VALTO Luminaire

VALTO's Luminaire exceeds the historic limitations of LED fixtures. 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%.

VALTO light source has optional integrated controls including 0-10V, occupancy/daylight or 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

VALTO Light Source – Summary

Summary

- 35% energy saving due to more lumens on target
- Integral optics with no external reflector required
- Ultralight<1.85 kg/4.1 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
- 6kV 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, KC, CB, ROHS and REACH

CLASSIFIED cULus E491970   cULus LISTED E489939   PSE   RoHS

KC   CE   RoHS   REACH COMPLIANCE   CB

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.

Summary

VALTO	400	600
Mounting	Hook	
Region	NA and Worldwide	
Line Voltage	100-277 VAC 50/60Hz	
DLC Listed	DLC premium - USA Model only	
Power	105	150
Lumen	15,000	20,000
L/W	143	130
Ambient Temp at Full Power	65°C	50°C
Controls	0-10V dimming standard, occupancy or Bluetooth	
Uplight	Optional	

2 m (39.4")
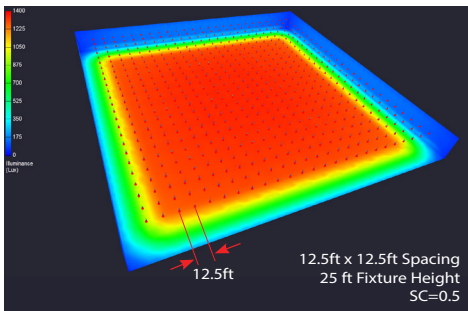
350 mm (13.8")

262 mm (10.3")
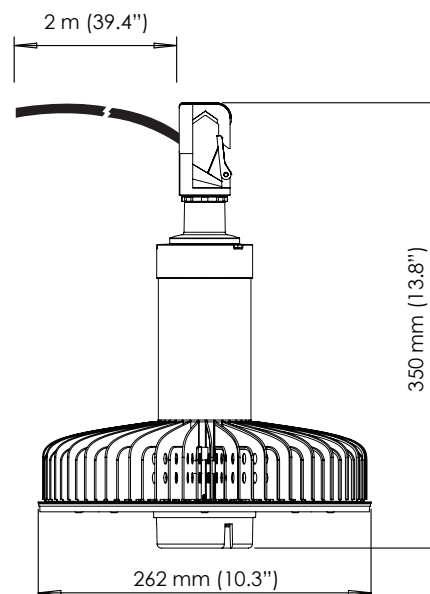
VALTO Light Source – Ideal Optical Distribution

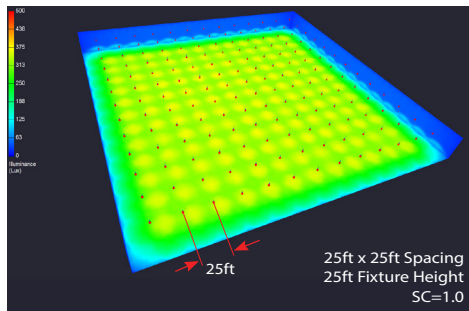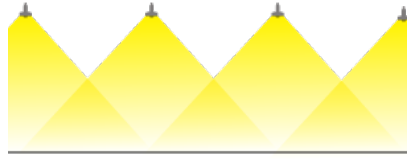## Uniform Illumination Over 0.5-1.5 Spacing

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.

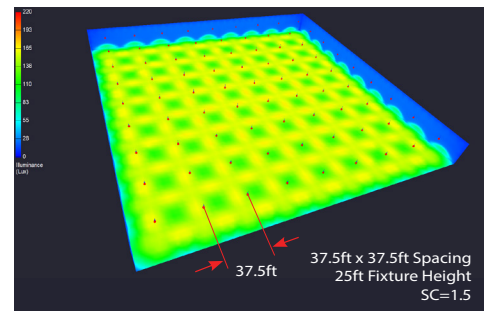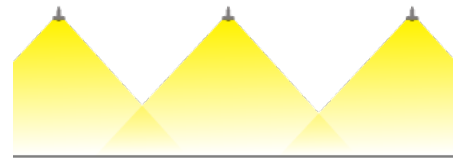| Spacing Criteria = 0.5 12.5ft/3.8m Spacing 25ft/7.6m Height	Spacing Criteria = 1.0 25ft/7.6m Spacing 25ft/7.6m Height	Spacing Criteria = 1.5 37.5ft/11.4m Spacing 25ft/7.6m Height

12.5ft x 12.5ft Spacing 25 ft Fixture Height SC=0.5	25ft x 25ft Spacing 25ft Fixture Height SC=1.0	37.5ft x 37.5ft Spacing 25ft Fixture Height SC=1.5
Average: 1,333 lux (124 fc) Min/Avg = 0.98 : Avg/Min = 1.02 Min/Max = 0.97 : Max/Min = 1.03	Average: 340 lux (31 fc) Min/Avg = 0.94 : Avg/Min = 1.06 Min/Max = 0.86 : Max/Min = 1.16	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: No Glare

Competition: High Glare

2-3x Brighter 665 lux/62 fc

Dark 265 lux/25 fc

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°
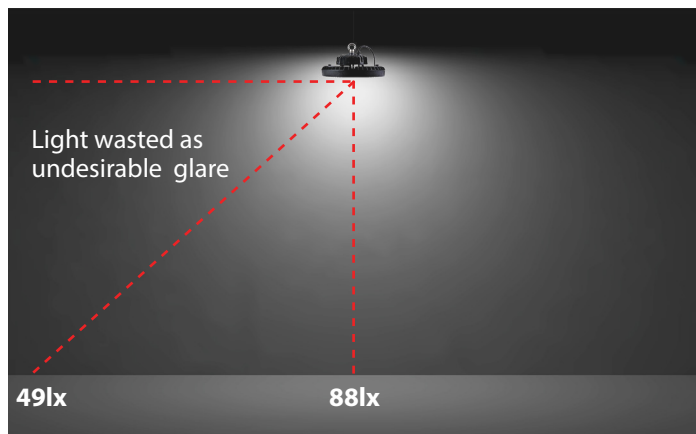
Comparison Against Other LED Product

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

Competitor 20,000 Lumens

Filamento VALTO optical distribution exceeds HID intensity 20,000 Lumens
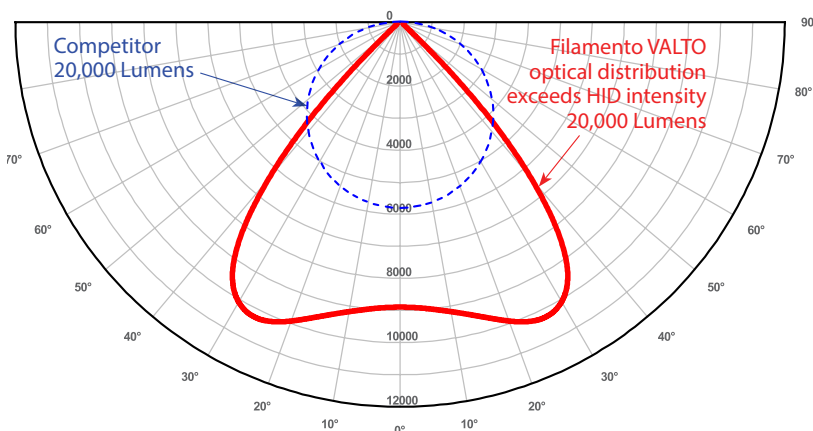
No Glare 35% Energy Savings from Improved Lumens on Target

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 provides a cutoff without the need for an external reflector or need to recess the luminaire.

Competitor LED (20,000 Lumens)

Light wasted as undesirable glare

49lx   88lx

VALTO (20,000 Lumens)

No Glare 50˚ Cutoff

139 lx
1.6x

99 lx
2x
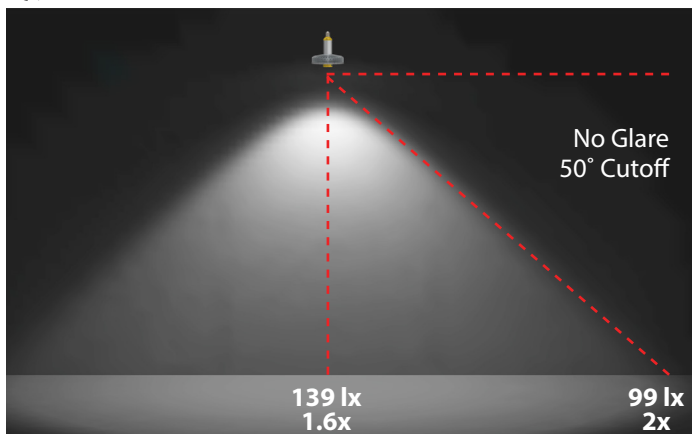
VALTO 600 – 150W/20,000L/80 CRI

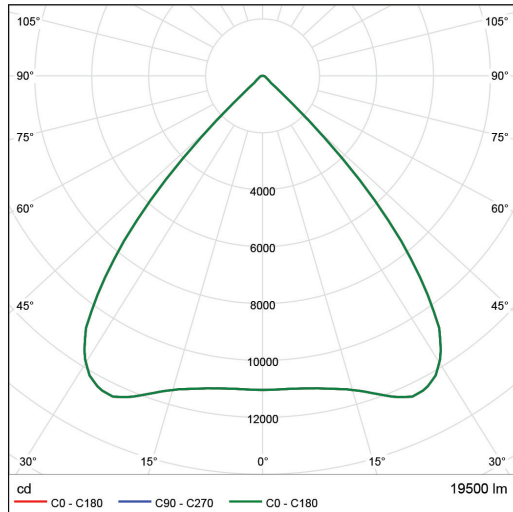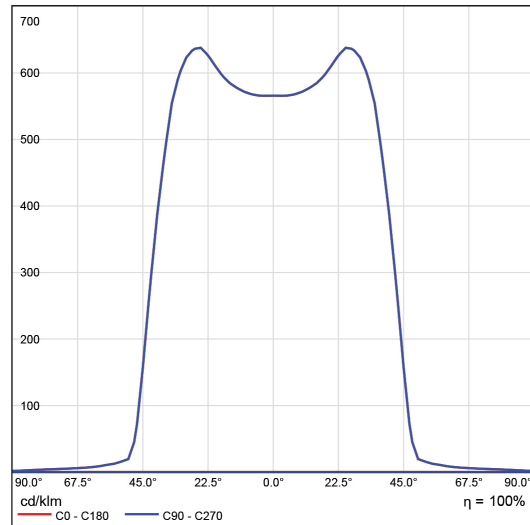## Luminous emittance 1 / Polar LDC

cd | 19500 lm
— C0 - C180 — C90 - C270 — C0 - C180

Luminous emittance 1 / Linear LDC

cd/klm | η = 100%
— C0 - C180 — C90 - C270

Luminous emittance 1 / Cone diagram

Distance [ft/m]	Cone Diameter [ft/m]		Illuminance [lux/fc]
3ft/1.0m	5.3ft/1.7m	E(0°)	13199 lux/ 1226 fc
		E(C0) 41.6°	2113 lux/ 196 fc
6ft/2.0m	11ft/3.6m	E(0°)	3300 lux/ 307 fc
		E(C0) 41.6°	778 lux/ 72 fc
9ft/3.0m	16ft/5.2m	E(0°)	1467 lux/ 136 fc
		E(C0) 41.6°	346 lux/ 32 fc
12ft/3.9	21ft/6.9m	E(0°)	825 lux/ 77 fc
		E(C0) 41.6°	195 lux/ 18 fc
15ft/4.9m	27ft/8.9m	E(0°)	528 lux/ 49 fc
		E(C0) 41.6°	125 lux/ 12 fc

— C0 - C180 (Beam angle: 83.2°)

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

Glare evaluation according to UGR

ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	viewing right angles					viewing parallel				
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
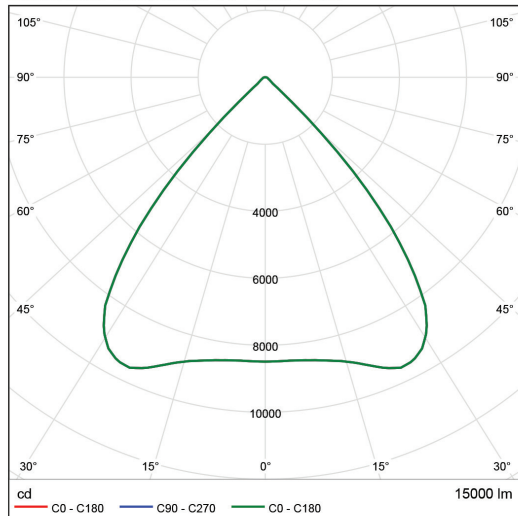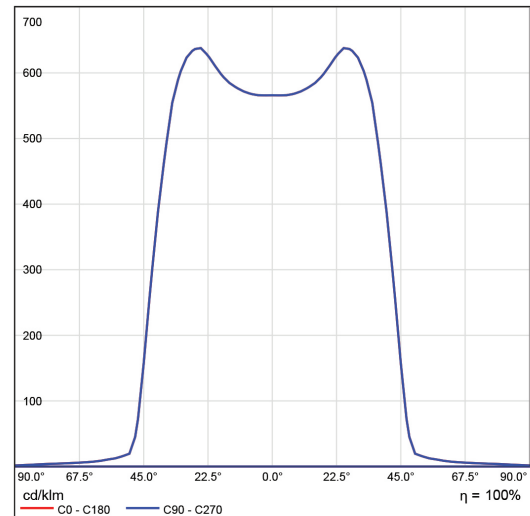
Luminous emittance 1 / Luminance diagram

cd/m²
— g = 65.0° — g = 75.0° — g = 85.0°
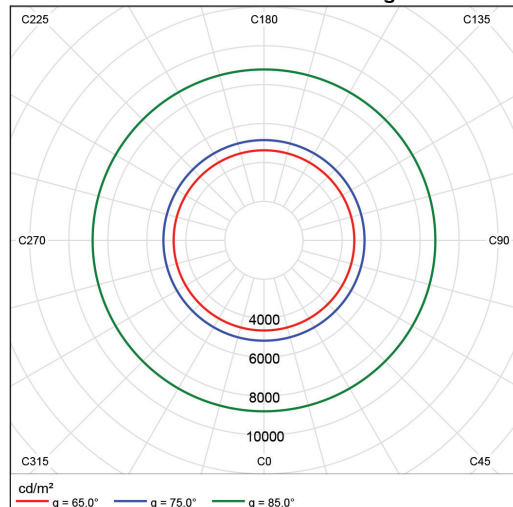
VALTO 600 (20,000 Lumens)			Luminaire Height					
			25ft (7.5m)	30ft (9m)	35ft (10.5m)	40ft (12m)	45ft (13.5m)	50ft (15m)
Luminaire Spacing	20 ft (6m)	lux	578	569	566	560	556	551
		fc	54	53	53	52	52	51
		U_0(min/ave)	0.80	0.78	0.72	0.68	0.64	0.62
	25 ft (7.5m)	lux	378	373	372	368	365	361
		fc	35	35	35	34	34	34
		U_0(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_0(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_0(min/ave)	0.71	0.86	0.83	0.90	0.90	0.84

VALTO 400 – 105W/15,000L/80 CRI

Luminous emittance 1 / Polar LDC

cd			15000 lm
C0 - C180	C90 - C270	C0 - C180	

Luminous emittance 1 / Linear LDC

cd/klm		η = 100%
C0 - C180	C90 - C270	

Luminous emittance 1 / Cone diagram

Distance	Cone Diameter		Illuminance
3ft/1.0m	5.3ft/1.7m	E(0°)	10153 lux/ 943 fc
		E(C0) 41.6°	2394 lux/ 222 fc
6ft/2.0m	11ft/3.6m	E(0°)	2538 lux/ 236 fc
		E(C0) 41.6°	599 lux/ 56 fc
9ft/3.0m	16ft/5.2m	E(0°)	1128 lux/ 105 fc
		E(C0) 41.6°	266 lux/ 25 fc
12ft/3.9	21ft/6.9m	E(0°)	635 lux/ 59 fc
		E(C0) 41.6°	150 lux/ 14 fc
15ft/4.9m	27ft/8.9m	E(0°)	406 lux/ 38 fc
		E(C0) 41.6°	96 lux/ 9 fc

Distance [ft/m]   Cone Diameter [ft/m]   Illuminance [lux/fc]
C0 - C180 (Beam angle: 83.2°)

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

Glare evaluation according to UGR

ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ 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	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
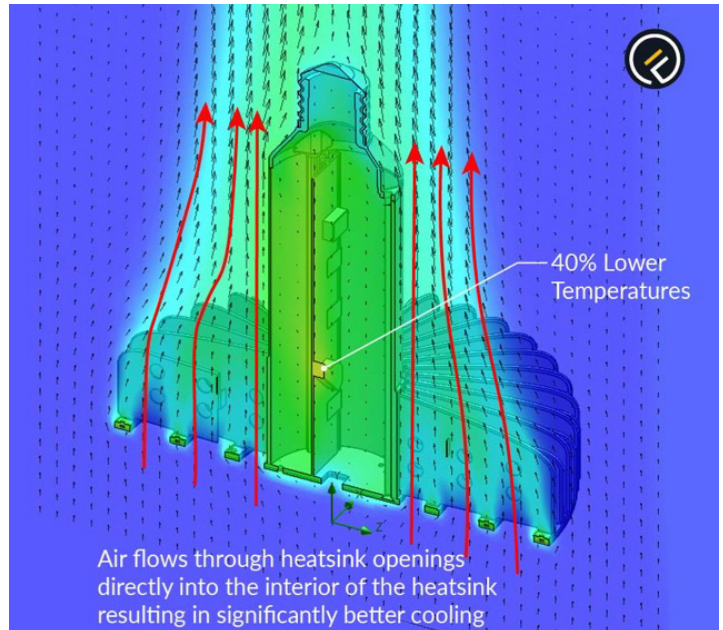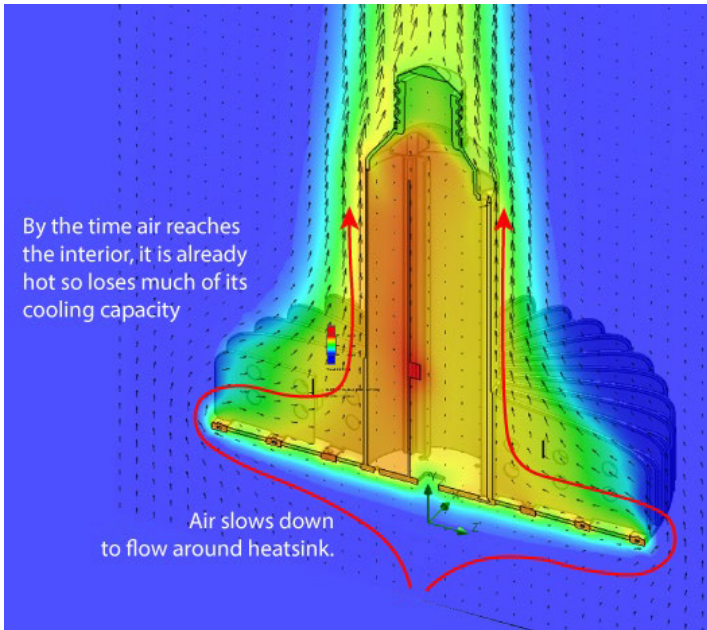
Luminous emittance 1 / Luminance diagram

cd/m²		
g = 65.0°	g = 75.0°	g = 85.0°

VALTO 400 (15,000 Lumens)			25ft (7.5m)	30ft (9m)	35ft (10.5m)	40ft (12m)	45ft (13.5m)	50ft (15m)
					Luminaire Height			
20 ft (6m)	lux		444	438	435	431	428	424
	fc		41	41	40	40	40	39
	U$_0$(min/ave)		0.80	0.78	0.72	0.68	0.64	0.62
25 ft (7.5m)	lux		291	287	286	283	281	278
	fc		27	27	27	26	26	26
	U$_0$(min/ave)		0.83	0.81	0.77	0.71	0.66	0.63
30 ft (9m)	lux		203	205	204	201	200	198
	fc		19	19	19	19	19	18
	U$_0$(min/ave)		0.93	0.91	0.91	0.70	0.80	0.74
35 ft (10.5m)	lux		148	148	148	148	147	145
	fc		14	14	14	14	14	13
	U$_0$(min/ave)		0.71	0.86	0.84	0.90	0.90	0.84

(Luminaire Spacing)

VALTO Luminaire – 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

By the time air reaches the interior, it is already hot so loses much of its cooling capacity

Air slows down to flow around heatsink.

VALTO

40% Lower Temperatures

Air flows through heatsink openings directly into the interior of the heatsink resulting in significantly better cooling

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.
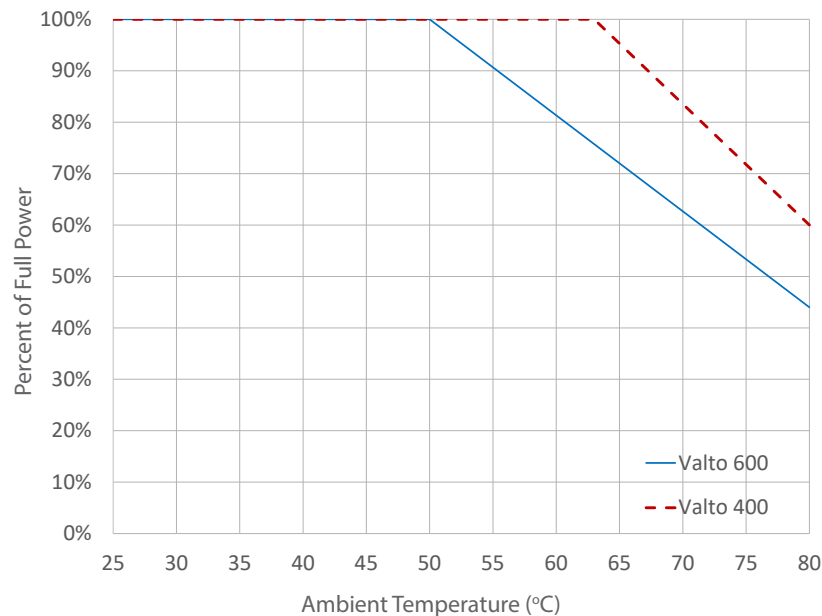
VALTO Luminaire– 0-10V

0-10V is the simplest control implementation compatible with traditional 0-10V facility dimmers. The dimming signal input is at 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 operating from direct AC line voltage.

GND

0-10V Signal
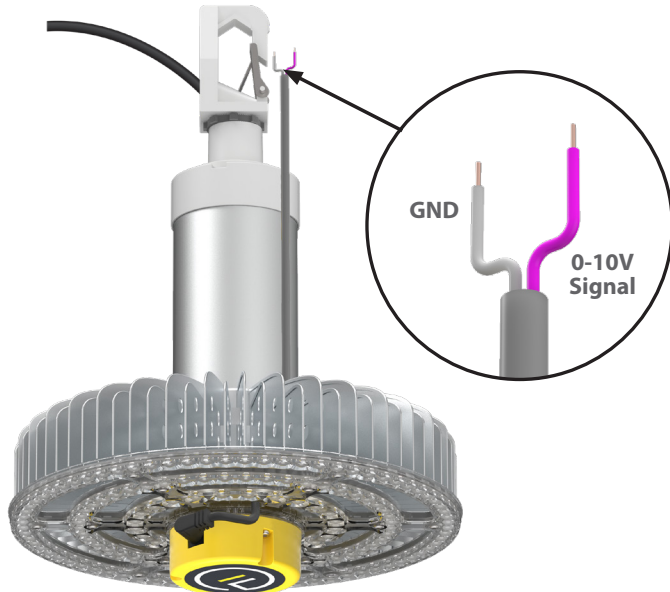
DC Power Adjuster

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 150W. For example, 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. This means fewer stocking items are needed. The standard power adjusters are 50% and 70%.
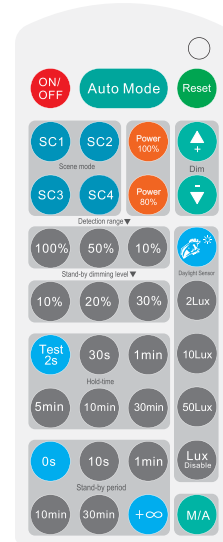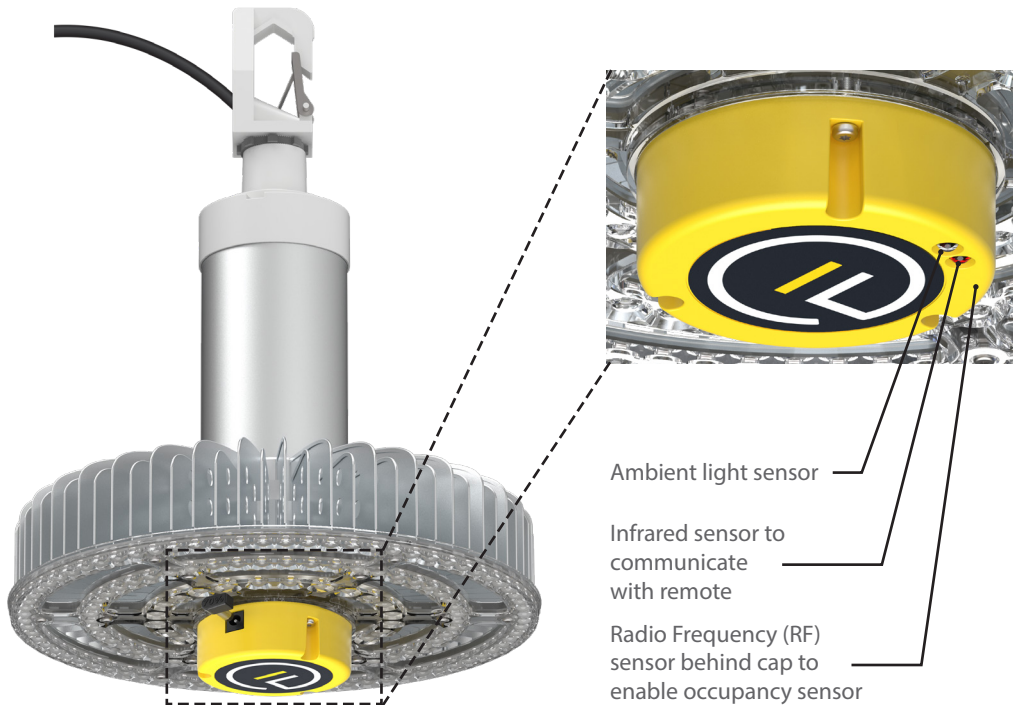
VALTO Luminaire – Occupancy and Daylight

- 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

Ambient light sensor

Infrared sensor to communicate with remote

Radio Frequency (RF) sensor behind cap to enable occupancy sensor

IR remote control

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.
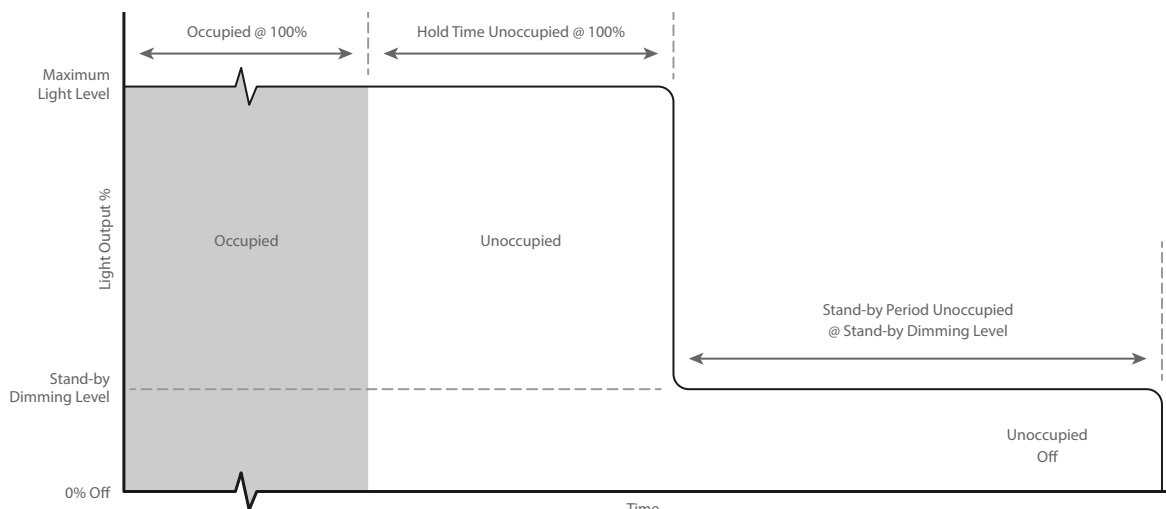
VALTO Luminaire – Bluetooth Mesh (USA Only)

Lighting controls that are easy to use, install and change

In Partnership with

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
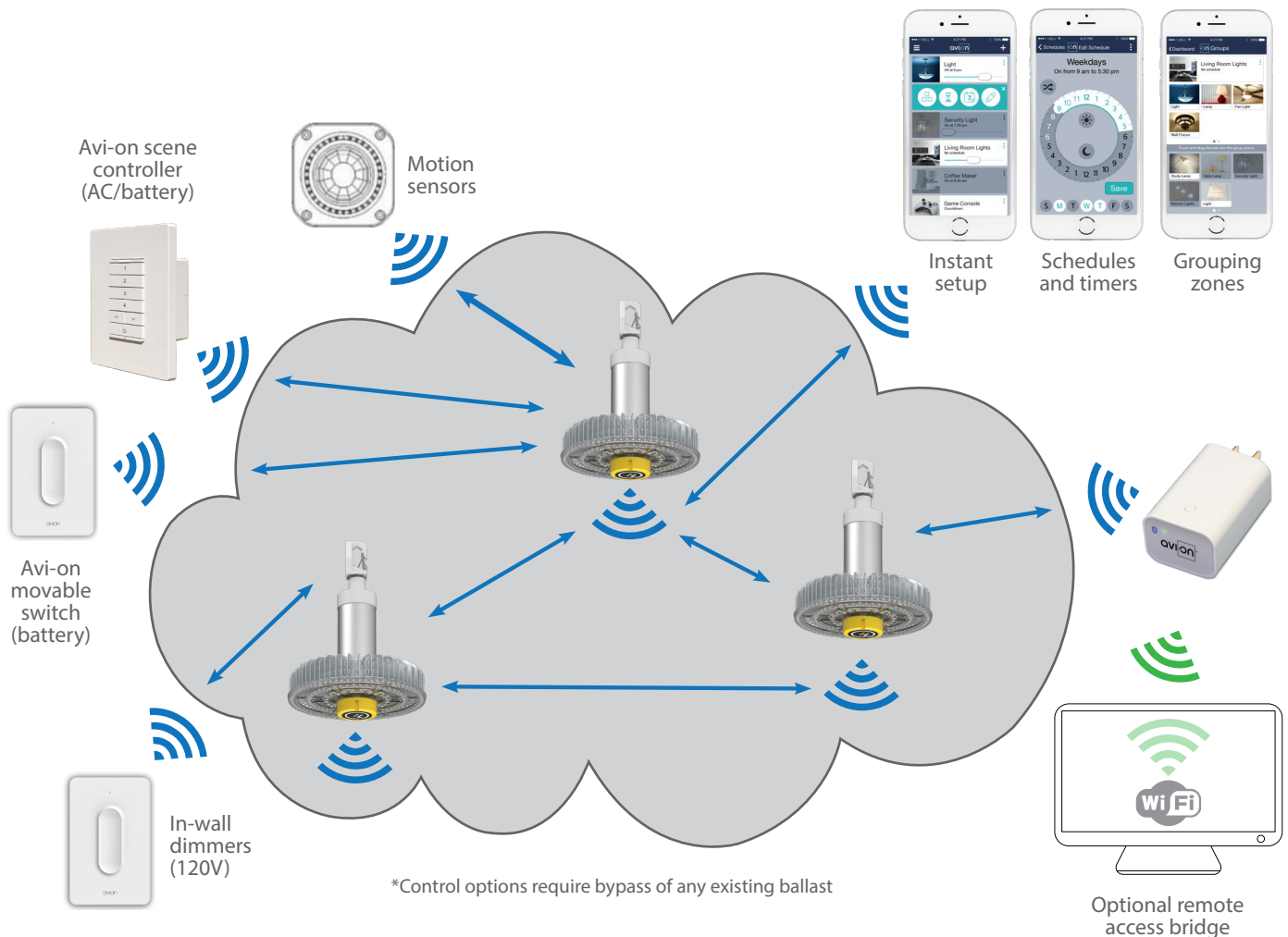No single point of failure or scaling challenges

Optional cloud connectivity
Supports remote diagnostics and future upgrades

Web Link

Product Ecosystem

Avi-on scene controller (AC/battery)

Motion sensors

Avi-on movable switch (battery)

In-wall dimmers (120V)

Instant setup

Schedules and timers

Grouping zones

*Control options require bypass of any existing ballast

Optional remote access bridge

VALTO Uplight Accessory

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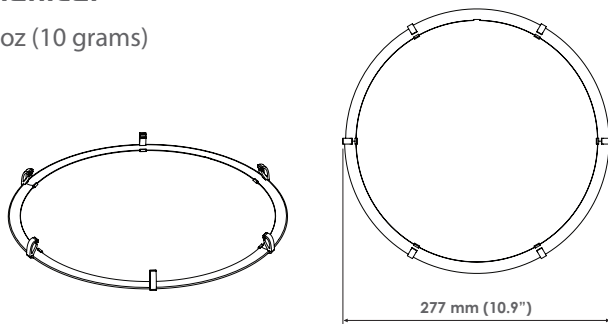
Constructed of polished aluminum and weighing less than a half-ounce, the accessory includes polycarbonate clips for secure attachment to the lamp.

Compatibility

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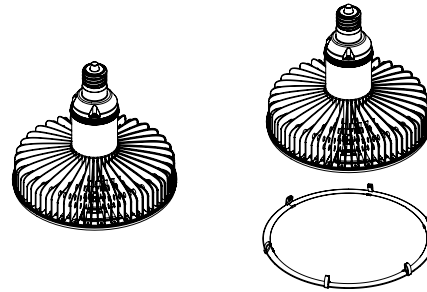- Compatible with all power levels and CCT

Mechanical

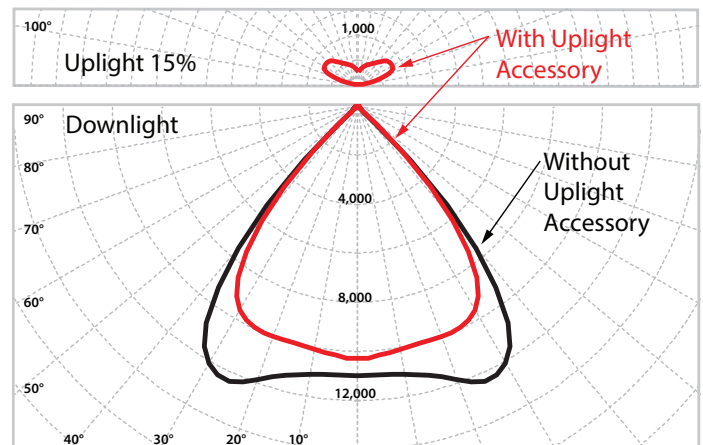- 0.35 oz (10 grams)

277 mm (10.9")

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.

Web Link

Example Optical Distribution for 150W/20,000 Lumens

Uplight 15%

100°   1,000   With Uplight Accessory

90°   Downlight

80°

70°   4,000   Without Uplight Accessory

60°   8,000

50°   12,000

40°   30°   20°   10°

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

FILAMENTO
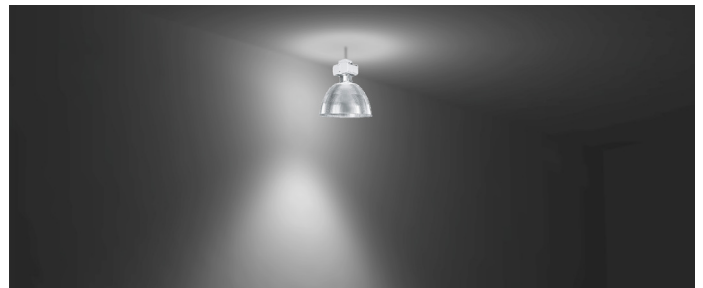
VALTO Luminaire
North America

Summary

- DLC listed for line voltage 120-277 VAC
- 5 Years or 50,000 hours warranty[3]

150W Version – High Lumen Output

- Ambient air operation to 50ºC/122ºF at full power

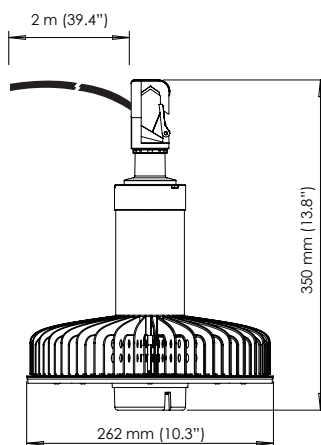## 105W Version – High Temperature Operation

- 20,000 Lumens, 130 L/W
- 15,000 Lumens, 143 L/W
- Ambient air operation at full output power 65ºC/149ºF

Control Options

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

Mechanical

- Vertical orientation only
- Beautiful anodized solid aluminum body
- 1.85 kg/4.1 lb
- Fanless for high reliability and efficiency

2 m (39.4")

350 mm (13.8")

262 mm (10.3")

Photometry

- No external reflector needed, thus no reflector loss factor
- 50º glare cutoff with $UGR_{ave} < 15$
- Optical distribution with high uniformity $E_{Min/Avg} > 0.75$ SC=0.5 to1.5
- Compatible with uplight accessory

Electrical

- No flicker
- 6kV 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
- Suitable for dry and damp locations
- This device is not intended for use with emergency exits

c(UL)us LISTED E491969   DLC PREMIUM   RoHS

Web Link

Ordering Information

Controls	Type	Max. Envir. Temp.	Product Code	Part #	Watts	Lumens	CCT	DLC ID	DLC Type
0-10V	High Lumen Output	50ºC	00636	VAL-FIX-150-8-40-VL-AN-B90-010-000	150	20,000	4,000K	PAOIEH9Q	Premium
			00644	VAL-FIX-150-8-50-VL-AN-B90-010-000	150	20,000	5,000K	PKOHE0WZ	Premium
	High Temperature Environment	65ºC	00632	VAL-FIX-105-8-40-VL-AN-B90-010-000	105	15,000	4,000K	PGNU079U	Premium
			00640	VAL-FIX-105-8-50-VL-AN-B90-010-000	105	15,000	5,000K	PIGT4965	Premium
Occupancy and Daylight Sensor	High Lumen Output	50ºC	03220	VAL-FIX-150-8-40-VL-AN-B90-OC1-000	150	20,000	4,000K	PQO2EDIJ	Premium
			03228	VAL-FIX-150-8-50-VL-AN-B90-OC1-000	150	20,000	5,000K	PRCFKZCO	Premium
	High Temperature Environment	65ºC	03216	VAL-FIX-105-8-40-VL-AN-B90-OC1-000	105	15,000	4,000K	PNJST19O	Premium
			03224	VAL-FIX-105-8-50-VL-AN-B90-OC1-000	105	15,000	5,000K	PTXF420H	Premium
Bluetooth® Wireless *USA Only*	High Lumen Output	50ºC	03420	VAL-FIX-150-8-40-VL-AN-B90-BLE-000	150	20,000	4,000K	P8M76CAR	Premium
			03428	VAL-FIX-150-8-50-VL-AN-B90-BLE-000	150	20,000	5,000K	P7W2JS5Z	Premium
	High Temperature Environment	65ºC	03416	VAL-FIX-105-8-40-VL-AN-B90-BLE-000	105	15,000	4,000K	PPQA794Z	Premium
			03424	VAL-FIX-105-8-50-VL-AN-B90-BLE-000	105	15,000	5,000K	PHEFW3Z6	Premium

1. Unless otherwise specified, all values are typical at 25ºC 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 Luminaire
Europe/Asia/Australia/Japan

Summary

- Suitable for line voltage 100-277 VAC
- Five years or 50,000 hours warranty[3]

150W Version – High Lumen Output

- Ambient air operation to 50°C/122°F at full power

105W Version – High Temperature Operation

- 20,000 lumens, 130 L/W
- 15,000 lumens, 143 L/W
- Ambient air operation at full output power 65°C/149°F

Control Options

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

Mechanical

- Vertical orientation only
- Beautiful anodized solid aluminum body
- 1.85 kg/4.1 lb
- Fanless for high reliability and efficiency
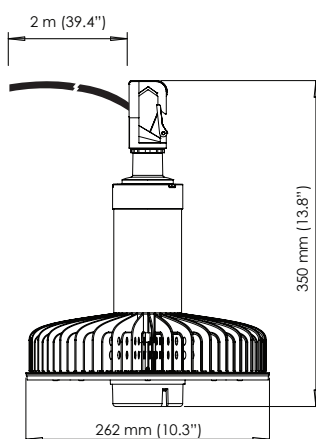
Photometry

- 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 to1.5
- Compatible with uplight accessory

Electrical

- No flicker
- 6kV 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 120-277 VAC
- Suitable for dry and damp locations
- This device is not intended for use with emergency exits

CE RoHS REACH COMPLIANCE CB KC PSE

Web Link

Diagram dimensions: 2 m (39.4"), 350 mm (13.8"), 262 mm (10.3")

Ordering Information

Controls	Type	Max. Envir. Temp.	Product Code	Part #	Watts	Lumens	CCT
0-10V	High Lumen Output	50°C	03136	VAL-FEU-150-8-40-VL-AN-B90-010-000	150	20,000	4,000K
			03144	VAL-FEU-150-8-50-VL-AN-B90-010-000	150	20,000	5,000K
	High Temperature Environment	65°C	03132	VAL-FEU-105-8-40-VL-AN-B90-010-000	105	15,000	4,000K
			03140	VAL-FEU-105-8-50-VL-AN-B90-010-000	105	15,000	5,000K
Occupancy and Daylight Sensor	High Lumen Output	50°C	03222	VAL-FEU-150-8-40-VL-AN-B90-OC1-000	150	20,000	4,000K
			03230	VAL-FEU-150-8-50-VL-AN-B90-OC1000	150	20,000	5,000K
	High Temperature Environment	65°C	03218	VAL-FEU-105-8-40-VL-AN-B90-OC1-000	105	15,000	4,000K
			03226	VAL-FEU-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. 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.

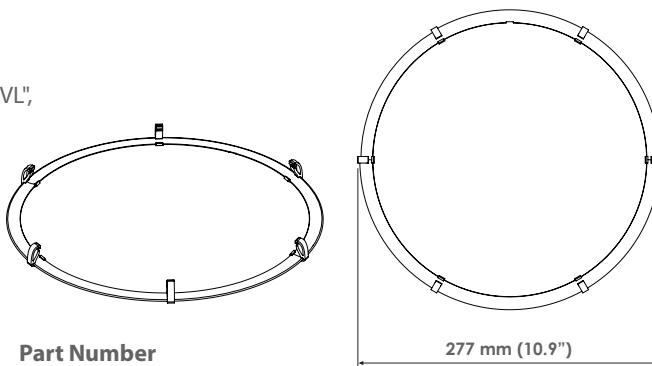| Project	Type
Product Code	Date

VALTO 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)

277 mm (10.9")

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 plugin the power adjuster the VALTO 600 dims the unit from 150W to 105W.

14 mm (0.55")
8 mm (0.31")
18 mm (0.71")

50%

70%

Ordering Information

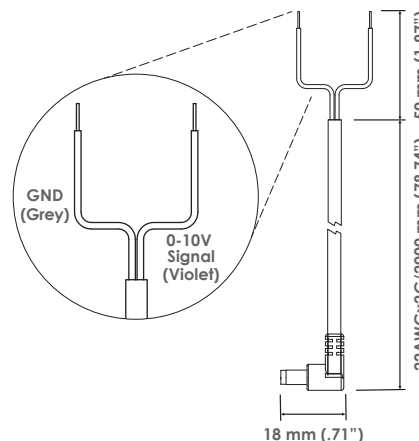| Description	Product Code	Part Number
DC Power Adjuster 50%	03023	PA50
DC Power Adjuster 70%	03024	PA70
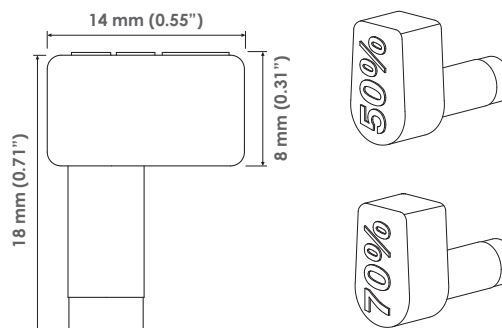
Web Link

2 Meter DC Dimmer Cable

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

50 mm (1.97")
22AWGx2C/2000 mm (78.74")
GND (Grey)
0-10V Signal (Violet)
18 mm (.71")

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

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.**
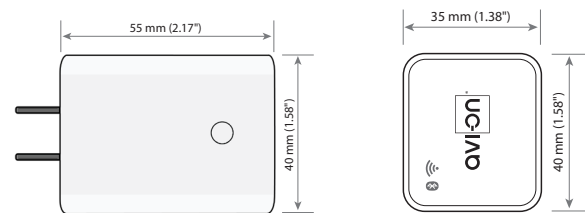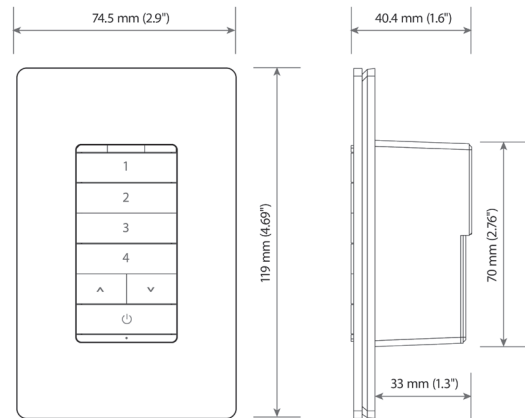
Remote Access Bridge (AC)

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 Soraa'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.