Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

CLH1A-LSCS

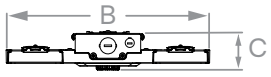
LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

FEATURES

- Field Switchable lumen and CCT technologies maximize inventory versatility and flexibility.
- Two switchable lumen packages with Size 1 ranging between 16,000 to 22,000 and Size 2 ranging from 27,000 to 36,000 lumens. Switch is initially set to the maximum lumen level.
- Field switchable CCT can be either 3500K, 4000K or 5000K with both CCT's delivering 80 CRI. Switch is initially set to 4000K CCT.
- A universal voltage (120-347V) driver with 0-10V dimming to 10% provides great light output control.
- A versatile medium lens with optional wide and narrow distributions, giving you precise control to match any lighting requirement.
- A field installed PIR sensor can be quickly installed. The highly featured sensor provides occupancy control. With the use of the sensor remote, daylighting and dimming capabilities can be enabled and the default settings can be customized.
- Integrated sensor options for code compliance, grouping of fixtures, increased energy savings, and connection to NX Lighting Controls systems.
- Excellent thermal management in a compact fixture provides a wide ambient temperature application range: -40°C to +50°C.

Shown with field installable sensor accessory

Typical Dimensions and Weights				
Sizes	Length Inches (mm)	(B) Width Inches (mm)	(C) Height Inches (mm)	Weight lbs (kg)
1	14.19" (360)	11.02" (280)	2.05 (52)	4.6 lb (2.1)
2	23.05" (585)	12.60" (320)	2.05 (52)	7.7 lb (3.5)



CERTIFIED · DAMP LOCATION · IK08 (Lens Only) · IK10 (Housing Only) · SWITCHABLE LUMEN & CCT

CONTROL TECHNOLOGY

NX WIRELESS · NX WIRED · NX CONNECT · OCCUPANCY SENSING · DAYLIGHT HARVESTING

SPECIFICATIONS

CONSTRUCTION
- Die-cast aluminum housing and steel electrical enclosure

OPTICS
- Polycarbonate lens for medium, narrow and wide distributions

INSTALLATION
- Easy installation in new construction or retrofit
- Chain-mount kits (includes v-hooks and ⅛" thick, 1 meter long chain) are standard
- Surface, pendant and cable mount accessories available

ELECTRICAL
- Universal 120–347V driver, optional 480V available
- Power Factor > 90
- Color Rendering Index > 80
- 0–10V Dimming to 10%

ELECTRICAL (CONTINUED)
- Total Harmonic distortion < 20%
- Long-life LEDs provide 100,000 hours of operation with at least 70% of initial lumen output (L70)
- Driver design life of 50,000hrs at max ambient

CONTROLS
- Field installable PIR Occupancy Sensor
- Integration of sensors (NX and other) accomplished though knockout in bottom middle of fixture which eliminates fixture potentially blocking sensor
- High-end trim, occupancy and ambient light detection with dimming available
- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments

CONTROLS (CONTINUED)
- NX Connect is a standalone wireless deployment for room based applications using wireless enabled and battery operated devices

CERTIFICATIONS
- UL/cUL Listed for damp locations
- Suitable for ambient temperatures from: -40°C to 50°C (-40°F to 122°F)
- Emergency battery pack options are California Energy Commission (CEC) Title 20 Compliant

WARRANTY
- 5 year warranty

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ORDERING GUIDE

Example: CLH1A-1-CS-UNV-M-C-F4C006SP10-E30

CLH1A –	–	CS –	–	–	–
Model	**Lumen**	**CCT/CRI**	**Dimming**	**Optics**	**Mounting**
CLH1A Linear High Bay	**1** Switchable 16/19/22K **2** Switchable 27/32/36K	**CS** Lumen and CCT Switchable	**UNV** 120-347V **120** 120V **277** 277V **347** 347V **480** 480V [1]	**M** Medium **N** Narrow **W** Wide	**C** Standard **1** Cable Mount (10ft) **S** Surface Mount [4] **P** Pendant Mount [4]

–	–	–	–
Cord Options (Leave Blank if None Needed)	**Special Options (Leave Blank if None Needed)**	**Battery Options (Leave Blank if None Needed)**	**Control Options (Leave Blank if None Needed)**
Blank None **F3C006** 6' Feed Cord, 3 Conductor **F3C012** 12' Feed Cord, 3 Conductor **F4C006** 6' Feed Cord, 4 Conductor (for E30 option) **F4C012** 12' Feed Cord, 4 Conductor (for E30 option) **F5C006** 6' Feed Cord, 5 Conductor **F5C012** 12' Feed Cord, 5 Conductor Cord with Plug Options [2] **C6TL15** 6' Cord 15A TL Plug [6] **C6TL20** 6' Cord 20A TL Plug [7] **C6P151** 6' Cord with 15A straight blade plug [6] Specialty Modular Cord Sets **NE3** ACS-MC Flex 12ft 2EA 10-LW 277/480 3 Conductor [5]	**Blank** None **DTS** Dimming Bypass Module **SP10** 10kV Surge Protection	**Blank** None **E30** 30W Emergency Battery Pack (CEC Title 20 compliant) Installed	**Blank** None NX Lighting Controls Networked Wireless **NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor **NXWHM** NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming Networked Wired **NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor **NXEHM** NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming Independent Control **NXCHM** NX Connect NXC-WHS20 Wireless High Bay Occupancy & Photocell Sensor [8] **WSPD** End Mounted WSPDEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell **WSPDBT** End Mounted Bluetooth® Programmable, WSPDBEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell

Notes:

1 Only available with "1" cable mount.

2 Please consult Nema plug type table below.

3 If using nx controls with 347V then only available with "C" standard or "1" cable mount.

4 Max ambient 45°C.

5 Only available with 277V and 480V.

6 Only available with 120V and 277V.

7 Not available with "UNV."

8 NX Connect devices can be customized with the NX Connect app, available on the Apple® App Store. Sensors are bottom mounted. See pictures on integrated sensor page.

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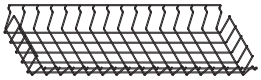
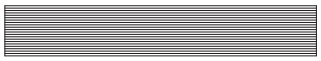
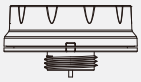
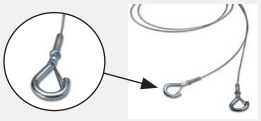
ACCESSORY ORDERING GUIDE

MOUNTING AND ACCESSORIES				
Order SKU #		Image	Description	
☐	93321614		ILH Surface Mount Kit 1. Kit can be used on either size. 2. Not compatible with fixtures that have battery pack installed	
☐	93321615		ILH Pendant Mount Kit 1. Kit can be used on either size. 2. Not compatible with fixtures that have battery pack installed.	
☐	93321609		ILH WG1 - Wire Guard Size 1	
☐	93321613		ILH WG2 - Wire Guard Size 2	
☐	93321617		ILH-1 90D Lens - Medium Lens Size 1	
☐	93321620		ILH-2 90D Lens - Medium Lens Size 2	
☐	93321618		ILH-1 110D Lens - Wide Lens Size 1	
☐	93321621		ILH-2 110D Lens - Wide Lens Size 2	
☐	93321616		ILH-1 65D Lens - Narrow Lens Size 1	
☐	93321619		ILH-2 65D Lens - Narrow Lens Size 2	
☐	93161798		HB03DPR - Plug and Play Sensor 1. Easy plug-and-play install to front face of fixture. 2. Sensor requires remote if programming is desired.	
☐	93161799		HB03DPR - Sensor Remote 1. Remote allows default settings to be changed. 2. Remote allows daylight and dimming sensor capabilities to be enabled and programmed.	
☐	93302310		Y-CBL-KIT-5FT - 5ft Y-Cable Kit	Y- Cable/ Hooks (Pair) 1. To be installed using V clips included with each fixture. Only requires (1) Y-Cable Hook per fixture.
	93302311		Y-CBL-KIT-10FT - 10ft Y-Cable Kit	
	93306699		Y-CBL-KIT-15FT - 15ft Y-Cable Kit	
	93306750		Y-CBL-KIT-20FT - 20ft Y-Cable Kit	

DELIVERED LUMENS

Size/Distribution	Input power (W)	Lumen flux (lm)	LPW (lm/W)	CCT(K)
CLH Size 1 Medium Distribution	110	15500	138	3500
	108	16500	151	4000
	110	16200	146	5000
	130	17800	136	3500
	127	19200	150	4000
	130	18400	142	5000
	150	20000	132	3500
	145	22000	148	4000
	150	21000	138	5000

Size/Distribution	Input power (W)	Lumen flux (lm)	LPW (lm/W)	CCT(K)
CLH Size 2 Medium Distribution	180	26000	145	3500
	176	27400	155	4000
	180	26800	149	5000
	220	30800	140	3500
	214	32800	154	4000
	220	31700	144	5000
	255	34500	135	3500
	245	36500	150	4000
	255	35200	138	5000

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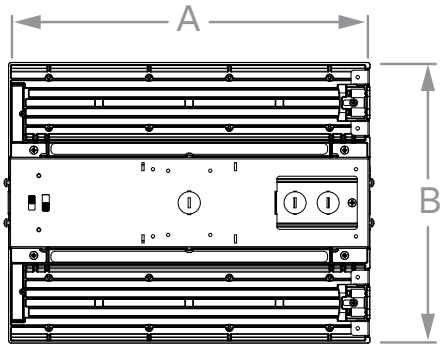
CLH1A-LSCS

LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

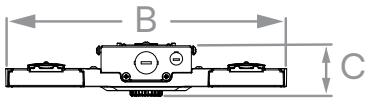
DIMENSIONS

SIZE 1

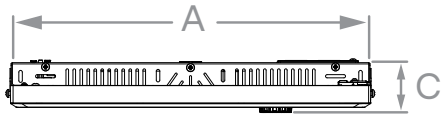
Bottom View



End View

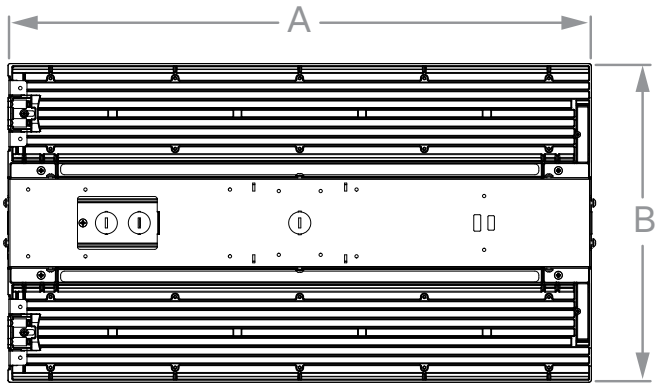


Side View

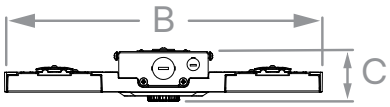


SIZE 2

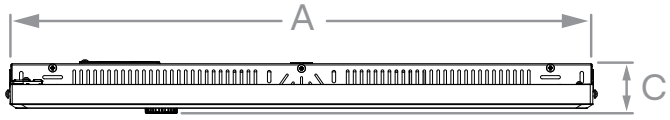
Bottom View



End View



Side View



Size	Length (A) inches (mm)	Width (B) inches (mm)	Height (C) inches (mm)
1	14.19" (360)	11.02" (280)	2.05 (52)
2	23.05" (585)	12.60" (320)	2.05 (52)

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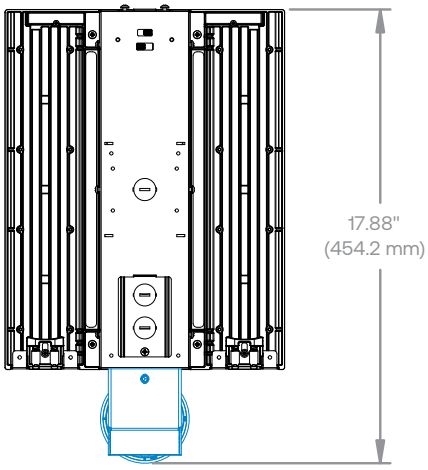
CLH1A-LSCS

LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

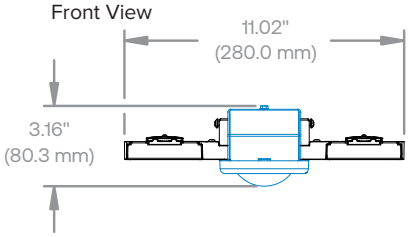
DIMENSIONS CONTINUED

SIZE 1 120–277V +NX

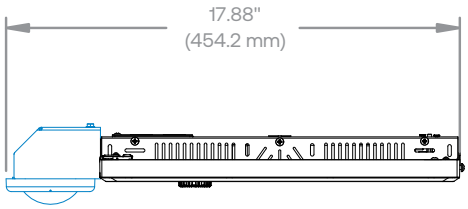
Top View



Front View

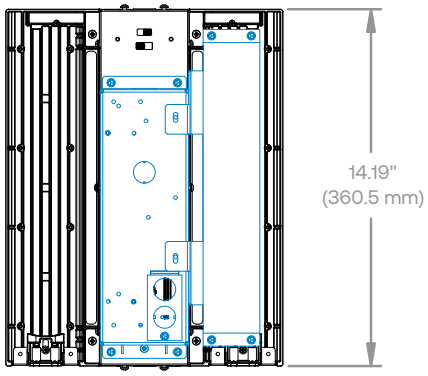


Side View

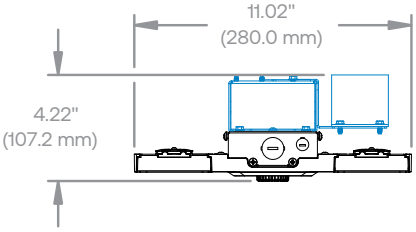


SIZE 1 120–277V +EMERGENCY

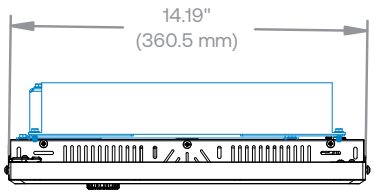
Top View



Front View



Side View



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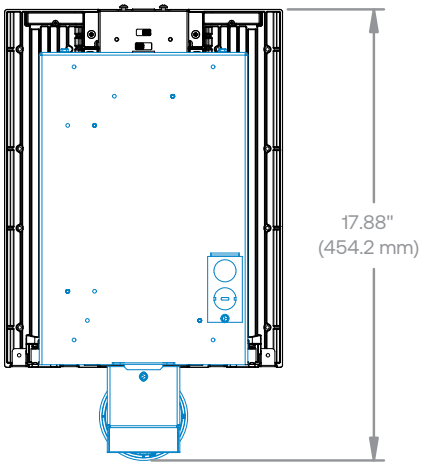
CLH1A-LSCS

LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

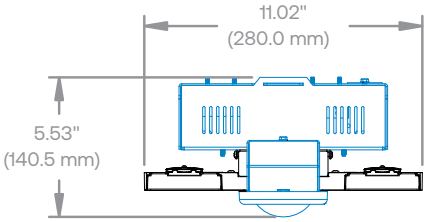
DIMENSIONS CONTINUED

SIZE 1 347–480V +NX

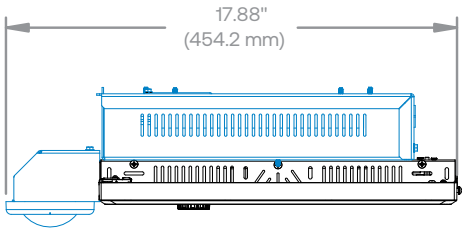
Top View



Front View

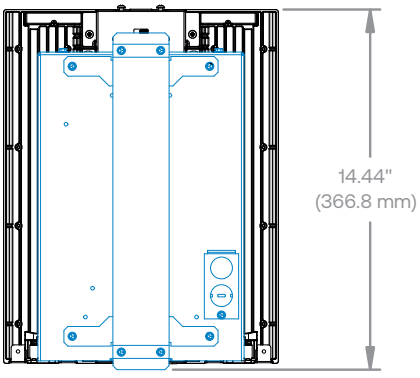


Side View

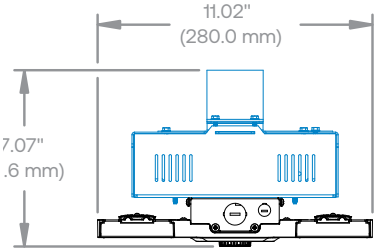


SIZE 1 347–480V +EMERGENCY

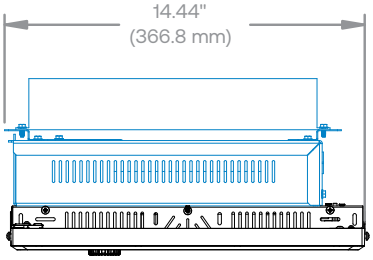
Top View



Front View



Side View



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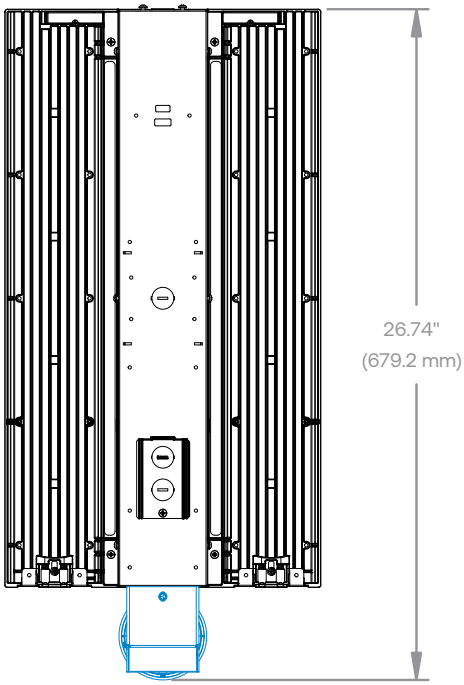
CLH1A-LSCS

LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

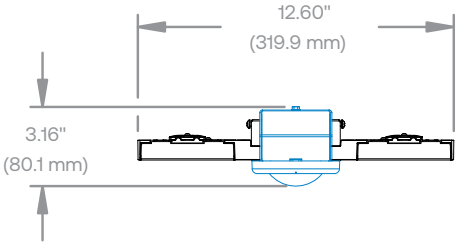
DIMENSIONS CONTINUED

SIZE 2 120–277V +NX

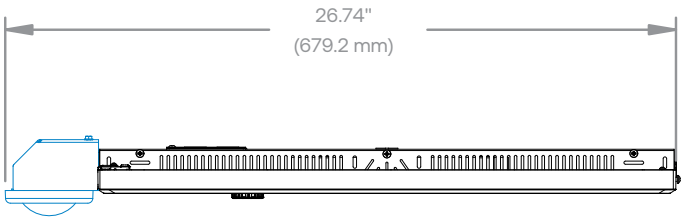
Top View



Front View

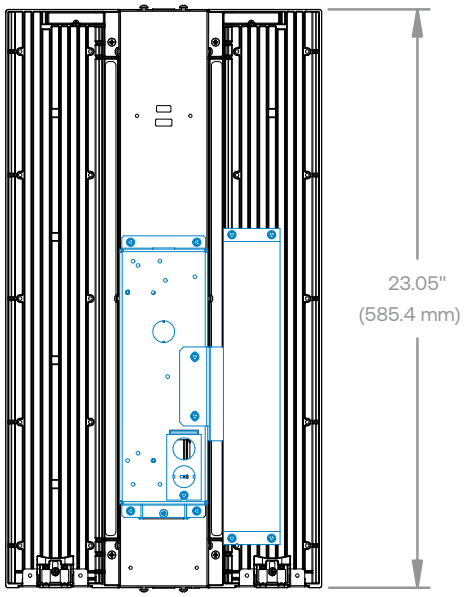


Side View

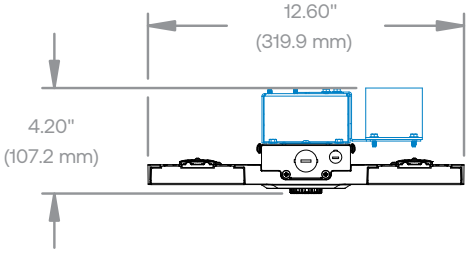


SIZE 2 120–277V +EMERGENCY

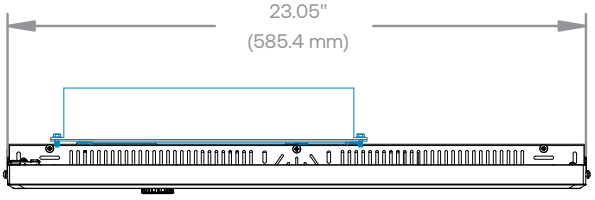
Top View



Front View



Side View



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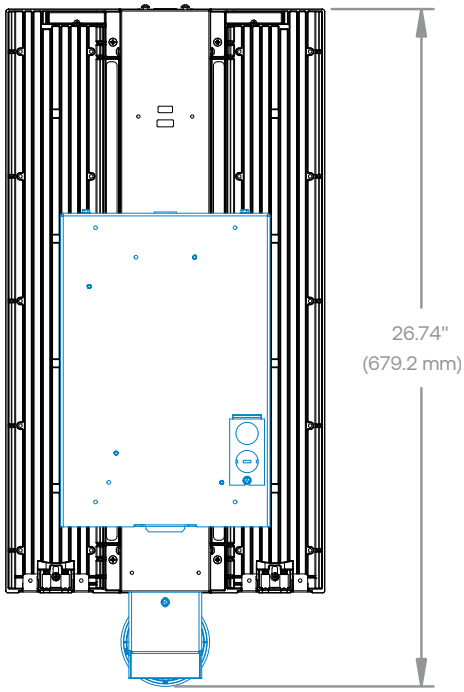
CLH1A-LSCS

LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

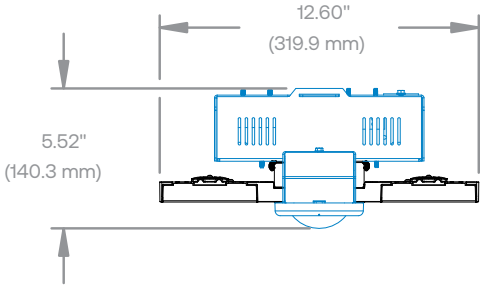
DIMENSIONS CONTINUED

SIZE 2 347–480V +NX

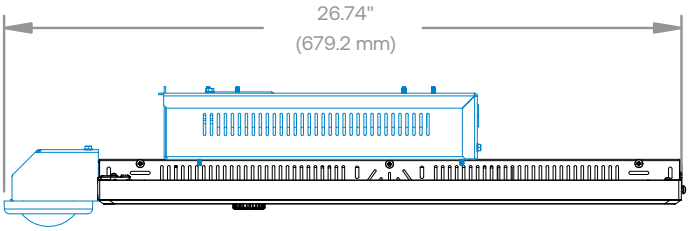
Top View



Front View

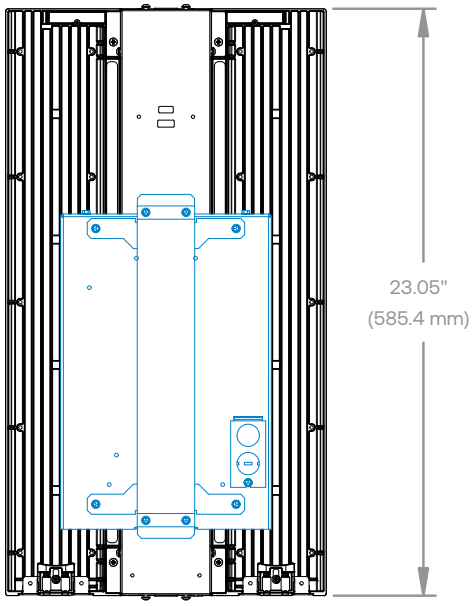


Side View

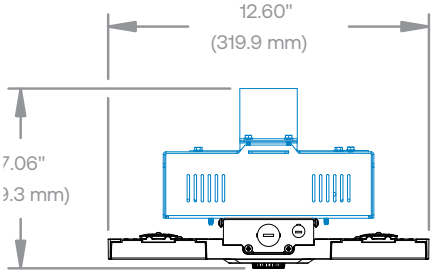


SIZE 2 347–480V +EMERGENCY

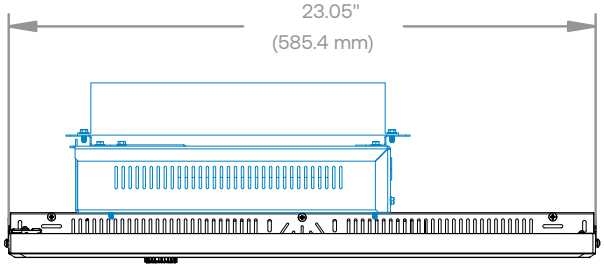
Top View



Front View



Side View



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Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

CLH1A-LSCS

LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

NX LIGHTING CONTROLS

NX LIGHTING CONTROLS™

	Control Option Ordering Logic & Description		Control Option Functionality									Control Option Components	
			Networkable	Standalone Grouping	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓	–		NXRM2-H
	NXWHM	NX Networked Wireless Enabled Integral NXSMP2-HMO Wireless High Bay Occupancy and Photocell Sensor	✓	✓	✓	✓	✓	✓	✓	✓	Max: 45ft		NXSMP2-HMO
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	✓	✓	✓	–	–	✓	✓	✓**	–		NXFSP
	NXEHM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓	Max: 45ft		NXFSP NXSMP2-HMO
NX Independent	NXCHM	NX Connect NXC-WHS20 Wireless High Bay Occupancy and Photocell Sensor	–	✓	–	✓	✓	✓	✓	✓*	Low Max: 8ft Med. Max: 20ft High Max: 40ft		NXC-WHS20
	WSPD	End Mounted WSPDEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell	–	–	–	✓	✓	✓	–	–	Max: 45ft		WSPDEMUNV
	WSPDBT	End Mounted Bluetooth® Programmable, WSPDBEMUNV Occupancy Sensor with Automatic Dimming Photocell	–	–	–	✓	✓	✓	✓	✓	Max: 45ft		WSPDBEMUNV

* Requires use of NX Connect App available for download from Apple app store
** Requires NXBTC (bluetooth programming tool), order separately

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CLH1A-LSCS

LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

CONTROLS

DEFAULT SETTINGS

NX Wireless & Wired	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7 Minutes
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0% (OFF)
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	Off
	Passcode Factory Passcode: Curr3nt!	Enabled

NX Independent	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7 Minutes
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0% (OFF)
	Daylight Sensor	Disabled

NX Independent - NX Connect	Settling/Dwell Time	5 sec
	Hold Time	15 min
	Group Hold Time	15 min
	Grace Time	0 sec
	Strategy	-
	Occupancy Sensitivity	5 (highest)
	Occupancy Indicator	1 (enabled)
	Partial Off/Standby	0%
	Background Level	10%
	Task Level	100%
	Daylight Harvesting	1 (enabled)
	Low Ambient Output	250% (of fixtures light output)
	High Ambient Output	OFF

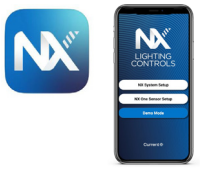
NX Independent	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Full Off Timeout	Disabled
	Daylight Sensor	Disabled

CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am–7:00 pm est)

APP INFORMATION

NX Lighting Controls App



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth® Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.

Android

Apple iOS

NX Connect App

The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.

Apple iOS

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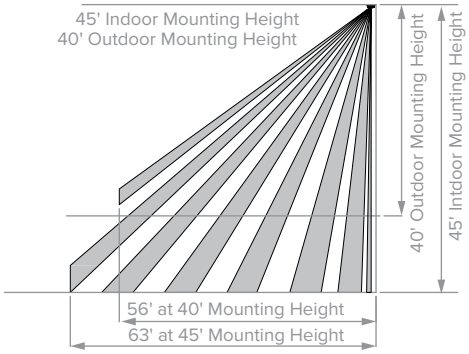
CLH1A-LSCS

LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

INTEGRATED SENSORS

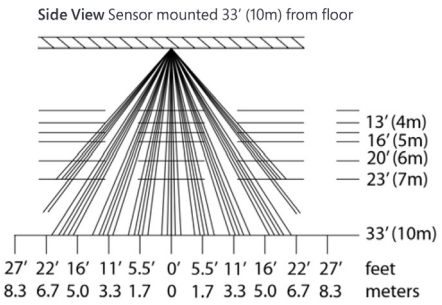
COVERAGE PATTERNS

NXWHM (NXSMP2-HMO SENSOR)
NXEHM (NXSMP2-HMO)

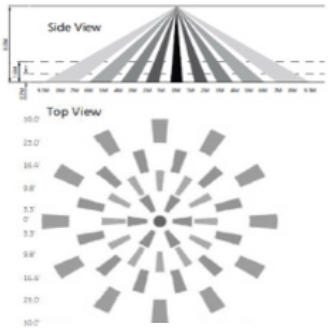


Sensor Lens Coverage and Detection Patterns When Mounted at 40ft and 45ft with Standard Lens

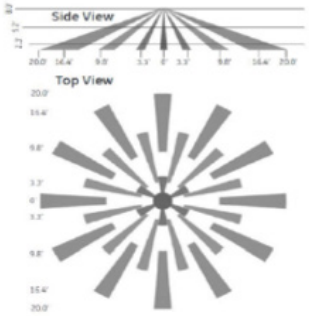
NXCHM (NXC-WHS20 SENSOR)
HIGH LENS: 12.2M (40FT)
27ft Radius/54ft Diameter

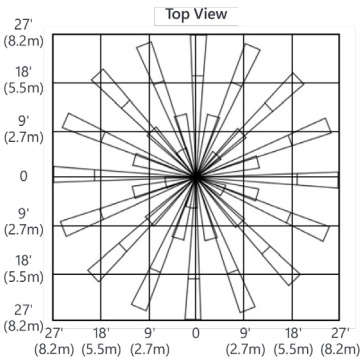


NXCHM (NXC-WHS20 SENSOR)
MED LENS: 6M (20FT)
30ft Radius/60ft Diameter

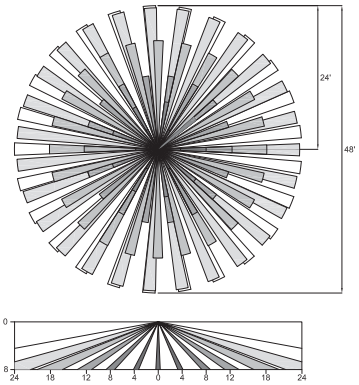


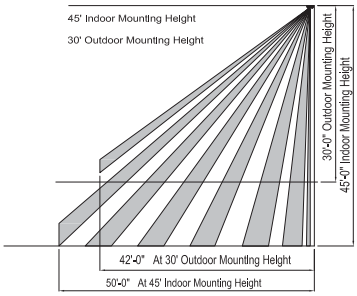
NXCHM (NXC-WHS20 SENSOR)
LOW LENS: 2.5M (8FT)
20ft Radius/40ft Diameter





WSPD360/WSPDA/WSPDBT360/
ASDBTA/OS1360/OS1A





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Columbia LIGHTING

CLH1A-LSCS

LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

DATE: LOCATION:

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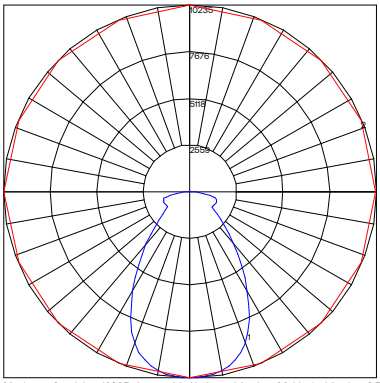
CATALOG #:

PHOTOMETRY

SIZE 1 NARROW DISTRIBUTION

Settings @22K Lumen, 3500K CCT

POLAR GRAPH
REF 25.00520

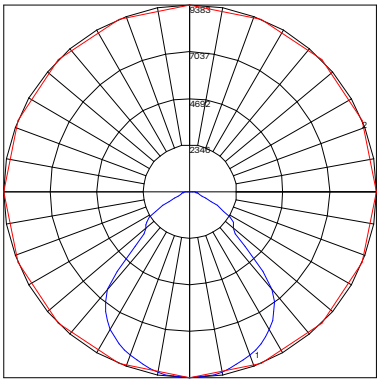


Maximum Candela = 10235 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

SIZE 1 MEDIUM DISTRIBUTION

Settings @22K Lumen, 3500K CCT

POLAR GRAPH
REF 25.00523

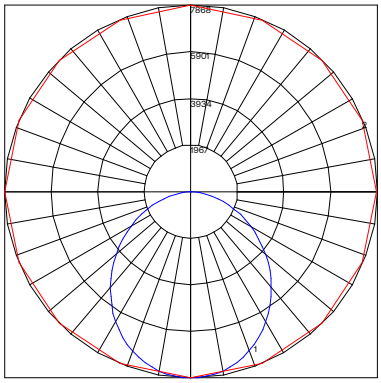


Maximum Candela = 9383 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

SIZE 1 WIDE DISTRIBUTION

Settings @22K Lumen, 3500K CCT

POLAR GRAPH
REF 25.00526

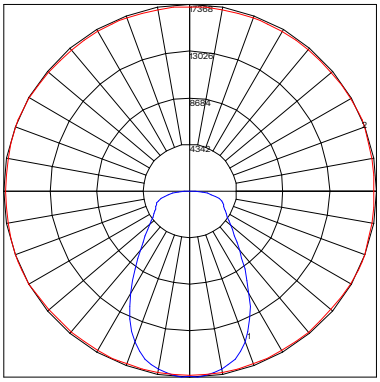


Maximum Candela = 7868 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

SIZE 2 NARROW DISTRIBUTION

Settings @36K Lumen, 3500K CCT

POLAR GRAPH
REF 25.00133

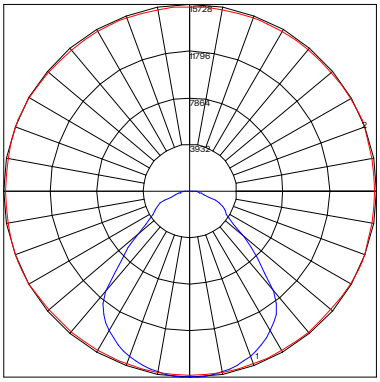


Maximum Candela = 17368 Located At Horizontal Angle = 25, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

SIZE 2 MEDIUM DISTRIBUTION

Settings @36K Lumen, 3500K CCT

POLAR GRAPH
REF 25.00136

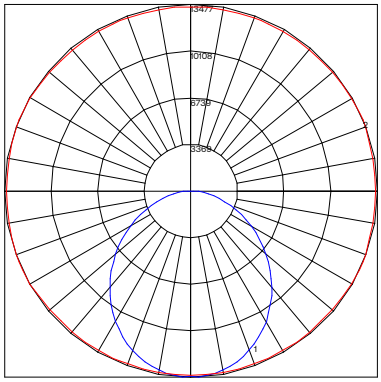


Maximum Candela = 15728 Located At Horizontal Angle = 25, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

SIZE 2 WIDE DISTRIBUTION

Settings @36K Lumen, 3500K CCT

POLAR GRAPH
REF 25.00139



Maximum Candela = 13477 Located At Horizontal Angle = 25, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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