

# VALTO Modular Luminaire

- Low maintenance and upgradable
- Integrated wired or wireless controls
- 20,000/15,000 lumens
- 35% more lumens on target
- No glare,  $UGR_{ave} < 15$
- Uplight option
- DLC Listed for Selected USA E39 Models\*
- Cosmetic reflector option
- GSA listed/assembled in USA option



RoHS



RoHS



CB

VALTO Luminaire defines a new category in LED lighting, surpassing the historic limitations of lamps and fixtures by combining flexibility with a quantum leap in performance. The platform provides unprecedented modularity with a range of field-upgradeable options, including the LED unit, optical accessories, mounting options and controls.

In the past, manufacturers achieved modularity at the expense of performance, using non-standard interfaces that resulted in poor industry adoption. VALTO's Modular Luminaire breaks that mold by extending performance beyond what is possible with dedicated fixtures and innovations protected by three patents.

First, optics with low glare continue to be an Achilles heel of

even high end fixtures. Filamento's patent-pending integral optics eliminate glare to a very low  $UGR_{ave} < 15$  while producing a highly-optimized optical distribution that increases lumen on target efficiency by 35%.

Additional features include the replaceable VALTO light source that is easily replaceable in the field without the need for a contractor. VALTO light source has optional integrated controls including 0-10V, occupancy/daylight and Bluetooth® wireless.

Filamento entered the LED lighting marketplace in 2017 with its initial VALTO high bay product. It is internationally recognized by Lightfair International, LuxLive, Edison Report and the Sapphire Awards as one of the most innovative products of the year.



[Web Link](#)

\* Not all product variations are DLC qualified. To ensure that a specific model is qualified, visit [www.designlights.org/search](http://www.designlights.org/search) or see specification sheets.

# Modular Design

The modular design gives users the ultimate in versatility and performance. The 400E or the 600 light source can be used independently or with a number of custom accessories that can create a custom fixture designed for your specific needs.

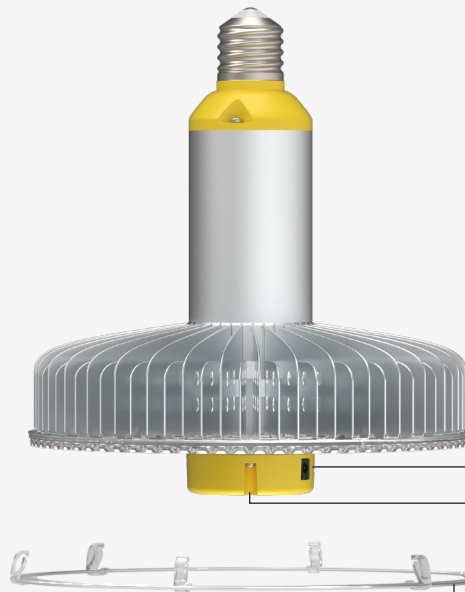
## VALTO Base

Converts VALTO light source into a fixture mounting



## Light Source

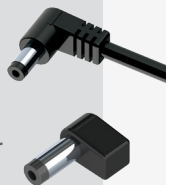
15,000 or 20,000 Lumens  
Integrated optics/no glare  
Lightweight 1.7kg. (3.6lbs.)



## Light Source Options

### Integrated Controls

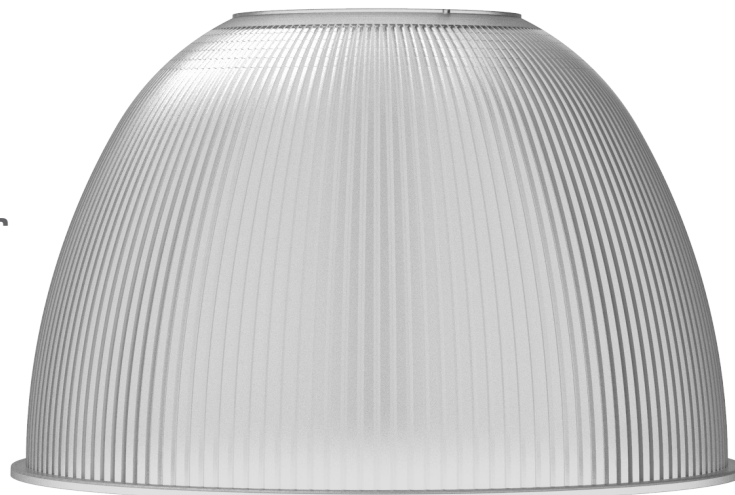
- 0-10V Control Standard
- DC Power Adjuster
- Occupancy and Daylight Control Option
- Bluetooth Control Option



- Uplight Option

## Cosmetic Reflector

Twist and lock to  
VALTO Base for vintage  
industrial aesthetics



# VALTO Light Source – Summary

## Summary

- 35% energy saving due to more lumens on target
- Integral optics with no external reflector required
- Ultralight <1.65 kg/3.6 lbs
- 20,000 lumens/150W/80 CRI for vented or open fixtures
- 15,000 lumens/105W/80 CRI for IC enclosed fixtures
- Low glare with 50° cutoff with  $UGR_{ave} < 15$
- No flicker
- 6 kV surge protection
- Dimmable to 5% then to off with 0-10V controls
- Wireless control options with Bluetooth mesh
- An occupancy and daylight sensor option
- Five years or 50,000 hours warranty
- Worldwide certification including UL, CE, PSE, CB, ROHS and REACH
- DLC Listed for Selected USA E39 Models\*



\* Not all product variations are DLC qualified. To ensure that a specific model is qualified, visit [www.designlights.org/search](http://www.designlights.org/search) or see specification sheets

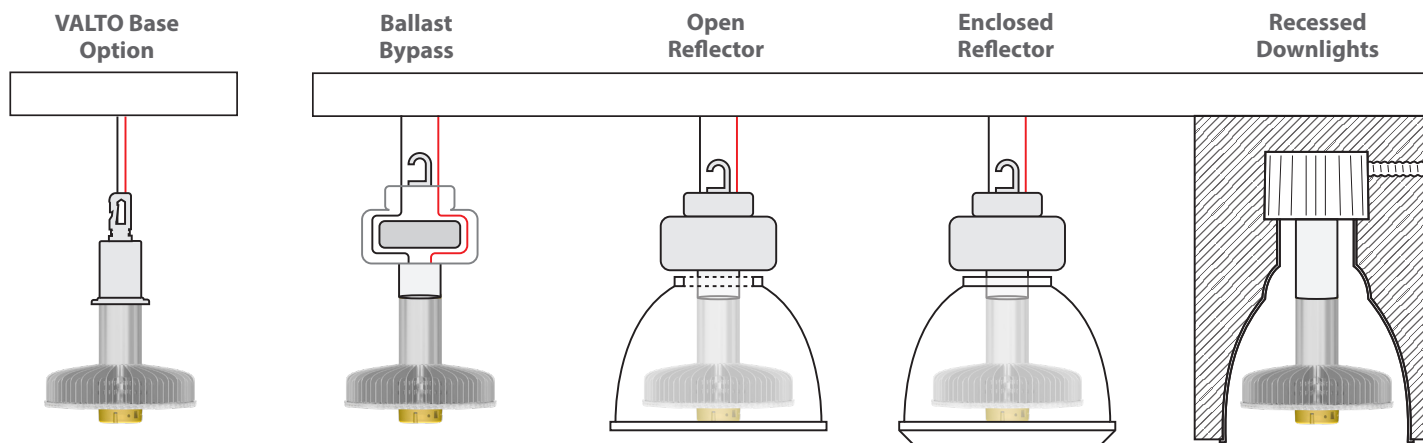
## Astonishingly Light Weight

The patented heat sink design enables an incredibly light product weighing less than 1.7kg (3.6lbs). The light weight enables ease of installation as the product can be easily held in one hand. In addition, multiple products can be hung on the side of a scissor lift, reducing need to go up and down in the lift.

## Architectural Grade Finish

The main body is made from aluminum, which increases thermal conductivity by 2-4x compared to die cast alloys. It has an architectural-grade, bead-blasted, anodized finish similar to an Apple iPhone®. This finish, along with the low-glare optics, enables applications in high ceiling architectural environments such as automotive dealerships, houses of worship, hotel ballrooms, airports, train terminals, gymnasiums, indoor sports arenas, etc.

## Use Anywhere



## Summary

VALTO	400E	600
Mounting	EX39/E40	
Region	NA and Worldwide	
Line Voltage	100-277 VAC 50/60Hz	
DLC Listed	DLC Listed for Selected USA E39 Models*	
Power	105	150
Lumen	15,000	20,000
L/W	143	130
Fixture Compatibility	Vented/enclosed/IC	Vented
Ambient Temp at Full Power	65°C	50°C
Controls	0-10V dimming standard, occupancy or Bluetooth	
Uplight	Optional	

# VALTO Light Source – Highly Optimized Integral Optics

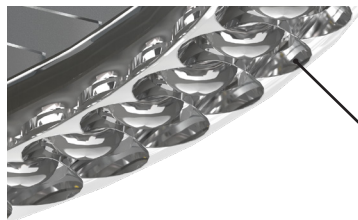
## Summary

Filamento's patent-pending optics have been highly optimized to achieve a combination of never before possible features:

- 35% more lumens on target enabling 105W VALTO to replace 160W competitor LED solutions
- Optical distribution enables one-for-one replacement for current HID spacing
- 1.6-2x higher foot candle/lux efficiency with same lumen versus non-lensed or poorly-lensed LED products
- Micro-baffles to achieve glare cut-off at 50° with  $UGR_{ave} < 15$
- High uniformity with  $E_{min}/E_{ave} > 0.78$  at 1.5 spacing criteria
- Optional uplight in wide angle batwing distribution
- Integral optics without a need for external reflector

## Integral Optics with Micro-Baffles

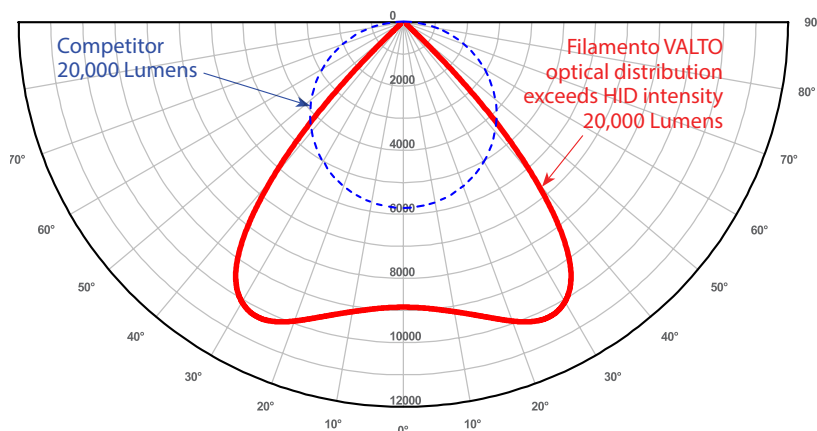
Each lens and LED is recessed into a micro-baffle that cuts off high angle light above 50°. The integral optic eliminates the need for the external reflector. This not only eliminates the typical 30% reflector loss, but the optical distribution is independent of any external reflector.



Each lens and LED is recessed into a micro-baffle that cuts off high angle light above 50°

## Comparison Against Other LED Product

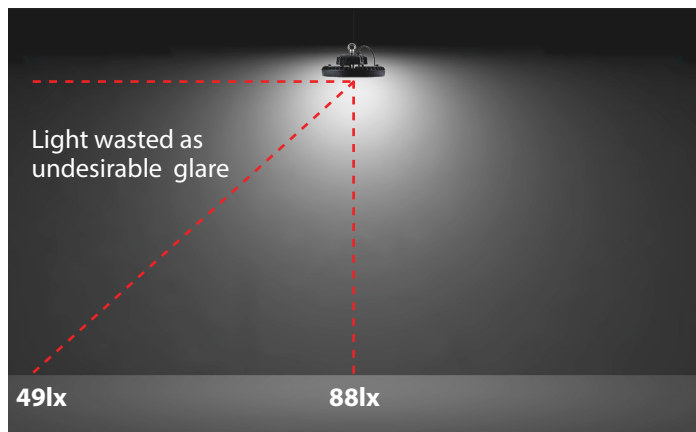
The single VALTO distribution matches the widest HID distribution while exceeding the narrowest HID distribution in center beam.



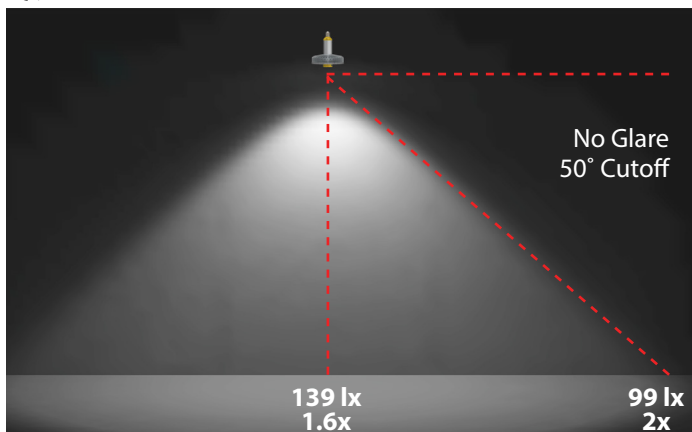
## No Glare 35% Energy Savings from Improved Lumens on Target

Filamento integral optics eliminates glare and delivers previously wasted lumens to target, resulting in 1.6x higher luminance in the center and 2x higher luminance at the edge. In a warehouse environment case study of a thousand fixtures, the highly optimized optical distribution allowed the replacement of 160W competitor LED fixtures with 105W VALTO fixtures, resulting in energy savings of 35%. The batwing distribution eliminates the center hot spot to illuminate the edges more uniformly. In addition, the optics provide a cutoff without the need for an external reflector or need to recess the luminaire.

### Competitor LED (20,000 Lumens)



### VALTO (20,000 Lumens)



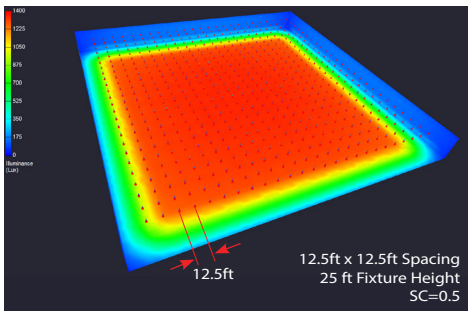


# VALTO Light Source – Ideal Optical Distribution

## Uniform Illumination Over 0.5-1.5 Spacing

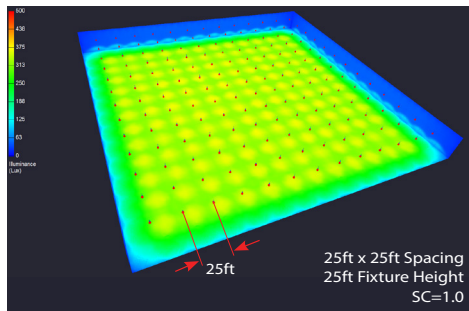
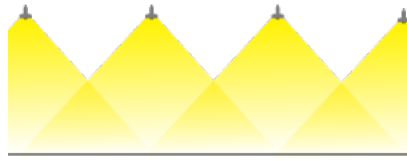
The optical distribution enables excellent intensity that exceeds 400W HID in light levels and uniformity with Min/Avg>0.75 for spacing criteria SC=0.5-1.5. Simultaneously, low glare is achieved with a 50° cutoff using patent-pending micro-baffle technology. For most applications, spacing the luminaire at the same height of the previous luminaire will provide good uniformity and light levels.

Spacing Criteria = 0.5  
12.5ft/3.8m Spacing  
25ft/7.6m Height



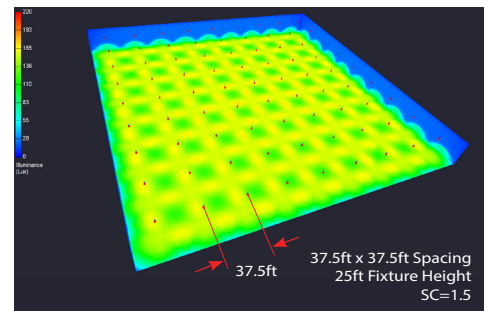
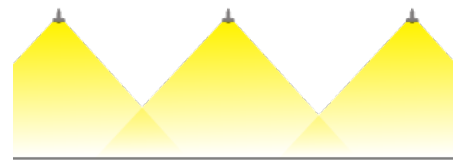
Average: 1,333 lux (124 fc)  
Min/Avg = 0.98 : Avg/Min = 1.02  
Min/Max = 0.97 : Max/Min = 1.03

Spacing Criteria = 1.0  
25ft/7.6m Spacing  
25ft/7.6m Height



Average: 340 lux (31 fc)  
Min/Avg = 0.94 : Avg/Min = 1.06  
Min/Max = 0.86 : Max/Min = 1.16

Spacing Criteria = 1.5  
37.5ft/11.4m Spacing  
25ft/7.6m Height



Average: 152 lux (14 fc)  
Min/Avg = 0.78 : Avg/Min = 1.28  
Min/Max = 0.76 : Max/Min = 1.31

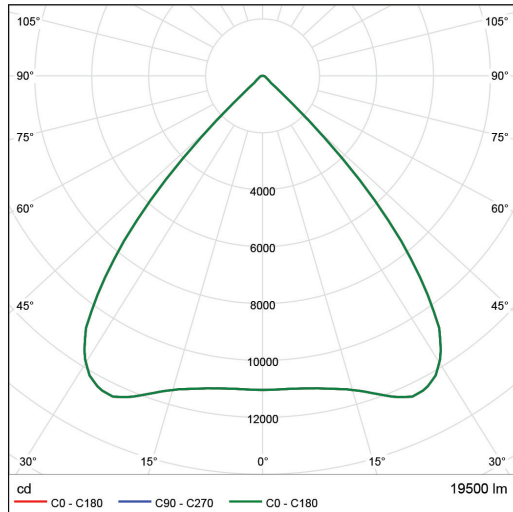
## Comparison of Filamento Optics vs Competition

Filamento's patented optics reduces glare and directs light to the floor, resulting in visual comfort, no light loss to glare and significantly higher light levels. For video case study see [Aberdeen](#).

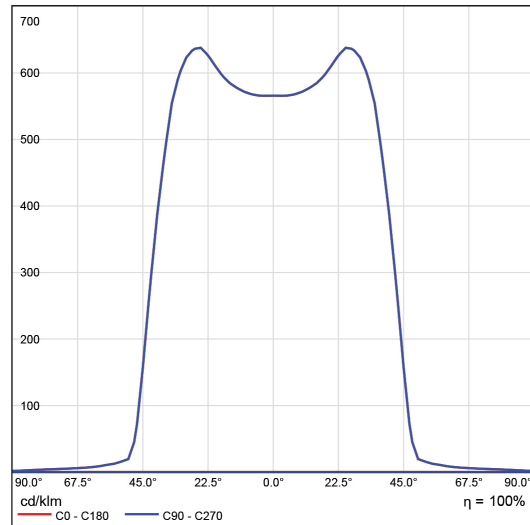


# VALTO 600 – 150W/20,000L/80 CRI

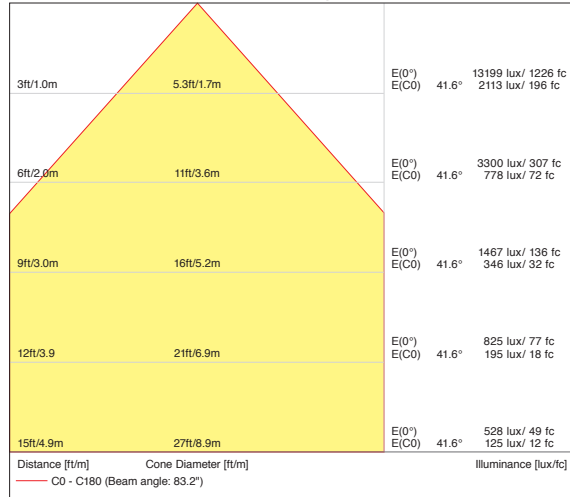
Luminous emittance 1 / Polar LDC



Luminous emittance 1 / Linear LDC



Luminous emittance 1 / Cone diagram

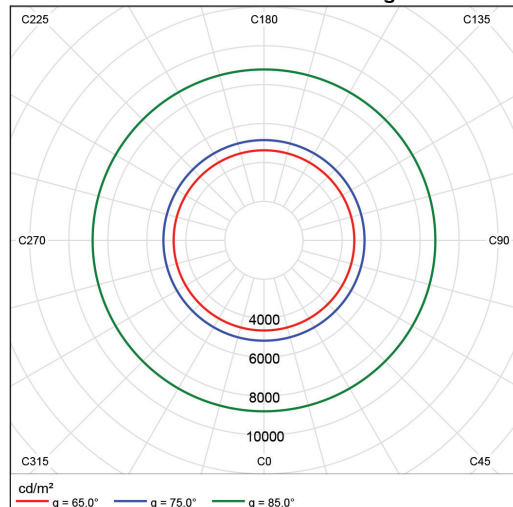


Luminous emittance 1 / UGR diagram  $UGR_{ave} < 15$

Glare evaluation according to UGR											
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	9.2	10.0	9.4	10.2	10.4	9.2	10.0	9.4	10.2	10.4
	3H	10.6	11.3	10.9	11.5	11.8	10.6	11.3	10.9	11.5	11.8
	4H	11.3	12.0	11.6	12.3	12.5	11.3	12.0	11.6	12.3	12.5
	6H	12.2	12.8	12.5	13.1	13.4	12.2	12.8	12.5	13.1	13.4
	8H	12.7	13.2	13.0	13.5	13.8	12.7	13.2	13.0	13.5	13.8
	12H	13.1	13.6	13.4	14.0	14.3	13.1	13.6	13.4	14.0	14.3
4H	2H	9.6	10.2	9.9	10.5	10.7	9.6	10.2	9.9	10.5	10.7
	3H	11.3	11.8	11.6	12.1	12.4	11.3	11.8	11.6	12.1	12.4
	4H	12.2	12.7	12.6	13.1	13.4	12.2	12.7	12.6	13.1	13.4
	6H	13.3	13.7	13.7	14.1	14.5	13.3	13.7	13.7	14.1	14.5
	8H	13.9	14.3	14.3	14.6	15.0	13.9	14.3	14.3	14.6	15.0
	12H	14.5	14.8	14.9	15.2	15.6	14.5	14.8	14.9	15.2	15.6
8H	4H	12.7	13.0	13.1	13.4	13.8	12.7	13.0	13.1	13.4	13.8
	6H	14.0	14.3	14.4	14.7	15.1	14.0	14.3	14.4	14.7	15.1
	8H	14.7	14.9	15.2	15.4	15.8	14.7	14.9	15.2	15.4	15.8
	12H	15.4	15.6	15.9	16.1	16.6	15.4	15.6	15.9	16.1	16.6
12H	4H	12.7	13.1	13.2	13.5	13.9	12.7	13.1	13.2	13.5	13.9
	6H	14.2	14.4	14.6	14.8	15.3	14.2	14.4	14.6	14.8	15.3
	8H	14.9	15.1	15.4	15.6	16.1	14.9	15.1	15.4	15.6	16.1

The UGR values are calculated in acc. with CIE Publ. 117. Spacing-to-height ratio = 1.00

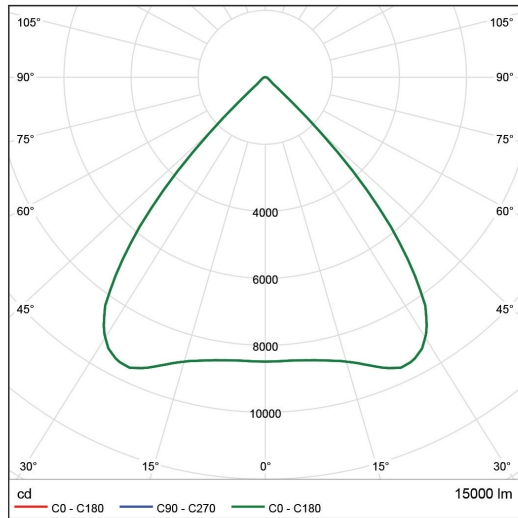
Luminous emittance 1 / Luminance diagram



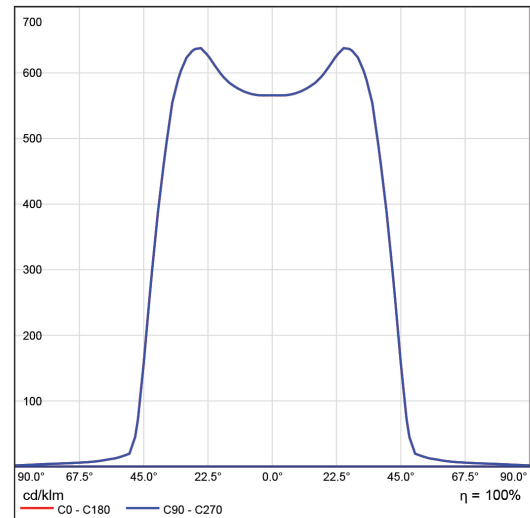
VALTO 600 (20,000 Lumens)			Luminaire Height					
			25ft (7.5m)	30ft (9m)	35ft (10.5m)	40ft (12m)	45ft (13.5m)	50ft (15m)
Luminaire Spacing	20 ft (6m)	lux	578	569	566	560	556	551
		fc	54	53	53	52	52	51
		U <sub>0</sub> (min/ave)	0.80	0.78	0.72	0.68	0.64	0.62
	25 ft (7.5m)	lux	378	373	372	368	365	361
		fc	35	35	35	34	34	34
		U <sub>0</sub> (min/ave)	0.83	0.81	0.77	0.71	0.66	0.63
	30 ft (9m)	lux	264	266	265	261	260	258
		fc	25	25	25	24	24	24
		U <sub>0</sub> (min/ave)	0.93	0.91	0.91	0.70	0.80	0.74
	35 ft (10.5m)	lux	192	192	192	192	190	189
		fc	18	18	18	18	18	18
		U <sub>0</sub> (min/ave)	0.71	0.86	0.83	0.90	0.90	0.84

# VALTO 400E – 105W/15,000L/80 CRI

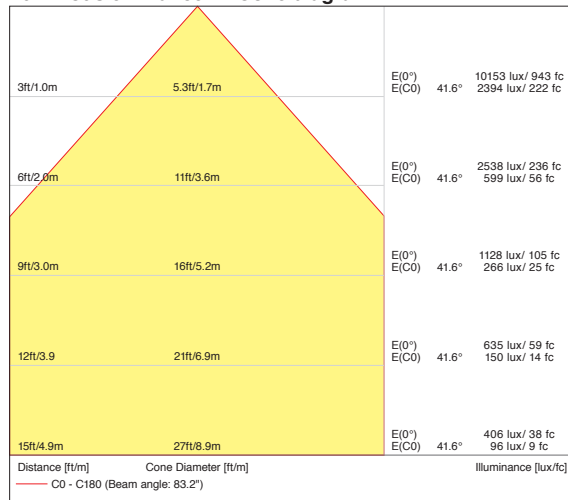
Luminous emittance 1 / Polar LDC



Luminous emittance 1 / Linear LDC



Luminous emittance 1 / Cone diagram

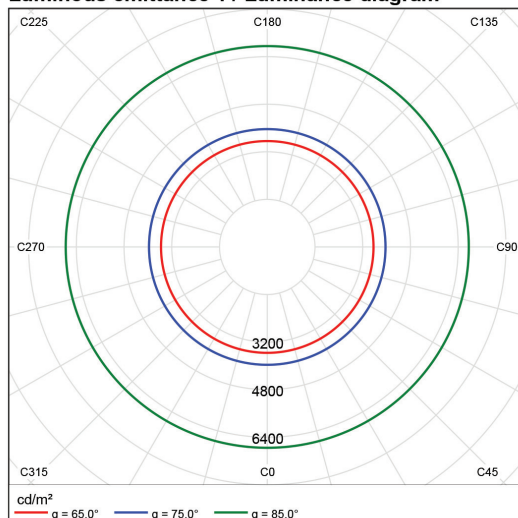


Luminous emittance 1 / UGR diagram  $UGR_{ave} < 15$

Glare evaluation according to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p Floor		20	20	20	20	20	20	20	20	20	20	
Room size		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
X	Y											
2H	2H	8.3	9.1	8.5	9.3	9.5	8.3	9.1	8.5	9.3	9.5	
	3H	9.7	10.4	10.0	10.6	10.8	9.7	10.4	10.0	10.6	10.8	
	4H	10.4	11.1	10.7	11.3	11.6	10.4	11.1	10.7	11.3	11.6	
	6H	11.3	11.9	11.6	12.2	12.5	11.3	11.9	11.6	12.2	12.5	
	8H	11.7	12.3	12.1	12.6	12.9	11.7	12.3	12.1	12.6	12.9	
	12H	12.2	12.7	12.5	13.0	13.4	12.2	12.7	12.5	13.0	13.4	
4H	2H	8.7	9.3	9.0	9.6	9.8	8.7	9.3	9.0	9.6	9.8	
	3H	10.3	10.9	10.7	11.2	11.5	10.3	10.9	10.7	11.2	11.5	
	4H	11.3	11.8	11.7	12.1	12.5	11.3	11.8	11.7	12.1	12.5	
	6H	12.4	12.8	12.8	13.2	13.6	12.4	12.8	12.8	13.2	13.6	
	8H	13.0	13.3	13.4	13.7	14.1	13.0	13.3	13.4	13.7	14.1	
	12H	13.6	13.9	14.0	14.3	14.7	13.6	13.9	14.0	14.3	14.7	
8H	4H	11.7	12.1	12.2	12.5	12.9	11.7	12.1	12.2	12.5	12.9	
	6H	13.1	13.4	13.5	13.8	14.2	13.1	13.4	13.5	13.8	14.2	
	8H	13.8	14.0	14.3	14.5	14.9	13.8	14.0	14.3	14.5	14.9	
	12H	14.5	14.7	15.0	15.2	15.7	14.5	14.7	15.0	15.2	15.7	
12H	4H	11.8	12.1	12.3	12.5	13.0	11.8	12.1	12.3	12.5	13.0	
	6H	13.2	13.5	13.7	13.9	14.4	13.2	13.5	13.7	13.9	14.4	
	8H	14.0	14.2	14.5	14.7	15.2	14.0	14.2	14.5	14.7	15.2	

The UGR values are calculated in acc. with CIE Publ. 117. Spacing-to-height ratio = 1.00

Luminous emittance 1 / Luminance diagram



		Luminaire Height					
		25ft (7.5m)	30ft (9m)	35ft (10.5m)	40ft (12m)	45ft (13.5m)	50ft (15m)
Luminaire Spacing	20ft (6m)	lux	444	438	435	431	428
		fc	41	41	40	40	39
		$U_0$ (min/ave)	0.80	0.78	0.72	0.68	0.62
	25ft (7.5m)	lux	291	287	286	283	281
		fc	27	27	27	26	26
		$U_0$ (min/ave)	0.83	0.81	0.77	0.71	0.66
	30ft (9m)	lux	203	205	204	201	200
		fc	19	19	19	19	18
		$U_0$ (min/ave)	0.93	0.91	0.91	0.70	0.80
	35ft (10.5m)	lux	148	148	148	148	147
		fc	14	14	14	14	13
		$U_0$ (min/ave)	0.71	0.86	0.84	0.90	0.84

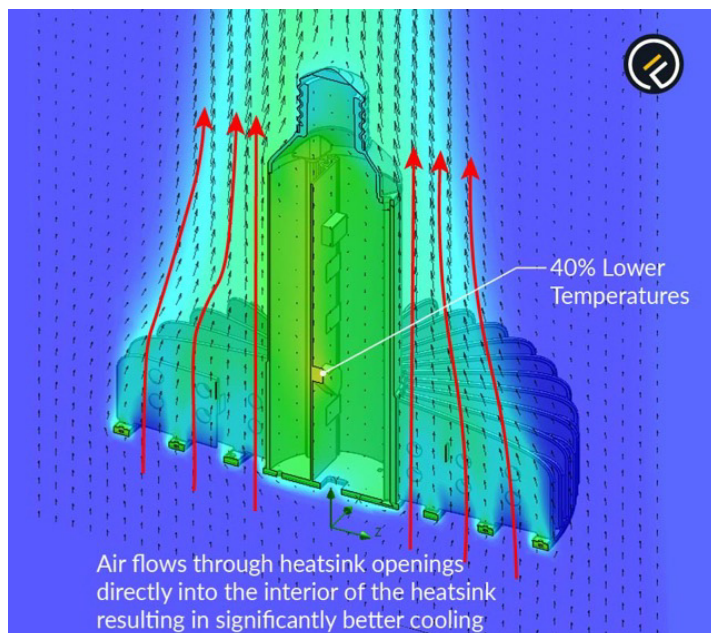
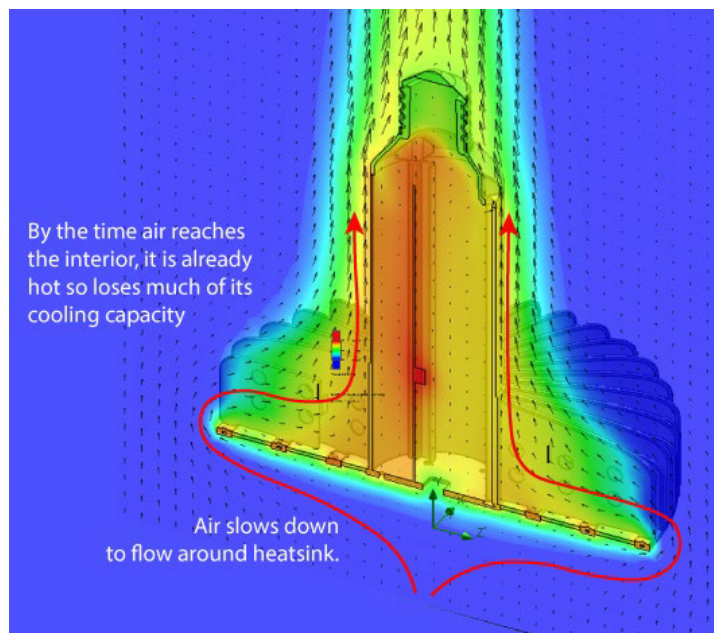


# VALTO Light Source – Thermals

## Amazing Thermal Efficiency

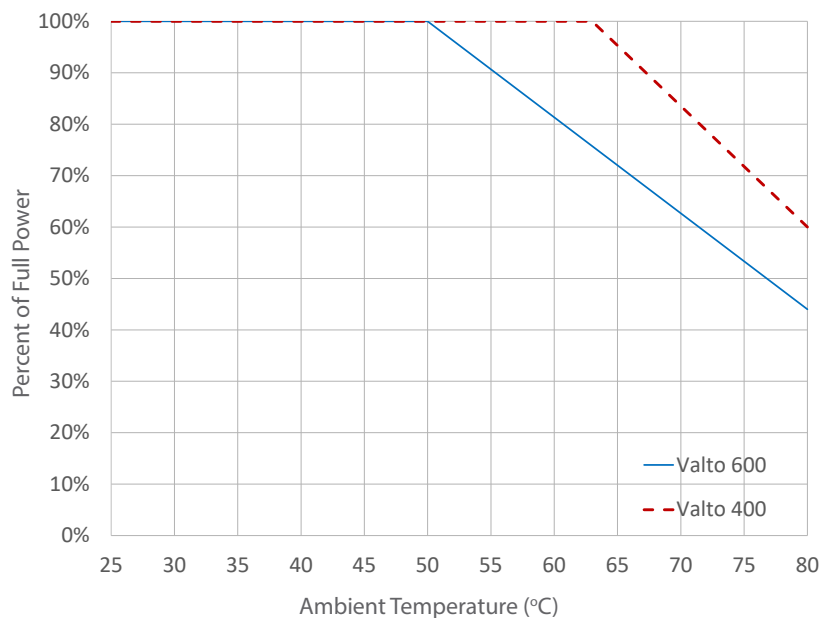
The patented heat sink improves heat dissipation by 40%. By adding a series of openings on the front face, this significantly increases the air flow to the center portions of the heat sink. In addition, the heat sink is made of pure aluminum, which has 2-4x better thermal conductivity than cheaper aluminum alloys.

### Competitor



## Over Temperature Protection

The VALTO 600 (150W) is able to operate at full power up to 50°C ambient while VALTO 400 (105W) is able to operate at full power up to an ambient of 65°C. Above these ambient temperatures, the driver automatically turns down the power level to protect itself from overheating. The approximate light output as function of ambient temperature is shown in the graph below.

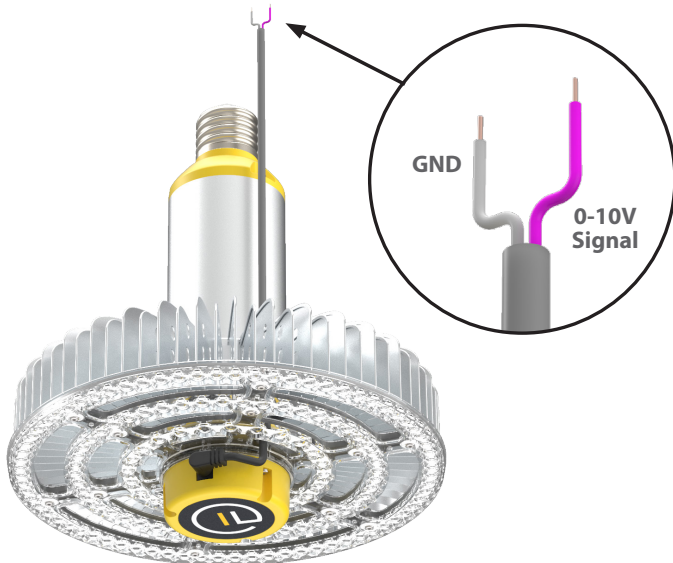


# VALTO Light Source – 0-10V



[Web Link](#)

0-10V is the simplest control implementation compatible with traditional 0-10V facility dimmers. The dimming signal input is in the modular connector at the front cap. A cable with the mating connector can be purchased separately. The unit will dim to 5% power level at 0.5V value before turning itself completely off. 0-10V control is compatible only when operating from direct AC line voltage.



## DC Power Adjuster

The DC power adjuster enables the end customer to dim the light source to a fixed level in the field. For example, the 70% DC power adjuster will adjust the 150W VALTO 600 to 105W. The 70% power adjuster will adjust a 150W VALTO 600 to 105W. This combination will allow the VALTO 600 to be used in an enclosed fixture similar to a VALTO 400, meaning fewer stocking items are needed. The standard power adjusters are 50% and 70%.



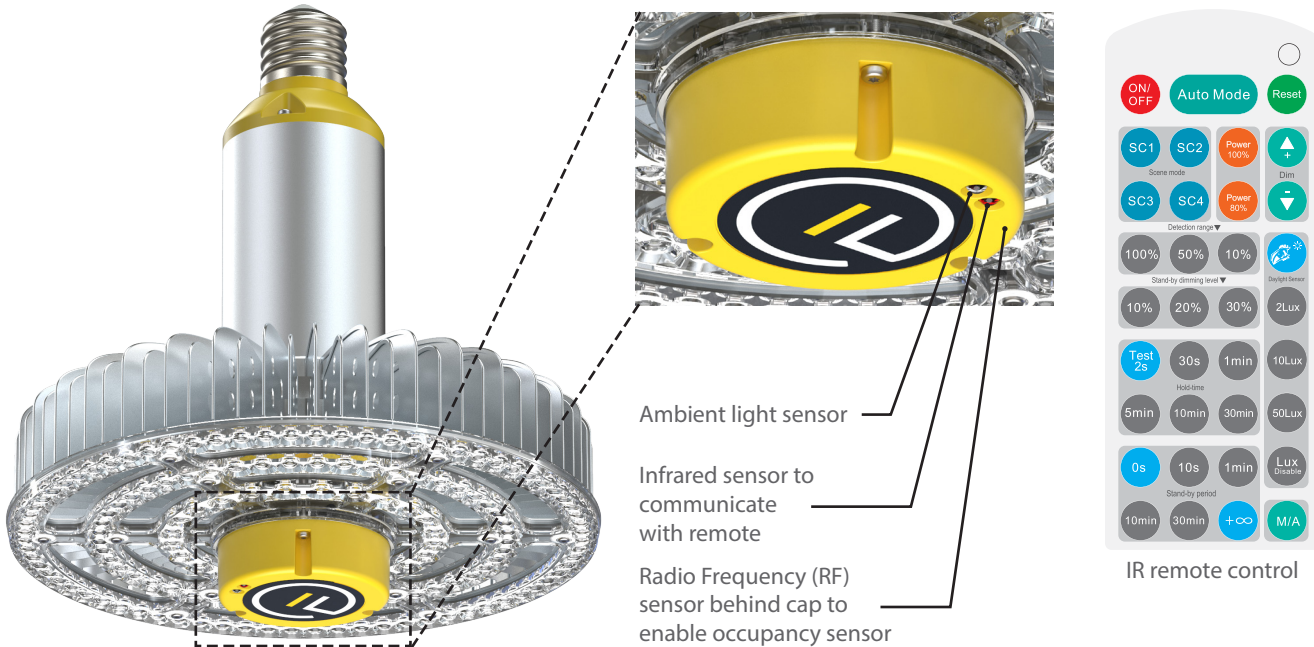


# VALTO Light Source – Occupancy and Daylight



[Web Link](#)

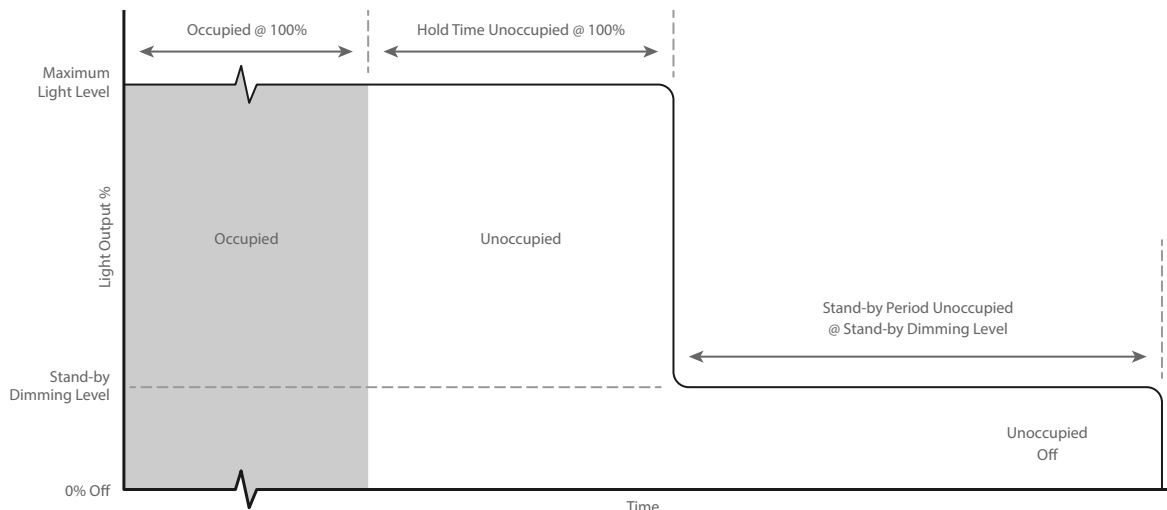
- RF occupancy sensitive to at least 50 feet (15 meters)
- Daylight sensor
- Tri-level dimming
- Custom IR remote control to at least 66 feet (20 meters)
- Each sensor controls its own light
- Four preset scenes for ease of programming



## Occupancy and Daylight Sensing

The occupancy sensor is capable of detecting motion up to 49 feet (15 meters) away by using Radio Frequency (RF) technology. Unlike traditional PIR sensors, RF sensors work in high temperature environments as well as in fully-enclosed fixtures. The sensor is compatible operating only from direct AC line voltage.

The sensor controls the light output to three levels: maximum, dimmed and off. It can program two periods of selectable waiting options: hold-time and stand-by period. Using the daylight sensor to detect ambient light, the fixture can turn itself off regardless of occupancy status. These levels, as well as motion sensitivity and hold times, are user programmable by the IR remote control. The IR remote has been custom designed for operation in high-bay applications and will control the sensor at least 66 feet (20 meters) away.



# VALTO Light Source – Bluetooth Mesh (USA Only)



[Web Link](#)

Lighting controls that are easy to use, install and change

## Just works

Automated functionality with simple override for special events

## Optimizes ROI

Maximum energy savings, comfort and productivity

## Self-managed through a simple smartphone application

Intuitive tools enable rapid setup and empower on-site staff to make simple changes

## Doesn't require IT support

Stand-alone system, eliminating integration and cybersecurity concerns

## Gateway-free mesh architecture

No single point of failure or scaling challenges

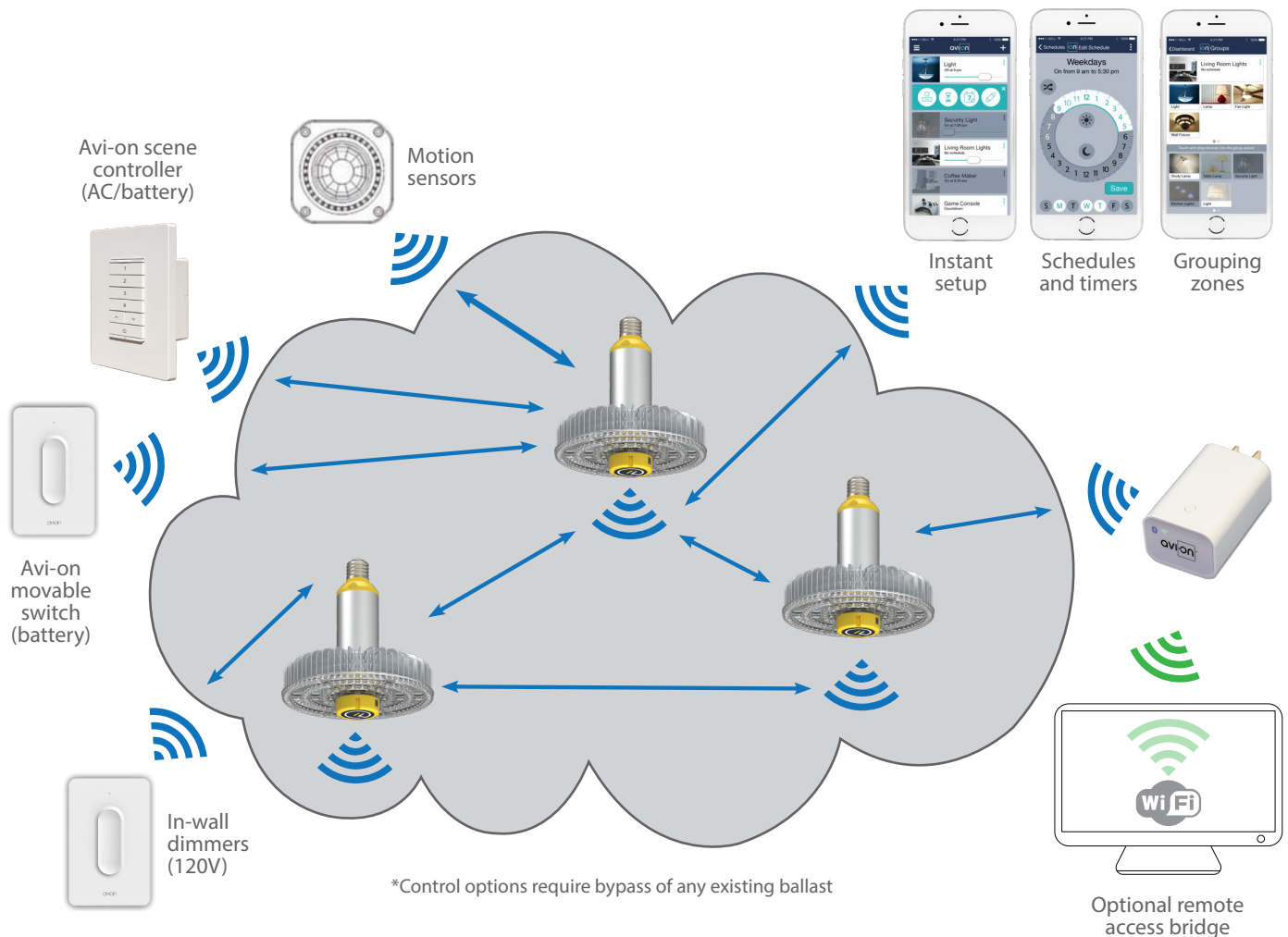
## Optional cloud connectivity

Supports remote diagnostics and future upgrades

In Partnership with



## Product Ecosystem





## Summary

The uplight accessory consists of an annular ring that reflects 15% of the downlight into a batwing distribution onto the ceiling. Indirect uplight provides greater visual comfort and enhanced environmental aesthetics, eliminating the cavern effect. Applications include retail spaces, gymnasiums, houses of worship and assembly spaces.

The accessory is sold separately and can be installed in the field without special tools. This feature enables flexibility for the end customer, while minimizing the number of inventory items.

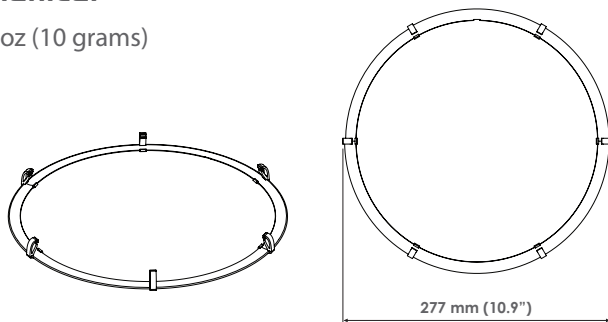
Constructed of polished aluminum and weighing less than a half-ounce, the accessory includes polycarbonate clips for secure attachment to the lamp.

## Compatibility

- Easy, snap-on design
- Compatible with all VALTO 400E and 600 products including "VL", "VH" and "Luminaire" series
- Compatible with all power levels and CCT

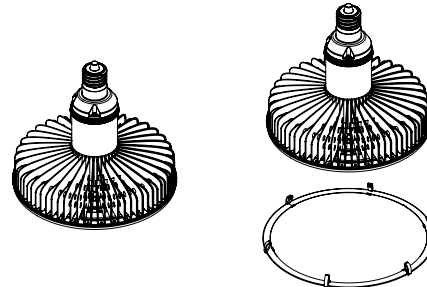
## Mechanical

- 0.35 oz (10 grams)

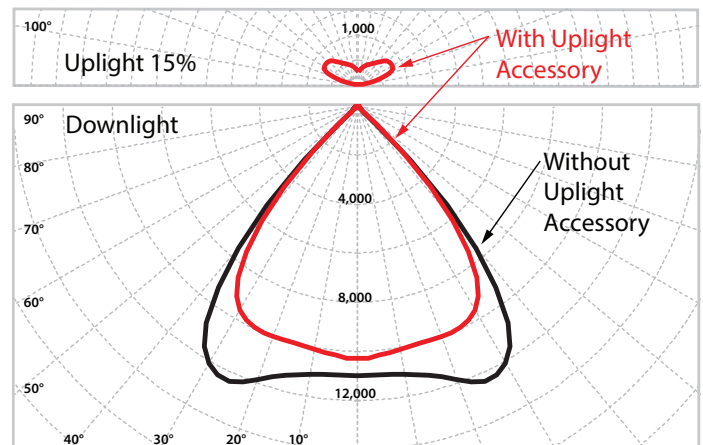


## Assembly

The accessory simply snaps onto the outer edge of the VALTO lens without the need for any tools. See video link for installation demo.



## Example Optical Distribution for 150W/20,000 Lumens



## Example Rendering

Traditional prismatic HID reflectors create a visually comfortable environment by providing uplight that eliminates the "cavern" effect in large spaces. The Filamento uplight accessory avoids the latter effect and is engineered to create a uniform area of light on the ceiling.

### VALTO with Uplight Accessory



### Uplight from Traditional HID with Acrylic Reflector



# VALTO Base

The VALTO Base converts the VALTO 400E or 600 light source to a luminaire with a standard hook mount. The hook can be removed to reveal a 3/4" NPT thread that directly mounts to a conduit. Other more aesthetic mountings are available in pendant stem, suspended cable or direct to junction box. See the VALTO mounting options cut sheet. An optional aircraft steel safety cable is available designed to attach to the base for a fail-safe attachment.

Some feature highlights include:

- White matte powder coat finish
- 2 meter white cable, terminated with 3 bare wire 18 AWG
- 1 kg/2.2 lb (including weight of 2M cable)
- Optional 1 meter safety cable
- Compatible with all VALTO 400E/600 light source

## Certifications



[Web Link](#)

# Cosmetic Prismatic Reflector

A cosmetic prismatic reflector is available to create a traditional high-bay aesthetic. However, this reflector is not needed and its installation does not alter the light distribution. The VALTO light source has integral optics that create a cutoff at 50°, eliminating glare so an external reflector is not required.

Some feature highlights include:

- Clear polycarbonate with prismatic ridges
- Compatible with all mounting options
- No tool required to assemble to VALTO Base
- 1.45 kg/3.2 lb
- Optional uplight accessory to light up top of reflector and ceiling

## Certifications



[Web Link](#)

Project	Type
Product Code	Date

# VALTO LS 400E/600: E39x

## North America/Japan/Korea

### Summary

- DLC listed for line voltage and ballast by-pass 120-277 VAC
- Five years or 50,000 hours warranty<sup>3</sup>

### 150W Version - UL Listed for Open or Vented Fixture

- 20,000 lumens, 130 L/W
- Ambient air operation to 50°C/122°F at full power

### 105W Version - UL Listed for Enclosed or IC Fixture

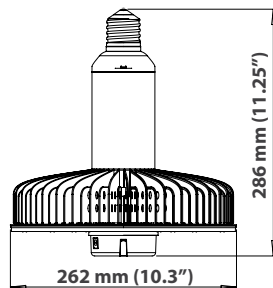
- 15,000 lumens, 143 L/W
- Ambient air operation at full output power:
  - 45°C/122°F for enclosed or IC fixture
  - 65°C/149°F for vented fixture or open

### Control Options

- 0-10V (dim to off at 0V)
- RF occupancy and daylight sensor option
- Bluetooth option

### Mechanical

- E39, E39X socket compatible
- Vertical orientation only
- Beautiful anodized solid aluminum body
- 1.65 kg/3.6 lb
- Fanless for high reliability and efficiency
- Safety harness optional



### Photometry

- No external reflector needed, thus no reflector loss factor
- 50° glare cutoff with  $UGR_{ave} < 15$
- Optical distribution enable high uniformity with  $E_{Min/Avg} > 0.75$  for spacing criteria from 0.5 to 1.5
- Compatible with uplight accessory

### Electrical - Ballast Bypass - UL Type B

- No flicker
- 6 kV surge protection
- No inrush current
- 90-305 VAC 50/60 Hz input voltage max
- PF > 0.9/THD < 20%

VAC	100	110	120	220	240	277
AMPS	1.5	1.36	1.25	0.68	0.63	0.54

### Certifications

- UL damp listed for 120-277VAC
- UL certified for 1598C for ballast bypass
- Suitable for dry and damp locations
- This device is not intended for use with emergency exits



[Web Link](#)

### Ordering Information

Controls	Fixture Compatibility	Max. Envir. Temp.	Product Code	Part #	Watts	Lumens	CCT	DLC ID	DLC Type
0-10V	Open or Vented	50°C	00604	VAL-E39-150-8-40-VL-AN-B90-010-000	150	20,000	4,000K	PM3QGIHX	Standard
			00612	VAL-E39-150-8-50-VL-AN-B90-010-000	150	20,000	5,000K	PQQ6MNVF	Standard
	Open or Vented/IC or Enclosed	65°C/45°C <sup>1</sup>	00600	VAL-E39-105-8-40-VL-AN-B90-010-000	105	15,000	4,000K	PA89E5UU	Standard
			00608	VAL-E39-105-8-50-VL-AN-B90-010-000	105	15,000	5,000K	PV9H05GS	Standard
Occupancy and Daylight Sensor	Open or Vented	50°C	03202	VAL-E39-150-8-40-VL-AN-B90-OC1-000	150	20,000	4,000K	P33PBOZJ	Standard
			03206	VAL-E39-150-8-50-VL-AN-B90-OC1-000	150	20,000	5,000K	PNQBED4E	Standard
	Open or Vented/IC or Enclosed	65°C/45°C <sup>1</sup>	03200	VAL-E39-105-8-40-VL-AN-B90-OC1-000	105	15,000	4,000K	PGXIW65R	Standard
			03204	VAL-E39-105-8-50-VL-AN-B90-OC1-000	105	15,000	5,000K	PYHZ7DRC	Standard
Bluetooth® Wireless <small>*USA Only</small>	Open or Vented	50°C	03402	VAL-E39-150-8-40-VL-AN-B90-BLE-000	150	20,000	4,000K	POK9N790	Standard
			03406	VAL-E39-150-8-50-VL-AN-B90-BLE-000	150	20,000	5,000K	PGJWODKN	Standard
	Open or Vented/IC or Enclosed	65°C/45°C <sup>1</sup>	03400	VAL-E39-105-8-40-VL-AN-B90-BLE-000	105	15,000	4,000K	PEKOI5EL	Standard
			03404	VAL-E39-105-8-50-VL-AN-B90-BLE-000	105	15,000	5,000K	PFNI7PKG	Standard

1. Unless otherwise specified, all values are typical at 25°C with no optical accessory.  
 2. See limited warranty for details.  
 3. Specifications subject to change without notice.

4. Not intended for use in wet environments or environments containing airborne corrosive agents such as chemicals, solvents or cutting fluids.



Project	Type
Product Code	Date

# VALTO LS 400E/600: E40

Europe/Asia/Australia

## Summary

- Hybrid design allows for operation with line voltage 100-277 VAC and HID magnetic ballast
- Five years or 50,000 hours warranty<sup>3</sup>

## 150W Version - Open or Vented Fixture

- 20,000 Lumens, 130 L/W
- Ambient air operation to 50°C/122°F at full power

## 105W Version - Enclosed or IC Fixture

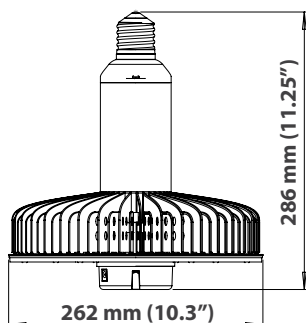
- 15,000 Lumens, 143 L/W
- Ambient air operation at full output power:
- 45°C/122°F for enclosed or IC fixture
- 65°C/149°F for vented fixture or open

## Control Options

- 0-10V (dim to off at 0V)
- RF occupancy and daylight sensor option
- Bluetooth option

## Mechanical

- E40 socket compatible
- Vertical orientation only
- Beautiful anodized solid aluminum body
- 1.65 kg/3.6 lb
- Fanless for high reliability and efficiency
- Safety harness optional



## Photometry

- No external reflector needed thus no reflector loss factor
- 50° glare cutoff with  $UGR_{ave} < 15$
- Optical distribution with high uniformity  $E_{Min/Avg} > 0.75$  SC=0.5 to 1.5

## Electrical - Type A

- 90-305 VAC 50/60 Hz input voltage max
- No flicker/6 kV surge protection
- No inrush current
- PF>0.9/THD<20%

VAC	100	110	120	220	240	277
AMPS	1.5	1.36	1.25	0.68	0.63	0.54

## Ballast Compatibility - Type B

VL series is compatible with HID magnetic ballast between 175-600W. Such ballast types include probe start, pulse start, CWA or reactive. The table below shows compatible ballast that have been tested.

	175W	200W	250W	320W	350W	400W	600W
<b>Metal Halide</b>	M57, M137/ M152 MH175		M138/ M153, MH250	M132/ M154	M131	M155/ M135, M59, MH400	
<b>HPS</b>		S66	S50, NG250			S51, NG400	S106, NG600
<b>MV</b>	H175						

## Certifications



[Web Link](#)

## Ordering Information

Controls	Fixture Compatibility	Max. Envir. Temp.	Product Code	Part #	Watts	Lumens	CCT
<b>0-10V</b>	Open or Vented	50°C	00620	VAL-E40-150-8-40-VL-AN-B90-010-000	150	20,000	4,000K
			00628	VAL-E40-150-8-50-VL-AN-B90-010-000	150	20,000	5,000K
	Open or Vented/IC or Enclosed	65°C/45°C <sup>1</sup>	00616	VAL-E40-105-8-40-VL-AN-B90-010-000	105	15,000	4,000K
			00624	VAL-E40-105-8-50-VL-AN-B90-010-000	105	15,000	5,000K
<b>Occupancy and Daylight Sensor</b>	Open or Vented	50°C	03210	VAL-E40-150-8-40-VL-AN-B90-OC1-000	150	20,000	4,000K
			03214	VAL-E40-150-8-50-VL-AN-B90-OC1-000	150	20,000	5,000K
	Open or Vented/IC or Enclosed	65°C/45°C <sup>1</sup>	03208	VAL-E40-105-8-40-VL-AN-B90-OC1-000	105	15,000	4,000K
			03212	VAL-E40-105-8-50-VL-AN-B90-OC1-000	105	15,000	5,000K

1. Unless otherwise specified, all values are typical at 25°C with no optical accessory.  
2. 65°C for open or vented fixture, 45°C in total enclosed for Enclosed or IC Fixture  
3. See limited warranty for details.

4. Not intended for use in wet environments or environments containing airborne corrosive agents such as chemicals, solvents or cutting fluids.  
5. Specifications subject to change without notice

# VALTO Base and Reflector

Project	Type
Product Code	Date

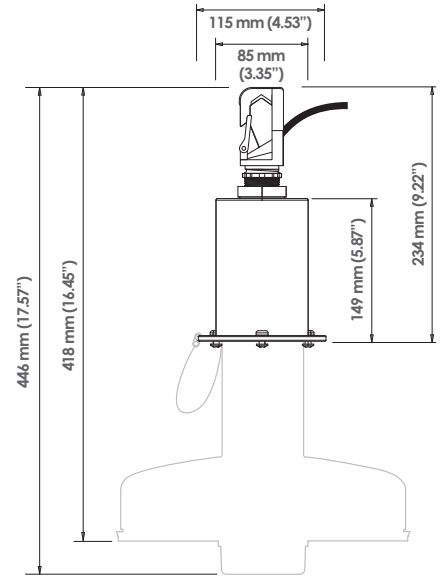
## VALTO Base

The VALTO Base converts the VALTO 400E or 600 light source to a luminaire with a standard hook mount. The hook can be removed to reveal a 3/4" NPT thread that directly mounts to a conduit. Other more aesthetic mountings are available in pendant stem, suspended cable or direct to junction box. See the VALTO mounting options cut sheet. An optional aircraft steel safety cable is available and designed to attach to the base for a fail-safe attachment.

Some feature highlights include:

- White matte powder coat finish
- Two meter white cable, terminated with three bare wire 18 AWG
- 1 kg/2.2 lb (including weight of 2M cable)
- Optional one meter safety cable

### Certifications



### Ordering Information

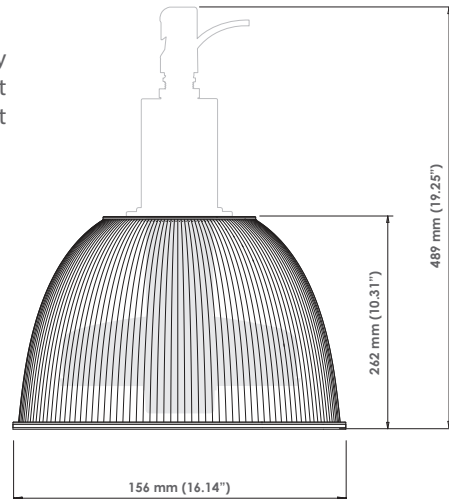
	Description	Product Code	Part #
VALTO Base	VALTO Base E39 White Hook Bare Wires	03810	ADP-E39-HKS-20-Wire-0000-000-000
	VALTO Base E40 White Hook Bare Wires	03811	ADP-E40-HKS-20-Wire-0000-000-000
	VALTO Base Safety Cable – .75 Meters	03027	SCB-001

## Optional Cosmetic Prismatic Reflector

A cosmetic prismatic reflector is available to create a traditional high-bay aesthetic. However, this reflector is not needed and its installation does not alter the light distribution. The VALTO light source has integral optics that create a cutoff at 50°, eliminating glare so an external reflector is not required.

Some feature highlights include:

- Clear polycarbonate with prismatic ridges
- Compatible with all mounting options
- No tool required to assemble to VALTO Base
- 1.45 kg/3.2 lb
- Optional uplight accessory to light up top of reflector and ceiling



### Certifications



### Ordering Information

	Description	Product Code	Part #
Optional Accessories	Cosmetic Prismatic Reflector 001	03014	RFL-PR01-001

1. Unless otherwise specified, all values are typical at 25°C with no optical accessory.
2. See limited warranty for details.
3. Specifications subject to change without notice.

4. Not intended for use in wet environments or environments containing airborne corrosive agents such as chemicals, solvents or cutting fluids.

Project	Type
Product Code	Date

# VALTO Accessories

## VALTO Uplight Accessory

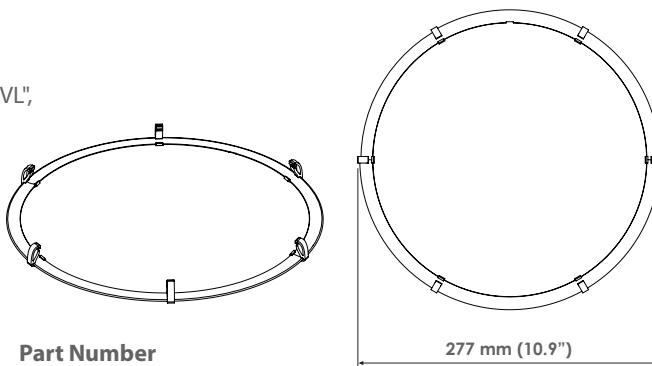
- Easy, snap-on design
- Compatible with all VALTO 400 and 600 products including "VL", "VH" and "Luminaire" series
- Compatible with all power levels and CCT

### Mechanical

- 0.35 oz (10 grams)

### Ordering Information

Description	Product Code	Part Number
Optical Accessory 12" 15% Uplight	03000	ACC-12-UA15-001



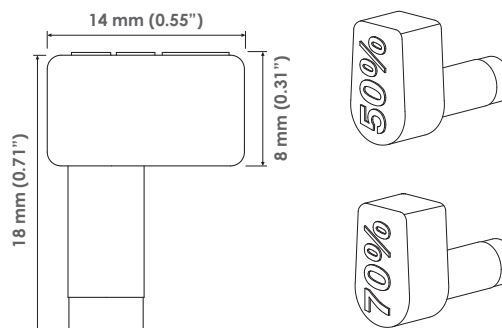
[Web Link](#)

## Power Adjuster

The power adjuster plugs into the modular connector in front cap and provides a fixed power adjustment of 70% or 50%. For example plugging the power adjuster the VALTO 600 dims the unit from 150W to 105W.

### Ordering Information

Description	Product Code	Part Number
DC Power Adjuster 50%	03023	PA50
DC Power Adjuster 70%	03024	PA70



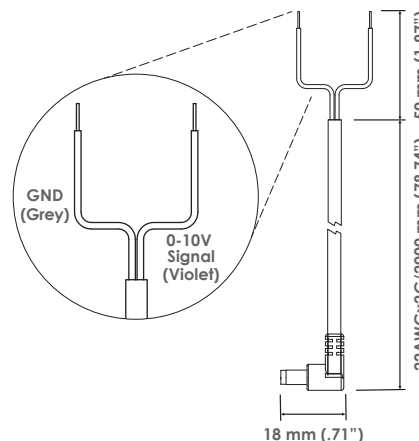
[Web Link](#)

## 2 Meter DC Dimmer Cable

The cable connects the modular connector on the front cap to a 0-10V control signal.

### Ordering Information

Description	Product Code	Part Number
0-10V Dimming Cable 2 Meter	3008	CAB-US-010V-000



[Web Link](#)

## IR Remote Control

IR remote control is designed to work with Occupancy Daylight sensor. Requires two AA battery.

Description	Product Code	Part #
Remote Control for Occupancy Sensor	03002	IRR-XX-001-000



[Web Link](#)

Project	Type
Product Code	Date

# Bluetooth Controller

## North America

In Partnership with



Simple Bluetooth® Controls

Filamento in partnership with Avi-On is providing Bluetooth controls for VALTO products. The controllers are compatible with all versions of VALTO Bluetooth enabled products.

### Scene Controller (AC or Battery)

Available in line voltage and 10 year battery powered options, Avi-on Scene/Zone controllers are the ideal wall station interface for any retrofit or new construction project. The buttons are programmable via the Avi-on Mobile App to control either individual lights or groups of lights and can be configured for scene control.

#### Benefits

- Scene controllers are not hard wired to lighting load devices. Instead, any controller can be configured to control any system lighting load with direct wiring.
- Large buttons allow easy operation and better adherence to ADA considerations.
- Battery options provide easy addition of manual control or overrides.

### Remote Access Bridge (AC)

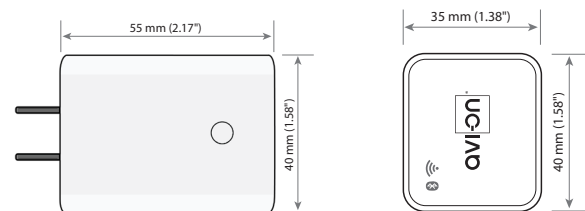
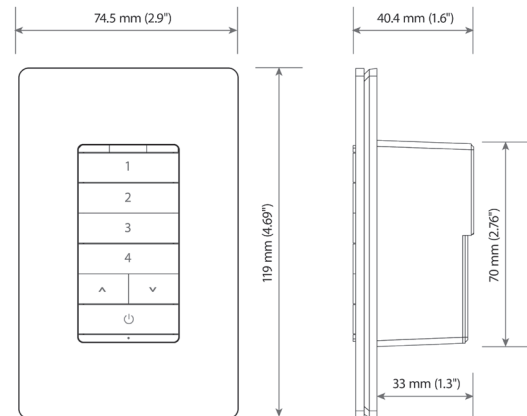
This provides secure, remote, 24/7 access enabling management of multiple deployments and monitoring of system status for security when sites are unattended.

Benefits:

- Operation of Avi-on Pro Bluetooth Lighting Controls from anywhere
- Web browser control via myaccount.avi-on.com
- 120/240VAC, 50/60Hz operation
- Secure connection to Wi-Fi router with no special ports or dedicated IT equipment
- Direct plug-in, no cords or bulky transformer
- Internal antenna for easy deployment
- LED indicators for Bluetooth and Wi-Fi connectivity

### Activation Fee

The one time activation fee provides for Avi-On phone support and online storage of all control settings.



[Web Link](#)

### Ordering Information

Description	Product Code	Part Number
Bluetooth In-Wall AC Powered Scene Controller (2401AC)	03018	SWT-BL-ACSC-000
Bluetooth Movable Scene Controller (2402BAT)	03016	SWT-BL-AOSC-000
Bluetooth Remote Access Bridge (2001RAB-01-C)	03017	RAB-BL-000
Bluetooth One Time Activation Fee	03019	BLE-ACT-000

## The Filamento Difference

At Filamento, we have a different vision for lighting. With each product, we surpass conventional thinking to set new standards for what is possible. Every seemingly insurmountable challenge is met with passion, imagination and the determination that everything should be, and can be better.

Founded in 2014 in the heart of Silicon Valley California, Filamento is guided by the leadership of Frank Shum. Frank's forward-thinking, relentless pursuit for improvement and uncompromising drive to innovate is what has set Filamento apart. Before launching Filamento, Frank was the General Manager and Chief Designer for all of Sora's groundbreaking products. Frank's innovations have been internationally recognized by many prestigious organizations with a myriad of awards including Red Dot, SIL Sapphire, Lighting and Architecture Magazine, LightFair International, LuxLive, DOE Lighting for Tomorrow, and more. With more than 100 patents to his name, Frank has, and continues to, demonstrate an unrivaled legacy of innovation.

Much more than a manufacturer of industrial lighting solutions, Filamento is a visionary company focused on creating a brighter future.



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