

BIONIQ EVO RECESSED

A350198-

base number Color Temperature Finishes (Diamond) Finishes (Triangle) Lens Options Beam Angle 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: Bioniq Evo
 Partner: Prolicht
 Division: Architectural
 Installation: Recessed
 Product Type: Downlight
 Mounting Location: Ceiling
 Light Distribution: Adjustable / Direct

PHYSICAL

Aperture Sizes - Downlights: 4"
 Shape: Round
 Diameter (mm): 108
 Diameter (in): 4 ¼"
 Height (mm): 127
 Depth (mm): 135
 Height (in): 5
 Depth (in): 5 ⅝"
 Ceiling Thickness (mm): 2 - 20
 Ceiling Thickness (in): 1/16 - 13/16
 Weight (kg): 0.7
 Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / CHC / COM / ABZ / JAG / OBR / MOS / ROR
 Fixture Material: Extruded Aluminum
 Cut-out Measurements: Ø95mm/3 ¾"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 21.9
 Total Output Wattage (W): 20
 Dimming: Non-dimming / DALI Dimming / MATTER Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Current - Universal
 Driver Class: Class 2
 Constant Current (mA): 500mA
 Upon Request: 0-10V Dimming / Phase Dimming

LED

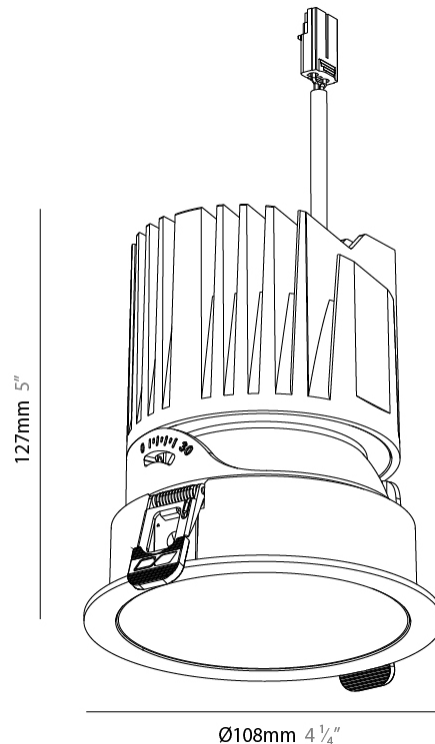
Color Temperature (°K): 2400 / 2700 / 3000 / 3500 / 4000
 Max. Delivered Lumen (lm): Max 2583
 Nominal Lumen (lm): Max 3490
 CRI: >90 CRI
 Efficiency (%): 107.2
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: 26 / 34 / 46 / 56
 Adjustability: Rotational 350° / Tilt 30°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 Glare Rating: ≤ 10



A350198-

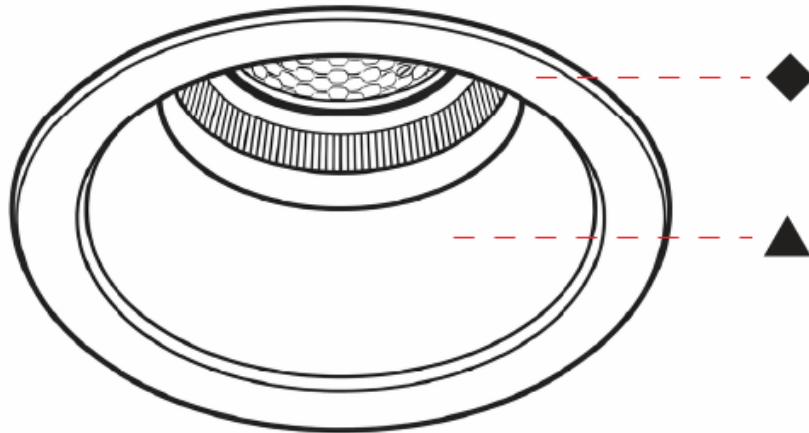
PROJECT

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SPECIFIER

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BIONIQ EVO RECESSED

A350199-

base number Color Temperature Finish Options Finish Options Lens Options Beam Angle Options

- To build a product code in our configurator select the specify button on the base model # product page
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GENERAL

Series: Bioniq Evo
 Partner: Prolicht
 Division: Architectural
 Installation: Recessed
 Product Type: Downlight
 Mounting Location: Ceiling
 Light Distribution: Adjustable / Direct

PHYSICAL

Aperture Sizes - Downlights: 4"
 Shape: Round
 Diameter (mm): 108
 Diameter (in): 4 ¼"
 Height (mm): 127
 Depth (mm): 135
 Height (in): 5
 Depth (in): 5 ⅝"
 Ceiling Thickness (mm): 2 - 20
 Ceiling Thickness (in): 1/16 - 13/16
 Weight (kg): 0.7
 Fixture Finish: [BLK](#) / [WHI](#) / [ARB](#) / [CHR](#)
 Holder Finish: [WHI](#) / [BLK](#)
 Fixture Material: Extruded Aluminum
 Cut-out Measurements: Ø95mm/3 3/4"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 21.9
 Total Output Wattage (W): 20
 Dimming: Non-dimming / DALI Dimming / MATTER Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Current - Universal
 Driver Class: Class 2
 Constant Current (MA): 500mA
 Upon Request: 0-10V Dimming / Phase Dimming

LED

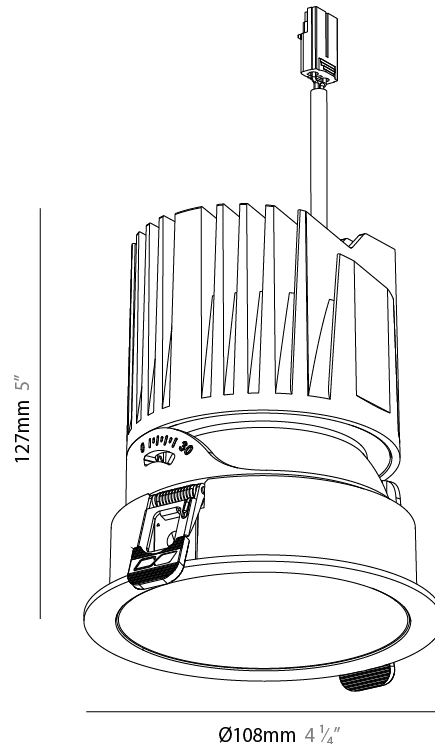
Color Temperature (°K): [2400](#) / [2700](#) / [3000](#) / [3500](#) / [4000](#)
 Max. Delivered Lumen (lm): Max 2583
 Nominal Lumen (lm): Max 3490
 CRI: >90 CRI
 Efficiency (%): 107.2
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: [26](#) / [34](#) / [46](#) / [56](#)
 Adjustability: Rotational 350° / Tilt 30°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 Glare Rating: ≤ 10



A350199-

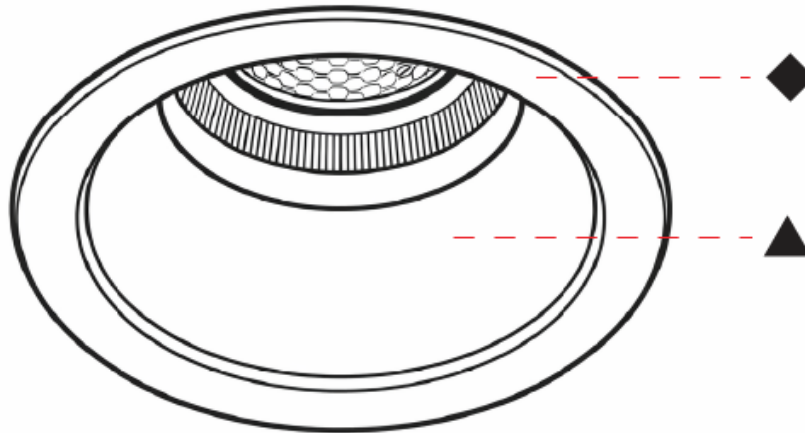
PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____



A

BIONIQ EVO RECESSED

A350200-

base number Finishes (Diamond) Finishes (Triangle) Lens Options Beam Angle 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: Bioniq Evo
 Partner: Prolicht
 Division: Architectural
 Installation: Recessed
 Product Type: Downlight
 Mounting Location: Ceiling
 Light Distribution: Adjustable / Direct

PHYSICAL

Aperture Sizes - Downlights: 4"
 Shape: Round
 Diameter (mm): 108
 Diameter (in): 4 1/4"
 Height (mm): 127
 Depth (mm): 135
 Height (in): 5
 Depth (in): 5 3/16"
 Ceiling Thickness (mm): 2 - 20
 Ceiling Thickness (in): 1/16 - 13/16
 Weight (kg): 0.7
 Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / CHC / COM / ABZ / JAG / OBR / MOS / ROR
 Fixture Material: Extruded Aluminum
 Cut-out Measurements: Ø 95mm/3 3/4"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 19.9
 Total Output Wattage (W): 18.2
 Dimming: Non-dimming / DALI Dimming / MATTER Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Current - Universal
 Driver Class: Class 2
 Constant Current (mA): 500mA
 Upon Request: 0-10V Dimming / Phase Dimming

LED

Color Temperature (°K): 2700-6500 Tunable White
 Max. Delivered Lumen (lm): Max 1906
 Nominal Lumen (lm): Max 2385
 CRI: >90 CRI
 Efficiency (%): 95.6
 Lamp Life (hrs): 50000

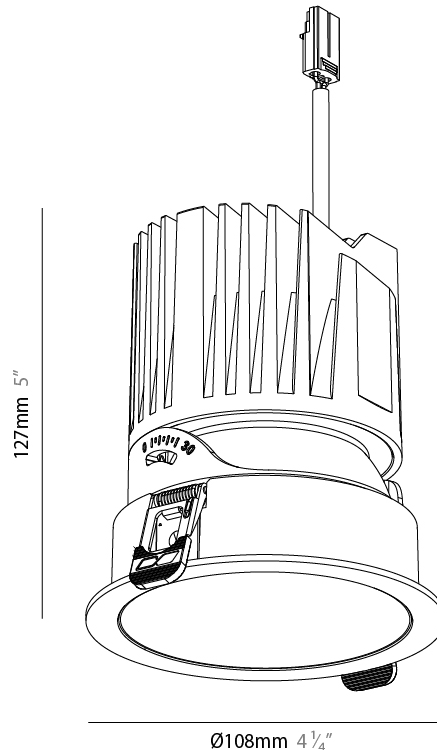
OPTICAL

Beam Angle: 26 / 34 / 46 / 56
 Adjustability: Rotational 350° / Tilt 30°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 Glare Rating: ≤ 10

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



A350200-

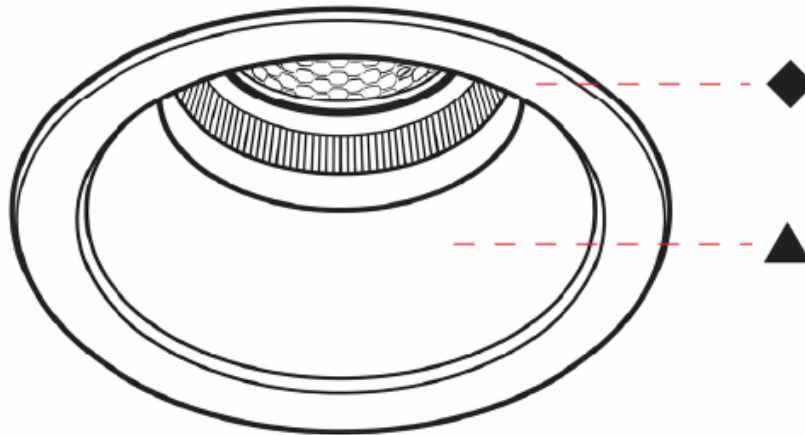
PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____



BIONIQ EVO RECESSED

A350201-

base number Finish Options Finish Options Lens Options Beam Angle 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: Bioniq Evo
 Partner: Prolicht
 Division: Architectural
 Installation: Recessed
 Product Type: Downlight
 Mounting Location: Ceiling
 Light Distribution: Adjustable / Direct

PHYSICAL

Aperture Sizes - Downlights: 4"
 Shape: Round
 Diameter (mm): 108
 Diameter (in): 4 1/4"
 Height (mm): 127
 Depth (mm): 135
 Height (in): 5
 Depth (in): 5 3/16"
 Ceiling Thickness (mm): 2 - 20
 Ceiling Thickness (in): 1/16 - 13/16
 Weight (kg): 0.7
 Fixture Finish: [BLK](#) / [WHI](#) / [ARB](#) / [CHR](#)
 Holder Finish: [WHI](#) / [BLK](#)
 Fixture Material: Extruded Aluminum
 Cut-out Measurements: Ø 75mm/2 15/16"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 19.9
 Total Output Wattage (W): 18.2
 Dimming: Non-dimming / DALI Dimming / MATTER Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Current - Universal
 Driver Class: Class 2
 Constant Current (MA): 500mA
 Upon Request: 0-10V Dimming / Phase Dimming

LED

Color Temperature (°K): 2700-6500 Tunable White
 Max. Delivered Lumen (lm): Max 1906
 Nominal Lumen (lm): Max 2385
 CRI: >90 CRI
 Efficiency (%): 95.6
 Lamp Life (hrs): 50000

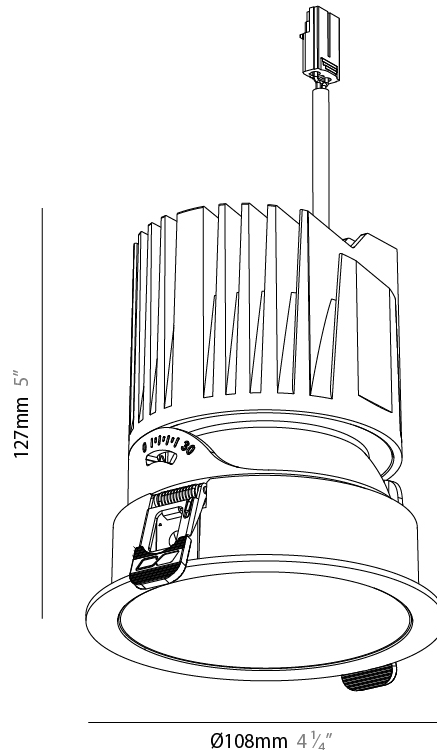
OPTICAL

Beam Angle: [26](#) / [34](#) / [46](#) / [56](#)
 Adjustability: Rotational 350° / Tilt 30°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 Glare Rating: ≤ 10

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



A350201-

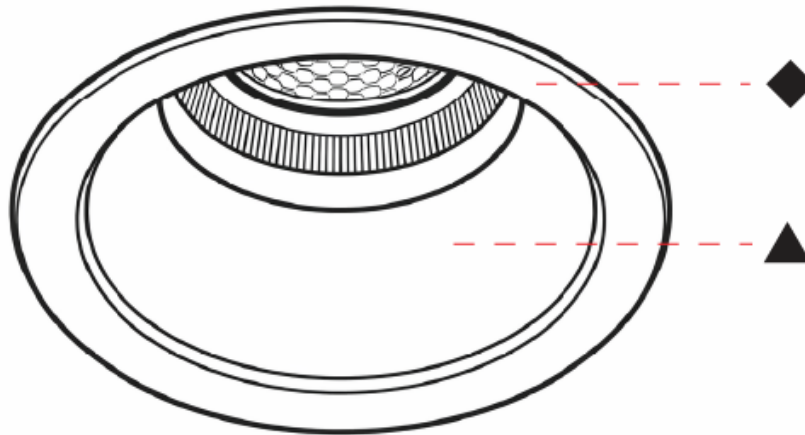
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



BIONIQ EVO TRIMLESS

A350212-

base number Color Finishes Lens Beam Angle
 Temperature (Diamond) Options 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: Bioniq Evo
 Partner: Prolicht
 Division: Architectural
 Installation: Trimless
 Product Type: Downlight
 Mounting Location: Ceiling
 Light Distribution: Adjustable / Direct

PHYSICAL

Aperture Sizes - Downlights: 4"
 Shape: Round
 Diameter (mm): 125
 Diameter (in): 4 7/8
 Height (mm): 122
 Depth (mm): 135
 Height (in): 4 3/4
 Depth (in): 5 1/16
 Ceiling Thickness (mm): 10 - 50
 Ceiling Thickness (in): 3/8 - 1 15/16
 Weight (kg): 0.7
 Fixture Finish: [SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / CHC / COM / ABZ / JAG / OBR / MOS / ROR](#)
 Fixture Material: Extruded Aluminum
 Cut-out Measurements: Ø 95mm/3 3/4"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 21.9
 Total Output Wattage (W): 20
 Dimming: Non-dimming / DALI Dimming / MATTER Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Current - Universal
 Driver Class: Class 2
 Constant Current (mA): 500mA
 Upon Request: 0-10V Dimming / Phase Dimming

LED

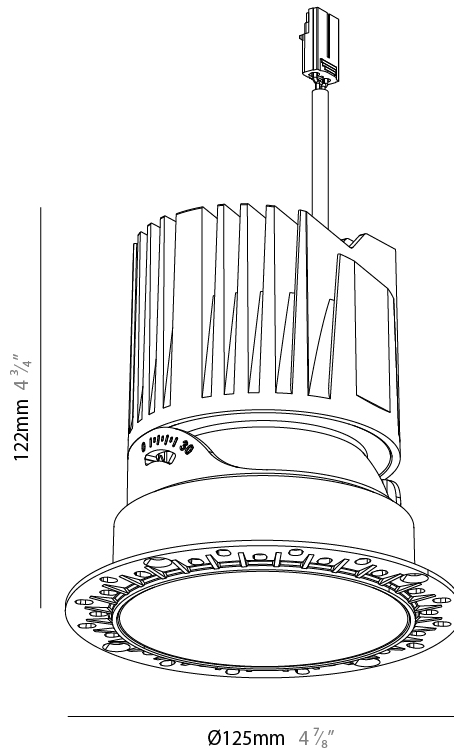
Color Temperature (°K): [2400 / 2700 / 3000 / 3500 / 4000](#)
 Max. Delivered Lumen (lm): Max 2583
 Nominal Lumen (lm): 3490
 CRI: >90 CRI
 Efficiency (%): 117.9
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: [26 / 34 / 46 / 56](#)
 Adjustability: Rotational 350° / Tilt 30°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 Glare Rating: ≤ 10



A350212-

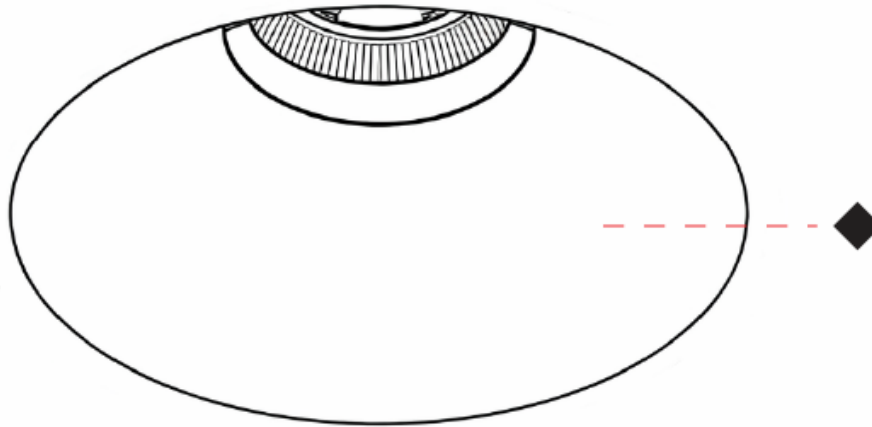
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



BIONIQ EVO TRIMLESS

A350213-

base number Color Finish Lens Beam Angle
 Temperature Options Options 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: Bioniq Evo
 Partner: Prolicht
 Division: Architectural
 Installation: Trimless
 Product Type: Downlight
 Mounting Location: Ceiling
 Light Distribution: Adjustable / Direct

PHYSICAL

Aperture Sizes - Downlights: 4"
 Shape: Round
 Diameter (mm): 125
 Diameter (in): 4 7/8
 Height (mm): 122
 Depth (mm): 135
 Height (in): 4 3/4
 Depth (in): 5 1/16
 Ceiling Thickness (mm): 10 - 50
 Ceiling Thickness (in): 3/8 - 1 15/16
 Weight (kg): 0.7
 Fixture Finish: [BLK](#) / [WHI](#) / [ARB](#) / [CHR](#)
 Fixture Material: Extruded Aluminum
 Cut-out Measurements: Ø 95mm/3 3/4"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 21.9
 Total Output Wattage (W): 20
 Dimming: [Non-dimming](#) / [DALI Dimming](#) / [MATTER Dimming](#)
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Current - Universal
 Driver Class: Class 2
 Constant Current (MA): 500mA
 Upon Request: [0-10V Dimming](#) / [Phase Dimming](#)

LED

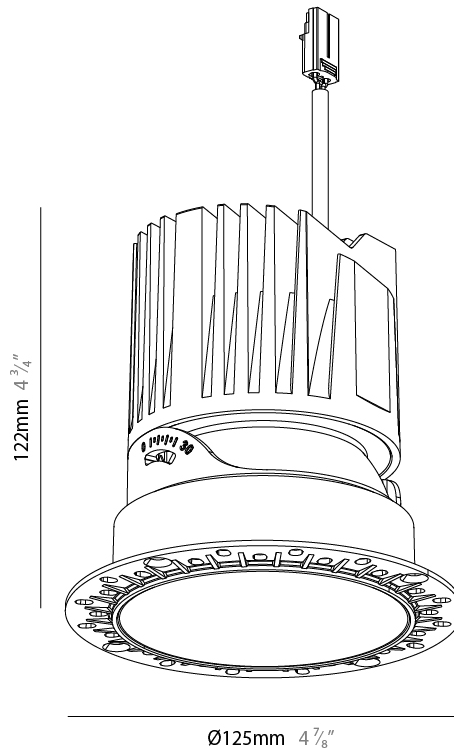
Color Temperature (*K): [2400](#) / [2700](#) / [3000](#) / [3500](#) / [4000](#)
 Max. Delivered Lumen (lm): Max 2583
 Nominal Lumen (lm): 3490
 CRI: >90 CRI
 Efficiency (%): 117.9
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: [26](#) / [34](#) / [46](#) / [56](#)
 Adjustability: [Rotational 350°](#) / [Tilt 30°](#)

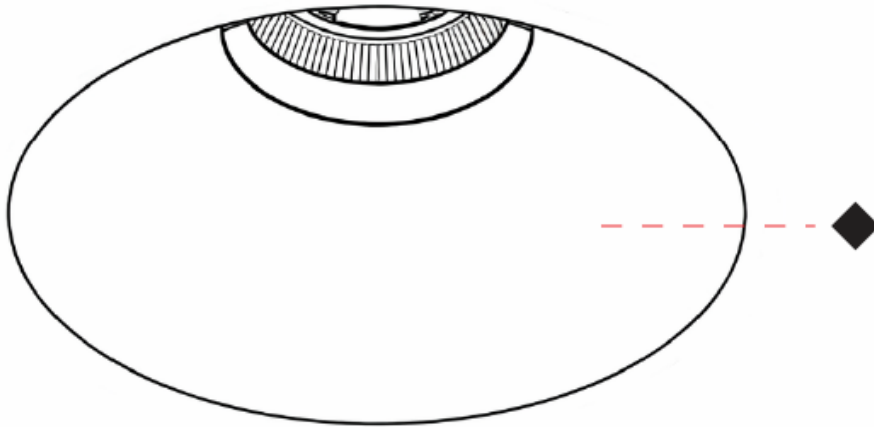
RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 Glare Rating: ≤ 10



A350213-

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



BIONIQ EVO TRIMLESS

A350214-

base number Finishes (Diamond) Lens Options Beam Angle 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: Bioniq Evo
 Partner: Prolicht
 Division: Architectural
 Installation: Trimless
 Product Type: Downlight
 Mounting Location: Ceiling
 Light Distribution: Adjustable / Direct

PHYSICAL

Aperture Sizes - Downlights: 4"
 Shape: Round
 Diameter (mm): 120
 Diameter (in): 4 ¾
 Height (mm): 122
 Depth (mm): 135
 Height (in): 4 ¾
 Depth (in): 5 ⅙
 Ceiling Thickness (mm): 10 - 50
 Ceiling Thickness (in): 3/8 - 1 15/16
 Weight (kg): 0.7
 Fixture Finish: [SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / CHC / COM / ABZ / JAG / OBR / MOS / ROR](#)
 Fixture Material: Extruded Aluminum
 Cut-out Measurements: Ø 95mm/3 3/4"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 19.9
 Total Output Wattage (W): 18.2
 Dimming: Non-dimming / DALI Dimming / MATTER Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Current - Universal
 Driver Class: Class 2
 Constant Current (MA): 500mA
 Upon Request: 0-10V Dimming / Phase Dimming

LED

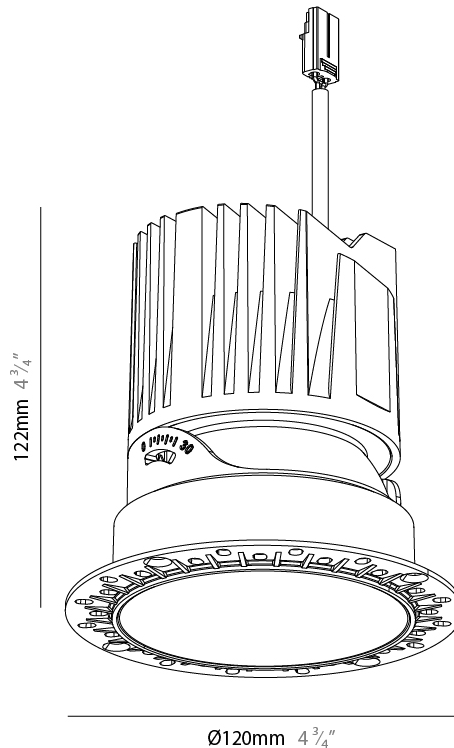
Color Temperature (°K): 2700-6500 Tunable White
 Max. Delivered Lumen (lm): Max 1765
 Nominal Lumen (lm): Max 2385
 CRI: >90 CRI
 Efficiency (%): 88.5
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: [26 / 34 / 46 / 56](#)
 Adjustability: Rotational 350° / Tilt 30°

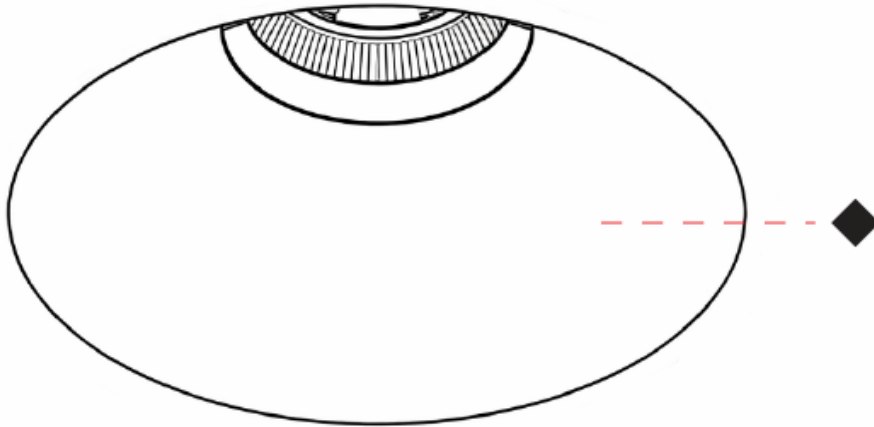
RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 Glare Rating: ≤ 10



A350214-

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



BIONIQ EVO TRIMLESS

A350215-

base number Finish Options Lens Options Beam Angle Options

- To build a product code in our configurator select the specify button on the base model # product page
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GENERAL

Series: Bioniq Evo
 Partner: Prolicht
 Division: Architectural
 Installation: Trimless
 Product Type: Downlight
 Mounting Location: Ceiling
 Light Distribution: Adjustable / Direct

PHYSICAL

Aperture Sizes - Downlights: 4"
 Shape: Round
 Diameter (mm): 120
 Diameter (in): 4 3/4
 Height (mm): 122
 Depth (mm): 135
 Height (in): 4 3/4
 Depth (in): 5 5/16
 Ceiling Thickness (mm): 10 - 50
 Ceiling Thickness (in): 3/8 - 1 15/16
 Weight (kg): 0.7
 Fixture Finish: [BLK / WHI / ARB / CHR](#)
 Fixture Material: Extruded Aluminum
 Cut-out Measurements: Ø 95mm/3 3/4"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 19.9
 Total Output Wattage (W): 18.2
 Dimming: Non-dimming / DALI Dimming / MATTER Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Current - Universal
 Driver Class: Class 2
 Constant Current (MA): 500mA
 Upon Request: 0-10V Dimming / Phase Dimming

LED

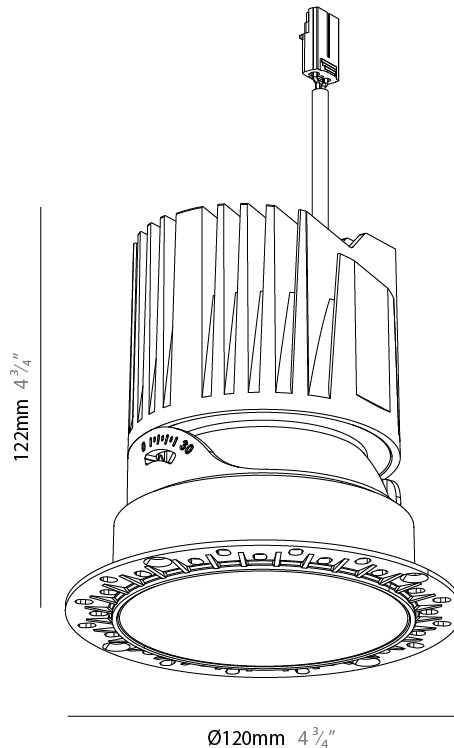
Color Temperature (°K): 2700-6500 Tunable White
 Max. Delivered Lumen (lm): Max 1765
 Nominal Lumen (lm): Max 2385
 CRI: >90 CRI
 Efficiency (%): 88.5
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: [26 / 34 / 46 / 56](#)
 Adjustability: Rotational 350° / Tilt 30°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 Glare Rating: ≤ 10



A350215-

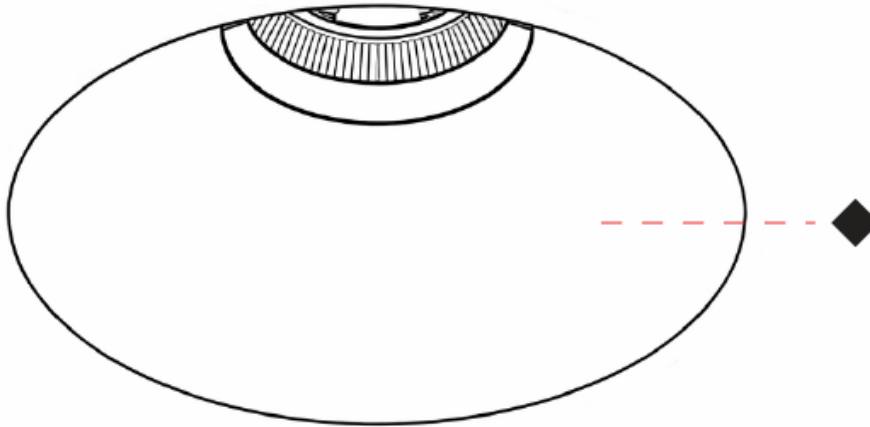
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



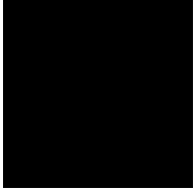
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BIONIQ EVO COLOR FINISH CHART

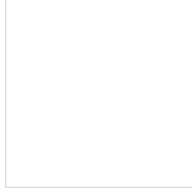
PROJECT _____
 TYPE _____
 SPECIFIER _____
 QUANTITY _____
 DATE _____

Fixture Finish

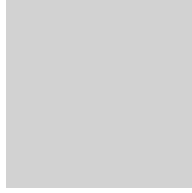
Black - BLK (BLK)



White - WHI (WHI)



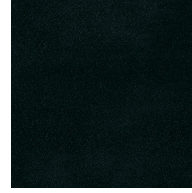
Chrome - (CHR)



Sparkling Silver - 01 (SSR)



Black Velvet - 02 (BKV)



Crystal White - 03 (CWI)



Creamy - 04 (CRY)



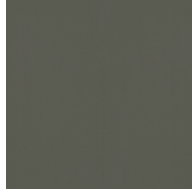
Hampton Bay - 05 (HAB)



Urban Forest - 07 (UFT)



In the Army - 08 (ITA)



Rusty Angel - 09 (RUA)



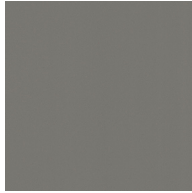
Fade to Gray - 12 (FTG)



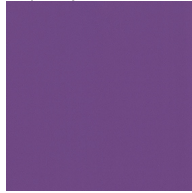
Mysterious Gray - 13 (MYG)



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)



Champagne Cream - 26 (CHC)



Copper Mine - 27 (COM)



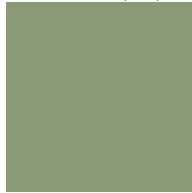
Ancient Bronze - 28 (ABZ)



Jazz Gold - 29 (JAG)



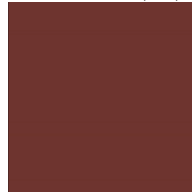
Olive Breeze - 30 (OBR)



Moonlight Silver - 31 (MOS)



Rosewood Red - 32 (ROR)



Holder Finish

White - WHI (WHI)



Black - BLK (BLK)



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

 IP20	protected against ingress of solid bodies greater than 12.5mm (finger)
 IP33	protected against ingress of solid bodies greater than 2.5mm protected against sprays of water up to 60 degrees from the vertical (rain)
 IP40	protected against ingress of solid bodies greater than 1mm (wire) no protection against the ingress of moisture
 IP43	protected against ingress of solid bodies greater than 1mm (wire) protected against sprays of water up to 60 degrees from the vertical (rain)
 IP44	protected against ingress of solid bodies greater than 1mm (wire) protected against water splashed from all directions
 IP54	protected against limited ingress of dust (wet rooms/covered outdoor areas) protected against water splashed from all directions
 IP65	protected against ingress of dust protected against jets of water
 IP66	protected against ingress of dust protected against powerful jets of water or heavy seas
 IP67	protected against ingress of dust protected against immersion of water between 15cm - 1m for 30 minutes
 IP68	protected against ingress of dust protected against immersion of water under pressure for long periods

IK RATING

 IK01	protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm above the surface)
 IK02	protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)
 IK03	protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface)
 IK04	protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)
 IK05	protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)
 IK06	protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)
 IK07	protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)
 IK08	protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)
 IK09	protected against 10 joules impact (equivalent to 5.0kg mass dropped from 200mm above the surface)
 IK10	protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)