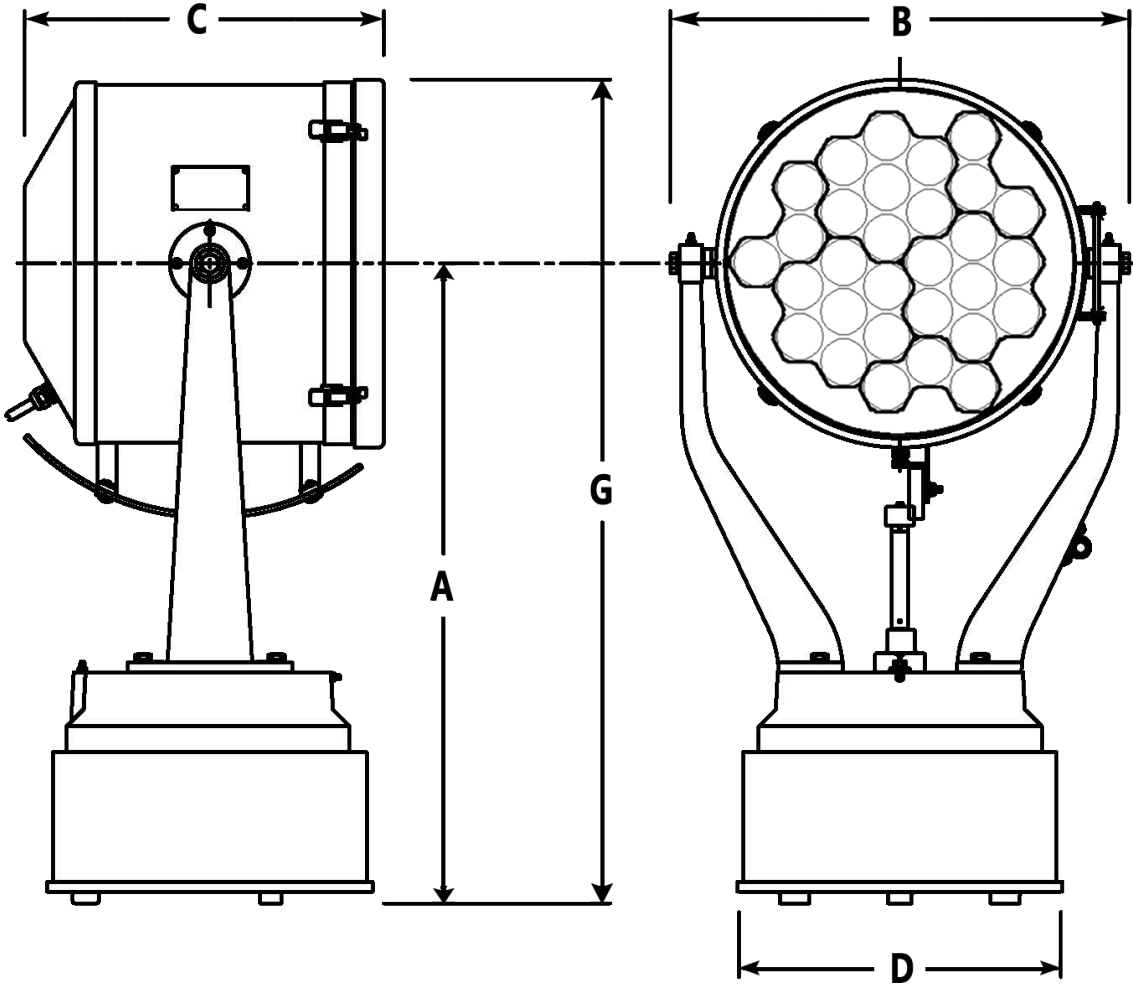
Night Scenes of Riverbank

vessel over 640 meters away

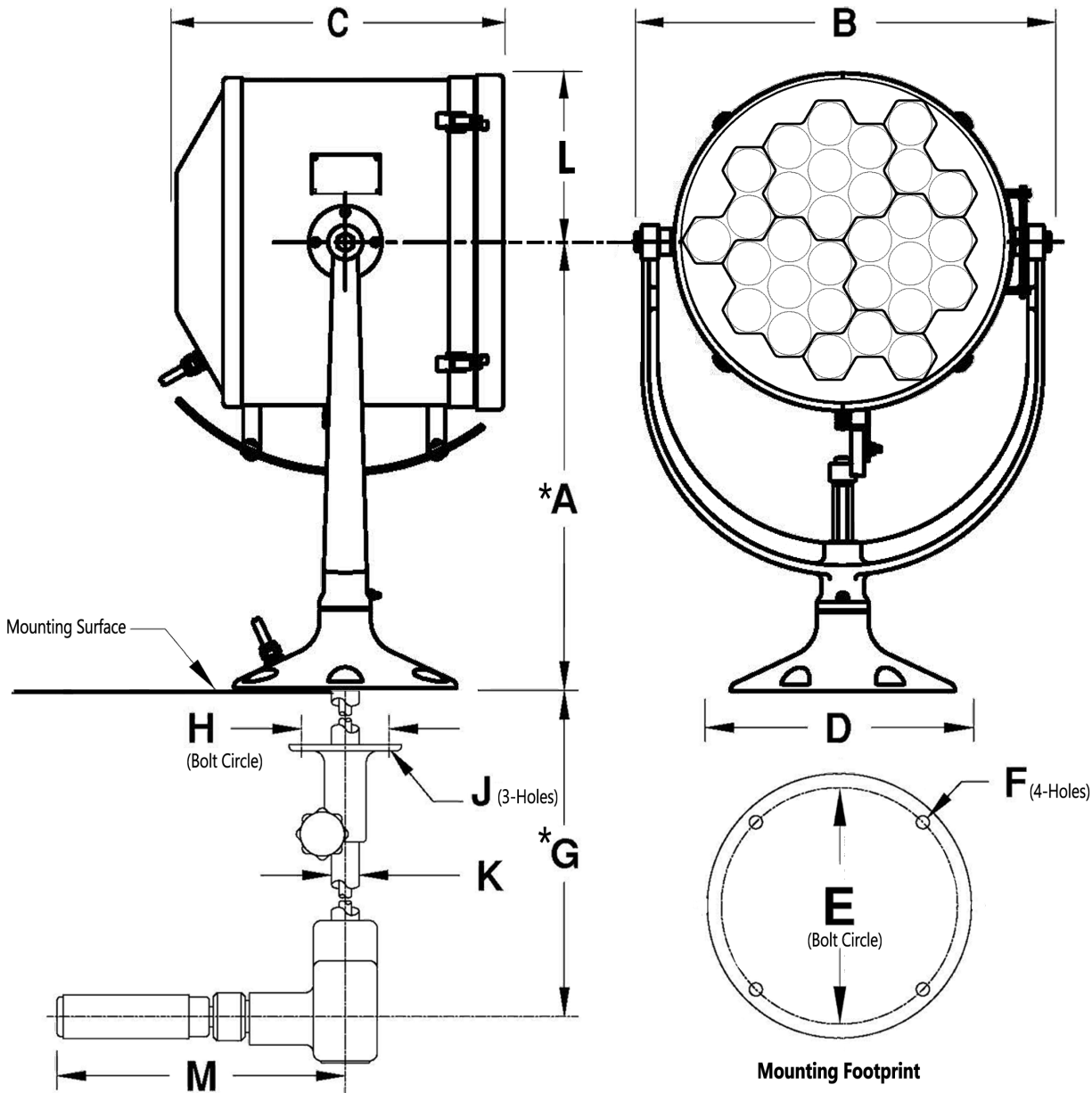in Total Darkness

with (IR) Beam **ON!**

Electric Joystick Control Dimensions

F (3-holes)

E
(Bolt Circle)

Mounting Footprint

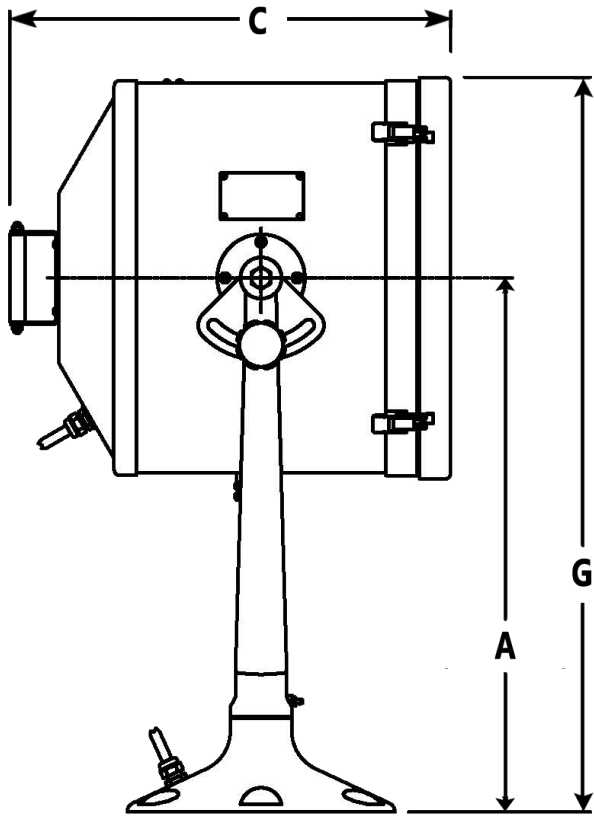| DIM	A	B	C	D	E	F	G
inches	33.88	25	19	Ø17.25	Ø13.25	Ø.562	43.62
mm	860	635	482	Ø438	Ø336	Ø14.275	1107

Remote Lever-Gear Control Dimensions

Mounting Surface

H (Bolt Circle)

J (3-Holes)

K

*G

M

Mounting Footprint

F (4-Holes)

E (Bolt Circle)

DIM	*A	B	C	D	E	F	*G	H	J	K	L	M
inches	25.94	25	21.41	Ø13	Ø11.5	Ø.562	21.88	Ø3.38	.344	1.00	9.75	9.00
mm	658	635	54	Ø330	Ø292	Ø14	555	Ø85.85	8.74	25.40	247	229
Note:	Dimension "A" is the standard Searchlight Height, and Dimension "G" is the standard Control Length. These two dimensions can be custom. Consult Factory for exact customer requirements.											

Local Handle Control Dimensions

F (6-holes)

E
(Bolt Circle)
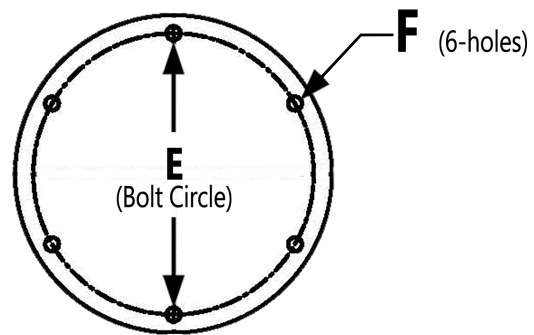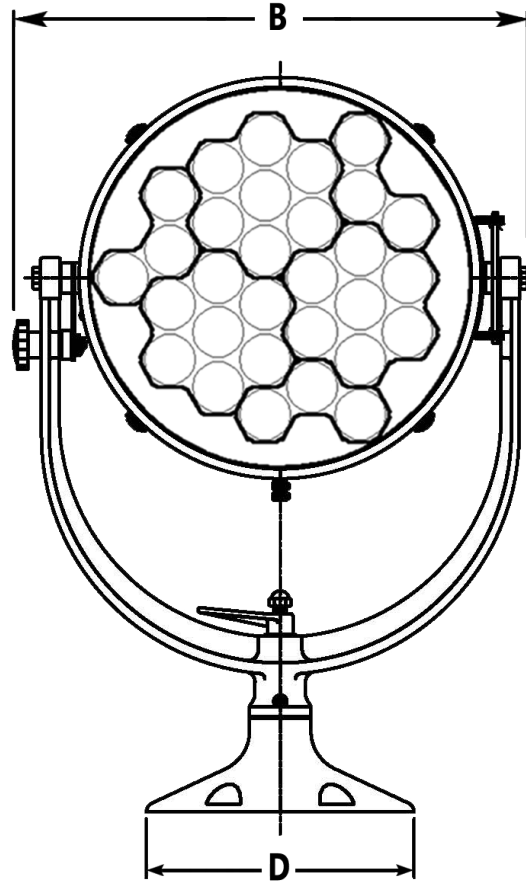
Mounting Footprint

DIM	A	B	C	D	E	F	G
inches	25.94	25	21.41	Ø13	Ø11.5	Ø.562	35.69
mm	658	635	543	Ø330	Ø292	Ø14	906

Controller Dimensions

Model C5777-S-2 Joystick Controller (115 VAC-only)

Includes 8-Way Switch (UP, DOWN, RIGHT, LEFT, and FOUR DIAGONAL POSITIONS), Beam-Speed Dial (Changes Speed throughout a continuous spectrum) and Visible Beam ON/OFF Switch.
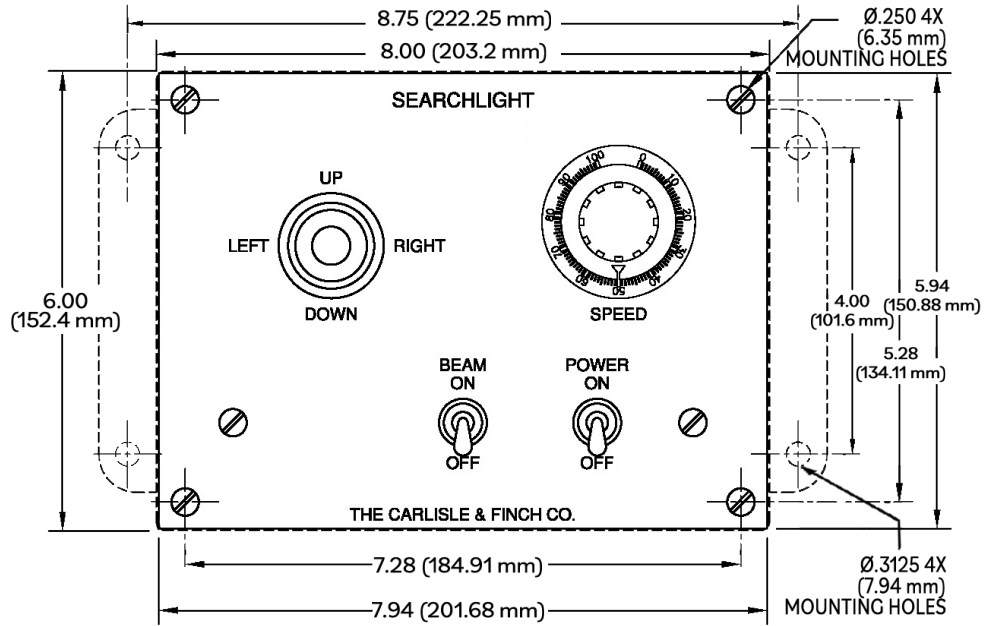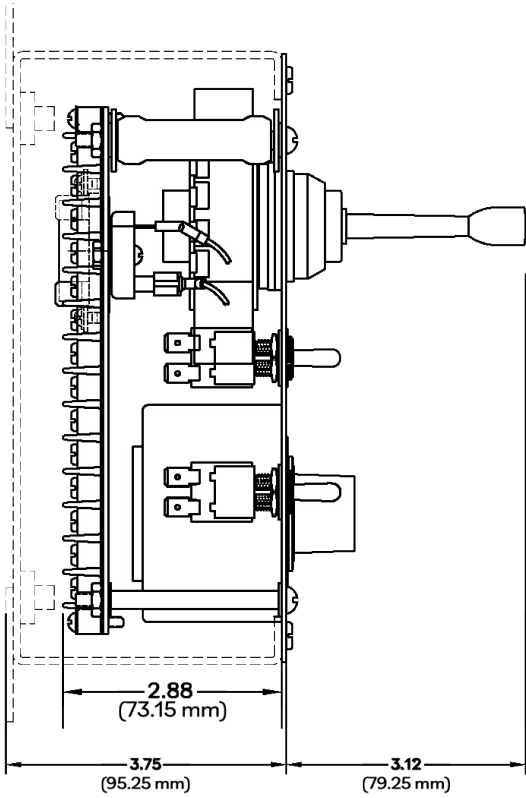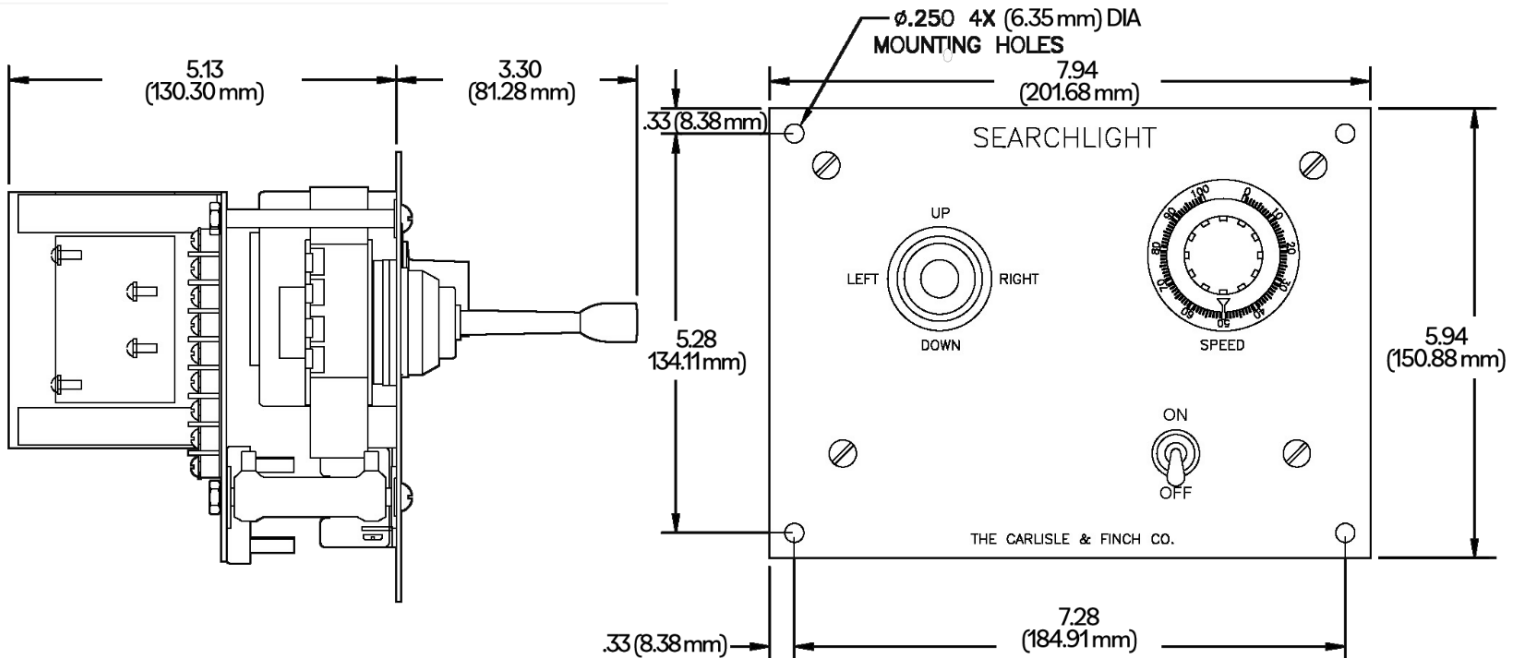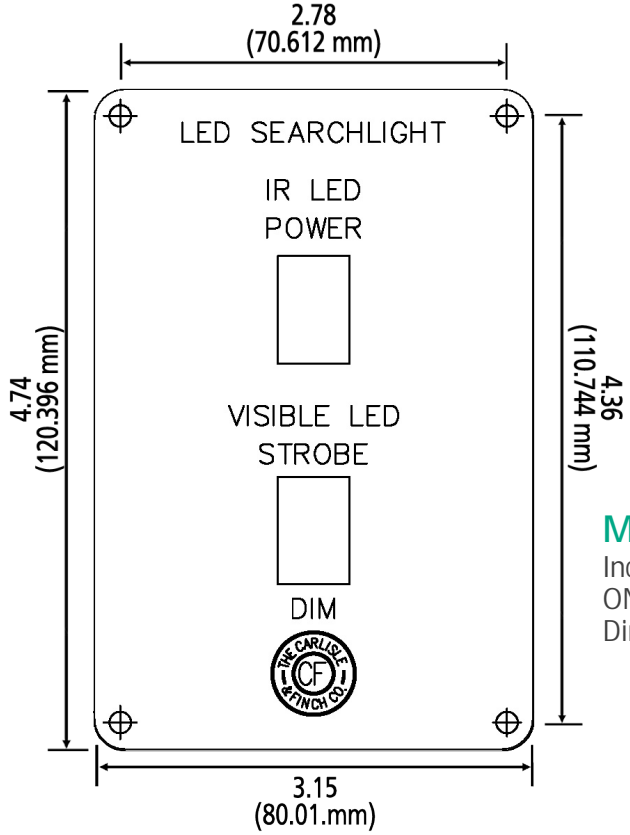

Model C5777-S-230 Joystick Controller (230 VAC-only)

Includes 8-Way Switch (UP, DOWN, RIGHT, LEFT, and FOUR DIAGONAL POSITIONS), Beam-Speed Dial (Changes Speed throughout a continuous spectrum) and Visible Beam ON/OFF Switch.

Controller Dimensions

1.94
(49.275mm)

2.78
(70.612 mm)

4.74
(120.396 mm)

4.36
(110.744 mm)

LED SEARCHLIGHT

IR LED
POWER

VISIBLE LED
STROBE

DIM

3.15
(80.01.mm)
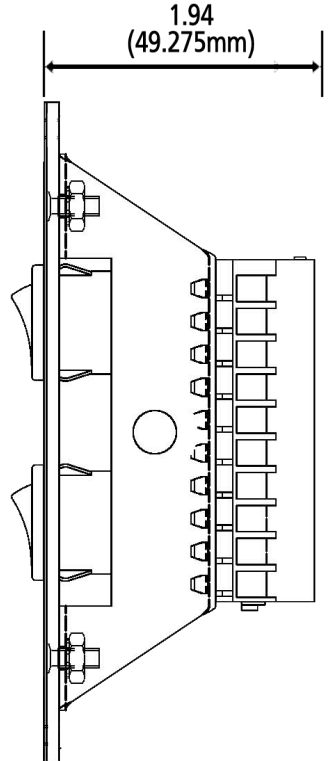
Model C2-12IR Controller
Includes Infrared (IR) Beam
ON/OFF Switch, Strobe Switch and
Dimming Switch.

3.150

2.18

A

2.33

SECTION A–A

LED SEARCHLIGHT

IR ON/OFF

STROBE

DIM

4.74

5.43

5.87

B

B

A

2.78
(70.612 mm)

4.74
(120.396 mm)

4.36
(110.744 mm)

LOW LIGHT CAMERA

IR ILLUM   IR DIM

ZOOM IN

ZOOM OUT

3.15
(80.01.mm)
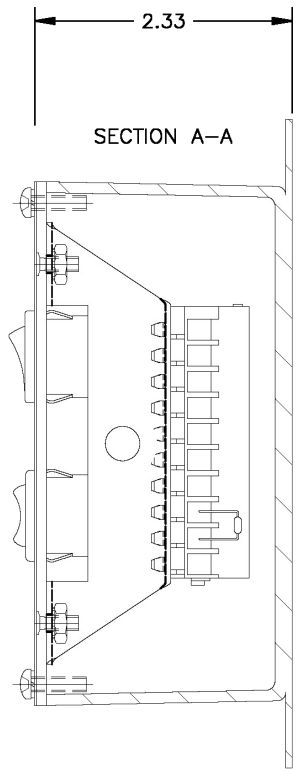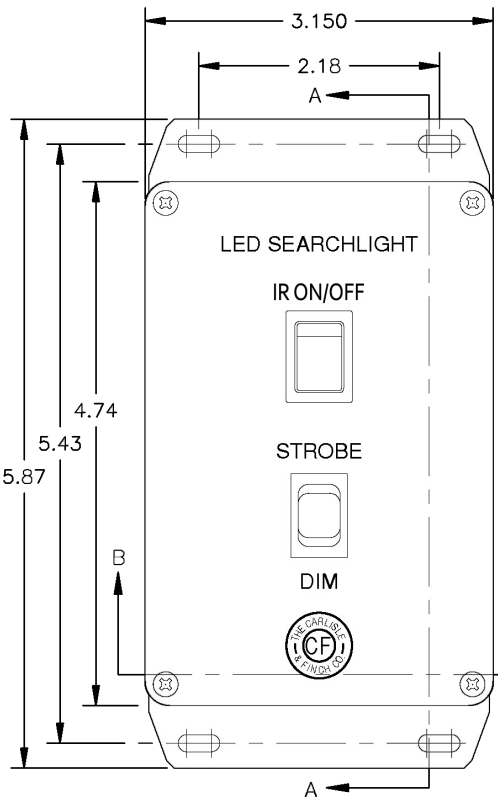
C2-12
Controller
includes Beam ON/OFF, Strobe, and
DIM switches
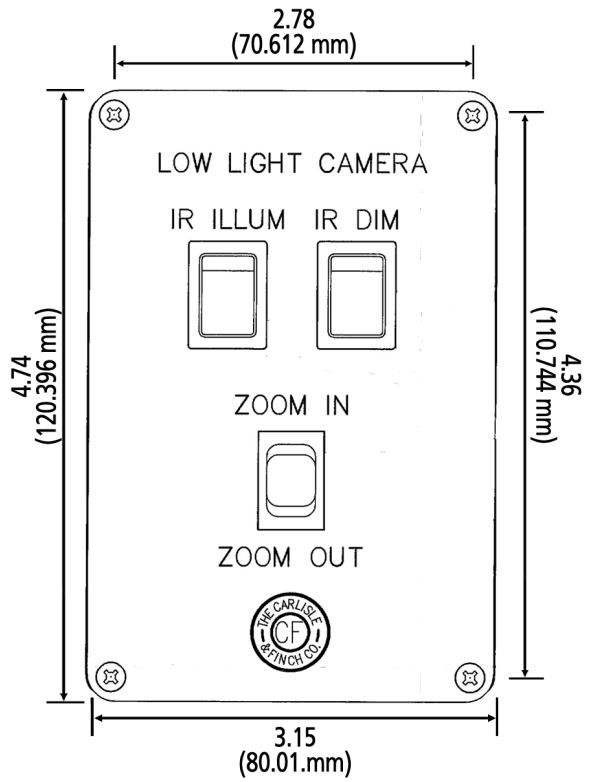
C3-10
Controller
includes IR Beam ON/OFF/DIM
and Zoom IN/OUT switches

How to specify Searchlight Model Number

CF THE CARLISLE & FINCH CO.

Head Size	Add Option	Select One	Add Option	Select One	Add Option
19L	[H W]	— [LC LG DE]	— [IR]	— [ANC AC AH1]	— [PED]

H / W — "Wall of Light" LEDs *Option* "Windfarm" Extended Rack *Option*

IR — Night Vision Infrared LEDs *Option*

PED — Tall Pedestal Base *Option (Manual-Control Only)* Consult Factory

LC Local Handle Control
LG Remote Lever Gear
DE Joystick Electric Control

ANC 115/230 VAC (no Strobe/DIM)
AC 115/230 VAC (with Strobe/DIM)
AH1 115 VAC (with Anti-Icing Heaters)

<u>Note</u>: To specify Searchlight Model Number, go to top of page and insert letters from left to right as applicable.

Example #1 — Model Number: 19L-LG-ANC-PED

19-inch (483mm) diameter, Remote Lever-Gear Control, 115 VAC and Tall Pedestal option

Example #2 — Model Number: 19LH-DE-IR-AH1

19-inch (483mm) diameter, Wall of Light LEDs option, Joystick Electric Control, Infrared LEDs option, 115 VAC and Anti-Icing Heaters