Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ECH
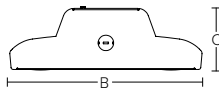## ECHELĂN HIGH PERFORMANCE HIGH BAY

ECHELĂN

FEATURES

- Industrial design delivers a small, lightweight fixture for ease of installation

- Electrical architecture delivers industry leading efficiencies (up to 201 LPW) that translate into lowest life cycle cost

- Designed for ambient temperature settings from -30℃ up to 55℃

- Offers lumen outputs up to 60,000 to accommodate various ceiling heights, fixture spacings, and application requirements

- Four optical distribution available to meet any design requirement

- Broad offering of integrated sensor options provide energy savings, code compliance, fixture grouping, and wireless connectivity

- Optimized bulk packaging to minimize job site space requirements and ease waste removal

- Uplight options available to illuminate ceiling above fixture

SERVICE PROGRAM

QS10

UL CERTIFIED   DLC LISTED   IK10   DAMP LOCATION   BAA (-BAA Option)   BABA (-BABA Option)   TAA

Typical Dimensions and Weights

Sizes	(A) Length Inches	(B) Width Inches	(C) Height Inches	Weight (lbs)
1	13.75	10.88	3.46	10.0
2	27.30	10.88	3.60	20.0
3	27.30	15.58	3.60	22.0

*Size dependent on Lumen code. See dimensions page.

CONTROL TECHNOLOGY

NX WIRELESS   NX WIRED   NX CONNECT   OCCUPANCY SENSING   DAYLIGHT HARVESTING

SPECIFICATIONS

CONSTRUCTION

- Fixture housing is a combination of steel and aluminum for exceptional durability and heat dissipation

- Fixture design provides easy access to electrical components by removal of bottom channel cover

- Robust white powder coating prevents chipping and/or flaking while providing protection in more demanding environments

- Access plate mounted on back of fixture providing easy access to make wiring connections

- Knockouts on both ends of fixture for electrical connection options

OPTICS

- Diffuse optic options, plus wide, narrow, and aisle light distributions to meet any application requirement

- Field changeable lens for maintenance and flexibility

INSTALLATION

- Mounting options include Chain/Cable mount, Surface mount, and Pendant mount

ELECTRICAL

- Light engine utilizing metal clad boards with high efficacy (up to 201 LPW), long life LEDs protect the fixtures lumen maintenance

- Driver options include 3kV standard surge protection in 120–277V input or 6kV standard surge protection in 347–480V input

- Power Factor >0.9 and THD <20 converts power efficiently and effectively into light

- Driver options for fixed light output or 0-10V dimming down to 10% is available to customize light levels

CONTROLS

- 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.

- NX Connect is a standalone wireless deployment for room based applications using wireless enabled and battery operated devices.

- DLC 5.1 LLC: Integrated/embedded networked lighting controls, luminaire-level lighting control (LLLC)

CERTIFICATIONS

- Emergency battery pack options are California Energy Commission (CEC) Title 20 compliant

- All luminaires are built to UL1598 standard

- Damp location labeling is standard

- UL/cUL Listed

- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC® website for specific product qualifications at www.designlights.org

- Product configurations not including battery packs or controls meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions

- -BAA Option: This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9). See Buy America(n) Solutions

- This product offers BABA compliant configurations. Configurations including batteries, sensors, controls, and some drivers may not be compliant. Please consult factory to verify BABA compliance for a given configuration.

WARRANTY

- 5 year warranty. See HLI Solutions Standard Warranty for additional information.

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DATE:	LOCATION:
TYPE:	PROJECT:
	CATALOG #:

ORDERING GUIDE

Gray Shading = Service Program Limit of 800 luminaires **QS10**

Example: ECH1-840-L24-CW-ED-U-ST

CATALOG # [_____]

Model		CRI/CCT		Lumen Output		Optics		Driver		Voltage		Mounting	
ECH1 High Performance High Bay		**740** 4000K 70 CRI		**L09** 9,000 lm		**CW** No Lens (120°)		**ED** 0-10V Dimming		**U⁶** 120-277V		**ST** Standard	
		750 5000K 70 CRI		**L12** 12,000 lm		**DW⁹** Diffuse Optic Wide (120°)		**E** Fixed Output		**120** 120V		**SM** Surface Mount	
		830 3000K 80 CRI		**L15** 15,000 lm		**DN⁹** Diffuse Optic Narrow (55°)				**277** 277V		**PM** Pendant Mount	
		835 3500K 80 CRI		**L18** 18,000 lm		**DA⁹** Diffuse Optic Aisle (30°)				**347** 347V			
		840 4000K 80 CRI		**L24** 24,000 lm						**480** 480V			
		850 5000K 80 CRI		**L30** 30,000 lm									
		827 2700K 80 CRI		**L36** 36,000 lm									
		935 3500K 90 CRI		**L48** 48,000 lm									
		940 4000K 90 CRI		**L60** 60,000 lm									

Integrated Sensors (Leave Blank If None Needed)

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, 14]

WSPD360 — Integral WSPEMUNV PIR Occupancy Sensor with photocell and 360° Lens

WSPDA — Integral WSPDEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell and Aisle Lens

WSPDBT360 — Bluetooth® Programmable, WSPDBEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens

WSPDBTA — Bluetooth® Programmable, WSPDBEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell and Aisle Lens

OS1360 — On/Off WASP2 Occupancy/Daylight Sensor, 1-relay, 360 lens

OS1A — On/Off WASP2 Occupancy/Daylight Sensor, 1-relay, Aisle lens

Other

Independent Control

OS — On/Off Sensor 360° high mount sensor [7]

OCS — On/ Off Occupancy/ Daylight Sensor 360° high mount sensor [7]

ODS — Dimming Occupancy Sensor 360° high mount sensor [7]

Options (Leave Blank If None Needed)

PI — Packaged Individually

ELL20 — 20W Emergency Battery Pack (CEC Title 20 Compliant) Installed [1, 2, 15]

ELL30 — 30W Emergency Battery Pack (CEC Title 20 Compliant) installed [16]

DTS — Dimming Bypass Module [11]

BAA — Buy American Act (FAR 52.225-9) Compliant

BABA — Build America Buy America Act Compliant [17]

Cord Options

F3C006 — 6', 3 conductor cord

F3C012 — 12', 3 conductor cord

F4C006 — 6', 4 conductor cord (for ELL20 option)

F4C012 — 12', 4 conductor cord (for ELL20 option)

F5C006 — 6', 5 conductor cord (Line + dimming)

F5C012 — 12', 5 conductor cord (Line + dimming)

Flexible Metal Conduit Options

C00388 — 6', 3 wire flexible metal conduit

C00488 — 6', 4 wire flexible metal conduit

C00588 — 6', 5 wire flexible metal conduit

Cord with Plug Options (See NEMA Table Below)

C6TL15 — 6' Cord with 15A TL Plug (Only available when specifying discrete voltage codes 120 or 277) [3]

C6TL20 — 6' Cord with 20A TL Plug (Only available when specifying discrete voltage code 120, 277, 347 or 480) [4]

C6P151 — 6' Cord with 15A straight blade plug (Only available when specifying discrete voltage code 120, 277 or 347) [5]

Specialty Modular Cord Sets

LE — ACS-MC Flex + 10ft 2EA 10-LW 277/480 # 16AWG [13]

NE — ACS-MC Flex + 10ft 2EA 12-LW 277/480 # 16AWG [13]

Uplight (nominal lumens) [10, 11, 12]

U1 — 1000 lumens

U2 — 2000 lumens

U3 — 3000 lumens

U4 — 4000 lumens

Notes:

1. ELL20 with 347/480V not available with mounting options SM and PM.
2. Quick Ship 10 not available for E20 with cord options
3. Only available with 120V or 277V
4. Only available with 120V, 277V, 347V or 480V
5. Only available with 120V, 277V or 347V
6. Cords/Plugs and Third Party Sensors not available with the U voltage code option
7. Third party sensor are programmable and sensors are typically side mounted.
8. NX Connect devices can be customized with the NX Connect app, available on the Apple® App Store. NX Connect sensors are typically bottom mounted.
9. DW is polycarbonate, DN and DA are acrylic
10. ST mounting option only
11. For 347/480V contact factory
12. Uplight max ambient temperature = +40°C
13. Only available with 277V or 480V
14. High mount lens provided. For low, medium, or aisle distribution order appropriate lens accessory and field change
15. To determine the lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
16. Please consult factory on leadtime for this option
17. This product offers BABA compliant configurations. Configurations including batteries, sensors, controls, and some drivers may not be compliant. Please consult factory to verify BABA compliance for a given configuration.

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ACCESSORY ORDERING GUIDE

MOUNTING AND ACCESSORIES			
Mounting Options	Description	Configurable Order Logic Code	Accessories
☐ Standard Chain/ Cable Mount	Available on all fixture configurations (chain not included). Y-Cable w/hook can be ordered as an accessory.	**ST** = Standard (No chain or mounting hardware included)	n/a
☐ Surface Mount (optional)	Available on all fixture configurations. Attaches to structural member in ceiling. (Hardware not included.)	**SM** = Surface Mount	SKU: 93165274 Description: ½" Surface Mounting Kit NOTE: Kit included two (2) brackets.
☐ Pendant Mount (optional)	Available on all fixture configurations. Attaches to ¾" threaded conduit. (conduit not included).	**PM** = ¾" Pendant Mount Kit	SKU: 93165273 Description: ¾" Pendant Mounting Kit
☐ Y-Cable w/hook (optional)	Use with Standard Mounting Option only. Order separately. Priced per pair. 5 ft., 10 ft., 15 ft., 20 ft. lengths available	n/a	5' Y Cable/Hook: 93302310 10' Y Cable/Hook: 93302311 15' Y Cable/Hook: 93306699 20' Y Cable/Hook: 93306750
☐ V-Clips w/ chains (optional)	Use with Standard Mounting Option only. Order separately. Priced per pair. 3 ft. length chains included.	n/a	93146133G

WIRE GUARDS		
ECH Body Size	SAP #	SAP Description
☐ ECH Size 1	93318569	CUR HB WG 2 10PK
☐ ECH Size 1 + End Mount Sensor	93318570	CUR HB WG 2 SMS 10PK
☐ ECH Size 2	93318571	CUR HB WG 3 10PK
☐ ECH Size 2 + End Mount Sensor	93318572	CUR HB WG 3 SMS 10PK
☐ ECH Size 3	93318573	CUR HB WG 4 5PK
☐ ECH Size 3 + End Mount Sensor	93318574	CUR HB WG 4 SMS 5PK

*SMS = Use with end mount sensor. If ordering fixture with sensor, refer to chart on page 6 of spec sheet to determine if sensor is end mounted. If sensor is end mounted, order wireguard for fixture body size with 'SMS' in description.

All highbay wireguards are priced as single accessories and must be ordered as single accessories. Standard packaging is a master carton containing 5 or 10 wireguards depending on fixture body size.

See Highbay Wireguard Installaton sheet (hyperlink) for more details.

NEMA PLUG TYPE TABLE			
Voltage	TL15 15A Twist Lock	TL20 20A Twist Lock	P151 15A Straight
120V	L5-15P	L5-20P	5-15P
277V	L7-15P	L7-20P	7-15P
347V	N/A	L24-20P	24-15P
480V	N/A	L8-20P	N/A

FIELD INSTALLABLE 20W BATTERY KITS*		
	Ordering SKU	ECH Body Size
☐	93313452	Size 1
☐	93313453	Size 2, Size 3

*Emergency battery pack options are California Energy Commission (CEC) Title 20 compliant

FIELD CHANGEABLE NX-WHS20 SENSOR ACCESSORIES

Ordering Sku	Ordering Cat# Logic	Description
93134999	NX- WHS20_LOW_LENS_KIT_10	Low Lens: 2.5m (8ft) - 10pk
93135001	NX- WHS20_MED_LENS_KIT_10	Med Lens: 6m (20ft) - 10pk
93135003	NX- WHS20_HIGH_LENS_KIT_10	High Lens: 12m (40ft) - 10pk
93134985	NX- WHS20_SNAP_AISLE_MASK_KIT_10	Snap on Aisle Mask

NOTE: See below for NX-WHS20 coverage patterns

REPLACEMENT PARTS
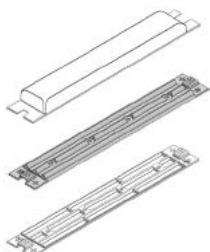
REPLACEMENT LENSES & OPTICS			
Ordering SKU	Ordering Cat# Logic	Fixture Optic Ordering Code	Description
93164585	ECH-WIDE DIFFUSED LENS KIT	DW	Diffuse Optic Wide (120º)
93164587	ECH-DN OPTIC KIT	DN	Diffuse Optic Narrow (55º)ractors in kit
93164588	ECH-DA OPTIC KIT	DA	Diffuse Optic Aisle (30º)

Body Size and number of lenses required:
Size 1 = 2 lens = 1 kit
Size 2 = 4 lens = 2 kits
Size 3 = 8 lens = 4 kits

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DELIVERED LUMENS

DELIVERED LUMENS AND ELECTRICAL CHARACTERISTICS FOR ECH1							
Ordering Code			Delivered Lumens	120–277V		347/480V		Body
CRI/CCT	Lumen	Optic		Watts	LPW	Watts	LPW	
740 750	L09	DW	9,100	49	186	51	178	Size 1
	L12		12,100	66	183	68	178	
	L15		15,100	85	178	86	176	
	L18		18,200	106	172	104	175	
	L24		24,000	147	163	144	167	
	L30		30,000	168	179	170	176	Size 2
	L36		36,400	212	172	209	174	
	L48		48,000	294	163	289	166	
	L60		60,300	343	176	336	179	Size 3
830	L09	DW	8,500	53	160	56	152	Size 1
	L12		11,400	72	158	74	154	
	L15		14,300	94	152	93	154	
	L18		17,200	116	148	114	151	
	L24		22,600	164	138	161	140	
	L30		28,300	186	152	185	153	Size 2
	L36		34,300	232	148	229	150	
	L48		45,200	328	138	322	140	
	L60		56,700	380	149	372	152	Size 3
835	L09	DW	8,800	53	166	56	157	Size 1
	L12		11,900	72	165	74	161	
	L15		14,800	94	157	93	159	
	L18		17,800	116	153	114	156	
	L24		23,500	164	143	161	146	
	L30		29,300	186	158	185	158	Size 2
	L36		35,600	232	153	229	155	
	L48		46,900	328	143	322	146	
	L60		58,800	380	155	372	158	Size 3
840 850	L09	DW	9,100	53	172	56	163	Size 1
	L12		12,100	72	168	74	164	
	L15		15,100	94	161	93	162	
	L18		18.200	116	157	114	160	
	L24		24,000	164	146	161	149	
	L30		30,000	186	161	185	162	Size 2
	L36		36,400	232	157	229	159	
	L48		48,000	328	146	322	149	
	L60		60,300	380	159	372	162	Size 3
935	L09	DW	7,900	53	149	56	141	Size 1
	L12		10,600	72	147	74	143	
	L15		13,200	94	140	93	142	
	L18		15,900	116	137	114	139	
	L24		21,000	164	128	161	130	
	L30		26,200	186	141	185	142	Size 2
	L36		31,800	232	137	229	139	
	L48		41,900	328	128	322	130	
	L60		52,600	380	138	372	141	Size 3
940	L09	DW	8,100	53	153	56	145	Size 1
	L12		10,900	72	151	74	147	
	L15		13,500	94	144	93	145	
	L18		16,300	116	141	114	143	
	L24		21,500	164	131	161	134	
	L30		26,900	186	145	185	145	Size 2
	L36		32,600	232	141	229	142	
	L48		43,000	328	131	322	134	
	L60		53,900	380	142	372	145	Size 3

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DELIVERED LUMENS (CONTINUED)

LUMEN OUTPUT MULTIPLIER FOR OPTIC ORDERING CODE		
Optic Ordering Code	Optic Description	Lumen Output Multiplier
CW	No Lens (120°)	108%
DW	Diffuse Optic Wide (120°)	100%
DN	Diffuse Optic Narrow (55°)	101%
DA	Diffuse Optic Aisle (30°)	102%

Delivered Lumens (in Table on Previous Page) x Lumen Output Multiplier = Delivered Lumens for fixture with CW, DN, or DA Lens

PROJECTED LUMEN MAINTENANCE

Calculation Method	Ambient Temp	25,000 hrs	50,000 hrs	60,000 hrs
TM-21-11	25C/77F	0.96	0.94	0.93
	40C/104F	0.95	0.91	0.90
TM-21-21	25C/77F	0.96	0.94	0.93
	40C/104F	0.95	0.91	0.89

AMBIENT TEMPERATURE RATINGS

Lumen Code	L09	L12	L15	L18	L24	L30	L36	L48	L60
Max Ambient	55°C	55°C	55°C	55°C	55°C	55°C	55°C	55°C	55°C
Min Ambient	-30°C	-30°C	-30°C	-30°C	-30°C	-30°C	-30°C	-30°C	-30°C

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NX LIGHTING CONTROLS

NX LIGHTING CONTROLS™

		Control Option Ordering Logic & Description	Networkable	Standalone Grouping	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	Control Option Components
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 & 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 & Photocell Sensor	–	✓	–	✓	✓	✓	✓	✓*	Low Max: 8ft Med. Max: 20ft High Max: 40ft	NXC-WHS20
	WSPD360	End Mounted WSPDEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓			Max: 45ft	WSPDEMUNV
	WSPDA	End Mounted WSPDEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell and Aisle Lens	–	–	–	✓	✓	✓			Max: 45ft	WSPDEMUNV
	WSPDBT360	End Mounted Bluetooth® Programmable, WSPDBEMUNV Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	Max: 45ft	WSPDBEMUNV
	WSPDBTA	End Mounted Bluetooth® Programmable, WSPDBEMUNV Occupancy Sensor with Automatic Dimming Photocell and Aisle Lens	–	–	–	✓	✓	✓	✓	✓	Max: 45ft	WSPDBEMUNV
	OS1360	End Mounted WSPEMUNV PIR On/Off Occupancy/ Daylight Sensor with 360° Lens	–	–	–	✓	✓	–	On/Off Only No Dim	–	Max: 45ft	WSPEMUNV
	OS1A	End Mounted WSPEMUNV PIR On/Off Occupancy/ Daylight Sensor with Aisle Lens	–	–	–	✓	✓	–	On/Off Only No Dim	–	Max: 45ft	WSPEMUNV
Other Independent Control	OS	End Mounted LSXR PIR On/Off Sensor 360° High Mount Sensor	–	–	–	✓	-	–	On/Off Only No Dim	–	Max: 45ft	LSXR6LT
	OCS	End Mounted LSXR PIR On/ Off Occupancy/Daylight Sensor 360° High Mount Sensor	–	–	–	✓	✓	–	On/Off Only No Dim	–	Max: 45ft	LSXR6PLT
	ODS	End Mounted LSXR PIR Dimming Occupancy Sensor 360° High Mount Sensor	–	–	–	✓	–	✓		–	Max: 45ft	LSXR6HLLT

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

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CONTROLS

DEFAULT SETTINGS

NX Wirelss & 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: HubbN3T!"	Enabled

NX Independent - WSPDBT360/WSPDBTA		
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 - WSPD360/WSPDA		
Occupancy Sensor Timeout	8 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	50%
Full Off Timeout	Disabled
Daylight Sensor	Disabled

PRODUCT IMAGES
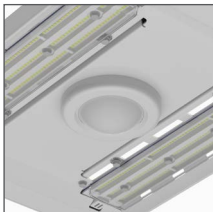
NXWHM / NXEHM

NXCHM

**WSPD360 / WSPDA
WSPDBT360 / WSPDBTA
OS1350 / OS1A**

**OS / OCS
ODS**

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.
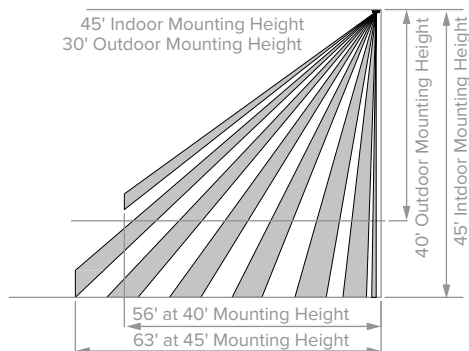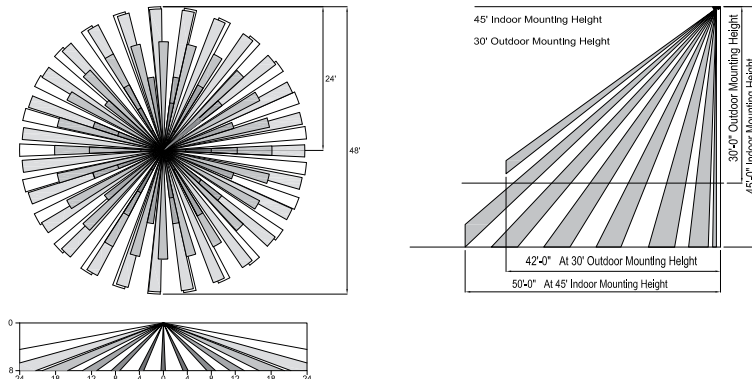
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CONTROLS (CONTD.)

COVERAGE PATTERNS

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

45' Indoor Mounting Height
30' Outdoor Mounting Height

40' Outdoor Mounting Height
45' Intdoor Mounting Height
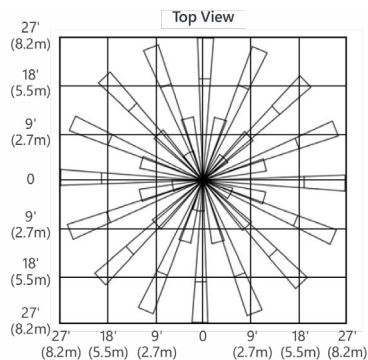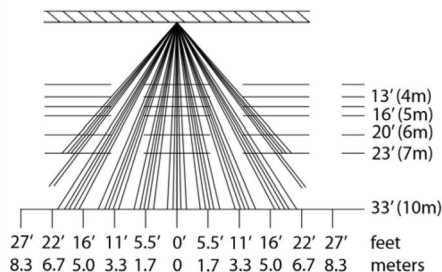
56' at 40' Mounting Height
63' at 45' Mounting Height

Sensor lens coverage and detection patterns
when mounted at 40ft and 45ft with Standard lens
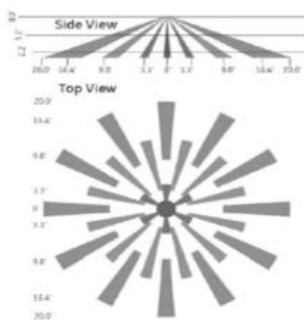
WSPD360/WSPDA/WSPDBT360/
WASDBTA/OS1360/OS1A

45' Indoor Mounting Height
30' Outdoor Mounting Height

30'-0" Outdoor Mounting Height
45'-0" Indoor Mounting Height

42'-0" At 30' Outdoor Mounting Height
50'-0" At 45' Indoor Mounting Height

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

Side View Sensor mounted 33' (10m) from floor

— 13' (4m)
— 16' (5m)
— 20' (6m)
— 23' (7m)

33' (10m)

| 27' | 22' | 16' | 11' | 5.5' | 0' | 5.5' | 11' | 16' | 22' | 27' | feet |
| 8.3 | 6.7 | 5.0 | 3.3 | 1.7 | 0 | 1.7 | 3.3 | 5.0 | 6.7 | 8.3 | meters |

Top View

27' (8.2m)
18' (5.5m)
9' (2.7m)
0
9' (2.7m)
18' (5.5m)
27' (8.2m)

27' (8.2m) 18' (5.5m) 9' (2.7m) 0 9' (2.7m) 18' (5.5m) 27' (8.2m)

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

Side View

Top View

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

Side View

Top View

PIR sensor coverage tested
as per NEMA WD7-2011

ECH
ECHELĂN HIGH PERFORMANCE HIGH BAY
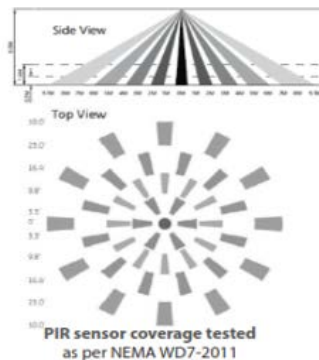
OTHER LIGHTING CONTROLS
OS, OCS, ODS (THIRD PARTY)
COVERAGE PATTERNS

HIGH MOUNT 360° LENS

LOW VIEW

HIGH VIEW
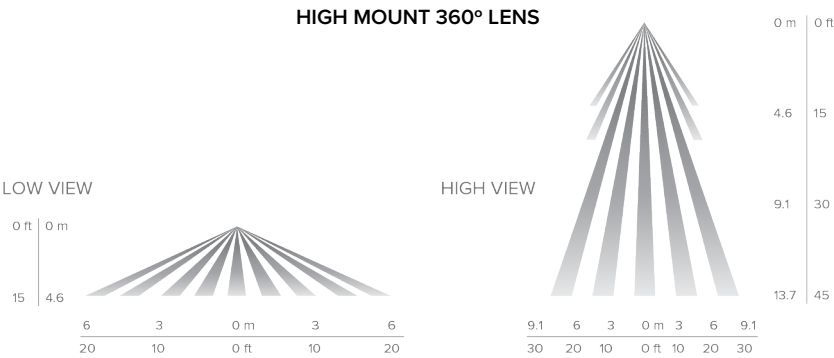
FUNCTIONALITY AND DEFAULT SETTINGS

| Name	Description	Minimum Value	Maximum Value	Default Values for Cat Logic Choice		
				OS	OCS	ODS
Occupancy Time Delay (1 Pole)	The length of time the sensor will keep the lights controlled by relay 1 on at full bright after it last detects occupancy, assuming Minimum On Time has been met.	30 sec	30 min	10 min	10 min	10 min
Occupancy Time Delay (2 Pole)	The length of time the sensor will keep the lights controlled by relay 2 on after it last detects last occupancy, assuming Minimum On Time has been met.	N/A	30 min	10 min	10 min	10 min
Photocell Set-Point	The target light level (at the sensor) that is to be maintained.	Auto	64fc	N/A	N/A	4fc
Sunlight Discount Factor	Value used to improve the tracking for accuracy of a sensor with a photocell during periods of high daylight. Decreasing the value will lower the controlled level of the lights.	x/1	x/10	N/A	N/A	x/1
Dimming Range Max (High Trim)	The maximum output level of a sensor with dimming.	Off	10 VDC	N/A	10 VDC	10 VDC
Dimming Range Low (Low Trim)	The minimum output level to which the photocell will dim the lights.	Off	10 VDC	N/A	1 VDC	1 VDC
Dual Zone Photocell %	Relative value of photocell set-point that is used to control relay 2.	110%	200%	N/A	N/A	150%
Dim to Off Occupancy Time Delay	After Occupancy Time Delay has expired, this setting specifies the amoutn of time lights are held at minimum dim before turning off.	0 sec	Never Off	0 sec	0 sec	0 sec

COL_ECH_SPEC_R32

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ECH
ECHELĂN HIGH PERFORMANCE HIGH BAY
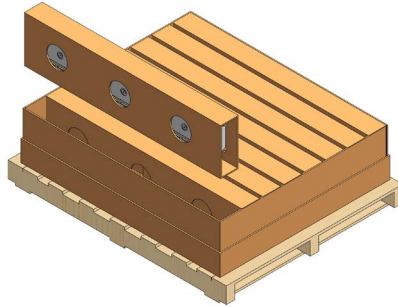
PACKAGING/SHIPPING INFO

JOB PACKAGING IS STANDARD
Note: Orders less than 14 fixtures are typically sent packaged Individually

SLEEVE
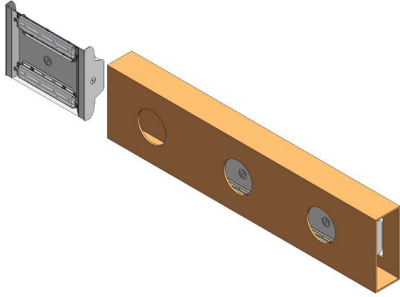
LAYER

PALLET

JOB PACK DETAILS			
Size	Fixtures per Sleeve	Sleeves per Layer	Layers per Pallet
1	3	8	3
2	1	8	3
3	1	8	3

JOB PACK PALLET QTYS			
		Pallet Dimensions	
Size	Standard Fixture Qty	L (in) x W(in)	H (in)
1	72	52 x 42	39.0
2	24	52 x 42	39.0
3	24	52 x 42	54.0

JOB PACK PALLET QTYS FOR FIXTURES W/ OPTIONS					
Fixture Options					
Cord	EL Pack	Bottom Sensor	Bottom Mt Sensor & Cord	Side Mt Sensor	Side Mt Sensor & Cord
63	48	72	63	48	48
21	21	24	21	24	21
21	21	24	21	24	21

PACKAGED INDIVIDUALLY: OPTION SELECTION PI
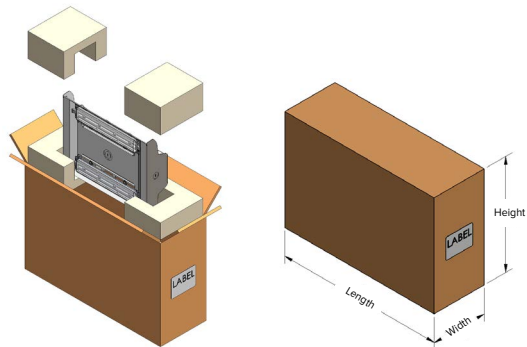
Packaged Individually Box Dimensions			
Size	Length (in)	Width (in)	Height (in)
1	22.3	7.5	15.0
2	36.5	7.5	15.0
3	39.0	9.5	22.0

Packaged Individually Pallet Qty & Dimensions			
Size	Qty	L (in) x W (in)	Height (in)
1	30	52 x 42	49.0
2	20	52 x 42	48.0
3	6	52 x 42	44.5
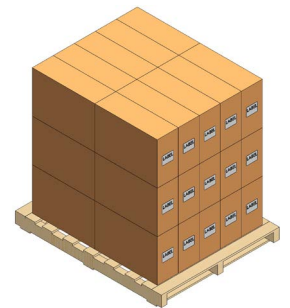
Note: Packaged Individually dimensions do not change if sensor, cord, or EMBB option is added to fixture

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ECH
ECHELĂN HIGH PERFORMANCE HIGH BAY

DIMENSIONS

ECH SIZE 1
L09, L12, L15, L18 & L24 LUMEN OUTPUT

Max Weight: 10 lbs

TOP VIEW — 13.75 in. × 10.88 in.

FRONT VIEW — 3.46 in.

SIDE VIEW — 13.75 in.
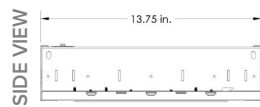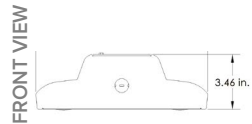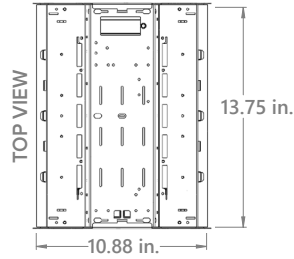
ECH SIZE 2
L30, L36 & L48 LUMEN OUTPUT

Max Weight: 20 lbs

TOP VIEW — 27.30 in. × 10.88 in.

FRONT VIEW — 3.60 in.

SIDE VIEW — 27.30 in.
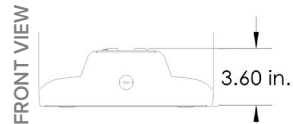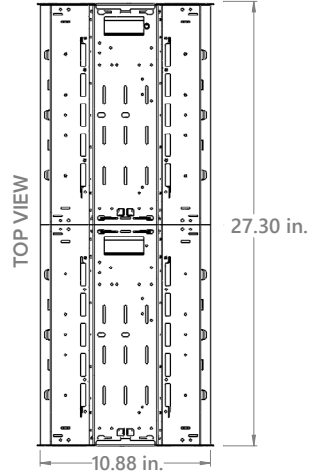
ECH SIZE 3
L60 LUMEN OUTPUT

Max Weight: 22 lbs

TOP VIEW — 27.30 in. × 15.58 in.

FRONT VIEW — 3.60 in.

SIDE VIEW — 27.30 in.

Current

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ECH
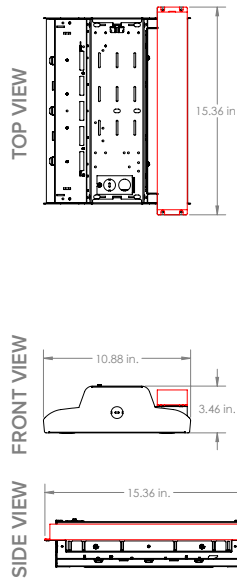ECHELĂN HIGH PERFORMANCE HIGH BAY
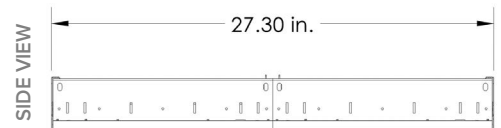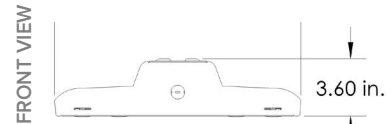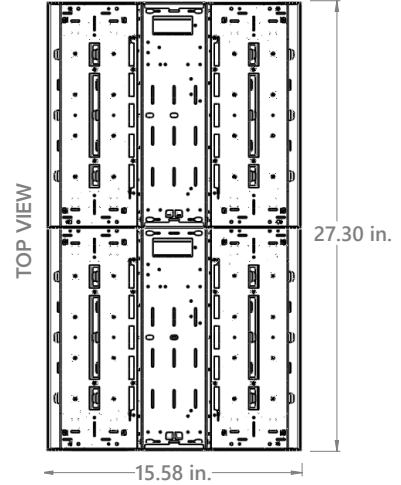
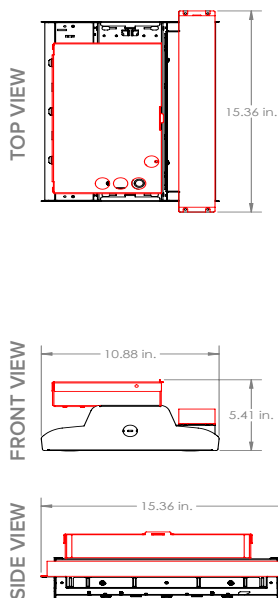## EMERGENCY BATTERY INFORMATION

Lumens in Emergency Mode = **LPW of Fixture** x **EM Pack Wattage (20 watts)**

ECH SIZE 1
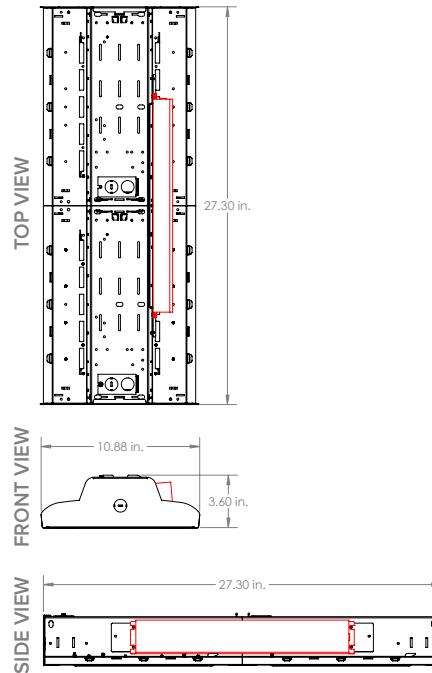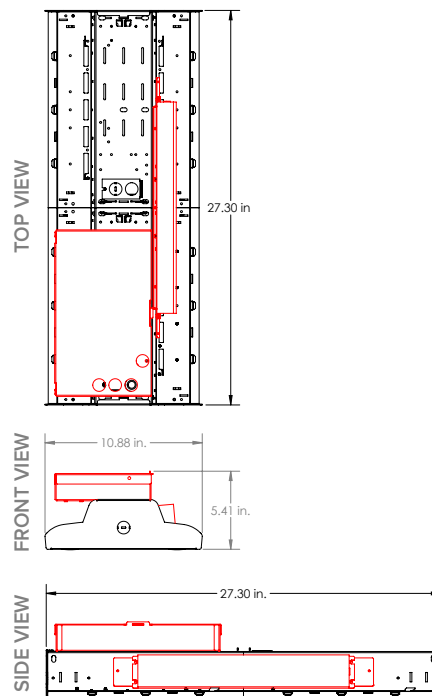L09, L12, L15, L18 & L24 LUMEN OUTPUT
VOLTAGE: U, 120V, & 277V

TOP VIEW — 15.36 in
FRONT VIEW — 10.88 in. / 3.46 in.
SIDE VIEW — 15.36 in.

VOLTAGE: 347V & 480V

TOP VIEW — 15.36 in.
FRONT VIEW — 10.88 in. / 5.41 in.
SIDE VIEW — 15.36 in.

ECH SIZE 2
L30, L36 & L48 LUMEN OUTPUT
VOLTAGE: U, 120V, & 277V

TOP VIEW — 27.30 in.
FRONT VIEW — 10.88 in. / 3.60 in.
SIDE VIEW — 27.30 in.

VOLTAGE: 347V & 480V

TOP VIEW — 27.30 in
FRONT VIEW — 10.88 in. / 5.41 in.
SIDE VIEW — 27.30 in.

ECH SIZE 3
L60 LUMEN OUTPUT
VOLTAGE: U, 120V, & 277V

TOP VIEW
FRONT VIEW — 6 in.
SIDE VIEW

VOLTAGE: 347V & 480V

TOP VIEW
FRONT VIEW
SIDE VIEW

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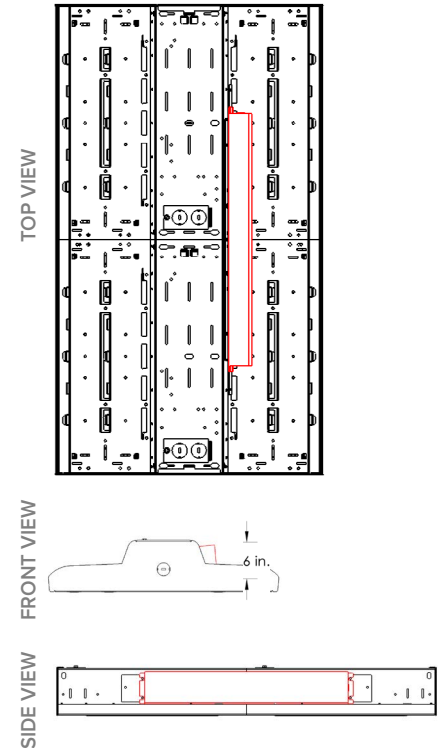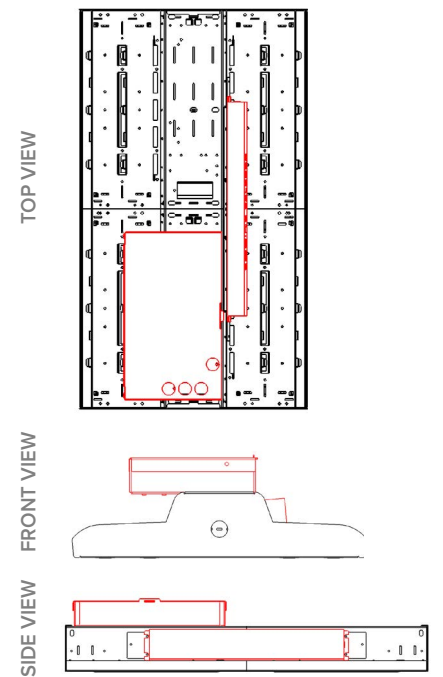
PHOTOMETRY

ECH1-840-L24-DW-EDU-U4

LUMINAIRE DATA

Description	LED Highbay; 24,000 Lumens; Diffuse Optic Wide; Uplight
Delivered Lumens	24,001
Watts	164
Efficacy	146
Spacing Criterion	0°= 1.20 90 = 1.18

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	7319	30.3
0–40	11697	48.5
0–60	19467	80.9
0–90	23943	99.8
0–180	24001	100

POLAR GRAPH

90-270 deg plane
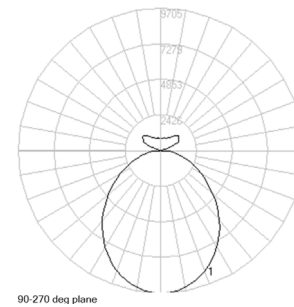
ECH1-840-L24-DN-EDU

LUMINAIRE DATA

Description	LED Highbay; 24,000 Lumens; Diffuse Optic Narrow
Delivered Lumens	24,240
Watts	164
Efficacy	148
Spacing Criterion	0°= 1.36 90°= .94

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	11280	46.5
0–40	16767	69.2
0–60	22365	92.3
0–90	24153	99.6
0–180	24240	100

POLAR GRAPH

Maximum Candela = 15730   Located At Horizontal Angle = 5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (90 - 270)
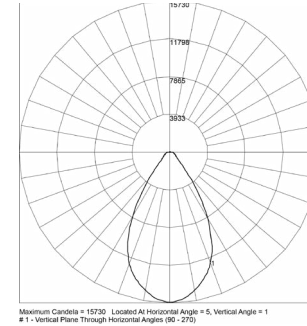
ECH1-840-L24-DA-EDU

LUMINAIRE DATA

Description	LED Highbay; 24,000 Lumens; Diffuse Optic Aisle
Delivered Lumens	24,480
Watts	164
Efficacy	149
Spacing Criterion	0°= 1.32 90°= .62

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	12337	50.4
0–40	16790	68.6
0–60	22082	90.2
0–90	24367	99.5
0–180	24480	100

POLAR GRAPH

Maximum Candela = 21645   Located At Horizontal Angle = 0, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (90 - 270)

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