

VALTO Hybrid 400E/600



- 400 and 600W HID equivalent
- Type A: UL listed for ALL magnetic ballast
- and Type B: 100-277 VAC
- 400E enclosed fixture compatible
- 35% more lumens on target
- 20,000/15,000 lumens
- Ultralight 1.65 kg/3.6 lbs
- 50° cutoff/ $UGR_{ave} < 15$
- Uplight option

VALTO Series Hybrid LED Lamp outperforms most LED fixtures while providing the convenience of a socket. VALTO is capable of being operated almost anywhere from all types of magnetic ballast, ballast bypass, fully enclosed fixture, to a high ambient temperature of 65°C.

It is the only product that has a full UL listing for operation with any type of magnetic ballast (HPS, MH, MV, 175-600W) as well as universal line voltage. It saves up to 320W energy with ROI <1 year. The patented heat sink design eliminates the need for a fan ensuring reliability. Patent-pending optics and micro-baffle

technology minimize glare to a very low $UGR_{ave} < 15$. Uplight is available via easy installable accessory. Applications include warehouses, grocery stores, gymnasiums, houses of worship, hotel ballrooms, automotive dealerships, factory inspection areas, recessed IC downlight, and big box retailers.

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 Hybrid Light Source – Summary

Summary

- 35% energy saving due to more lumens on target
- UL Listed hybrid use for HID ballast and line voltage
- UL 1598C for ballast bypass
- 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
- Five years or 50,000 hours warranty
- Worldwide certification including UL, CE, PSE, KC, CB, ENEC, ROHS and REACH



RoHS



Astonishingly Light Weight

The patented heat sink design enables an incredibly light product weighing less than 1.7kg (3.6 lbs). 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.

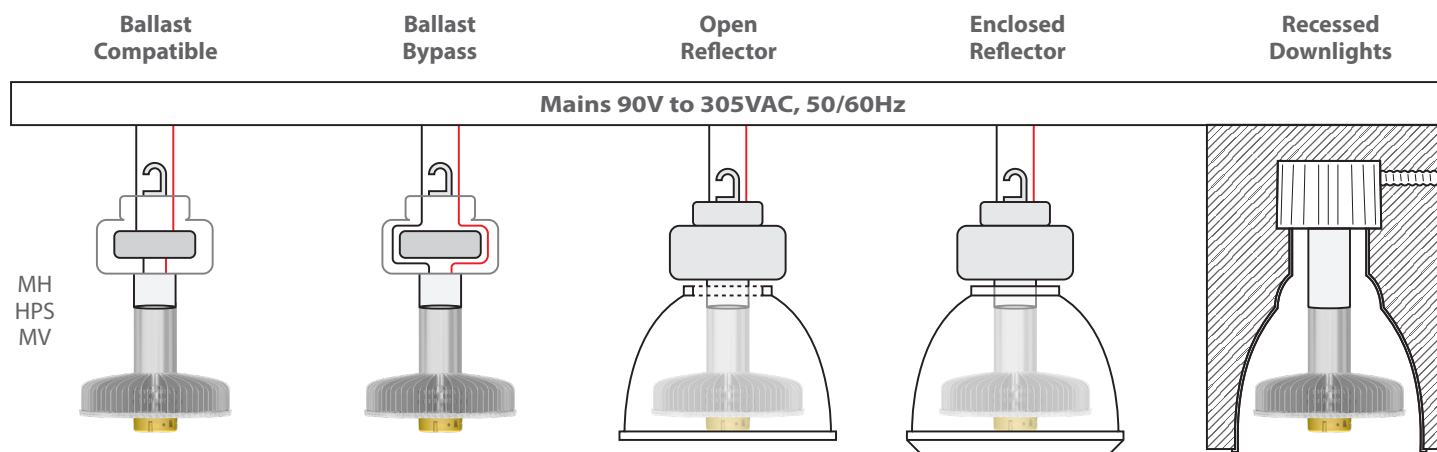
Architectural Grade Finish

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.

Specifications

VALTO	400E	600
Mounting	EX39/E40	
Region	NA and Worldwide	
Line Voltage	100-277 VAC 50/60Hz	
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
Uplight	Optional	

Use Anywhere



VALTO Hybrid Light Source – Electrical

Summary

VALTO is the only UL listed product for hybrid use with universal input voltage and with a wide variety of HID magnetic ballast. The driver has been certified for worldwide usage including North America, Europe, Japan, Korea and Australia. The summary of the electrical specification include:

- UL 1598C for fixture modification for ballast bypass for “VL-E39x” series
- 100-277 VAC 50/60 Hz universal input voltage
- Certified for MH/HPS/MV magnetic ballast from 175-600W for “VH-E39x”
- Compatible with CWA, reactive, probe start and pulse start magnetic ballast
- No flicker
- 6 kV surge

Ballast Compatibility

“E39X-VH” and “E40-VL” series have identical hybrid electronic driver construction and thus share identical compatibility with HID magnetic ballast. “E39X-VH” is the only fully UL listed product to operate for any ANSI magnetic HID ballast between 175-600W include metal halide, high-pressure sodium and mercury vapor. In addition, the proprietary electronics enable compatibility with all magnetic ballast types including probe start, pulse start, CWA or reactive. The proprietary electronics suppresses the igniter of a pulse start ballast. The lumens output remain consistent regardless of ballast type.

Ballast Type	175W	200W	250W	320W	350W	400W	600W
Metal Halide	M57 M107 M137/M152 MH175	-	M138/M153 MH250	M132/M154	M131	M128/M135/M155/M172 M59 MH400	-
High Pressure Sodium	-	S66	S50 NG250	-	-	S51 NG400	S106 NG600
Mercury Vapor	H39	-	H37	-	-	H33	-

VALTO Hybrid 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

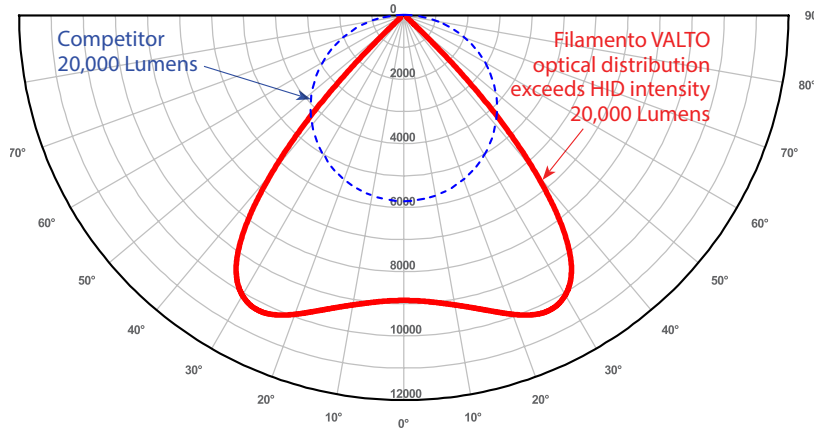
Each lens and LED is recessed into a micro-baffle that cuts off high angle light above 50°. The integral optic eliminates the need for the external reflector. This not only eliminates the typical 30% reflector loss, but the optical distribution is independent of any external reflector.



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

Comparison Against Other LED Product

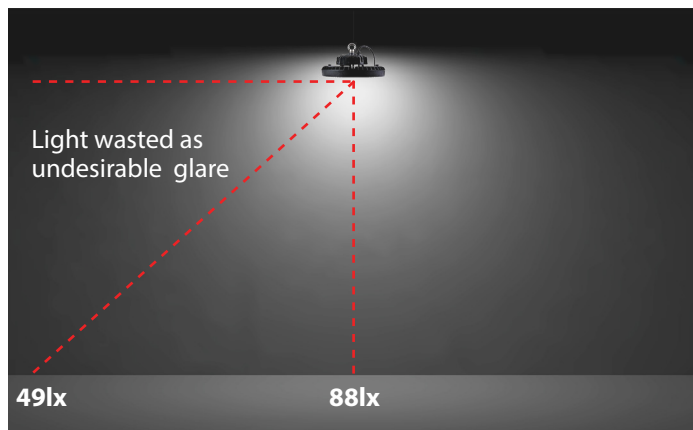
The single VALTO distribution matches the widest HID distribution while exceeding the narrowest HID distribution in center beam.



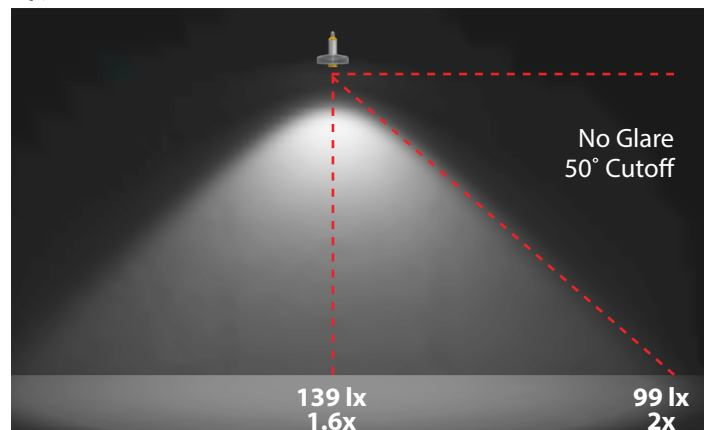
No Glare 35% Energy Savings from Improved Lumens on Target

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

Competitor LED (20,000 Lumens)



VALTO (20,000 Lumens)

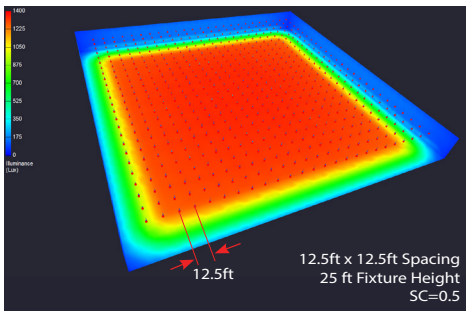


VALTO Hybrid Light Source – Ideal Optical Distribution

Uniform Illumination Over 0.5-1.5 Spacing

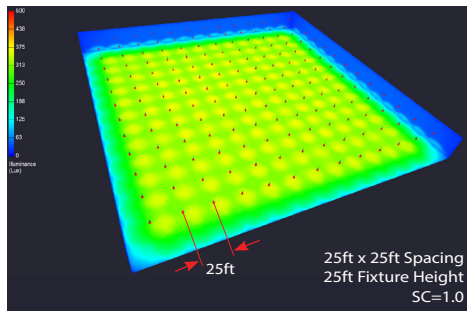
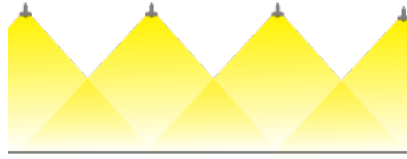
The optical distribution enables excellent intensity that exceeds 400W HID in light levels and uniformity with Min/Avg>0.75 for spacing criteria SC=0.5-1.5. Simultaneously, low glare is achieved with a 50° cutoff using patent-pending micro-baffle technology. For most applications, spacing the luminaire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



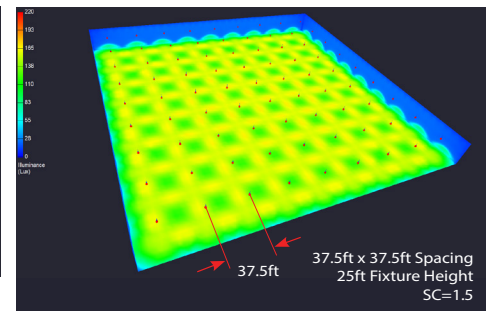
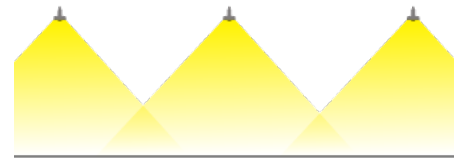
Average: 1,333 lux (124 fc)
Min/Avg = 0.98 : Avg/Min = 1.02
Min/Max = 0.97 : Max/Min = 1.03

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

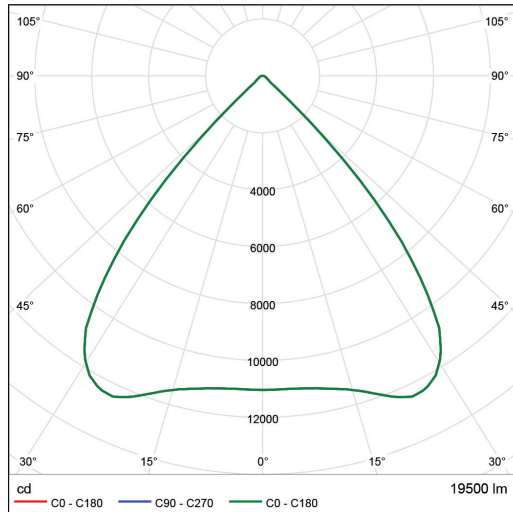
Comparison of Filamento Optics vs Competition

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](#).

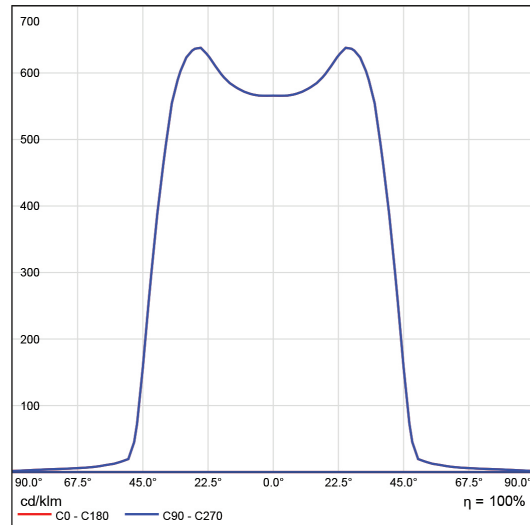


VALTO 600 – 150W/20,000L/80 CRI

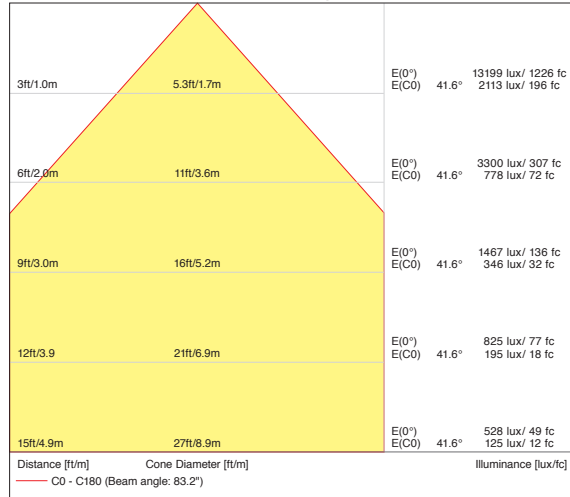
Luminous emittance 1 / Polar LDC



Luminous emittance 1 / Linear LDC



Luminous emittance 1 / Cone diagram

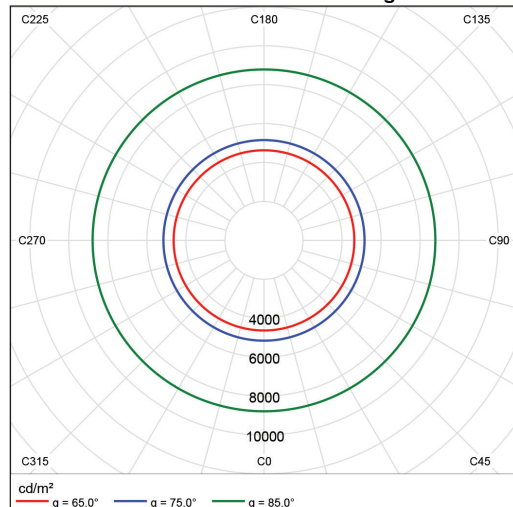


Luminous emittance 1 / UGR diagram $UGR_{ave} < 15$

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
	3H	10.6	11.3	10.9	11.5	11.8	10.6	11.3	10.9	11.5
	4H	11.3	12.0	11.6	12.3	12.5	11.3	12.0	11.6	12.3
	6H	12.2	12.8	12.5	13.1	13.4	12.2	12.8	12.5	13.1
	8H	12.7	13.2	13.0	13.5	13.8	12.7	13.2	13.0	13.5
	12H	13.1	13.6	13.4	14.0	14.3	13.1	13.6	13.4	14.0
4H	2H	9.6	10.2	9.9	10.5	10.7	9.6	10.2	9.9	10.5
	3H	11.3	11.8	11.6	12.1	12.4	11.3	11.8	11.6	12.1
	4H	12.2	12.7	12.6	13.1	13.4	12.2	12.7	12.6	13.1
	6H	13.3	13.7	13.7	14.1	14.5	13.3	13.7	13.7	14.1
	8H	13.9	14.3	14.3	14.6	15.0	13.9	14.3	14.3	14.6
	12H	14.5	14.8	14.9	15.2	15.6	14.5	14.8	14.9	15.2
8H	4H	12.7	13.0	13.1	13.4	13.8	12.7	13.0	13.1	13.4
	6H	14.0	14.3	14.4	14.7	15.1	14.0	14.3	14.4	14.7
	8H	14.7	14.9	15.2	15.4	15.8	14.7	14.9	15.2	15.4
	12H	15.4	15.6	15.9	16.1	16.6	15.4	15.6	15.9	16.1
12H	4H	12.7	13.1	13.2	13.5	13.9	12.7	13.1	13.2	13.5
	6H	14.2	14.4	14.6	14.8	15.3	14.2	14.4	14.6	14.8
	8H	14.9	15.1	15.4	15.6	16.1	14.9	15.1	15.4	15.6
	12H	15.4	15.6	15.9	16.1	16.6	15.4	15.6	15.9	16.1

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

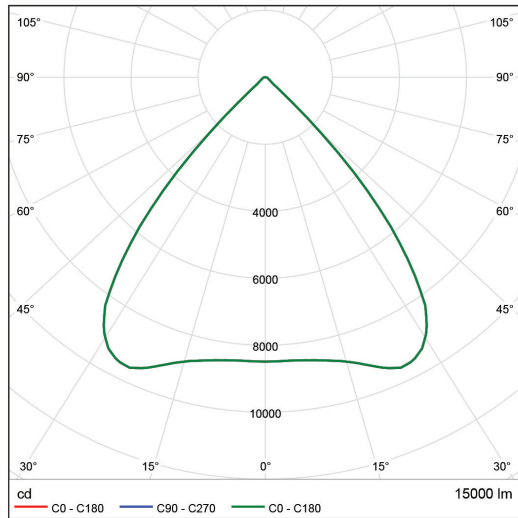
Luminous emittance 1 / Luminance diagram



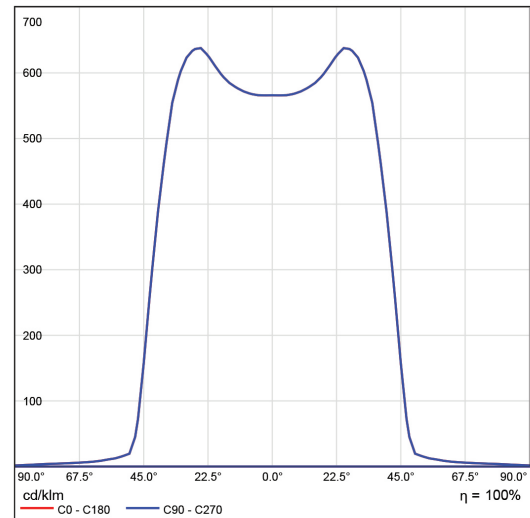
VALTO 600 (20,000 Lumens)		Luminaire Height					
		25ft (7.5m)	30ft (9m)	35ft (10.5m)	40ft (12m)	45ft (13.5m)	50ft (15m)
Luminaire Spacing	20 ft (6m)	lux	578	569	566	560	556
		fc	54	53	53	52	51
		U_0 (min/ave)	0.80	0.78	0.72	0.68	0.62
	25 ft (7.5m)	lux	378	373	372	368	365
		fc	35	35	35	34	34
		U_0 (min/ave)	0.83	0.81	0.77	0.71	0.66
	30 ft (9m)	lux	264	266	265	261	260
		fc	25	25	25	24	24
		U_0 (min/ave)	0.93	0.91	0.91	0.70	0.80
	35 ft (10.5m)	lux	192	192	192	192	190
		fc	18	18	18	18	18
		U_0 (min/ave)	0.71	0.86	0.83	0.90	0.84

VALTO 400E – 105W/15,000L/80 CRI

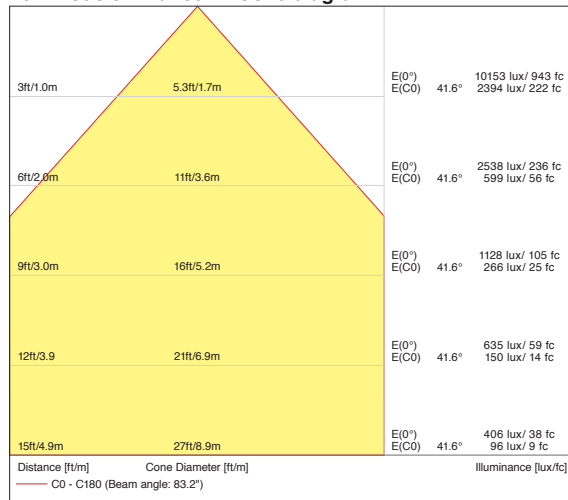
Luminous emittance 1 / Polar LDC



Luminous emittance 1 / Linear LDC



Luminous emittance 1 / Cone diagram

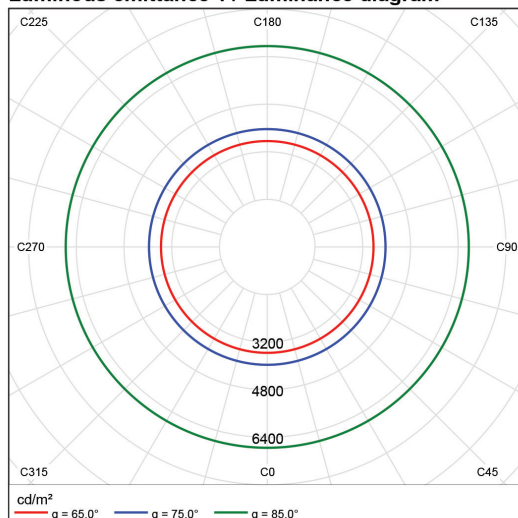


Luminous emittance 1 / UGR diagram $UGR_{ave} < 15$

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 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	
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	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



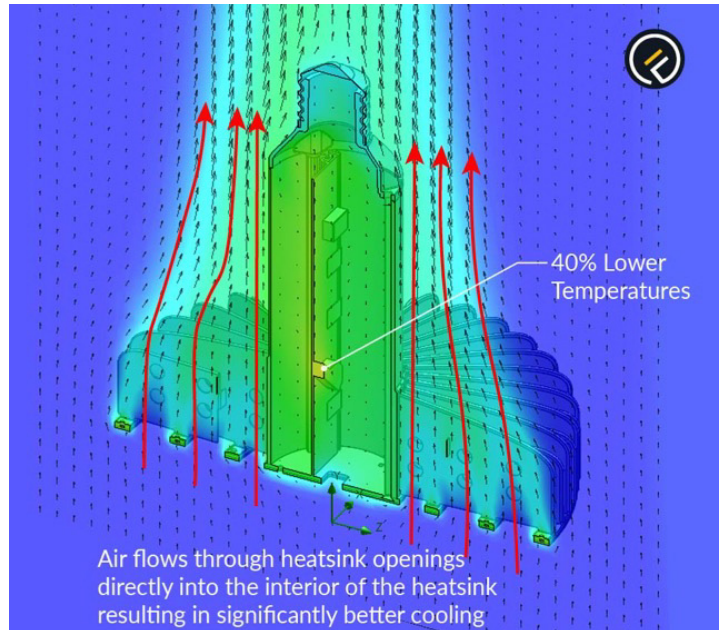
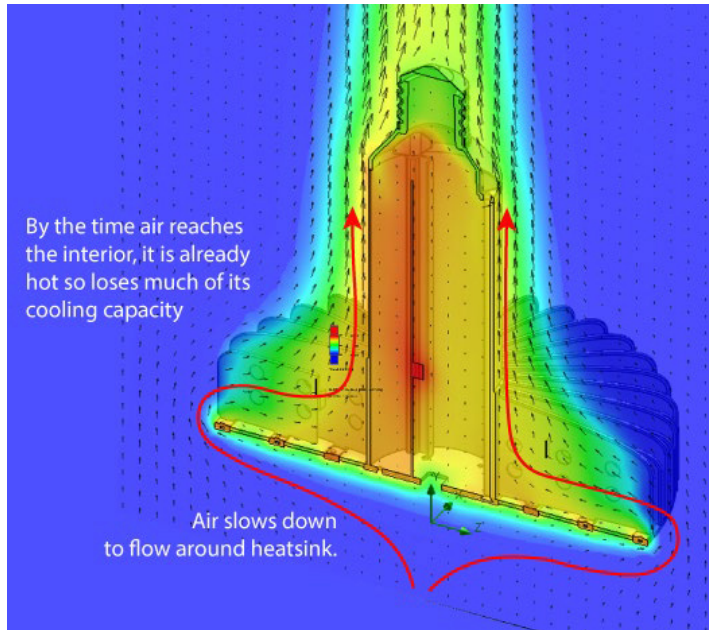
		Luminaire Height					
		25ft (7.5m)	30ft (9m)	35ft (10.5m)	40ft (12m)	45ft (13.5m)	50ft (15m)
Luminaire Spacing	20ft (6m)	lux	444	438	435	431	428
		fc	41	41	40	40	39
		U_0 (min/ave)	0.80	0.78	0.72	0.68	0.62
	25ft (7.5m)	lux	291	287	286	283	281
		fc	27	27	27	26	26
		U_0 (min/ave)	0.83	0.81	0.77	0.71	0.66
	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 Hybrid Light Source – Thermals

Amazing Thermal Efficiency

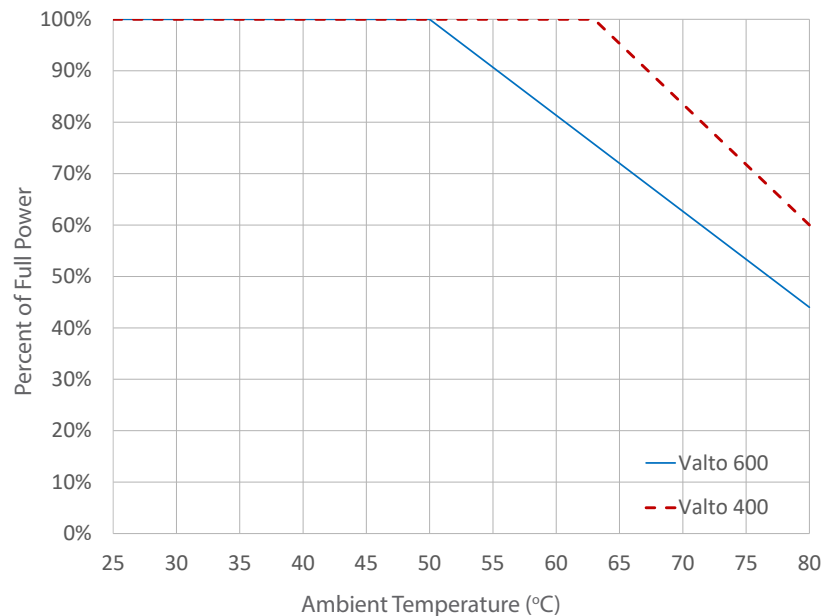
The patented heat sink improves heat dissipation by 40% by adding a series of openings on the front face. This significantly increases the air flow to the center portions of the heat sink. In addition, the heat sink is made of pure aluminum, which has 2-4x better thermal conductivity than cheaper aluminum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



[Web Link](#)

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.

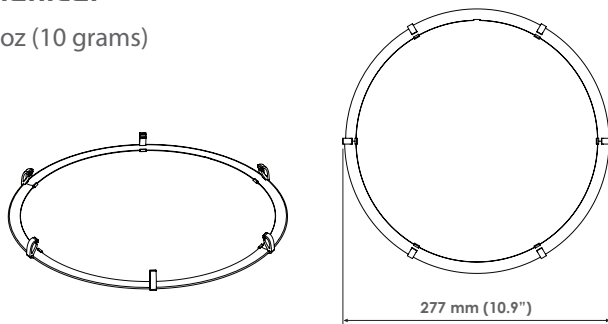
Constructed of polished aluminum and weighing less than a half-ounce, the accessory includes polycarbonate clips for secure attachment to the lamp.

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

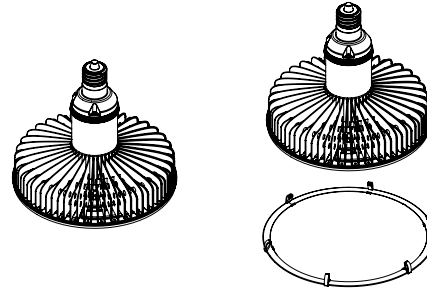
Mechanical

- 0.35 oz (10 grams)

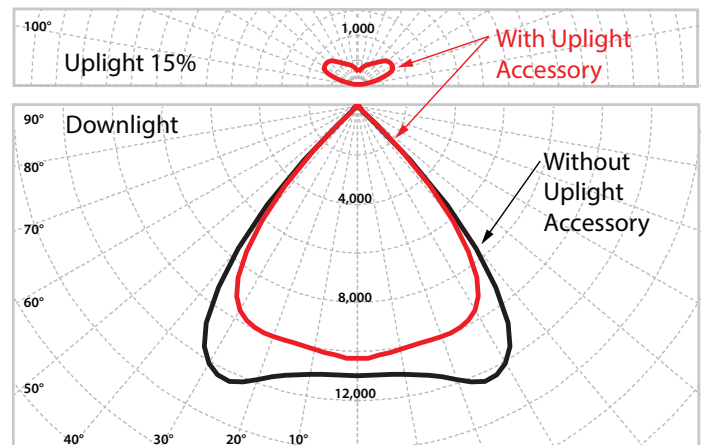


Assembly

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



Project	Type
Product Code	Date

VALTO Hybrid Light Source

North America

Summary

- Only product UL listed for BOTH hybrid operation with line voltage 100-277 VAC AND HID magnetic ballast
- Five years or 50,000 hours warranty³

150W Version – UL Listed for Open or Vented Fixture

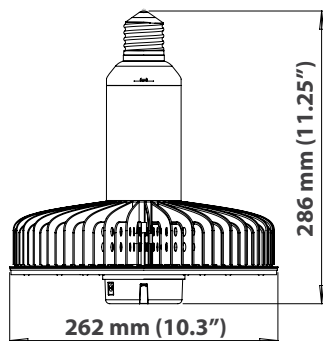
- 20,000 lumens, 130 L/W
- Ambient air operation to 50°C/122°F at full power

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

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 $E_{Min/Avg} > 0.75$ SC=0.5 to 1.5
- Compatible with uplight accessory

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

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

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

Certifications

- UL damp listed for 120-277VAC and for UL 1598C for ballast bypass



RoHS



[Web Link](#)

Ordering Information

Controls	Fixture Compatibility	Max. Envir. Temp.	Product Code	Part #	Watts	Lumens	CCT
None*	Open or Vented	50°C	03104	VAL-E39-150-8-40-VH-AN-B90-010-000	150	20,000	4,000K
			03112	VAL-E39-150-8-50-VH-AN-B90-010-000	150	20,000	5,000K
	Open or Vented/IC or Enclosed	65°C/45°C ¹	03100	VAL-E39-105-8-40-VH-AN-B90-010-000	105	15,000	4,000K
			03108	VAL-E39-105-8-50-VH-AN-B90-010-000	105	15,000	5,000K

* Ballast operation not compatible with controls

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

Project	Type
Product Code	Date

VALTO Hybrid Light Source

Assembled in USA Version

Summary

- GSA listed/assembled in USA
- Only product UL listed for BOTH hybrid operation with line voltage 100-277 VAC AND HID magnetic ballast
- Five Years or 50,000 hours warranty³

150W Version – UL Listed for Open or Vented Fixture

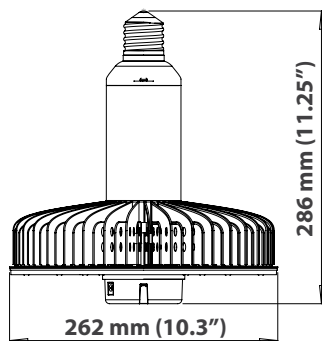
- 20,000 lumens, 130 L/W
- Ambient air operation to 50°C/122°F at full power

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

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 $E_{Min/Avg} > 0.75$ SC=0.5 to 1.5
- Compatible with uplight accessory

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

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

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

Certifications

- UL damp listed for 120-277VAC and for UL 1598C for ballast bypass



RoHS



[Web Link](#)

Ordering Information

Controls	Fixture Compatibility	Max. Envir. Temp.	Product Code	Part #	Watts	Lumens	CCT
None*	Open or Vented	50°C	03344	VAL-E39-150-8-40-VH-AN-B90-010-000-BA	150	20,000	4,000K
			03345	VAL-E39-150-8-50-VH-AN-B90-010-000-BA	150	20,000	5,000K
	Open or Vented/ IC or Enclosed	65°C/ 45°C ¹	03342	VAL-E39-105-8-40-VH-AN-B90-010-000-BA	105	15,000	4,000K
			03343	VAL-E39-105-8-50-VH-AN-B90-010-000-BA	105	15,000	5,000K

* Ballast operation not compatible with controls

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

Project	Type
Product Code	Date

VALTO LS 400E/600: €40

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 warranty³

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

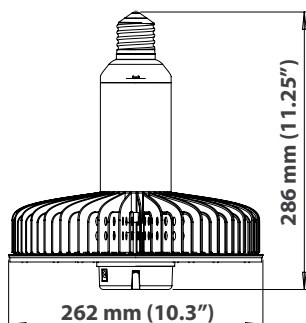
- 15,000 Lumens, 143 L/W
- Ambient air operation at full output power:
- 45°C/122°F for enclosed or IC fixture
- 65°C/149°F for vented fixture or open

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

VH 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
Metal Halide	M57, M137/ M152 MH175		M138/ M153, MH250	M132/ M154	M131	M155/ M135, M59, MH400	
HPS		S66	S50, NG250			S51, NG400	S106, NG600
MV	H175						

Certifications



RoHS



[Web Link](#)

Ordering Information

Controls	Fixture Compatibility	Max. Envir. Temp.	Product Code	Part #	Watts	Lumens	CCT
None*	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 ¹	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

* Ballast operation not compatible with controls

1. Unless otherwise specified, all values are typical at 25°C with no optical accessory.
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5. Specifications subject to change without notice

Project	Type
Product Code	Date

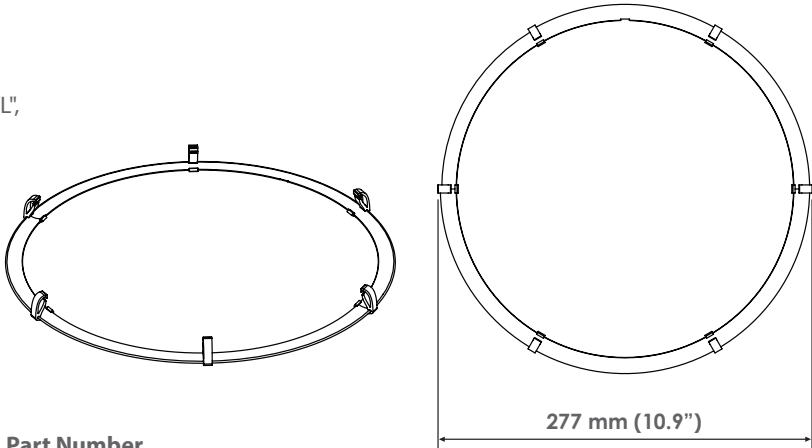
VALTO Hybrid Light Source Accessories

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](#)

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.



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