

**DIGITAL NAVIGATION** 

Ordering Tree <u>nLight Platform</u> Controls **Dimensions Performance** 

### **FEATURES & SPECIFICATIONS**

INTENDED USE — Available in 1X4, 2X2 and 2x4 configurations. HVTS provides both functionality and efficiency. HVTS is the ideal choice for many recessed commercial applications. The wide center basked and curved matte reflector allow HVTS to deliver a high quality of light while maintaining optimal performance.

- · Less than 2" in depth.
- A high level of configurability allows you to choose the perfect solution for your space.
- Available 0-10v dimming to 1%
- Long-life LEDs deliver 80% lumen maintenance at 60,000 hours

The HVTS lay-in delivers low glare, ambient lighting in a popular center-basket design. A typically configured HVTS features a **Unified Glare Rating** (UGR) starting at 16, UGR data available on page 7. The slim profile of the luminaire, coupled with energy-saving LED technology make HVTS an ideal choice for renovation or new construction. The HVTS lay-in offers a high-quality, cost-effective LED lighting solution for schools, offices, retail, healthcare facilities and other commercial spaces.

**CONSTRUCTION** — The reflector is finished with a glare reducing matte white paint for improved aesthetics and increased light diffusion. End plates contain easy-to-position clips allowing the luminaire to be securely attached to the T grid. Diffusers are extruded from impact modified acrylic for increased durability. LED boards are accessible from the room-side, and drivers are accessible from the plenum.

Integrated Sensor (nLight® Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software.

Integrated Smart Sensor (nLight Air Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY+, which allows for simple sensor adjustment Integrated Wireless Sensor (single room control): Sensor Switch™ VERTEX JOT or JOTVTX15 luminaire-embedded occupancy and ambient light sensor allows the luminaire to power off when the space is unoccupied or when enough ambient light is entering the space. See page 7 for more details on the integrated wireless sensor.

**INSTALLATION** — With a depth of only 1.9", HVTS makes for an easy installation, especially in restrictive plenum applications. HVTS fits into standard 15/16" and narrow 9/16" T-grid ceiling systems. Suitable for damp location.

**ELECTRICAL** — Long-life LED's, coupled with high-efficiency drivers provide superior quality of light and an extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). 0-10 volt dimming driver, dims to 1%.

**OPTICS** — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces – rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. A high performance acrylic diffuser conceals LED's and efficiently delivers light in a volumetric distribution.

LISTINGS — CSA certified to meet US and Canadian standards. Damp location listed. IC rated. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www. designlights.org/QPL to confirm which versions are qualified.

**WARRANTY** — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: <a href="https://www.acuitybrands.com/support/warranty/terms-and-conditions">www.acuitybrands.com/support/warranty/terms-and-conditions</a>

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice

Catalog Number		
Notes		
Туре		

**LED Center Element Lay-In** 



#### Specifications

2X4: 47-3/4 (60.3) L; 23-3/4 (60.3) W; 1.9 (4.8) D

2X2: 23-3/4 (60.3) L; 23-3/4 (60.3) W; 1.9 (4.8) D

1X4: 23-3/4 (60.3) L; 11-3/4 (29.8) W; 1.9 (4.8) D

All dimensions are inches (centimeters) unless otherwise specified.















## 4 Capable Luminaire

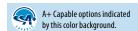
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency — including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about Acuity A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

# **LED Center Element Troffer**





ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: HVTS 2X4 5000LM 80CRI 40K COL MIN10 ZT MVOLT

Series	Size	Lumens	CRI	Color Temperature	Lens	Minimum Dimming Level	Dimming #	Voltage
HVTS	1X4 1'x4'	3000LM 4000LM 5000LM 6000LM 7200LM	80CRI 80 CRI 90CRI 90 CRI	30K 3000K 35K 3500K 40K 4000K 50K 5000K	COL Curved Opal Lens COLT Curved Opal Lens with Trim	MIN1 Dims to 1% ‡ MIN10 Dims to 10%	(blank) none EZT eldoLED 0-10V Dimming ‡  ZT Generic 0-10V Dimming ‡	MVOLT 120-277V 120 120V 277 277V 347 347V ‡
	2X2 2'x2'	2000LM 3000LM 4000LM 5000LM						
	2X4 2'x4'	3000LM 4000LM 5000LM 6000LM 7200LM						

Step Level Dimmir	ng Option	Emergency	Options	Controls Inpu	t	Sensor	
(blank) none SLD Step-lev dimming		E10WLCP E15WLCP	EM battery pack, 7W, CA Title 20 Noncompliant \$\$ EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS \$\$ EM Self-Diagnostic battery pack, 15W Constant Power, Certified in CA Title 20 MAEDBS \$\$	(blank) SSE	No Control Input Sensor Switch Embedded ‡	(blank) APIR APDT VPIR8 VAPIR8 VPIR15	No Sensor or Control Input function only, if selected. Occ sensing with passive infared - on/off functionalityand auto dimming photocell Occ sensor dual tech (passive infared & michrophonics) and auto dimming photocell Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 8ft mounting height Vertex low-profile on/off occupancy sensor with auto dimming photocell with VLP programming at 8ft mounting height Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 15ft mounting height Vertex low-profile on/off occupancy sensor with auto dimming photocell with VLP programming at 15ft mounting height
		GTD	Generator Transfer Device ‡	NLIGHT NLIGHTER NLIGHTLM NLIGHTERLM	nLight enabled nLight enabled, for use with generator supply EM power nLight enabled with lumen management nLight enabled with lumen management, for use with generator supply EM power	(blank) PIR PDT APIR APDT VPIR8	No sensor, Control Input function only Occ sensing with passive infared - on/off functionality Occ sensor dual tech (passive infared & michrophonics) Occ sensing with passive infared - on/off functionalityand auto dimming photocell Occ sensor dual tech (passive infared & michrophonics) and auto dimming photocell Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 8ft mounting height
				NLTAIR2 NLTAIREM2	nLight AIR Generation 2 (wireless) enabled ‡ nLight AIR Generation 2 (wireless) enabled and UL924 Emergency Operation, via power interupt detection ‡	(blank) APIR APDT APIREM APDTEM VPIR8	No sensor, Control Input function only Occ sensing with passive infared - on/off functionalityand auto dimming photocell Occ sensor dual tech (passive infared & michrophonics) and auto dimming photocell Occ sensing with passive infared - on/off functionality and auto dimming photocell and UL924 Emergency Operation, via power interrupt detection Occ sensor dual tech (passive infared & microphonics) and auto dimming photocell and UL924 Emergency Operation, via power interrupt detection. Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 8ft mounting height
				JOT	JOT, "Just One Touch" (wireless) enabled ‡	(blank) VAPIR15	No sensor, Control Input function only Vertex low-profile on/off occupancy sensor with auto dimming photocell with VLP programming at 15ft mounting height

# **LED Center Element Troffer**



Standby Mode	Options			
NOC Occupancy Sensor Disabled ‡	PWS1836 PWS1846 PWS1846 PWSLV PWS1856LV	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge ‡ 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage wires ‡	CP LATC DWAM	Chicago Plenum ‡ T-bar clips Anti-microbial paint

	# Option Value Ordering Restrictions				
Option Value	Restriction				
347	Not available with: E7W, E10WLCP, E15WLCP, SLD, GTD.				
CP	Not available with NLIGHT, NLIGHTER, NLIGHTLM NLTAIR2, NLTAIREM2, PWS1836, PWS1846, PWS1846 PWSLV or PWS1856LV.				
Dimming	This section is left blank only when a Control Input option or Step Level Dimming option is selected.				
E7W, E10WLCP	Not available with 347V.				
E15WLCP	Not available with: 2X2 or 347V.				
EZT	Not available with MIN10. Required for NLTAIR2 or NLTAIREM2.				
GTD	Must select 120 OR 277, Not available with 347V or MVOLT. Requires wiring to be called out BSE10 (standard wiring) or BSE14 (prewired for normal circuit, control relay for EM circuit is left unconected).				
JOT	Not available with SLD, NLIGHT, NLTAIR2, NOC, or GTD options. Must be ordered with COLT, not available with COL.				
MIN1	Required for all Control Input options, excluding JOT. Not available with SLD.				
NLTAIR2	Requires EZT and MIN1. Leave dimming section blank. See UL924 Sequence of Operation chart on page 3. Can be used as a normal power sensing device for nLight AIR devices and luminaires with EM emergency options.				
NLTAIREM2	Requires EZT and MIN1. Leave dimming section blank. See UL924 Sequence of Operation Chart on page 3. Leave sensor option blank, not available with APIR, APDT, APIREM, APDTEM or VPIR8.				
NOC	Available with NLTAIR2 or NLTAIREM2 only.				
PWS1846 PWSLV, PWS1856LV	Not available with nLight wired network or individual controls.				
SLD	Not available with controls. Must select MIN10. Leave Dimming section blank.				
SSE	Leave dimming section blank. Requires MIN1.				
ZT	Not available with NLTAIR2 or NLTAIREM2.				

## **ACCESSORIES**

Accessories: Order as separate catalog number.				
HDGA14	Drywall grid adapter for 1X4 recessed fixture			
HDGA22	Drywall grid adapter for 2x2 recessed fixture			
HDGA24	Drywall grid adapter for 2x4 recessed fixture			
H1X4SMKSHPPAF	Multi-Use Surface Mount Kit 1X4 Post-Paint			
H2X2SMKSHPPAF	Multi-Use Surface Mount Kit 2X2 Post-Paint			
H2X4SMKSHPPAF	Multi-Use Surface Mount Kit 2X4 Post-Paint			
HVTSPSRMEIC	Remote enclosure for battery for insulated ceiling			
HBDP 2P U	Disconnect Plug (BDP), 2 Pole, Package of 1			
HBDP 3P U	Disconnect Plug (BDP), 3 Pole, Package of 1			
HBDP 2P J10	Disconnect Plug (BDP), 2 Pole, Package of 10			
HBDP 2P J40	Disconnect Plug (BDP), 2 Pole, Package of 40			

### UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.



### **Emergency Battery Pack Options - Field Installable**

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter/ 2-hour Runtime
ILB CP10 A	10W	90	1200	
ILB CP10 HE AELR A	10W	90	1200	Title 20; Enabled with Self Testing, Automated Reporting (STAR)
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.

Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.











ILB CP10 HE AELR A

#### **Compliance Just Got Easier!**

Emergency Lighting with Self Testing Automated Reporting (STAR), enables self-testing and automated reporting to aid in life safety code compliance. Emergency lighting equipment enabled with STAR, automatically conducts the required monthly and annual tests, logs results within the units, and wirelessly communicates test data on demand to the CLARITY+ mobile app. Leave the ladders, disruptions and written records behind with emergency lighting solutions with STAR!







HVTS is compatible with Sensor Switch™ WSXA D and SPODMA D as well as nLight Wall Pods.









nPODMA DX

nLight AIR rPODBA

<sup>\*</sup>Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.



## **Intelligent Luminaire Technology Guide**

Choose nomenclature from these columns

Control Input		Sensor		Sensor	Notes
SSE	+	APIR	=	MSD 7 ADCX	Individual fixture control only. PIR integral occupancy sensor with automatic dimming control photocell.
SSE	+	APDT	=	MSD PDT 7 ADCX	Individual fixture control only. PDT integral occupancy sensor with automatic dimming control photocell.
SSE	+	VPIR8	=	VERTEX 8F EZ OCC VLP	Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 8ft mounting height.
SSE	+	VAPIR8	=	VERTEX 8F EZ ADC VLP	Vertex low-profile on/off occupancy sensor with auto dimming photocell with VLP programming at 8ft mounting height.
SSE	+	VPIR15	=	VERTEX 15F EZ OCC VLP	Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 15ft mounting height.
SSE	+	VAPIR15	=	VERTEX 15F EZ ADC VLP	Vertex low-profile on/off occupancy sensor with auto dimming photocell with VLP programming at 15ft mounting height.
JOT	+	(blank)	=	BTRM JOT BTA	Wireless room control with "Just One Touch" pairing.
JOT	+	VAPIR15	=	BTRM JOT BTA + VERTEX 15F EZ ADC VLP GSKT	Wireless room control with "Just One Touch" pairing.
NLIGHT	+	(blank)	=	nIO EZDXA	nLight enabled only. No onboard sensor.
NLIGHT	+	PIR	=	nIO EZDXA + nES 7	nLight enabled with PIR integral occupancy sensor.
NLIGHT	+	PDT	=	nIO EZDXA + nES PDT 7	nLight enabled with dual technology occupancy control sensor.
NLIGHT	+	APIR	=	nIO EZDXA + nES 7 ADCX	nLight enabled with PIR integral occupancy sensor with automatic dimming photocell.
NLIGHT	+	APDT	=	nIO EZDXA + nES PDT 7 ADCX	nLight enabled with dual technology occupancy controls sensor with automatic dimming photocell.
NLIGHT	+	VPIR8		NIO EZDXA + VERTEX 8F EZ OCC VLP	nLight enabled with Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 8ft mounting height.
NLIGHTER	+	(blank)	=	nIO EZDCL ER	Emergency nLight enabled only. No onboard sensor. BUS Power required.
NLIGHTER	+	PIR	=	nIO EZDCL ER PH + nES 7	Emergency nLight enabled with PIR integral occupancy sensor. BUS Power required.
NLIGHTER	+	PDT	=	nIO EZDCL ER PH + nES PDT 7	Emergency nLight enabled with dual technology occupancy control sensor. BUS Power required.
NLIGHTER	+	APIR	=	nIO EZDCL ER + nES 7 ADCX	Emergency nLight enabled with PIR integral occupancy sensor with automatic dimming photocell. BUS Power required.
NLIGHTER	+	APDT	=	nIO EZDCL ER + nES PDT 7 ADCX	Emergency nLight enabled with dual technology occupancy controls sensor with automatic dimming photocell. BUS Power required.
NLIGHTLM	+	(blank)	=	nIO EZDXA N80	nLight enabled only with 80% constant lumen managment. No onboard sensor.
NLIGHTLM	+	PIR	=	nIO EZDXA N80 + nES 7	nLight enabled with 80% contstant lumen managment with PIR integral occupancy sensor.
NLIGHTLM	+	PDT	=	nIO EZDXA N80 + nES PDT 7	nLight enabled with 80% contstant lumen management with dual technology occupancy control sensor.
NLIGHTLM	+	APIR	=	nIO EZDXA N80 + nES 7 ADCX	nLight enabled with 80% contstant lumen management with PIR integral occupancy sensor with automatic dimming photocell.
NLIGHTLM	+	APDT	=	nIO EZDXA N80 + nES PDT 7 ADCX	nLight enabled with 80% contstant lumen managmentwith dual technology occupancy controls sensor with automatic dimming photocell.
NLIGHTLMER	+	(blank)	=	nIO EZDCL ER N80	Emergency nLight enabled only with 80% contstant lumen managment. No onboard sensor. BUS Power required.
NLIGHTLMER	+	PIR	=	nIO EZDCL ER N80 + nES 7	Emergency nLight enabled with 80% contstant lumen managment with PIR integral occupancy sensor. BUS Power required.
NLIGHTLMER	+	PDT	=	nIO EZDCL ER N80 + nES PDT 7	Emergency nLight enabled with 80% contstant lumen management with dual technology occupancy control sensor. BUS Power required.
NLIGHTLMER	+	APIR	=	nIO EZDCL ER N80 + nES 7 ADCX	Emergency nLight enabled with 80% contstant lumen management with PIR integral occupancy sensor with automatic dimming photocell. BUS Power required.
NLIGHTLMER	+	APDT	=	nIO EZDCL ER N80 + nES PDT 7 ADCX	Emergency nLight enabled with 80% contstant lumen management with dual technology occupancy controls sensor with automatic dimming photocell. BUS Power required.
NLTAIR2	+	(blank)	=	RIO EZDL 180D G2	nLight AIR Generation 2 enabled.
NLTAIREM2	+	(blank)	=	RIO EZDL EM 180D G2	nLight AIR Generation 2 enabled
NLTAIR2	+	APIR	=	RES7 G2	nLight AIR Generation 2 enabled.
NLTAIR2	+	APDT	=	RES7 PDT 90D G2	nLight AIR Generation 2 enabled.
NLTAIR2	+	APIREM	=	RES7 EM 90D G2	nLight AIR Generation 2 enabled.
NLTAIR2	+	APDTEM	=	RES7 PDT EM 90D G2	nLight AIR Generation 2 enabled.
NLTAIR2	+	VPIR8	=	RIO EZDL EXTDB ACWH 90D G2 + VERTEX 8F EZ OCC VLP	nlight AIR Generation 2 enabled. Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 8ft mounting height.



## nLight Platform

#### nLight AIR Wireless



#### Simple as 1,2,3

- 1. Install the nLight® AIR fixtures with embedded smart sensor
- 2. Install the wireless battery-powered wall switch
- 3. With the CLAIRITY+ Pro app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome



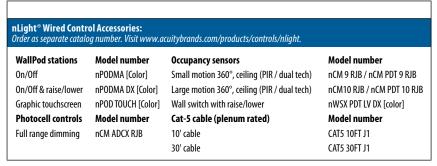
#### nLight Wired Networking

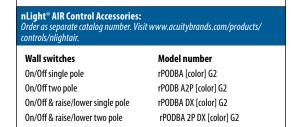


nLight embedded fixtures offer:	Customers get:
Manual Dimming	Convenience and visual comfort for occupants
Motion Sensing and/or Daylight Harvesting	Energy savings and code compliance
Fixture or Group Level Control	Ability to configure lighting to the space requirements
Flexibility	Ease of fixture moves, adds and changes
Wireless Wall Switch (nLight AIR Only)	Ease and flexibility of placement
Astronomical and Time of Day Scheduling	Energy savings and building security
Scalable Solution	nLight controls to grow with your business
Future-Ready	nLight platform to set foundation for future upgrades and capabilities



### **Controls Accessories**













Sensor Switch nLight WIRED WSXA D NPOD UNITOUCH

nLight WIRED nLight AIR nPODMA DX rPODBA

### **PHOTOMETRICS**

See Low-Profile Recessed LED Luminaire (acuitybrands.com) for photometry reports.

#### **UGR Chart**

UGR Values of HVTSP 1x4 @ <b>80CR1</b> and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)							
Luman Daakana	COL COLT						
Lumen Package	Crosswise Endwise		Crosswise	Endwise			
3000LM	21.5	21.8	21.5	22.2			
4000LM	22.4	22.8	23.7	24.4			
5000LM	23.2	23.5	23.2	23.9			
6000LM	23.6	24	22.4	23.1			

UGR Values of HVTSP 1x4 @ <b>90CR1</b> and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)							
COL COLT							
Lumen Package	Crosswise Endwise		Crosswise	Endwise			
3000LM	21	21.4	21.1	21.8			
4000LM	21.9	22.3	22	22.7			
5000LM	22.7	23.1	22.8	23.5			
6000LM	23.2	23.6	23.3	23.9			

UGR Values of HVTSP 2x2 @ <b>80CR1</b> and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)						
Luman Dadrana	C	COL COLT				
Lumen Package	Crosswise	Endwise	Crosswise	Endwise		
2000LM	18.9	20.5	16.5	17.8		
3000LM	20	21.6	17.7	19		
4000LM	21	22.6	18.6	19.9		
5000LM	21.7	23.4	19.4	20.7		

UGR Values of HVTSP 2x2 @ <b>90CRI</b> and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)				
Lumen Package	COL		COLT	
	Crosswise	Endwise	Crosswise	Endwise
2000LM	18.4	20	16.1	17.3
3000LM	19.6	21.2	17.3	18.5
4000LM	20.5	22.2	18.2	19.5
5000LM	21.3	22.9	19	20.2

UGR Values of HVTSP 2x4 @ <b>80CR1</b> and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)					
COL		COLT			
Crosswise	Endwise	Crosswise	Endwise		
18	19.3	20.1	21.4		
18.9	20.2	20.7	22		
19.7	21.1	17.9	19.2		
20.2	21.5	18.8	20.1		
20.8	22.1	19.7	20.9		
	0% 50% 20% reflection (C)  Crosswise  18.9  19.7  20.2	COW 20% reflectance using a 4H x 8           COL         Crosswise         Endwise           18         19.3           18.9         20.2           19.7         21.1           20.2         21.5	COV. 20% reflectance using a 4H x 8H room size)           COL         CC           Crosswise         Endwise         Crosswise           18         19.3         20.1           18.9         20.2         20.7           19.7         21.1         17.9           20.2         21.5         18.8		

UGR Values of HVTSP 2x4 @ <b>90CR1</b> and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)				
Luna en Da alva en	COL		COLT	
Lumen Package	Crosswise	Endwise	Crosswise	Endwise
3000LM	19.3	20.6	19.2	20.5
4000LM	19.8	21.1	19.7	21
5000LM	20.4	21.7	20.3	21.6
6000LM	17.5	18.9	17.5	18.7
7200LM	18.5	19.8	18.4	19.6

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application.

# **LED Center Element Troffer**



### **PERFORMANCE DATA**

Perfori	nance Data		
Luminaire Catalog	Lumens	Wattage	Efficacy
HVTS 1X4 3000LM 80CRI 30K COL MVOLT	3,047	24.3	125.5
HVTS 1X4 3000LM 80CRI 30K COLT MVOLT	3,001	24.3	123.7
HVTS 1X4 3000LM 80CRI 35K COL MVOLT	3,160	24.3	130.2
HVTS 1X4 3000LM 80CRI 35K COLT MVOLT	3,113	24.3	128.3
HVTS 1X4 3000LM 80CRI 40K COL MVOLT	3,259	24.3	134.3
HVTS 1X4 3000LM 80CRI 40K COLT MVOLT	3,211	24.3	132.3
HVTS 1X4 3000LM 80CRI 50K COL MVOLT	3,259	24.3	134.3
HVTS 1X4 3000LM 80CRI 50K COLT MVOLT	3,211	24.3	132.3
HVTS 1X4 4000LM 80CRI 30K COL MVOLT	3,978	33.4	119.2
HVTS 1X4 4000LM 80CRI 30K COLT MVOLT	3,918	33.4	117.4
HVTS 1X4 4000LM 80CRI 35K COL MVOLT	4,126	33.4	123.6
HVTS 1X4 4000LM 80CRI 35K COLT MVOLT	4,064	33.4	121.8
HVTS 1X4 4000LM 80CRI 40K COL MVOLT	4,255	33.4	127.5
HVTS 1X4 4000LM 80CRI 40K COLT MVOLT	4,192	33.4	125.6
HVTS 1X4 4000LM 80CRI 50K COL MVOLT	4,255	33.4	127.5
HVTS 1X4 4000LM 80CRI 50K COLT MVOLT	4,192	33.4	125.6
HVTS 1X4 5000LM 80CRI 30K COL MVOLT	4,973	42.5	117.0
HVTS 1X4 5000LM 80CRI 30K COLT MVOLT	4,899	42.5	115.2
HVTS 1X4 5000LM 80CRI 35K COL MVOLT	5,158	42.5	121.3
HVTS 1X4 5000LM 80CRI 35K COLT MVOLT	5,081	42.5	119.5
HVTS 1X4 5000LM 80CRI 40K COL MVOLT	5,320	42.5	125.1
HVTS 1X4 5000LM 80CRI 40K COLT MVOLT	5,240	42.5	123.2
HVTS 1X4 5000LM 80CRI 50K COL MVOLT	5,320	42.5	125.1
HVTS 1X4 5000LM 80CRI 50K COLT MVOLT	5,240	42.5	123.2
HVTS 1X4 6000LM 80CRI 30K COL MVOLT	5,691	50.6	112.5
HVTS 1X4 6000LM 80CRI 30K COLT MVOLT	5,606	50.6	110.8
HVTS 1X4 6000LM 80CRI 35K COL MVOLT	5,903	50.6	116.7
HVTS 1X4 6000LM 80CRI 35K COLT MVOLT	5,814	50.6	114.9
HVTS 1X4 6000LM 80CRI 40K COL MVOLT	6,088	50.6	120.3
HVTS 1X4 6000LM 80CRI 40K COLT MVOLT	5,997	50.6	118.5
HVTS 1X4 6000LM 80CRI 50K COL MVOLT	6,088	50.6	120.3
HVTS 1X4 6000LM 80CRI 50K COLT MVOLT	5,997	50.6	118.5

Performance Data				
Luminaire Catalog	Lumens	Wattage	Efficacy	
HVTS 2X2 2000LM 80CRI 30K COL MVOLT	2,160	16.8	128.8	
HVTS 2X2 2000LM 80CRI 30K COLT MVOLT	2,109	16.8	125.7	
HVTS 2X2 2000LM 80CRI 35K COL MVOLT	2,241	16.8	133.6	
HVTS 2X2 2000LM 80CRI 35K COLT MVOLT	2,188	16.8	130.4	
HVTS 2X2 2000LM 80CRI 40K COL MVOLT	2,311	16.8	137.7	
HVTS 2X2 2000LM 80CRI 40K COLT MVOLT	2,257	16.8	134.5	
HVTS 2X2 2000LM 80CRI 50K COL MVOLT	2,311	16.8	137.7	
HVTS 2X2 2000LM 80CRI 50K COLT MVOLT	2,257	16.8	134.5	
HVTS 2X2 3000LM 80CRI 30K COL MVOLT	3,029	24.1	125.4	
HVTS 2X2 3000LM 80CRI 30K COLT MVOLT	2,957	24.1	122.5	
HVTS 2X2 3000LM 80CRI 35K COL MVOLT	3,141	24.1	130.1	
HVTS 2X2 3000LM 80CRI 35K COLT MVOLT	3,067	24.1	127	
HVTS 2X2 3000LM 80CRI 40K COL MVOLT	3,240	24.1	134.2	
HVTS 2X2 3000LM 80CRI 40K COLT MVOLT	3,163	24.1	131	
HVTS 2X2 3000LM 80CRI 50K COL MVOLT	3,240	24.1	134.2	
HVTS 2X2 3000LM 80CRI 50K COLT MVOLT	3,163	24.1	131	
HVTS 2X2 4000LM 80CRI 30K COL MVOLT	3,978	33.3	119.4	
HVTS 2X2 4000LM 80CRI 30K COLT MVOLT	3,884	33.3	116.6	
HVTS 2X2 4000LM 80CRI 35K COL MVOLT	4,126	33.3	123.8	
HVTS 2X2 4000LM 80CRI 35K COLT MVOLT	4,028	33.3	120.9	
HVTS 2X2 4000LM 80CRI 40K COL MVOLT	4,255	33.3	127.7	
HVTS 2X2 4000LM 80CRI 40K COLT MVOLT	4,155	33.3	124.7	
HVTS 2X2 4000LM 80CRI 50K COL MVOLT	4,255	33.3	127.7	
HVTS 2X2 4000LM 80CRI 50K COLT MVOLT	4,155	33.3	124.7	
HVTS 2X2 5000LM 80CRI 30K COL MVOLT	4,944	42.6	116	
HVTS 2X2 5000LM 80CRI 30K COLT MVOLT	4,827	42.6	113.3	
HVTS 2X2 5000LM 80CRI 35K COL MVOLT	5,128	42.6	120.3	
HVTS 2X2 5000LM 80CRI 35K COLT MVOLT	5,007	42.6	117.5	
HVTS 2X2 5000LM 80CRI 40K COL MVOLT	5,289	42.6	124.1	
HVTS 2X2 5000LM 80CRI 40K COLT MVOLT	5,164	42.6	121.2	
HVTS 2X2 5000LM 80CRI 50K COL MVOLT	5,289	42.6	124.1	
HVTS 2X2 5000LM 80CRI 50K COLT MVOLT	5,164	42.6	121.2	

# **LED Center Element Troffer**



## **PERFORMANCE DATA**

Performance Data			
Luminaire Catalog	Lumens	Wattage	Efficacy
HVTS 2X4 3000LM 80CRI 30K COL MVOLT	3,056	24.1	126.9
HVTS 2X4 3000LM 80CRI 30K COLT MVOLT	2,976	24.1	123.6
HVTS 2X4 3000LM 80CRI 35K COL MVOLT	3,170	24.1	131.6
HVTS 2X4 3000LM 80CRI 35K COLT MVOLT	3,086	24.1	128.2
HVTS 2X4 3000LM 80CRI 40K COL MVOLT	3,269	24.1	135.8
HVTS 2X4 3000LM 80CRI 40K COLT MVOLT	3,183	24.1	132.2
HVTS 2X4 3000LM 80CRI 50K COL MVOLT	3,269	24.1	135.8
HVTS 2X4 3000LM 80CRI 50K COLT MVOLT	3,183	24.1	132.2
HVTS 2X4 4000LM 80CRI 30K COL MVOLT	3,978	33.2	119.8
HVTS 2X4 4000LM 80CRI 30K COLT MVOLT	3,873	33.2	116.7
HVTS 2X4 4000LM 80CRI 35K COL MVOLT	4,126	33.2	124.3
HVTS 2X4 4000LM 80CRI 35K COLT MVOLT	4,017	33.2	121
HVTS 2X4 4000LM 80CRI 40K COL MVOLT	4,255	33.2	128.2
HVTS 2X4 4000LM 80CRI 40K COLT MVOLT	4,144	33.2	124.8
HVTS 2X4 4000LM 80CRI 50K COL MVOLT	4,255	33.2	128.2
HVTS 2X4 4000LM 80CRI 50K COLT MVOLT	4,144	33.2	124.8
HVTS 2X4 5000LM 80CRI 30K COL MVOLT	5,074	41.9	121
HVTS 2X4 5000LM 80CRI 30K COLT MVOLT	4,940	41.9	117.9
HVTS 2X4 5000LM 80CRI 35K COL MVOLT	5,262	41.9	125.5
HVTS 2X4 5000LM 80CRI 35K COLT MVOLT	5,124	41.9	122.2
HVTS 2X4 5000LM 80CRI 40K COL MVOLT	5,428	41.9	129.5
HVTS 2X4 5000LM 80CRI 40K COLT MVOLT	5,285	41.9	126.1
HVTS 2X4 5000LM 80CRI 50K COL MVOLT	5,428	41.9	129.5
HVTS 2X4 5000LM 80CRI 50K COLT MVOLT	5,285	41.9	126.1
HVTS 2X4 6000LM 80CRI 30K COL MVOLT	5,819	50.2	115.8
HVTS 2X4 6000LM 80CRI 30K COLT MVOLT	5,666	50.2	112.8
HVTS 2X4 6000LM 80CRI 35K COL MVOLT	6,035	50.2	120.1
HVTS 2X4 6000LM 80CRI 35K COLT MVOLT	5,877	50.2	117
HVTS 2X4 6000LM 80CRI 40K COL MVOLT	6,225	50.2	123.9
HVTS 2X4 6000LM 80CRI 40K COLT MVOLT	6,061	50.2	120.6
HVTS 2X4 6000LM 80CRI 50K COL MVOLT	6,225	50.2	123.9
HVTS 2X4 6000LM 80CRI 50K COLT MVOLT	6,061	50.2	120.6
HVTS 2X4 7200LM 80CRI 30K COL MVOLT	6,926	55.2	125.6
HVTS 2X4 7200LM 80CRI 30K COLT MVOLT	6,744	55.2	122.3
HVTS 2X4 7200LM 80CRI 35K COL MVOLT	7,184	55.2	130.3
HVTS 2X4 7200LM 80CRI 35K COLT MVOLT	6,995	55.2	126.8
HVTS 2X4 7200LM 80CRI 40K COL MVOLT	7,409	55.2	134.3
HVTS 2X4 7200LM 80CRI 40K COLT MVOLT	7,215	55.2	130.8
HVTS 2X4 7200LM 80CRI 50K COL MVOLT	7,409	55.2	134.3
HVTS 2X4 7200LM 80CRI 50K COLT MVOLT	7,215	55.2	130.8