

## MAGIQ HOLLOW WALLWASH TRIMLESS

**A35577-** \_\_\_\_\_

base number    Color    Finish  
 \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_  
 Temperature    Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

### GENERAL

Series: Magiq Hollow Wallwash  
 Brand: Prolicht  
 Division: Architectural  
 Mounting Type: Trimless  
 Mounting Location: Ceiling  
 Subcategory: Wallwash

### PHYSICAL

Shape: Rectangle  
 Length (mm): 166  
 Length (in): 6 <sup>9</sup>/<sub>16</sub>  
 Width (mm): 35  
 Width (in): 1 <sup>3</sup>/<sub>8</sub>  
 Height (mm): 64  
 Height (in): 2 <sup>1</sup>/<sub>2</sub>  
 Ceiling Thickness (mm): 12.5  
 Ceiling Thickness (in): 1/2  
 Min. Recessing Depth (mm): 100  
 Min. Recessing Depth (in): 3 <sup>15</sup>/<sub>16</sub>  
 Light Distribution: Asymmetric  
 Weight (kg): 0.525  
 Weight (lbs): 1.16  
 Holder Finish: WHI / BLK  
 Fixture Material: Aluminum Die Cast  
 Cut-out Measurements: 173mm / 6 13/16" x 42mm / 1 5/8"

### ELECTRICAL

Lamp Type: LED (Zhaga Standard)  
 Input Wattage (W): 19  
 Total Output Wattage (W): 17.2  
 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)  
 Driver Included: No  
 Driver Location: Recessed Housing  
 Driver Type: Constant Current - Universal  
 Driver Class: Class 2  
 Housing: See components  
 Input Voltage (V): 120 - 277  
 Constant Current (MA): 700

### LED

Number of LEDs: 8  
 Color Temperature (°K): 2700 / 3000 / 3500 / 4000  
 Max. Delivered Lumen (lm): 1270 / 1270 / 1513 / 1544  
 Nominal Lumen (lm): 1492 / 1492 / 1778 / 1814  
 CRI: >90 CRI  
 Efficiency (%): 82.3  
 Lamp Life (hrs): 50000  
 Upon Request: Special Color Temperature

### OPTICAL

Upon Request: Special Beam Angles

### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards  
 IP rating: IP20



## MAGIQ HOLLOW WALLWASH TRIMLESS

A35577-

PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

## MAGIQ HOLLOW WALLWASH KORONA TRIMLESS

### A35579-

base number	Color	Finish	Finishes
	Temperature	Options	(Diamond)

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Magiq Hollow Wallwash
Subseries: Magiq Hollow Wallwash Korona
Brand: Prolicht
Division: Architectural
Mounting Type: Trimless
Mounting Location: Ceiling
Subcategory: Wallwash

#### PHYSICAL

Shape: Rectangle
Length (mm): 166
Length (in): 6 <sup>9</sup> / <sub>16</sub>
Width (mm): 35
Width (in): 1 <sup>3</sup> / <sub>8</sub>
Height (mm): 64
Height (in): 2 <sup>1</sup> / <sub>2</sub>
Ceiling Thickness (mm): 12.5
Ceiling Thickness (in): 1/2
Min. Recessing Depth (mm): 100
Min. Recessing Depth (in): 3 <sup>15</sup> / <sub>16</sub>
Light Distribution: Asymmetric
Weight (kg): 0.535
Weight (lbs): 1.18
Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR
Holder Finish: WHI / BLK
Fixture Material: Aluminum Die Cast
Cut-out Measurements: 173mm / 6 13/16" x 42mm / 1 5/8"

#### ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 19
Total Output Wattage (W): 17.2
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: No
Driver Location: Recessed Housing
Driver Type: Constant Current - Universal
Driver Class: Class 2
Housing: See components
Input Voltage (V): 120 - 277
Constant Current (MA): 700

#### LED

Number of LEDs: 8
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 1270 / 1270 / 1513 / 1544
Nominal Lumen (lm): 1492 / 1492 / 1778 / 1814
CRI: >90 CRI
Lamp Life (hrs): 50000
Upon Request: Special Color Temperature

#### OPTICAL

Upon Request: Special Beam Angles
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#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards
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IP rating: IP20  
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## MAGIQ HOLLOW WALLWASH KORONA TRIMLESS

A35579-

PROJECT \_\_\_\_\_

TYPE \_\_\_\_\_

SPECIFIER \_\_\_\_\_

QUANTITY \_\_\_\_\_

DATE \_\_\_\_\_



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PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

## MAGIQ HOLLOW WALLWASH RECESSED

### A35582-

base number	Color	Finishes	Finish
	Temperature	(Diamond)	Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Magiq Hollow Wallwash
Subseries: Magiq Hollow Wallwash
Brand: Prolicht
Division: Architectural
Mounting Type: Recessed
Mounting Location: Ceiling
Subcategory: Wallwash

#### PHYSICAL

Shape: Rectangle
Length (mm): 177
Length (in): 6 <sup>15</sup> / <sub>16</sub>
Width (mm): 45
Width (in): 1 <sup>3</sup> / <sub>4</sub>
Height (mm): 64
Height (in): 2 <sup>1</sup> / <sub>2</sub>
Ceiling Thickness (mm): 5 - 30
Ceiling Thickness (in): 1/16 - 1 3/16
Min. Recessing Depth (mm): 100
Min. Recessing Depth (in): 3 <sup>15</sup> / <sub>16</sub>
Light Distribution: Downlight
Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR
Fixture Material: Aluminum Die Cast
Cut-out Measurements: 170mm / 6 11/16" x 38mm / 1 1/2"

#### ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 19
Total Output Wattage (W): 17.2
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: No
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 700

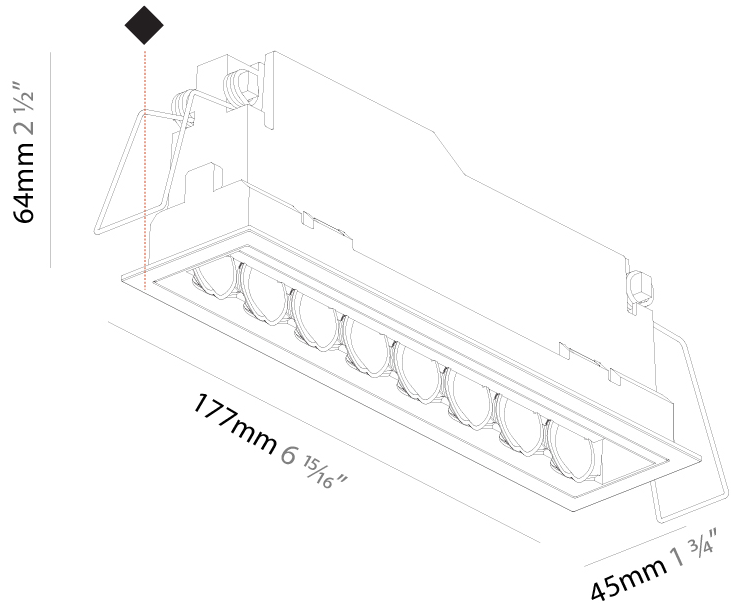
#### LED

Number of LEDs: 8
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 1270 / 1270 / 1513 / 1544
Nominal Lumen (lm): 1492 / 1492 / 1778 / 1814
CRI: >90 CRI
Lamp Life (hrs): 50000

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards
IP rating: IP20



100mm  
3 <sup>15</sup>/<sub>16</sub>"

5 - 30 mm  
<sup>3</sup>/<sub>16</sub>" - 1 <sup>3</sup>/<sub>16</sub>"

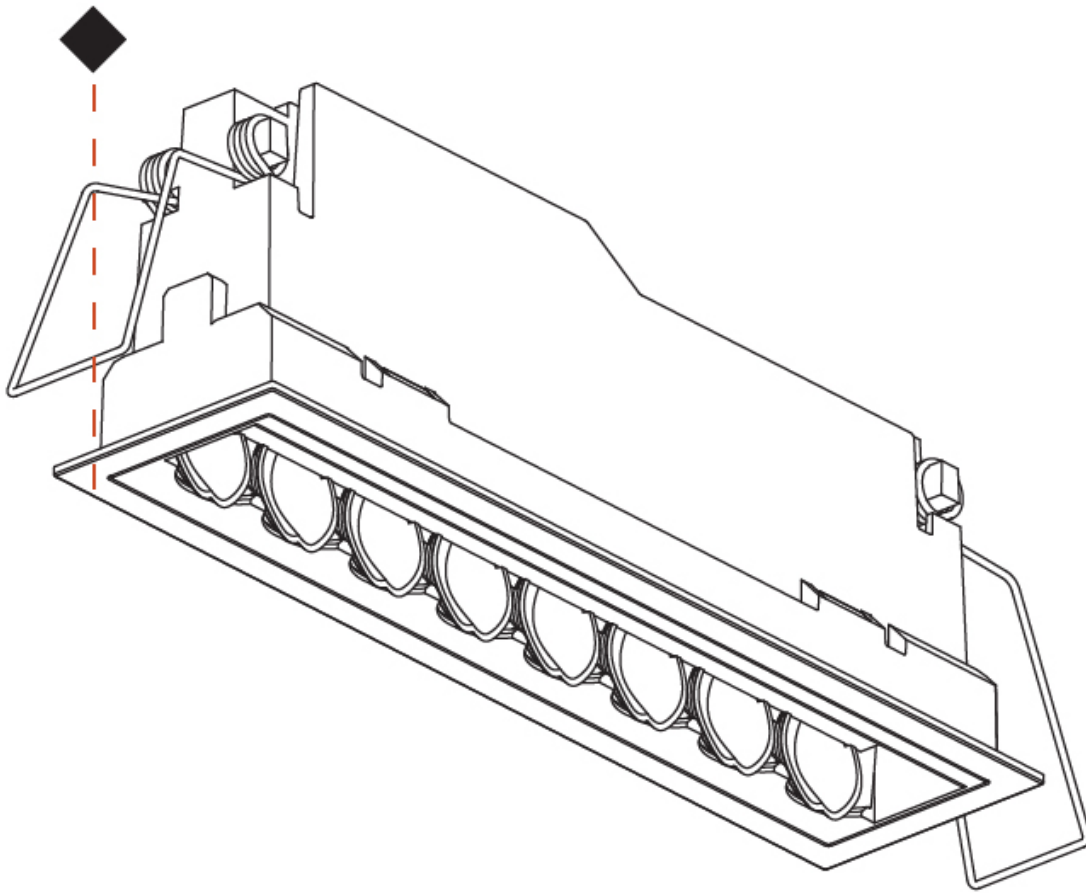
170mm x 38mm  
6 <sup>11</sup>/<sub>16</sub>" x 1 <sup>1</sup>/<sub>2</sub>"



## MAGIQ HOLLOW WALLWASH RECESSED

A35582-

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

## MAGIQ HOLLOW WALLWASH KORONA RECESSED

### A35584-

base number	Color	Finish	Finishes
	Temperature	Options	(Diamond)

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Magiq Hollow Wallwash
Subseries: Magiq Hollow Wallwash Korona
Brand: Prolicht
Division: Architectural
Mounting Type: Recessed
Mounting Location: Ceiling
Subcategory: Wallwash

#### PHYSICAL

Shape: Rectangle
Length (mm): 177
Length (in): 6 <sup>15</sup> / <sub>16</sub>
Width (mm): 45
Width (in): 1 <sup>3</sup> / <sub>4</sub>
Height (mm): 64
Height (in): 2 <sup>1</sup> / <sub>2</sub>
Ceiling Thickness (mm): 5 - 30
Min. Recessing Depth (mm): 100
Min. Recessing Depth (in): 3 <sup>15</sup> / <sub>16</sub>
Light Distribution: Downlight
Weight (kg): 0.395
Weight (lbs): 0.87
Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR
Holder Finish: WHI / BLK
Fixture Material: Aluminum Die Cast

#### ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 19
Total Output Wattage (W): 17.2
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: No
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 700

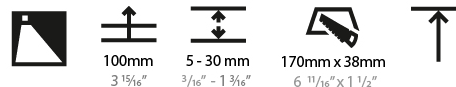
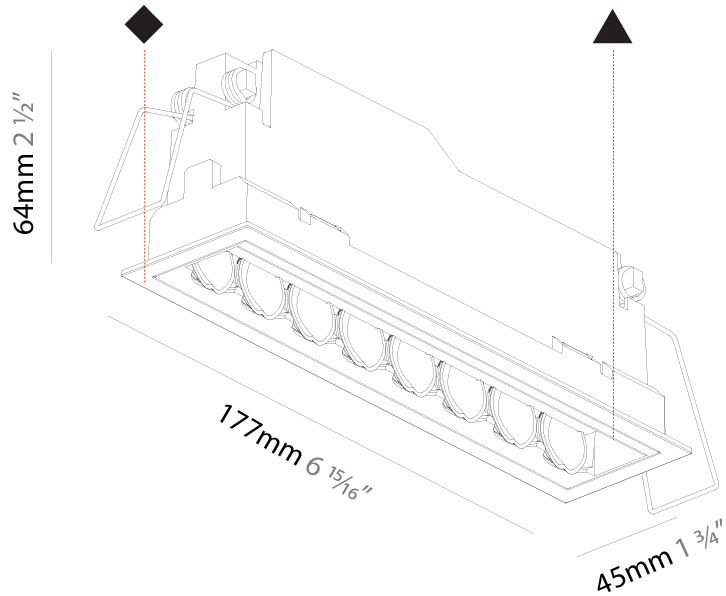
#### LED

Number of LEDs: 8
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 1110 / 1180 / 1323 / 1350
CRI: >90 CRI
Efficiency (%): 82.3
Lamp Life (hrs): 50000

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards
IP rating: IP20



## MAGIQ HOLLOW WALLWASH KORONA RECESSED

A35584-

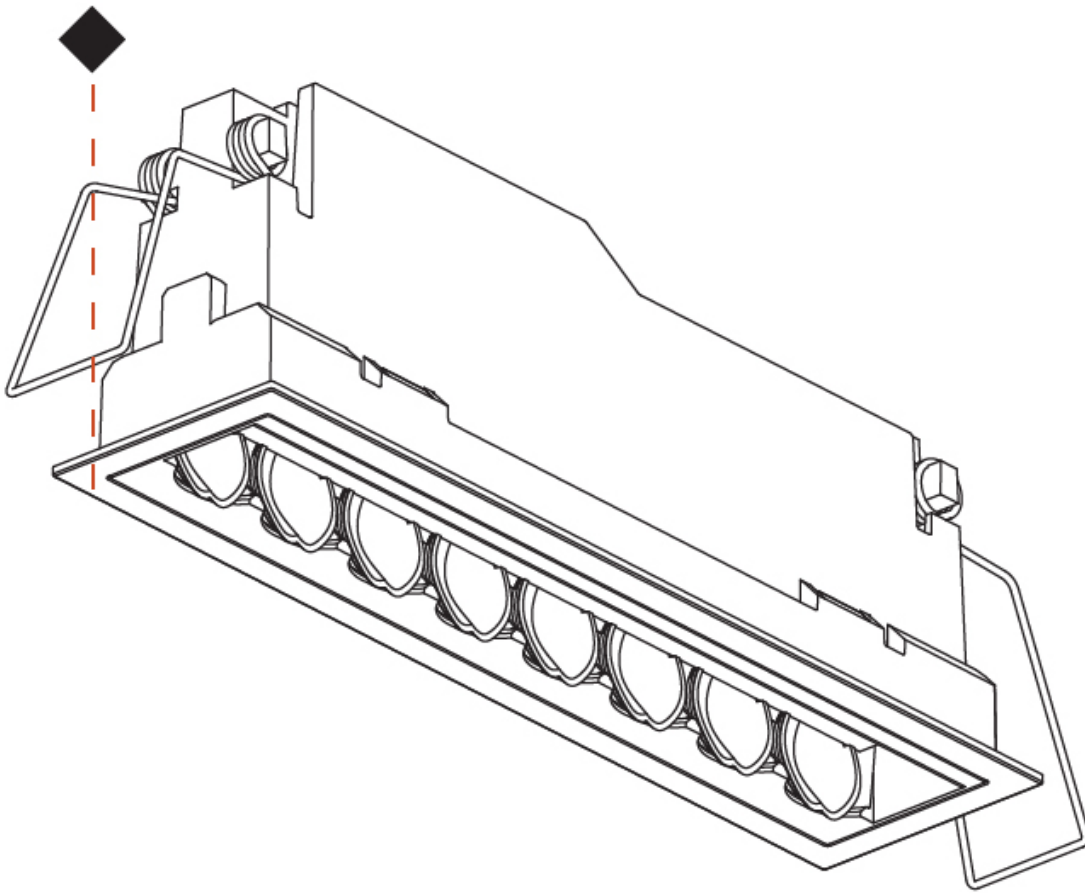
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



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PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

## MAGIQ HOLLOW WALLWASH SURFACE

### A3D187-

base number    Color    Finish    Finishes  
 Temperature    Options    (Diamond)

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Magiq Hollow Wallwash  
 Subseries: Magiq Hollow Wallwash  
 Brand: Prolicht  
 Division: Architectural  
 Mounting Type: Surface  
 Mounting Location: Ceiling  
 Subcategory: Wallwash

#### PHYSICAL

Shape: Rectangle  
 Length (mm): 174  
 Length (in): 6 <sup>7</sup>/<sub>8</sub>  
 Width (mm): 42  
 Width (in): 1 <sup>5</sup>/<sub>8</sub>  
 Height (mm): 109  
 Height (in): 4 <sup>5</sup>/<sub>16</sub>  
 Light Distribution: Direct  
 Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR  
 Holder Finish: WHI / BLK  
 Fixture Material: Aluminum Die Cast

#### ELECTRICAL

Lamp Type: LED (Zhaga Standard)  
 Input Wattage (W): 19  
 Total Output Wattage (W): 17.3  
 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Current - Universal  
 Driver Class: Class 1  
 Input Voltage (V): 120 - 277  
 Constant Current (MA): 700mA

#### LED

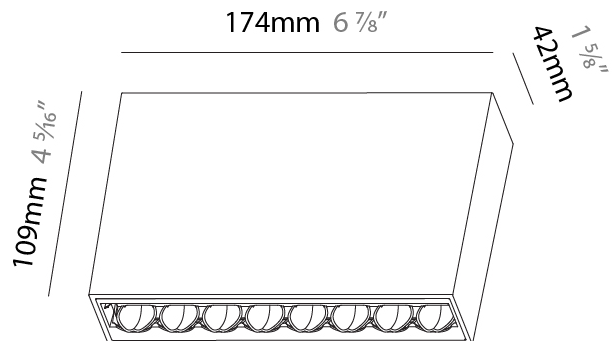
Number of LEDs: 4  
 Color Temperature (°K): 2700 / 3000 / 3500 / 4000  
 Max. Delivered Lumen (lm): 1270 / 1270 / 1513 / 1544  
 Nominal Lumen (lm): 1492 / 1492 / 1778 / 1814  
 CRI: >90 CRI  
 Efficiency (%): 80  
 Lamp Life (hrs): 50000

#### OPTICAL

Adjustability: Fixed

#### RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards  
 IP rating: IP20



## MAGIQ HOLLOW WALLWASH SURFACE

A3D187-

PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



A

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	

## MAGIQ HOLLOW WALLWASH SURFACE

### A3D188-

base number	Color	Finish	Finishes	Finishes
	Temperature	Options	(Diamond)	(Triangle)

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Magiq Hollow Wallwash  
 Subseries: Magiq Hollow Wallwash  
 Brand: Prolicht  
 Division: Architectural  
 Mounting Type: Surface  
 Mounting Location: Ceiling  
 Subcategory: Wallwash

#### PHYSICAL

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 Length (mm): 174  
 Length (in): 6 <sup>7</sup>/<sub>8</sub>  
 Width (mm): 42  
 Width (in): 1 <sup>5</sup>/<sub>8</sub>  
 Height (mm): 109  
 Height (in): 4 <sup>5</sup>/<sub>16</sub>  
 Light Distribution: Direct  
 Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR  
 Holder Finish: WHI / BLK  
 Accent Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG  
 Fixture Material: Aluminum Die Cast

#### ELECTRICAL

Lamp Type: LED (Zhaga Standard)  
 Input Wattage (W): 19  
 Total Output Wattage (W): 17.3  
 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Current - Universal  
 Driver Class: Class 1  
 Input Voltage (V): 120 - 277  
 Constant Current (MA): 700mA

#### LED

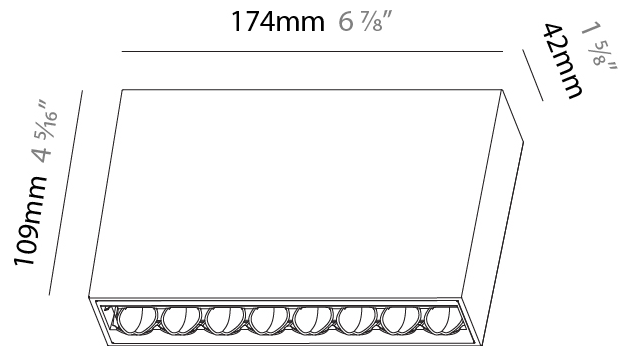
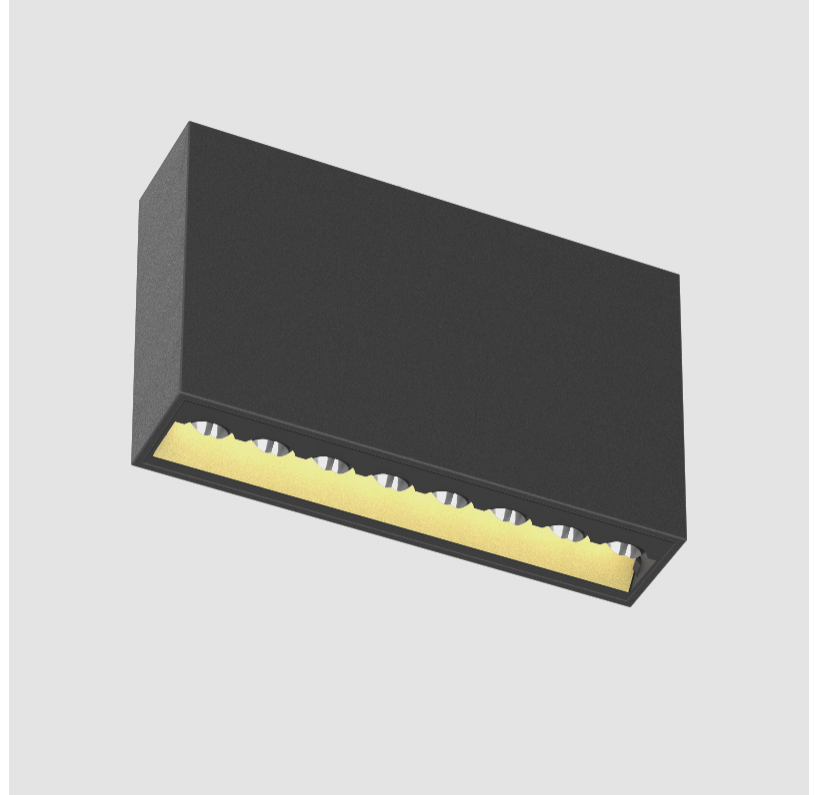
Number of LEDs: 4  
 Color Temperature (°K): 2700 / 3000 / 3500 / 4000  
 Max. Delivered Lumen (lm): 1270 / 1270 / 1513 / 1544  
 Nominal Lumen (lm): 1492 / 1492 / 1778 / 1814  
 CRI: >90 CRI  
 Efficiency (%): 80  
 Lamp Life (hrs): 50000

#### OPTICAL

Adjustability: Fixed

#### RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards  
 IP rating: IP20



## MAGIQ HOLLOW WALLWASH SURFACE

A3D188-

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



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## MAGIQ HOLLOW WALLWASH

### COLOR FINISH CHART

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE

#### Fixture Finish

Sparkling Silver - 01 (SSR)



Black Velvet - 02 (BKV)



Crystal White - 03 (CWI)



Creamy - 04 (CRY)



Hampton Bay - 05 (HAB)



Urban Forest - 07 (UFT)



In the Army - 08 (ITA)



Rusty Angel - 09 (RUA)



Fade to Gray - 12 (FTG)



Mysterious Gray - 13 (MYG)



Lost Dream - 15 (LOD)



Purple Sky - 16 (PUS)



Fresh Oh - 17 (FRO)



Funky P. - 18 (FUP)



Kissing Aphrodite - 19 (KIA)



Poseidon's Paradise - 20 (POP)



Blue Sky - 21 (BLS)



Spring Green - 22 (SPG)



Mellow Yellow - 23 (MEY)



Golden Heart - 24 (GOH)



Gun Metal - 25 (GUM)



Champagne Cream - 26 (CHC)



Copper Mine - 27 (COM)



Ancient Bronze - 28 (ABZ)



Jazz Gold - 29 (JAG)



Olive Breeze - 30 (OBR)



Moonlight Silver - 31 (MOS)



Rosewood Red - 32 (ROR)



#### Holder Finish

White - WHI (WHI)



Black - BLK (BLK)



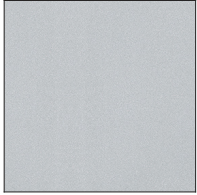
## MAGIQ HOLLOW WALLWASH KORONA, MAGIQ HOLLOW WALLWASH

### TRIMLESS, RECESSED, SURFACE

#### COLOR FINISH CHART

#### Accent Finish

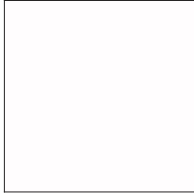
Sparkling Silver - 01 (SSR)



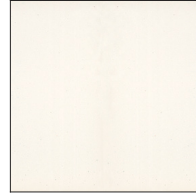
Black Velvet - 02 (BKV)



Crystal White - 03 (CWI)



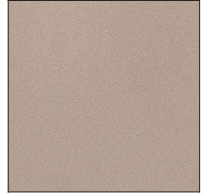
Creamy - 04 (CRY)



Hampton Bay - 05 (HAB)



Lagoon - 06 (LAG)



Urban Forest - 07 (UFT)



In the Army - 08 (ITA)



Rusty Angel - 09 (RUA)



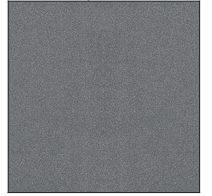
Rusty Rush - 10 (RUR)



Milk and Chocolate - 11 (MIC)



Fade to Gray - 12 (FTG)



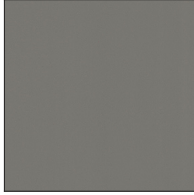
Mysterious Gray - 13 (MYG)



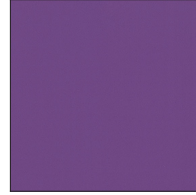
Twilight - 14 (TWT)



Lost Dream - 15 (LOD)



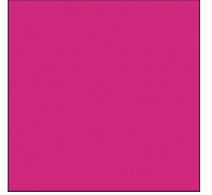
Purple Sky - 16 (PUS)



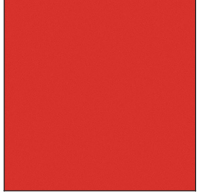
Fresh Oh - 17 (FRO)



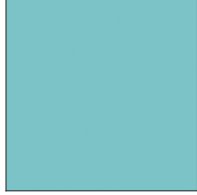
Funky P. - 18 (FUP)



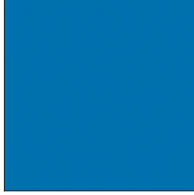
Kissing Aphrodite - 19 (KIA)



Poseidon's Paradise - 20 (POP)



Blue Sky - 21 (BLS)



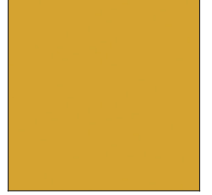
Spring Green - 22 (SPG)



Mellow Yellow - 23 (MEY)



Golden Heart - 24 (GOH)



Gun Metal - 25 (GUM)



Champagne Cream - 26 (CHC)



Copper Mine - 27 (COM)



Ancient Bronze - 28 (ABZ)



Jazz Gold - 29 (JAG)



**Digital:** Not all screens are calibrated the same, and therefore, colors will appear differently between screens.

**Physical:** When texture is involved, there will be variations in color, character and tone within a product series and between product families.

**Gun Metal:** No Gun Metal finish is alike. It combines a mixture of transparent and black color particles which ensures a highly individual effect and no luminaire being identical.

**Champagne Cream, Copper Mine, Ancient Bronze + Jazz Gold:** These finishes have slight fading from specific powder coating production. Each luminaire will slightly vary.





### LEGEND

	floor-mounted		pivotable		special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+
	wall and ceiling: recessed and surface mounted		rotating		warm dim / natural dimming LED
	ceiling-mounted and wall-mounted		illuminate tilted		rechargeable battery powered
	wall-mounted		color of suspension cable		fixture with natural vivid LED (upon request)
	omni-directional light distribution		length of suspension cable		color rendering index
	direct light distribution		reflector degree selection		color temperature
	direct/indirect light distribution		super spot		lumen (luminous flux)
	indirect light distribution		lens		efficacy (lumens per watt)
	asymmetric light distribution		lens pack		Unified Glare Rating (UGR) range from 5-40
	aura light distribution		shine ring		marine grade (AISI 316 stainless steel)
	round wall or ceiling cut-out		integrated shine ring with diffuser		walk on
	square wall or ceiling cut-out		free individual colors 01-29		drive on
	the supplied jig specifies the cutout dimensions		individual colors: 00 (free of charge), 01-25 (extra charge)		Dark Sky Compliance
	minimum distance (meters) lamp - object		luminaire part to be colored (F1)		Americans with Disabilities Act (less than 4" off the wall located between 27"-84" from floor)
	recessed depth		luminaire part to be colored (F2)		lamp protected against explosion
	ceiling thickness in mm		luminaire part to be colored (F3)		blown glass using traditional methods by master glass blower
	ceiling thickness selection		luminaire part to be colored (F4)		acoustic material
	dimmable DP (phase), DV (0-10V), DD (dali), DS (step-dim)		luminaire part to be colored (F5)		protection class I, protection insulation
	included or excluded LED driver/transformer/control gear		color of 3-circuit adaptor		protection class II, protection insulation
	separately switchable		indirect diffuser		ETL Certified to UL and CSA Standards
	sensor		direct diffuser		UL Certified to UL and CSA Standards
	remote control		ball-proof (upon request)		CSA Certified to UL and CSA Standards
	available upon request		accessory		Certified for North American Standards

### IP RATING

	protected against ingress of solid bodies greater than 12.5mm (finger)
	protected against ingress of solid bodies greater than 2.5mm protected against sprays of water up to 60 degrees from the vertical (rain)
	protected against ingress of solid bodies greater than 1mm (wire) no protection against the ingress of moisture
	protected against ingress of solid bodies greater than 1mm (wire) protected against sprays of water up to 60 degrees from the vertical (rain)
	protected against ingress of solid bodies greater than 1mm (wire) protected against water splashed from all directions
	protected against limited ingress of dust (wet rooms/covered outdoor areas) protected against water splashed from all directions
	protected against ingress of dust protected against jets of water
	protected against ingress of dust protected against powerful jets of water or heavy seas
	protected against ingress of dust protected against immersion of water between 15cm - 1m for 30 minutes
	protected against ingress of dust protected against immersion of water under pressure for long periods

### IK RATING

	protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm above the surface)
	protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)
	protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface)
	protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)
	protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)
	protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)
	protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)
	protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)
	protected against 10 joules impact (equivalent to 5.0kg mass dropped from 200mm above the surface)
	protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)