

LOCATION: DATE: TYPE: PROJECT:

CATALOG #:

FEATURES

- Uplight options from 1,000 to 4,000 lumens
- 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 unconditioned spaces through a 55°C ambient temperature rating and a -30°C rating for refrigerated spaces
- Wide lumen range (up to 60K) to accommodates various ceiling heights, fixture spacings, and specifications
- · Optical distribution choices deliver the right amount of light to the right location for your design requirements (horiz., vert., max/min)
- Integrated sensor options for code compliance, grouping of fixtures, increased energy savings, and connection to NX Lighting Controls systems
- · Optimized bulk packaging to minimize job site space requirements and ease waste removal

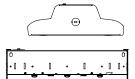














SERVICE PROGRAM



Typical Dimensions and Weights						
Sizes	Length (in)	Width (in)	Height (in)	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

ELECTRICAL (CONTINUED)

- · 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 Third Party) 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 wire or wireless connectivity featuring functionality including networkable, standalone grouping, scheduling, occupancy, daylight harvesting, dimming, ON/OFF control for NX system deployments
- · NX Connect is a standalone wireless deployment for room based applications using wireless enabled and battery operated devices featuring functionality including standalone grouping, occupancy, daylight harvesting, dimming and ON/OFF control

CERTIFICATIONS

- · All luminaires are built to UL1598 standard
- · Damp location labeling is standard
- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC® website for specific product qualifications at www.designlights.org
- · This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 09/01/2022

WARRANTY

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

KEY DATA				
Lumen Range	9,000-60,000			
Wattage Range	49-380			
Efficacy Range (LPW)	up to 201			
Reported Life (Hours)	L93 / 60,000			





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DATE: LOCATION: TYPE: PROJECT:

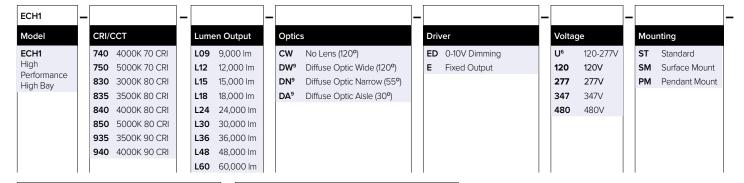
Con ico Program

ORDERING GUIDE

= Service Program QS

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

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Integrated Sensors (Leave Blank If None Needed)

NX Networked – Wireless

NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor 13, 14

NXWHM NX Networked Wireless Enabled Integral

NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming ^{13, 14}

NX Networked - Wired

NXE NX Wired Dual RJ45 SmartPORTS,

without Sensor 13,14

NXEHM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocel

Sensor with Automatic Dimming Photocell and Bluetooth Programming 13, 14, 15

NX Connect® – Wireless

NXCHM⁸ NX Connect NXC-WHS20 Wireless High Bay Occupancy & Photocell Sensor ¹⁷

Third Party Sensors

OS7 On/Off Sensor 360° high mount sensor
OCS7 On/ Off Occupancy/ Daylight Sensor
360° high mount sensor

ODS⁷ Dimming Occupancy Sensor 360° high

mount sensor

Options (Leave Blank If None Needed)

PI Packaged Individually

ELL20¹ Emergency Battery Pack (EM Pack), 20 watt

DTS² Dimming Bypass Module

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 ¹⁶
C00488 6', 4 wire flexible metal conduit ¹⁶
C00588 6', 5 wire flexible metal conduit ¹⁶

Cord with Plug Options (See NEMA Table Below)

C6TL15³ 6' Cord with 15A TL Plug (Only available when specifying discrete voltage codes 120 or 277)

C6TL20⁴ 6' Cord with 20A TL Plug (Only available when specifying discrete voltage code 120, 277, 347 or 480)

C6P151⁵ 6' Cord with 15A straight blade plug (Only available when specifying discrete voltage code 120, 277 or 347)

Uplight (nominal lumens) 10, 11, 12

U1 1000 lumens U2 2000 lumens U3 3000 lumens U4 4000 lumens

Notes:

- ELL20 and 347/480V not available with mounting SM and PM.
- 2 DTS not available with 347/480V.
- 3 Only available with 120V or 277V
- 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 Only available with 120-277V
- 12 Only available up to 48,000 lumens

Contact manufacturer for lead time on Options

NX In-Fixture Control Options:

- 13 NXWE and NXEHM cannot be used with surface mount versions
- 14 NX is not available with ESD, LUTH, or DALIP driver options
- 15 NX combined with Spectrasync is not available in 347V
- 16 For NX control and Flex Wire together, consult factory
- 7 NXC-WHS20 sensor comes with the High Lens as standard. Low and Medium lenses can be ordered separately and field changed

NEMA PLUG TYPE TABLE						
Voltage	TL15	TL15 TL20				
Voltage	15A Twist Lock	20A Twist Lock	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			







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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 = 3/4" Pendant Mount Kit	SKU: 93165273 Description: 34" 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	93146133			



WIRE GUARDS							
Description Ordering SKU							
ECH-Size 1 WIRE GUARD WHT-5PK	93306751						
ECH-Size 2 WIRE GUARD WHT-5PK	93306752						
ECH-Size 3 WIRE GUARD WHT-5PK	93306753						

Each pack contains wire guards that cover 5 fixtures of the size indicated

CONTROLS



NX WIRELESS

The NX Wireless platform provides solutions for both indoor and outdoor applications. It is the ideal solution for both new and retrofit applications with wireless options for radio or enabled sensors. NX enabled luminaires take the complexity out of installation while

providing simple code compliance. NX sensors come integrated with both PIR occupancy sensing technologies and daylight sensing.



NX WIRED

NX Wired options are ideal for indoor spaces and allow for plug and play CAT5 connections between luminaires. NX wired luminaires can also be paired with integral NX sensors, NX wired room devices or NX wireless devices for hybrid deployments



NX CONNECT

The NX Connect system is a complete standalone wireless solution for small to medium retrofit applications. It delivers basic energy code compliance with reduced complexity and labor costs. Enabled luminaires pair with the NX Connect battery-operated wall stations (maximum of 40 devices per Group) using mobile App.

			Control Option Functionality											
	Control Option Ordering Logic & Description		Default Settings	Networkable	Standalone Grouping	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		ol Option ponents
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	_	✓	✓	>	_	_	\	✓	✓	-	8	NXRM2-H
TVX WITEIE33	NXWHM	NX Networked Wireless Enabled Integral NXSMP2- HMO Wireless High Bay Occupancy & Photocell Sensor	See Below	✓	✓	/	✓	✓	\	✓	✓	Max: 45ft	6	NXSMP2-HMO
	NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor		✓	✓	/	-	-	✓	✓	/**	-		NXDSP
NX Wired	NXEHM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	See Below	✓	✓	✓	✓	✓	✓	✓	✓	Max: 45ft		NXDSP NXSMP2-HMO
NX Connect	NXCHM	NX Connect NXC-WHS20 Wireless High Bay Occupancy & Photocell Sensor	See Below	-	✓	-	✓	✓	/	✓	/ *	Low Max: 8ft Med. Max: 20ft High Max: 40ft		NXC-WHS20

^{*} Requires use of NX Connect App available for download from Apple app store

DEFAULT SETTINGS

	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7 Minutes
D _R	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
NX Wirelss & Wired	Unoccupied Dim Level	0% (OFF)
lirels	Daylight Sensor	Disabled
	Bluetooth	Enabled
_	2.4GHz Wireless Mesh	Off
	"Passcode Eactory Passcode: HubbN3TI"	Enabled

	Settling/Dwell Time	5 sec				
	Hold Time	15 min				
	Group Hold Time	15 min				
	Grace Time	0 sec				
	Strategy	-				
nect	Occupancy Sensitivity	5 (highest)				
NX Connect	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				



^{**} Requires NXBTC, order separately



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No.	Secretary.	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)	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		

APP INFORMATION

NX Lighting Controls offers two NX Apps for their systems

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. The NX Lighting Controls app also provides access to intelliSCOPE for real time occupancy data to accurately adjust your occupancy sensors in real time ensuring accurate detection every time. The NX Lighting Controls App is available for download on both Apple iOS and Android devices.

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. The NX Connect also hosts a number of advanced features to help a contractor install a program a NX Connect System efficiently and quickly. The NX Connect is available only on Apple iOS devices and is free to download.

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

SENSOR PLACEMENT

NXWHM AND NXEHM (NXSMP2-HMO SENSOR)



* Third party sensors are side mounted





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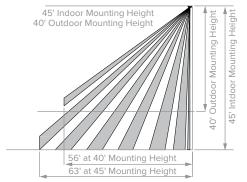
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TYPE: PROJECT:

CATALOG #:

NX SENSOR COVERAGE PATTERNS

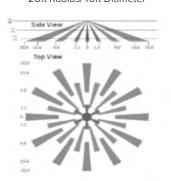
NXWHM (NXSMP2-HMO SENSOR)



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

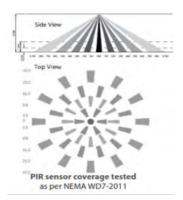
NXCHM (NXC-WHS20 SENSOR) LOW LENS: 2.5M (8FT)

20ft Radius/40ft Diameter



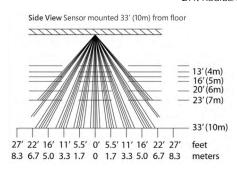
NXCHM (NXC-WHS20 SENSOR) MED LENS: 6M (20FT)

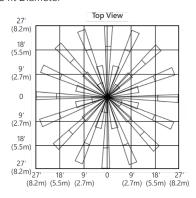
30ft Radius/60ft Diameter



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

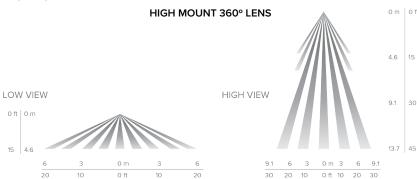
27ft Radius/54ft Diameter





THIRD PARTY SENSORS

OS, OCS, ODS (THIRD PARTY)







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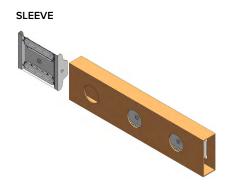
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TYPE:	PROJECT:

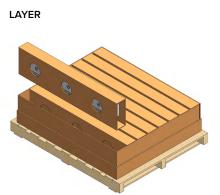
CATALOG #:

PACKAGING/SHIPPING INFO

JOB PACKAGING IS STANDARD

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





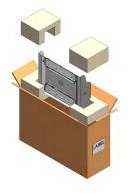


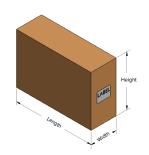
JOB PACK DETAILS						
Size	Fixtures per Sleeve	Sleeves per Layer	Layers per Pallet			
1	3	8	3			
2	1	8	3			
3	1	8	3			

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

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						

١	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







DATE:	LOCATION:
TVDF:	DDO IFCT:

CATALOG #:

DELIVERED LUMENS

		DELIVER	ED LUMENS AND	ELECTRICAL CH	ARACTERISTICS F	OR ECH1		
	Ordering Code		Delivered	120-277V		347/4	180V	
CRI/CCT	Lumen	Optic	Lumens	Watts	LPW	Watts	LPW	Body
	L09	•	9,100	49	186	51	178	
	L12		12,100	66	183	68	178	=
	L15		15,100	85	178	86	176	Size 1
	L18		18,200	106	172	104	175	1
740	L24	DW	24,000	147	163	144	167	=
750	L30		30,000	168	179	170	176	
	L36		36,400	212	172	209	174	Size 2
	L48		48,000	294	163	289	166	
	L60		60,300	343	176	336	179	Size 3
	L09		8,500	53	160	56	152	
	L12		11,400	72	158	74	154	
	L12 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	
	L30		28,300	186	152	185	153	
	L36		34,300	232	148	229	150	Size 2
	L48		45,200	328	138	322	140	-
	L60		56,700	380	149	372	152	Size 3
	L09	DW	8,800	53	166	56	157	0.20
	L12		11,900	72	165	74	161	=
	L15		14,800	94	157	93	159	Size 1
	L18		17,800	116	153	114	156	-
835	L24		23,500	164	143	161	146	
000	L30		29,300	186	158	185	158	
	L36		35,600	232	153	229	155	Size 2
	L48		46,900	328	143	322	146	- 0,20 2
	L60		58,800	380	155	372	158	Size 3
	L09		9,100	53	172	56	163	3120 3
	L09 L12		12,100	72	168	74	164	
	L15		15,100	94	161	93	162	Size 1
	L18		18.200	116	157	114	160	31261
840	L24	DW	24,000	164	146	161	149	
850	L30	DW	30,000	186	161	185	162	
	L36		36,400	232	157	229	159	Size 2
	L48		48,000	328	146	322	149	Size z
	L60		60,300	380	159	372	162	Size 3
	L09		7,900	53	149	56	141	3126 3
	L12		10,600	72	149	74	143	
	L15		13,200	94	140	93	143	Size 1
	L18		15,900	116	137	114	139	Size I
935	L24	DW	21,000	164	128	161	130	
555	L30	DVV	26,200	186	141	185	142	
	L36		31,800	232	137	229	139	Size 2
	L48		41,900	328	128	322	130	Jize 2
	L48						141	Size 3
	L09		52,600 8,100	380 53	138 153	372 56	145	Size 3
	L12		10,900	72	151	74	145	-
	L15		13,500	94	144	93	147	Size 1
				94 116			143	- Size I
0.40	L18	DW	16,300		141	114		\dashv
940	L24	DW	21,500	164	131	161	134	
	L30		26,900	186	145	185	145	C: 2
	L36		32,600	232	141	229	142	Size 2
	L48		43,000	328	131	322	134	





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DELIVERED LUMENS (CONTINUED)

LUMEN OUTPU	JT MULTIPLIER FOR OPTIC OF	RDERING 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)

Lumen Output Multiplier Delivered Lumens for fixture with CW, DN, or DA Lens

PROJECTED LUMEN MAINTENANCE

Operating Hours	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000
Lumen Maintenance Factor	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90

AMBIENT TEMPERATURE RATINGS

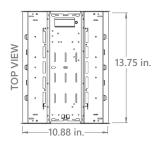
Lumen Code	L09	L12	L15	L18	L24	L30	L36	L48	L60
Max Ambient	55°C								
Min Ambient	-30°C								

DIMENSIONS

ECH SIZE 1

L09, L12, L15, L18 & L24 LUMEN OUTPUT

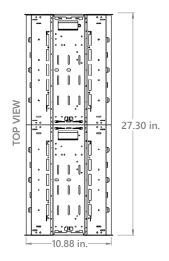
Max Weight: 10 lbs

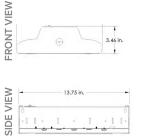


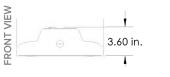
ECH SIZE 2

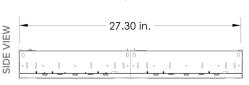
L30, L36 & L48 LUMEN OUTPUT

Max Weight: 20 lbs





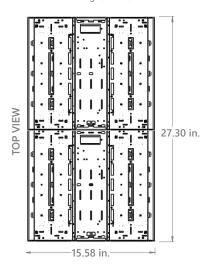


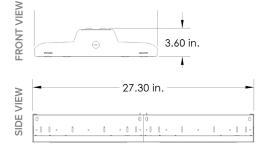


ECH SIZE 3

L60 LUMEN OUTPUT

Max Weight: 22 lbs







DATE:	LOCATION:
TYPE:	PROJECT:

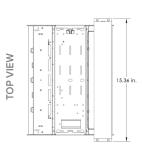
CATALOG #:

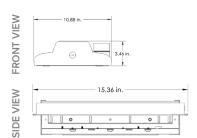
EMERGENCY BATTERY INFORMATION

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

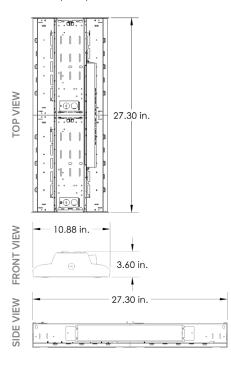
ECH SIZE 1

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

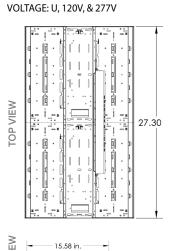


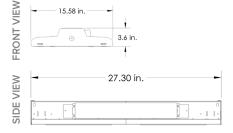






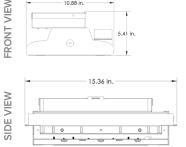
ECH SIZE 3 L60 LUMEN OUTPUT



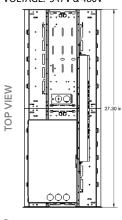


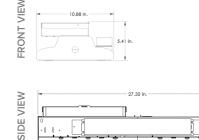
VOLTAGE: 347V & 480V



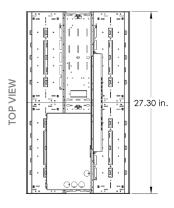


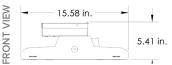
VOLTAGE: 347V & 480V

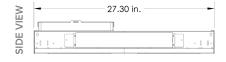




VOLTAGE: 347V & 480V









ECHELĂN HIGH PERFORMANCE HIGH BAY

DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

PHOTOMETRY

ECH1-840-L24-DW-EDU

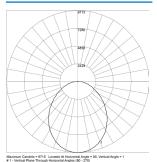
LUMINAIRE DATA

Description	LED Highbay; 24,000 Lumens; Diffuse Optic Wide	
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

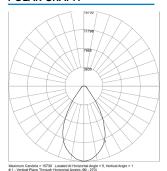
LUMINAIRE DATA

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

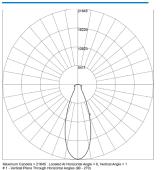
LUMINAIRE DATA

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



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	DΔ	Diffuse Ontic 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

