Columbia LIGHTING

CLH-LSCS
LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

tradeSELECT®

FEATURES

- Field Switchable lumen and CCT technologies maximize inventory versatility and flexibility

  - Two switchable lumen packages with Size 1 ranging between 15,000 to 24,000 and Size 2 ranging from 24,000 to 36,000 lumens. Switch is initially set to the maximum lumen level.

  - Field switchable CCT can be either 4000K or 5000K with both CCT's delivering 80 CRI. Switch is initially set to 4000K CCT.

- A universal voltage (120-277V) driver with 0-10V dimming to 10% provides great light output control

- Fixture comes standard with lens that provides a Medium (90°) optical distribution. Wide (120°) and Narrow (55°) optical distributions are available through field installed lens to help achieve required Fc levels and light uniformity.

- 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.

- Excellent thermal management in a compact fixture provides a wide ambient temperature application range: -40°C to +50°C
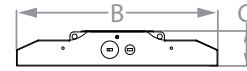
Shown with field installable sensor accessory

SERVICE PROGRAMS

STOCK QS10

Typical Dimensions and Weights				
Sizes	Length Inches (mm)	(B) Width Inches (mm)	(C) Height Inches (mm)	Weight lbs (kg)
1	23.00" (584.2)	10.25" (260.4)	1.75" (44.6)	4.6 lb (2.1)
2	31.00" (787.4)	10.25" (260.4)	1.75" (44.6)	6.4 lb (2.9)

UL CERTIFIED · DLC LISTED · DLC LISTED PREMIUM · DAMP LOCATION · IK08 · SWITCHABLE LUMEN & CCT

SPECIFICATIONS

CONSTRUCTION
- Compact steel housing

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

ELECTRICAL
- Universal 120-277V driver
- Power Factor > 90
- Color Rendering Index > 80
- 0-10V Dimming to 10%
- Total Harmonic distortion < 20%
- Long-life LEDs provide 100,000 hours of operation with at least 70% of initial lumen output (L70)

CONTROLS
- Field installable PIR Occupancy Sensor

CERTIFICATIONS
- cULus listed for damp locations in ambient temperatures from:
  -40°F to 122°F (-40°C to 50°C)
- DLC® (DesignLights Consortium) Qualified, with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org

WARRANTY
- 5 year warranty

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DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

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Gray Shading = **Service Program** Limit of 100 Luminaries **QS10**
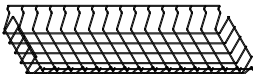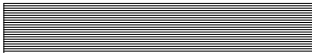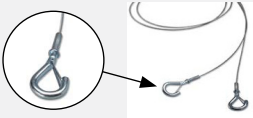
ORDERING GUIDE

Example: CLH1-LSCS-EDU-MD

CLH		—	LSCS	—	ED	U	—	MD	—	
Model	**Size/Lumen Package**		**Lumen Output & CCT**		**Dimming**	**Voltage**		**Optics**		**Options**
CLH Linear High Bay	**1** 15/18/**24K**		LSCS Lumen and CCT Switchable [3]		ED 0-10V to 10%	U 120-277V		MD Medium (90°) distribution		**Blank** None
	2 24/30/**36K**									**ELL25** 25W Emergency Battery Pack (CEC Title 20 Compliant) Installed [2,4]
	Bold Indicates default setting									

Notes:

1   Narrow (55°) and Wide (120° distributions are available by ordering lens accessories and field installing).

2   To determine lumen output in emergency mode multiply the battery pack wattage by the fixture lumens per watt (LPW)

3   4000K/5000K switchable CCT with 4000K CCT as the default setting

4   Fixtures equipped with the ELL25 are not compatible with Surface Mount Kit and Pendant Mount Kit mounting options

ACCESSORY ORDERING GUIDE

	MOUNTING AND ACCESSORIES		
	Order SKU #	**Image**	**Description**
☐	93311609		**CLH-LSCS Surface Mount Kit** 1. Kit can be used on either size. 2. Not compatible with fixtures that have ELL25 battery pack installed
☐	93311610		**CLH-LSCS Pendant Mount Kit** 1. Kit can be used on either size. 2. Not compatible with fixtures that have ELL25 battery pack installed.
☐	93311611		CLH-LSCS Wire Guard Size 1
☐	93311612		CLH-LSCS Wire Guard Size 2
☐	93311613	Lens	CLH-LSCS Medium-LENS Size 1
☐	93311614		CLH-LSCS Medium-LENS Size 2
☐	93311615		CLH-LSCS Wide-LENS Size 1
☐	93311616		CLH-LSCS Wide-LENS Size 2
☐	93311617		CLH-LSCS Narrow-LENS Size 1
☐	93311618		CLH-LSCS Narrow-LENS Size 2
☐	93313943		**High Bay Microsensor (PIR)** 1. Easy plug-and-play install to front face of fixture. 2. Sensor requires remote if programming is desired.
☐	95059859		**High Bay Microsensor Remote** 1. Remote allows default settings to be changed. 2. Remote allows daylight and dimming sensor capabilities to be enabled and programmed.
☐	93302310		5ft Y-Cable/Hook — **Y- Cable/ Hooks (Pair)** 1. To be installed using V clips included with each fixture. Only requires (1) Y-Cable Hook per fixture.
	93302311		10ft Y-Cable/Hook
	93306699		15ft Y-Cable/Hook
	93306750		20ft Y-Cable/Hook

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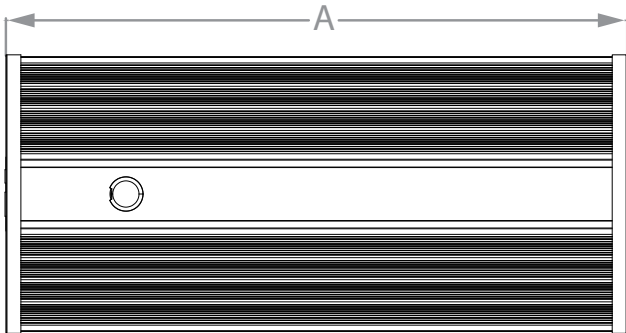LUMEN & CCT SWITCHABLE LINEAR HIGH BAY

DELIVERED LUMENS

CATALOG NUMBER	UPC	SIZE/ LUMEN PACKAGE	VOLTAGE	DISTRIBUTION	TYPICAL DELIVERED LUMENS	WATTS	TYPICAL LPW	MAX AMBIENT TEMP (° C)
CLH1-LSCS-EDU-MD	840141415611	1	120-277V	Medium (90°)	15,000	94.4	159	50° C [1]
					18,000	114.8	157	
					24,200	158.3	153	
CLH2-LSCS-EDU-MD	840141415642	2			24,000	152.3	158	
					30,300	196.8	154	
					36,100	242	149	

1. CLH is rated for 50°C when mounted 18 inches below the ceiling. 45°C max ambient rating when surface mounted

DIMENSIONS

Size	Length (A) inches (mm)	Width (B) inches (mm)	Height (C) inches (mm)
1	23.00" (584.2)	10.25" (260.4)	1.75" (44.6)
2	31.00" (787.4)	10.25" (260.4)	1.75" (44.6)

Bottom View

Top View
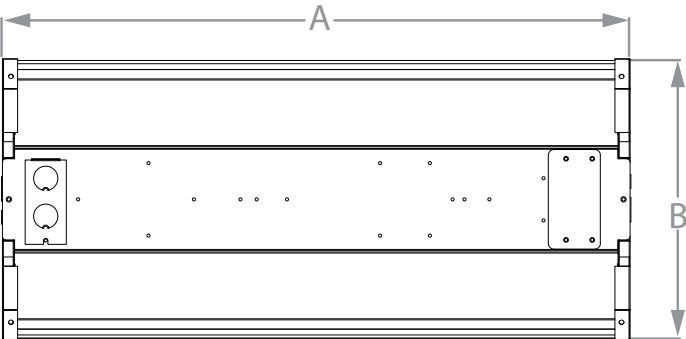
Side View

End View

Sensor

0.74" (19mm)
1.0" (26mm)
Ø2.1" (54mm)

Coverage

Ceiling Mounted

Ceiling Height Feet (Meters)

6.5ft (2m)
13ft (4m)
20ft (6m)
26ft (8m)
33ft (10m)
39ft (12m)

33ft (10m)   0ft (0m)   33ft (10m)
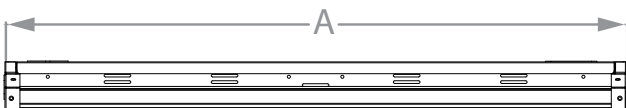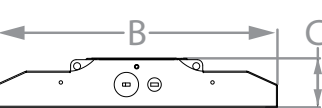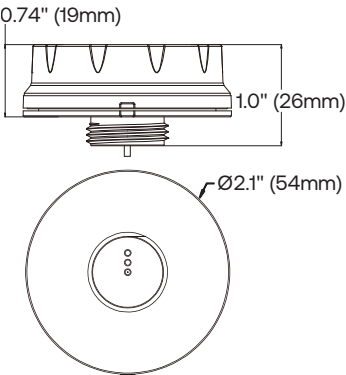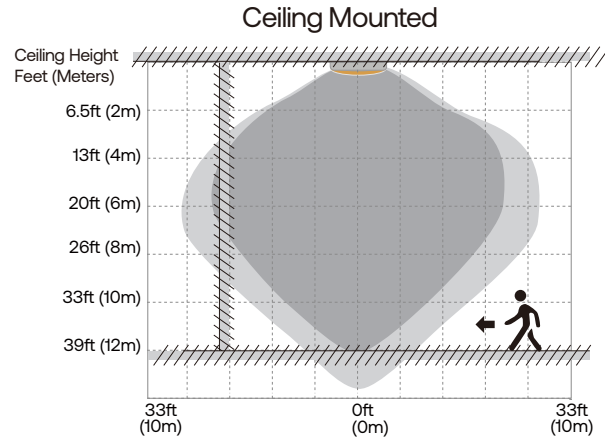

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity

Well Detected Area
Possibly Detected Area

1.6 – 3 Ft/s (0.5–1.0M/S)

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PHOTOMETRY

CLH1-LSCS-EDU-MD

LUMINAIRE DATA

Description	CLH1-LSCS-EDU-MD
Delivered Lumens	24058
Watts	157.6
Efficacy	153
Mounting	
Spacing Criterion	0° = 1.22 90° = 1.30

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	2156	24.7
0–40	3528	40.5
0–60	6316	72.5
0–90	8711	99.9
0–180	8717	100

POLAR GRAPH
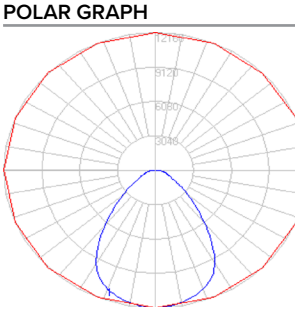
CLH2-LSCS-EDU-MD

LUMINAIRE DATA

Description	CLH2-LSCS-EDU-MD
Delivered Lumens	35524
Watts	236.8
Efficacy	150
Mounting	
Spacing Criterion	0°= 1.24 90°= 1.18

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	9313.59	38.7
0–40	14536.87	60.4
0–60	21168.98	88
0–90	24058.45	100
0–180	24058.45	100

POLAR GRAPH

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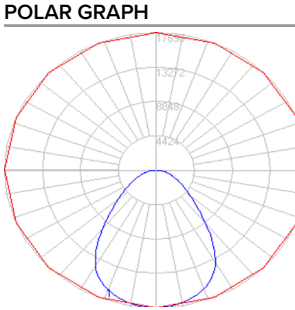
SENSOR SPECIFICATIONS

Model NO.	HD07VR-PH-1
PIR INFORMATION	
Infrared Wavelength	5-14um
Output Signal Peak	≥3500mV
Installation Height	12m/39ft Max.
Detection Distance	≥3m/9ft
Warranty	3 Years
SENSOR PARAMETER	
Detection Area	25%/50%/75%/100%
Holdtime	5s/30s/1min/3min/5min/10min/20min/30min
Daylight Threshold	Disable/ 2lux/ 10lux/ 30lux/ 50lux/ 80lux/ 120lux
Standby Dimming Level	10%/20%/30%/50%
Standby Period	0s/10s/30s/1min/5min/10min/30min/60min+∞
Dusk/Dawn Sensing/ Photocell	Daylight threshold as 30lux/ 50lux/ 80lux/ 120lux Standby period as +∞ ; Standby dimming level as 10%/20%/30%
Default Program	Detection Area - 100% Holdtime - 5S Daylight Threshold - disable Standby Period - 0S Standby Dimming Level - 10%
Control	Standard Partner HD05R, the LCD screen display remote (purchase separately)
INPUT	
Input Range	12VDC
Voltage Range	10-15VDC
Current	≥30mA
OUTPUT	
Signal	DIM 0-10V
Connection	12VDC input/ Black&White wire; DIM+/ Purple wire; DIM-/ Pink wire
Stand-by Power	<30mA Power Consumption
ENVIRONMENT	
Working Temp	-20°C~+60°C
Storage Temp	-40°~+80° Humidity: 85% (non-condensation)
CERTIFICATE & STANDARDS	
Certification	UL (E529048)
Environmental Requirements	In accordance with CE ROHS
IP Rating	IP20
PACKAGE	
Silk-Printing	Lasering
Packing Description	1pcs/white neutral box
Qty/ctn(pcs)	120
Net Weight/pcs (kg)	0.05
Gross Weight/CTN (kg)	6.6
Carton Size (cm)	40*30*25

COL_CLH_SPEC_R04

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## SENSOR SETTINGS AND FUNCTIONALITY

Sensor Accessory is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level

Precondition of Dusk/Dawn Function
1. Standby period is +∞;
2. Standby dimming level is on 10%, 20% or 30%
3. Daylight threshold is on 30lux/ 50lux/ 80lux/ 120lux

LUX OFF

LUX ON

Natural Light

Light off automatically

light on automatically

1. WITH DUSK/DAWN FUNCTION

Hold time

Stand-by period
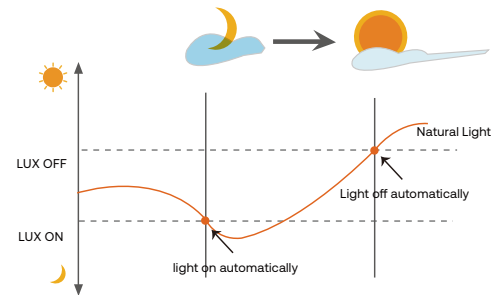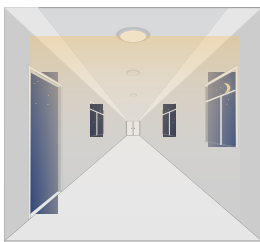
With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or presence.
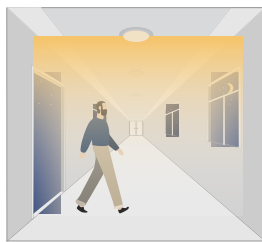
When sensor detects motion or presence it will bring light level up to 100%.
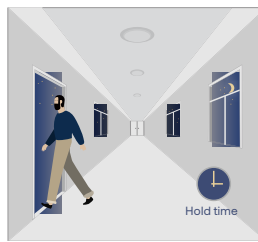
After Motion is no longer detected, fixture remains at 100% for hold time.
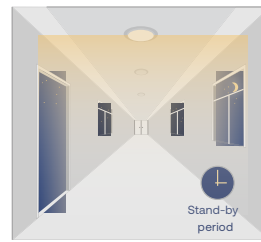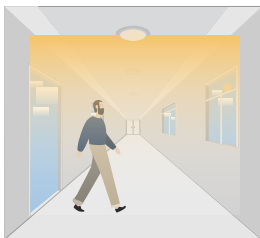
After pre-set hold time period it will dim light to standby dimming level again and always keep it
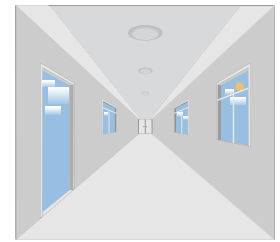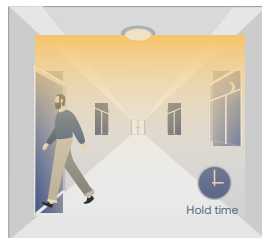
With Sufficient ambient brightness, sensor will turn OFF light automatically.
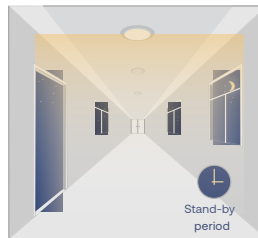
2. WITH DAYLIGHT DISABLED
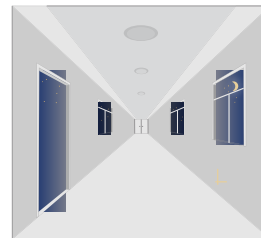

Hold time

Stand-by period

Sensor turns light ON when motion is detected

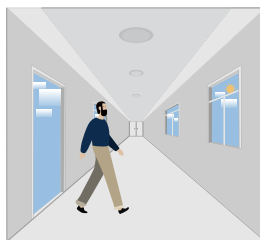Sensor holds for a time period after motion leaves

Sensor dims light to standby dimming level after hold time if there is still no motion
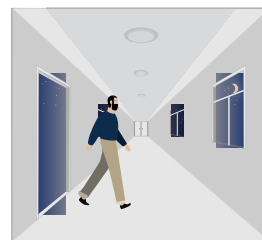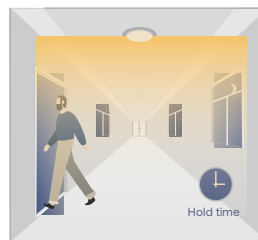
Sensor turns light OFF after standby period

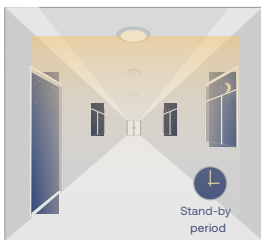## 3. WITH DAYLIGHT THRESHOLD

Hold time

Stand-by period

With sufficient daylight, the sensor keeps light OFF even if motion gets detected

With insufficient daylight, the sensor turns light ON when motion gets detected

After there's no motion detected, the sensor keeps light ON 100% for holdtime.

After holdtime, sensor dims light to standby dimming level for a standby period. If the standby period has been set to 0s, sensor turns light OFF automatically after holdtime.
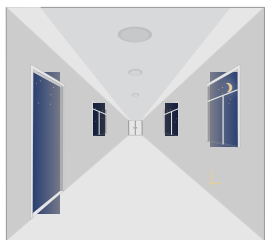
The sensor turns OFF light automatically after the standby period when there's no motion detected

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