

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

**FEATURES**

- Low profile, full distribution back-lit troffer, ideal for crowded ceilings
- Expansive lumen output range
- ISO4 standard; suitable for ISO Class 4-9 positive and negative pressure clean rooms
- Integrated control options to meet code compliance and drive energy efficiency
- Optional IP65 rating for dust-tight and wet location applications
- Optional IK10 impact resistance rating for demanding environments
- Multiple lens options including Pattern A12, A19 and Frosted Polycarbonate



Typical Dimensions and Weights	
Width	11.77" / 299 mm
Length	47.75" / 1213 mm
Height	3.1" / 78.5 mm
Weight*	7.87lbs / 3.57kg

\*Base configurations; weight varies by option

**CONTROLS TECHNOLOGY**



**SPECIFICATIONS**

**CONSTRUCTION**

- Aluminum lens frame has a matte white finish standard, matte black, antimicrobial white and silver finish options available.
- Luminaire housing is die formed code-gauge steel
- Low profile design is ideal for shallow plenum applications

**OPTICS**

- Acrylic micro-optics over each LED provide edge to edge illumination without pixelation or bright spots
- Frosted textured lens provides smooth surface brightness

**INSTALLATION**

- An access plate is furnished with each luminaire for fast wiring
- Luminaire fits recessed exposed grid ceilings (G); four integral T-bar clips with holes for seismic wires are standard
- Available with Slot Grid (SG) frame for flush mounting in Slot Grid applications
- For surface mount applications use surface mount kit accessories
- For plaster or sheet rock installations, use flange kit accessories
- For cable mount applications use surface mount kit accessory and cable kit accessory

**ELECTRICAL**

- 60,000 hour LEDs at L80 for reduced maintenance
- 80 CRI standard or optional 90 CRI for color sensitive applications

**CONTROLS**

- 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.

**CERTIFICATIONS**

- All luminaires are built to UL 1598 standards and bear appropriate cULus labels
- Damp location label standard, optional IP65 rating available
- Adheres to LM79, LM80, and TM21 industry standards for photometrics and lifetime calculations
- IC label is standard for recessed products

**CERTIFICATIONS (CONTINUED)**

- CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options
- UL Sanitation Certified to NSF 2 Food Equipment standard for non-food zones
- Tested in accordance with ISO 14644-1; suitable for ISO Class 4-9 positive and negative pressure clean rooms
- DLC® (DesignLights Consortium) Qualified, with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at [www.designlights.org](http://www.designlights.org)
- Emergency battery options are California Energy Commission (CEC) Title 20 Compliant
- Suitable for ambient temperatures from -25°C to 25°C, 0°C to 25°C when integrated batteries are selected
- BAA Option: This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9). See Buy America(n) Solutions
- FCC Part 15b (FCC Communications Interference) Compliant
- CCEA approved option (CP) available

**WARRANTY**

- 5 year warranty

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

**ORDERING GUIDE**

Example: NBT14-35L036G-SF-ED1U

CATALOG #

NBT											
Model	Size	CRI	Color Temp	Nominal Lumens <sup>1</sup>	Ceiling	Shielding		Driver		Voltage	
NBT Back-lit Troffer	14 1x4	Blank >80 9 >90	30 3000 K 35 3500 K 40 4000 K 50 5000 K	L025 2500 Lumens L032 3200 Lumens L036 3600 Lumens L042 4200 Lumens L048 4800 Lumens L058 5800 Lumens L070 7000 Lumens	G Standard or Silhouette Grid <sup>2</sup> SG Slot Grid	SF Smooth Frosted A12F Pattern 12 Acrylic Lens A12125F Pattern 12 Acrylic Lens, 0.125" Nominal A19F Pattern 19 Frosted Acrylic, 0.156" Nominal FP Frosted Polycarbonate	ED1 0-10V 1% Dimming EDD 0-10V Dim-to-Dark ESD Step Dimming <sup>3</sup> LUTH Hi-Lume 1% EcoSystem LED driver <sup>3</sup> DALIP Powered by DALI <sup>3</sup>	U 120V-277V 347 347V			

Options	Controls Options <sup>18</sup>
<p><b>ELL14</b> Emergency Battery Pack (CEC Title 20 Compliant) Installed<sup>3,4,5,6,7,8</sup></p> <p><b>ELL14H2</b> Emergency Battery Pack (CEC Title 20 Compliant), 2-Hour<sup>3,4,5,6,7,8,9</sup></p> <p><b>ELL14ST</b> Emergency Battery Pack, (CEC Title 20 Compliant), Self Test<sup>3,4,6,7,8</sup></p> <p><b>DTS</b> Dimming Bypass Module<sup>3,5,6,7,8,10,11</sup></p> <p><b>CP</b> Chicago Plenum<sup>12</sup></p> <p><b>C388</b> 3-wire flex</p> <p><b>C488</b> 4-wire flex</p> <p><b>C588</b> 5-wire flex</p> <p><b>GLR</b> Fast Blow Fuse<sup>3,13</sup></p> <p><b>BAA</b> Buy American Act (FAR 52.225-9) Compliant</p> <p><b>IK10</b> IK10 rated<sup>14,15,16</sup></p> <p><b>IP65</b> IP65 Certified<sup>14,16,17</sup></p> <p><b>Color Options (standard white w/ no selection)</b></p> <p><b>AM</b> White Antimicrobial</p> <p><b>MB</b> Black</p> <p><b>SLV</b> Silver</p>	<p><b>NX Lighting Controls</b></p> <p><u>Networked Wired</u></p> <p><b>NXE</b> NX Wired Dual RJ45 SmartPORTS, without Sensor<sup>19</sup></p> <p><b>NXESM</b> NX Wired Dual RJ45 SmartPORTS and Integral NXSM2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming<sup>19</sup></p> <p><u>Networked</u></p> <p><b>NXWSM</b> NX Networked Wireless Enabled Integral NXSM2-SMI/ LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming<sup>19</sup></p> <p><b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor<sup>19</sup></p> <p><u>Independent Control</u></p> <p><b>NXCS</b> NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor<sup>3,20,21,22</sup></p> <p><u>Other Lighting Controls</u></p> <p><u>Networked Wireless</u></p> <p><b>LVR</b> Lutron Vive Integrated Fixture Control DFCSJ-OEM-RF<sup>3,22,23</sup></p> <p><b>LVS</b> Lutron Vive Integrated Fixture Control DFCSJ-OEM-OCC with Daylight and Occupancy Sensing<sup>3,22,23</sup></p> <p><b>AWNS</b> Lutron Athena Integral Fixture Control A-WN-D01-OCC-WH with Daylight and Occupancy Sensing<sup>3,22</sup></p> <p><b>AWNR</b> Lutron Athena Integral Fixture Control A-WN-D01-RF-WH<sup>3,22</sup></p>

**Accessories**

<input type="checkbox"/>	<b>FK14</b>	Flange Kit
<input type="checkbox"/>	<b>DSMK14</b>	Surface Mount Kit
<input type="checkbox"/>	<b>CFPCM36YSC5F-KIT</b>	36" Cable Mount Kit for 1' or 2' wide Cable Mount fixtures, 5-wire <sup>3,24</sup>

**Notes:**

- 1 Refer to performance tables for exact values and available lumen outputs for fixture size
- 2 For drywall, order G with flange kit accessory
- 3 Not available with 347V
- 4 To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
- 5 Not available with L048 and L058 lumen packages
- 6 Not available with L070 lumen package
- 7 For compatibility with Dual-Lite Litegear Inverters, contact lighting representative
- 8 L042 and higher lumen packages are not available with thru-wiring.
- 9 Not available for use in Canada
- 10 Not available with ESD or LUTH driver options
- 11 For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. Only available with 0-10V drivers. See wiring diagram.
- 12 Not available with NXE, NXESM and NXW control options
- 13 Not available with ESD driver option
- 14 Control Options limited to NXW, NXE or AWNR only
- 15 Only available with G ceiling type and FP lens option
- 16 Not available with Emergency Battery Pack (ELL14 or ELL14H2) or DTS options
- 17 Only available with SF and FP lens choices

- All Controls**
- 18 Minimum ambient temperature: 0°C (32°F)
- NX Lighting Controls**
- 19 Available with ED1 driver option only
  - 20 NX Connect devices can be configured using the NX Connect Mobile App, available in the Apple App Store
  - 21 NX Connect devices are not compatible with NX Networked Wireless or Wired Options
- Other**
- 22 Only available with DALIP driver option
  - 23 Vive is a trademark of Lutron Electronics Co., Inc.
  - 24 Use of DSMK14 is required for cable mounting applications

**DELIVERED LUMENS**

CRI	Model	CCT	Lumens	Input Watts	LPW
80 CRI	NBT14-L025	3000K	2445	19	128
		3500K	2475	19	129
		4000K	2577	19	134
		5000K	2577	19	134
80 CRI	NBT14-L032	3000K	3054	24	125
		3500K	3161	24	130
		4000K	3275	24	134
		5000K	3275	24	134
80 CRI	NBT14-L036	3000K	3452	27	126
		3500K	3574	27	130
		4000K	3703	27	135
		5000K	3703	27	135
80 CRI	NBT14-L042	3000K	4088	33	124
		3500K	4232	33	130
		4000K	4384	33	133
		5000K	4384	33	133
80 CRI	NBT14-L048	3000K	4653	39	120
		3500K	4817	39	125
		4000K	4990	39	129
		5000K	4990	39	129
80 CRI	NBT14-L058	3000K	5606	47	118
		3500K	5803	47	124
		4000K	6012	47	127
		5000K	6012	47	127
80 CRI	NBT14-L070	3000K	7080	59	121
		3500K	7103	60	119
		4000K	7486	60	126
		5000K	7486	60	126

CRI	Model	CCT	Lumens	Input Watts	LPW
90 CRI	NBT14-L025	3000K	2111	19	112
		3500K	2414	19	127
		4000K	2259	19	119
		5000K	2259	19	119
90 CRI	NBT14-L032	3000K	2635	24	108
		3500K	2796	24	115
		4000K	2838	24	116
		5000K	2838	24	116
90 CRI	NBT14-L036	3000K	2979	27	108
		3500K	3161	27	115
		4000K	3209	27	117
		5000K	3209	27	117
90 CRI	NBT14-L042	3000K	3528	33	107
		3500K	3743	33	113
		4000K	3800	33	115
		5000K	3800	33	115
90 CRI	NBT14-L048	3000K	4016	39	104
		3500K	4261	39	110
		4000K	4325	39	112
		5000K	4325	39	112
90 CRI	NBT14-L058	3000K	4838	47	102
		3500K	5133	47	108
		4000K	5210	47	110
		5000K	5210	47	110
90 CRI	NBT14-L070	3000K	6076	59	104
		3500K	6447	62	104
		4000K	6544	63	104
		5000K	6544	63	104

**PROJECTED LUMEN MAINTENANCE**

Calculation Method	Ambient Temp	25,000 hrs	50,000 hrs	60,000 hrs *
TM-21-11	25C/77F	0.92	0.85	0.84
TM-21-22	25C/77F	0.92	0.84	0.82

\* Lumen maintenance values calculated per TM-21 using six times the LM-80 test time for the LED and in-situ thermal testing of the luminaire.



**NX LIGHTING CONTROLS**

Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor	✓	✓	✓	-	-	✓	✓	✓		NXRM2-H
	NXWSM	NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXSMP2-SMI
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	✓	✓	✓	-	-	✓	✓	✓ <sup>1</sup>		NXDSP
	NXESM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXDSP NXSMP2-SMI
NX Independent	NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor	-	✓	-	✓	✓	✓	✓	✓ <sup>2</sup>		NXC-WIZ20

- 1 Requires NXBTC, order separately.
- 2 Requires use of NX Connect App available for download from Apple app store.

**DEFAULT SETTINGS**

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

NX Independent - NX Connect	Settling/Dwell Time	5 sec
	Hold Time	10 min
	Group Hold Time	10 min
	Grace Time	-
	Strategy	Auto ON/OFF
	Occupancy Sensitivity	5 (highest)
	Occupancy Indicator	ON
	Partial Off/Standby	0%
	Background Level	50%
	Task Level	100%
	Daylight Harvesting	-
	Low Ambient Output	250%
	High Ambient Output	OFF

**CONTROLS TECHNICAL SUPPORT**

1-800-888-8006 (7:00 am–7:00 pm est)

**APP INFORMATION**

**NX Lighting Controls App**



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



Android



Apple iOS

**NX Connect App**



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



Apple iOS

**NBT**

1X4 TRANSITION™ BACK-LIT TROFFER

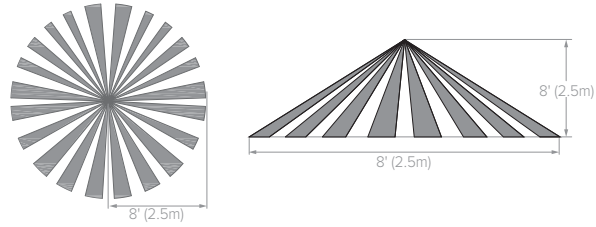
DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_

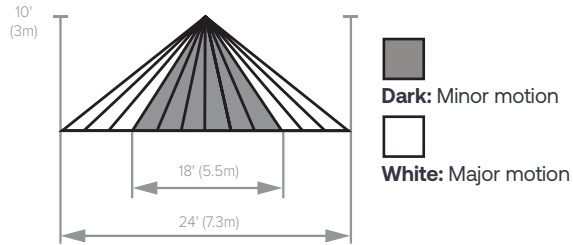
CATALOG #: \_\_\_\_\_

**COVERAGE PATTERNS**

**NXWSM/NXESM (NXSMP2-SMI SENSOR)**



**NXCS (NXC-WIZ20 SENSOR)**



PIR sensor coverage tested as defined in NEMA WD7-2011

**OTHER LIGHTING CONTROLS**

Control Option Ordering Logic & Description		Control Option Functionality							Control Option Components		
		Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control			Bluetooth App Programming
Other	LVR	✓	✓	✓	-	-	-	✓	-		DFCSJ-OEM-RF
	LVS	✓	✓	✓	✓	✓	-	✓	-		DFCSJ-OEM-OCC
	AWN-R	✓	✓	-	-	-	✓	✓	-		A-WN-D01-RF-WH
	AWN-S	✓	✓	✓	✓	✓	✓	✓	-		A-WN-D01-OCC-WH

1 Lutron Vive Hub required to enable Networking, Grouping and Scheduling.  
2 Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

**DIMENSIONS**

