

ECHELĂN HIGH PERFORMANCE HIGH BAY

DATE: LOCATION: TYPE: PROJECT: CATALOG #:

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°C up to 55°C
- 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





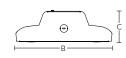












Typical Dimensions and Weights								
Sizes	(A) Length Inches	(B) Width Inches	(C) Height Inches	Weight (lbs)				
1	13.75	10.88	3.46	10.0				
2	27.30	10.88	3.60	20.0				
3	27.30	15.58	3.60	22.0				

Size dependent on Lumen code. See dimensions page.

CONTROL TECHNOLOGY











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

WARRANTY

• 5 year warranty. See <u>HLI Solutions Standard</u> Warranty for additional information.





ORDERING GUIDE



ECHELĂN HIGH PERFORMANCE HIGH BAY

DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

= Service Program Limit of 800 luminaires



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

ECH1	_			_			_			_			_			-[-
Model		CRI/C	ССТ		Lum	en Output		Optic	:s		Dri	ver		Voltag	ge		Mou	nting	
ECH1		740	4000K 70 CRI		L09	9,000 lm		cw	No Lens (120°)		ED	0-10V Dimming		U ⁶	120-277V		ST	Standard	1
High		750	5000K 70 CRI		L12	12,000 lm		DW ₉	Diffuse Optic Wide (120°)		Е	Fixed Output		120	120V	iΙ	SM	Surface Mount	
Performance High Bay		830	3000K 80 CRI		L15	15,000 lm		DN ⁹	Diffuse Optic Narrow (55°)					277	277V	H	PM	Pendant Mount	
l		835	3500K 80 CRI		L18	18,000 lm		DA ⁹	Diffuse Optic Aisle (30°)					347	347V	il			
		840	4000K 80 CRI		L24	24,000 lm								480	480V	H			
		850	5000K 80 CRI		L30	30,000 lm										il			
		935	3500K 90 CRI		L36	36,000 lm										il			
		940	4000K 90 CRI		L48	48,000 lm										H			
					L60	60,000 lm										il			

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

NX Wired Dual RJ45 SmartPORTS and NXEHM Integral NXSMP2-HMO PIR Occupancy

Sensor with Automatic Dimming Photocell

and Bluetooth Programming

Independent Control

WSPD360

NXCHM NX Connect NXC-WHS20 Wireless High Bay Occupancy & Photocell Sensor 8,12

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

Bluetooth® Programmable, WSPDBEMUNV WSPDRTA

PIR Occupancy Sensor with Automatic

Dimming Photocell and Aisle Lens On/Off WASP2 Occupancy/Daylight Sensor,

1-relay, 360 lens

OS1A On/Off WASP2 Occupancy/Daylight Sensor,

1-relay, Aisle lens

Other

OS1360

Independent Control

On/Off Sensor 360° high mount sensor 7 os

On/ Off Occupancy/ Daylight Sensor 360° ocs

high mount sensor 7

ODS Dimming Occupancy Sensor 360° high

mount sensor 7

Options (Leave Blank If None Needed)

Packaged Individually

20W Emergency Battery Pack (CEC Title 20 Compliant) Installed ^{1,2,15} ELL₂₀

30W Emergency Battery Pack (CEC Title 20 $\,$ ELL30 Compliant) installed 16

DTS Dimming Bypass Module 11

Buy American Act (FAR 52.225-9) Compliant BAA

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)

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

C6TI 20 6' Cord with 20A TL Plug (Only available when

specifying discrete voltage code 120, 277, 347 or 480) 4

 6^{\prime} Cord with 15A straight blade plug (Only C6P151

available when specifying discrete voltage code 120, 277 or 347) $^{\rm 5}$

Specialty Modular Cord Sets

ACS-MC Flex + 10ft 2EA 10-LW 277/480 # LE

16AWG 13

NF 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 IJ4 4000 lumens

- ELL20 with 347/480V not available with mounting options SM and
- 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
- Only available with 120V, 277V or 347V
- Cords/Plugs and Third Party Sensors not available with the $\ensuremath{\mathsf{U}}$ 6 voltage code option
- Third party sensor are programmable and sensors are typically side
- NX Connect devices can be customized with the NX Connect app, available on the Apple® App Store. NX Connect sensors are typically bottom mounted.
- DW is polycarbonate, DN and DA are acrylic
- ST mounting option only
- For 347/480V contact factory
- 12 Uplight max ambient temperature = +40°C
- Only available with 277V or 480V 14
- High mount lens provided. For low, medium, or aisle distribution order appropriate lens accessory and field change
- To determine the lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
- Please consult factory on leadtime for this option





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ACCESSORY ORDERING GUIDE

	MOUNTING AND AC	CESSORIES		
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 $\%$ threaded conduit. (conduit not included).	PM = ¾ Pendant Mount Kit	SKU: 93165273 Description: 34 Pendant Mounting Kit	
	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	

W	IRE 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 (120°)				
93164587	ECH-DN OPTIC KIT	DN	Diffuse Optic Narrow (55°)ractors in kit				
93164588	ECH-DA OPTIC KIT	DA	Diffuse Optic Aisle (30°)				

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

		DELIVER	RED LUMENS AND	ELECTRICAL CH	ARACTERISTICS F	OR ECH1			
	Ordering Code		Delivered	120-	277V	347/4	180V	- D. d.	
CRI/CCT	Lumen	Optic	Lumens	Watts	LPW	Watts	LPW	Body	
	L09		9,100 49		186	51	178		
	L12		12,100	66	183	68	178	Ciro 1	
	L15		15,100	85	178	86	176	Size 1	
	L18		18,200	106	172	104	175		
740 750	L24	DW	24,000	147	163	144	167		
730	L30		30,000	168	179	170	176		
	L36		36,400	212	172	209	174	Size 2	
	L48		48,000	294	163	289	166	1	
	L60		60,300	343	176	336	179	Size 3	
	L09		8,500	53	160	56	152		
	L12		11,400	72	158	74	154		
	L15		14,300	94	152	93	154	Size 1	
	L18		17,200	116	148	114	151		
830	L24	DW	22,600	164	138	161	140		
000	L30	5	28,300	186	152	185	153		
	L36		34,300	232	148	229	150	Size 2	
	L48		45,200	328	138	322	140	- 0.20 2	
	L60		56,700	380	149	372	152	Size 3	
	L09		8,800	53	166	56	157	Size S	
	L12		11,900	72	165	74	161	Size 1	
	L12		14,800	94	157	93	159		
				116		114			
005	L18	DW	17,800		153		156		
835	L24	DW	23,500	164	143	161	146		
	L30		29,300	186	158	185	158		
	L36		35,600	232	153	229	155	Size 2	
	L48		46,900	328	143	322	146	C: 2	
	L60		58,800	380	155	372	158	Size 3	
	L09		9,100	53	172	56	163		
	L12		12,100	72	168	74	164		
	L15		15,100 94		161	93	162	Size 1	
840	L18		18.200	116	157	114	160		
850	L24	DW	24,000	164	146	161	149		
	L30		30,000	186			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	
	L09		7,900	53	149	56	141		
	L12		10,600	72	147	74	143		
	L15		13,200	94	140	93	142	Size 1	
	L18		15,900	116	137	114	139		
935	L24	DW	21,000	164	128	161	130	1	
	L30		26,200	186	141	185	142		
	L36		31,800	232	137	229	139	Size 2	
	L48		41,900	328	128	322	130		
	L60		52,600	380	138	372	141	Size 3	
	L09		8,100	53	153	56	145	5120 5	
	L12		10,900	72	151	74	147	†	
	L15		13,500	94	144	93	145	Size 1	
	L18		16,300	116	141	114	143	31201	
940	L24	DW	21,500	164	131	161	134	1	
34U	L30	DVV			145	185	145		
			26,900	186				C: 2	
	L36		32,600	232	141	229	142	Size 2	
	L48		43,000	328	131	322	134	<u> </u>	
	L60		53,900	380	142	372	145	Size 3	





ECHELĂN HIGH PERFORMANCE HIGH BAY

DELIVERED LUMENS (CONTINUED)

LUMEN OUTPUT MULTIPLIER FOR OPTIC ORDERING CODE						
Optic Ordering Code	· Ontic Description					
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)

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
TNA 24 41	25C/77F	0.96	0.94	0.93
TM-21-11	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								
Min Ambient	-30°C								





NX LIGHTING CONTROLS



	0					Contro	l Option F	unctiona	litv				
		ption Ordering Logic & Description	Networkable	Standalone Grouping	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	Control Option Components	
	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	-	-	✓	✓	✓	-	6	NXRM2-H
NX Wireless	NXWHM	NX Networked Wireless Enabled Integral NXSMP2- HMO Wireless High Bay Occupancy & Photocell Sensor	✓	✓	✓	√	✓	✓	√	✓	Max: 45ft	State and A	NXSMP2-HMO
	NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor	✓	✓	✓	-	-	✓	√	/**	-		NXFSP
NX Wired	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
	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	() _b	WSPDEMUNV
	WSPDA	End Mounted WSPDEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell and Aisle Lens	-	-	-	✓	✓	√	-	-	Max: 45ft		WSPDEMUNV
NX Independent	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	() _b	WSPEMUNV
	OS1A	End Mounted WSPEMUNV PIR On/Off Occupancy/ Daylight Sensor with Aisle Lens	-	-	-	✓	✓	-	On/Off Only No Dim	-	Max: 45ft		WSPEMUNV
	os	End Mounted LSXR PIR On/Off Sensor 360° High Mount Sensor	-	_	-	/	-	_	On/Off Only No Dim	-	Max: 45ft		LSXR6LT
Other Independent Control	ocs	End Mounted LSXR PIR On/ Off Occupancy/Daylight Sensor 360° High Mount Sensor	-	-	-	✓	✓	-	On/Off Only No Dim	-	Max: 45ft	4	LSXR6PLT
	ODS	End Mounted LSXR PIR Dimming Occupancy Sensor 360° High Mount Sensor	-	-	-	√	-	√		-	Max: 45ft	4	LSXR6HLLT

 $^{^{\}ast}$ 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

	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7 Minutes
g .	Occupancy Sensor Timeout	15 Minutes
Wire	Occupied Dim Level	100%
⊗ SS	Unoccupied Dim Level	0% (OFF)
NX Wirelss & Wired	Daylight Sensor	Disabled
×	Bluetooth	Enabled
	2.4GHz Wireless Mesh	Off
	"Passcode Factory Passcode: HubbN3T!"	Enabled
ΑT	Occupancy Sensor	Enabled
ent -	Occupancy Sensor Sensitivity	7 Minutes
ende	Occupancy Sensor Timeout	8 Minutes
NX Independent PDBT360/WSPD	Occupied Dim Level	100%
NX Independent - WSPDBT360/WSPDBTA	Unoccupied Dim Level	0% (OFF)
× ×	Daylight Sensor	Disabled

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

7 ¥	Occupancy Sensor Timeout	8 Minutes		
NX Independent - WSPD360/WSPDA	Occupied Dim Level	100%		
	Unoccupied Dim Level	50%		
	Full Off Timeout	Disabled		
ĝ≱	Daylight Sensor	Disabled		

PRODUCT IMAGES



NXWHM / NXEHM



NXCHM



WSPD360 / WSPDA WSPDBT360 / WSPDBTA OS1350 / OS1A



CATALOG #:

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.

currentlighting.com/columbialighting



Apple iOS





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DATE: LOCATION:

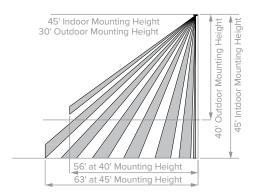
TYPE: PROJECT:

CATALOG #:

CONTROLS (CONTD.)

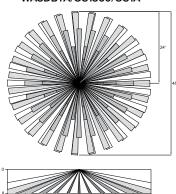
COVERAGE PATTERNS

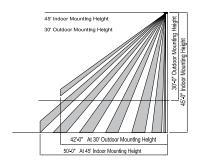
NXWHM (NXSMP2-HMO SENSOR) NXEHM (NXSMP2-HMO)



Sensor lens coverage and detection patterns when mounted at 40ft and 45ft with Standard lens

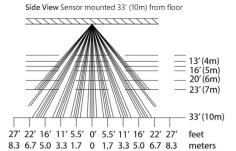
WSPD360/WSPDA/WSPDBT360/ WASDBTA/OS1360/OS1A

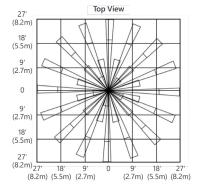




NXCHM (NXC-WHS20 SENSOR) HIGH LENS: 12.2M (40FT)

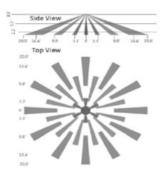
27ft Radius/54ft Diameter





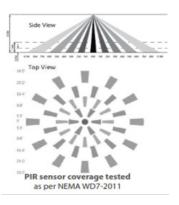
NXCHM (NXC-WHS20 SENSOR) LOW LENS: 2.5M (8FT)

20ft Radius/40ft Diameter



NXCHM (NXC-WHS20 SENSOR) MED LENS: 6M (20FT)

30ft Radius/60ft Diameter







ECHELĂN HIGH PERFORMANCE HIGH BAY

OTHER LIGHTING CONTROLS

OS, OCS, ODS (THIRD PARTY)
COVERAGE PATTERNS



FUNCTIONALITY AND DEFAULT SETTINGS

N	D	Minimum	Maximum	Default Values for Cat Logic Choice		
Name	Description	Value	Value	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



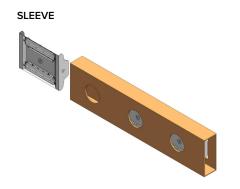
ECHELĂN HIGH PERFORMANCE HIGH BAY

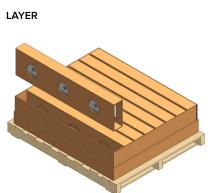
DATE:	LOCATION:
TYPE:	PROJECT:

PACKAGING/SHIPPING INFO

JOB PACKAGING IS STANDARD

Note: Orders less than 14 fixtures are typically sent packaged Individually





CATALOG #:

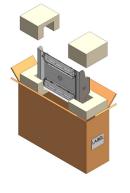


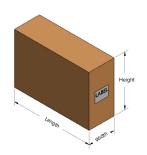
		JOB PACK DETAILS	
Size	Fixtures per Sleeve	Sleeves per Layer	Layers per Pallet
1	3	8	3
2	1	8	3
3	1	8	3

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 $\frac{1}{2} \frac{1}{2} \frac{1$





ECHELĂN HIGH PERFORMANCE HIGH BAY

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

DIMENSIONS

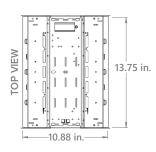
ECH SIZE 1

FRONT VIEW

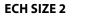
SIDE VIEW

L09, L12, L15, L18 & L24 LUMEN OUTPUT

Max Weight: 10 lbs

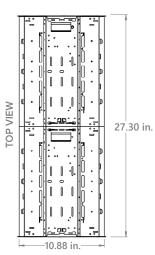


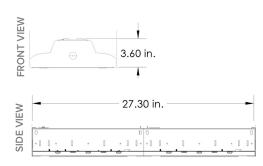
13.75 in.



L30, L36 & L48 LUMEN OUTPUT

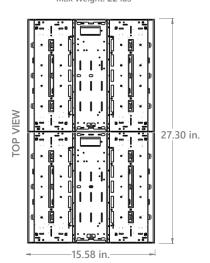
Max Weight: 20 lbs

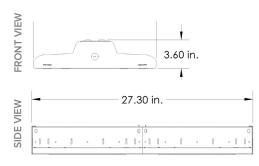




ECH SIZE 3 L60 LUMEN OUTPUT

Max Weight: 22 lbs









ECHELĂN HIGH PERFORMANCE HIGH BAY

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

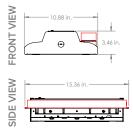
EMERGENCY BATTERY INFORMATION

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

ECH SIZE 1

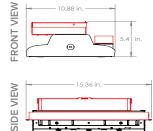
L09, L12, L15, L18 & L24 LUMEN OUTPUT VOLTAGE: U, 120V, & 277V





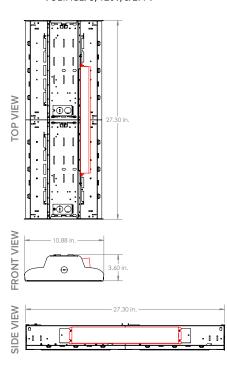
VOLTAGE: 347V & 480V



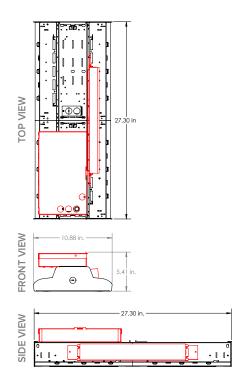


FCH SIZE 2

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

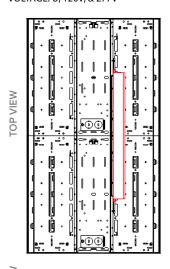


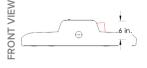
VOLTAGE: 347V & 480V

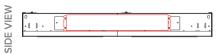


ECH SIZE 3

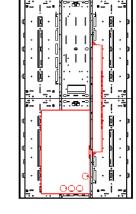
L60 LUMEN OUTPUT VOLTAGE: U, 120V, & 277V



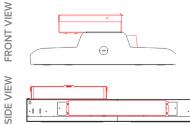




VOLTAGE: 347V & 480V



TOP VIEW







DATE:	LOCATION:
TYPF.	PRO JECT:

CATALOG #:

PHOTOMETRY

ECH1-840-L24-DW-EDU-U4

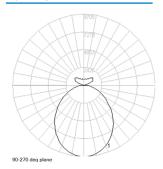
LUMINAIRE DATA

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



ECH1-840-L24-DN-EDU

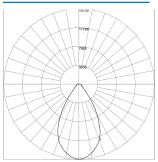
LUMINAIRE DATA

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



ECH1-840-L24-DA-EDU

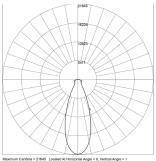
LUMINAIRE DATA

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, Vertice # 1 - Vertical Plane Through Horizontal Angles (90 - 270)