

CALIBER 25 RECESSED

E12I0009- -

base number Color Lens
 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: Caliber
 Subseries: Caliber 25
 Brand: Unonovesette
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: In-Ground
 Subcategory: Drive Over

PHYSICAL

Shape: Round
 Diameter (mm): 25
 Diameter (in): 1
 Height (mm): 77
 Height (in): 3 1/16
 Light Distribution: Direct
 Weight (kg): 0.11
 Weight (lbs): 0.24
 Load Resistance (kg): 1500
 Load Resistance (lbs): 3306
 Installation Requirement: Housing box / Fixing springs
 Diffuser: Extra clear / Frosted glass 2mm
 Fixture Finish: Stainless Steel AISI 316L
 Fixture Material: Stainless Steel AISI 316L
 Cable Details: 350mm NS20N PCP 2x0.5 mm2

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 2
 Total Output Wattage (W): 2
 Dimming: Non-Dimmable / 0-10V Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

Number of LEDs: 1
 Color Temperature (*K): 2200 / 2700 / 3000 / 4000
 Max. Delivered Lumen (lm): 127
 CRI: >90 CRI
 Lamp Life (hrs): 100000

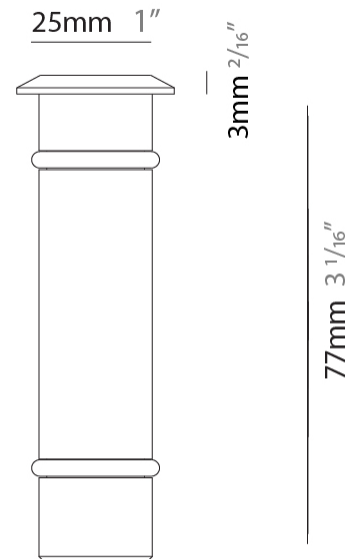
OPTICAL

Optic*: 10 / 40 / 180
 Beam Angle: Narrow / Wide / Diffused
 Adjustability: Fixed

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP68 (not for permanent immersion)
 IK Rating: IK08
 Marine Grade: Stainless Steel AISI 316L

PROJECT
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E12I0009-

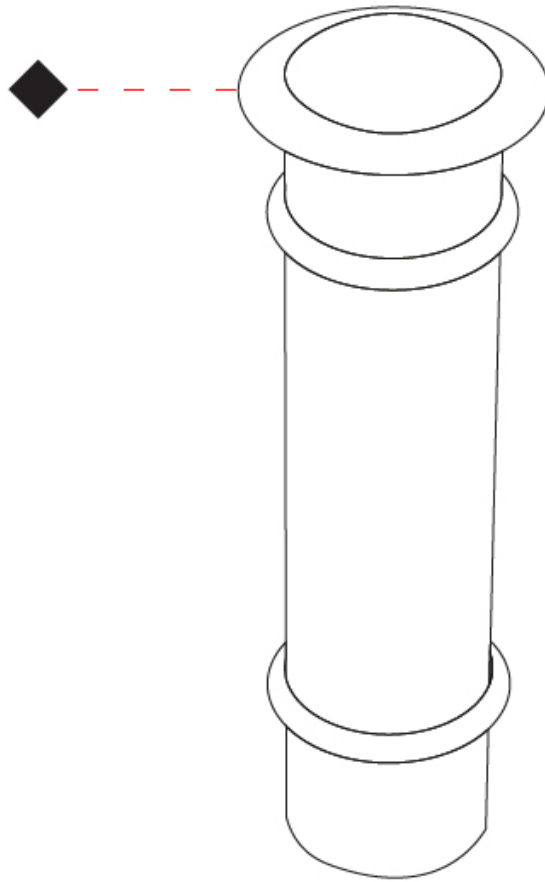
PROJECT

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CALIBER 52 RECESSED

E12I0010-

base number Color Finish Lens
 Temperature 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: Caliber
 Subseries: Caliber 52
 Brand: Unonovesette
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: In-Ground
 Subcategory: Drive Over

PHYSICAL

Shape: Round
 Diameter (mm): 52
 Diameter (in): 2 1/16
 Height (mm): 82
 Height (in): 3 1/4
 Light Distribution: Direct
 Weight (kg): 0.28
 Weight (lbs): 0.62
 Load Resistance (kg): 1500
 Load Resistance (lbs): 3306
 Installation Requirement: Housing box / Fixing springs
 Diffuser: Extra clear tempered / Frosted glass 4mm
 Fixture Finish: ASB / SST
 Fixture Material: Stainless Steel AISI 316L
 Cable Details: 350mm NS20N PCP 2x0.5 mm2

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 3.92
 Total Output Wattage (W): 2
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

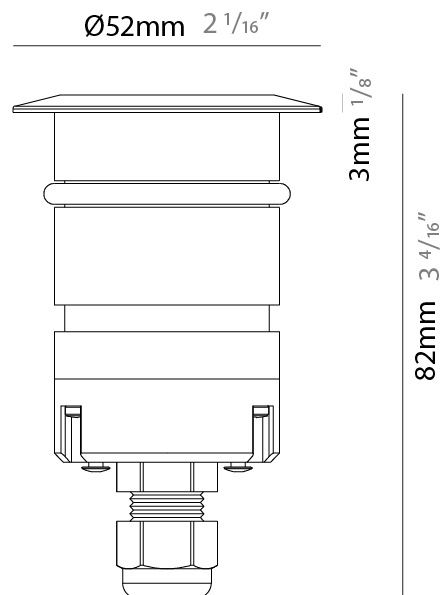
Number of LEDs: 1
 Color Temperature (°K): 2200 / 2700 / 3000 / 4000
 Max. Delivered Lumen (lm): 127
 CRI: >90 CRI
 Lamp Life (hrs): 100000

OPTICAL

Optic°: 10 / 23 / 43 / 1040
 Beam Angle: Narrow / Medium / Wide / Elliptical
 Adjustability: Fixed

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP68 (not for permanent immersion)
 IK Rating: IK08
 Marine Grade: Stainless Steel AISI 316L



E12I0010-

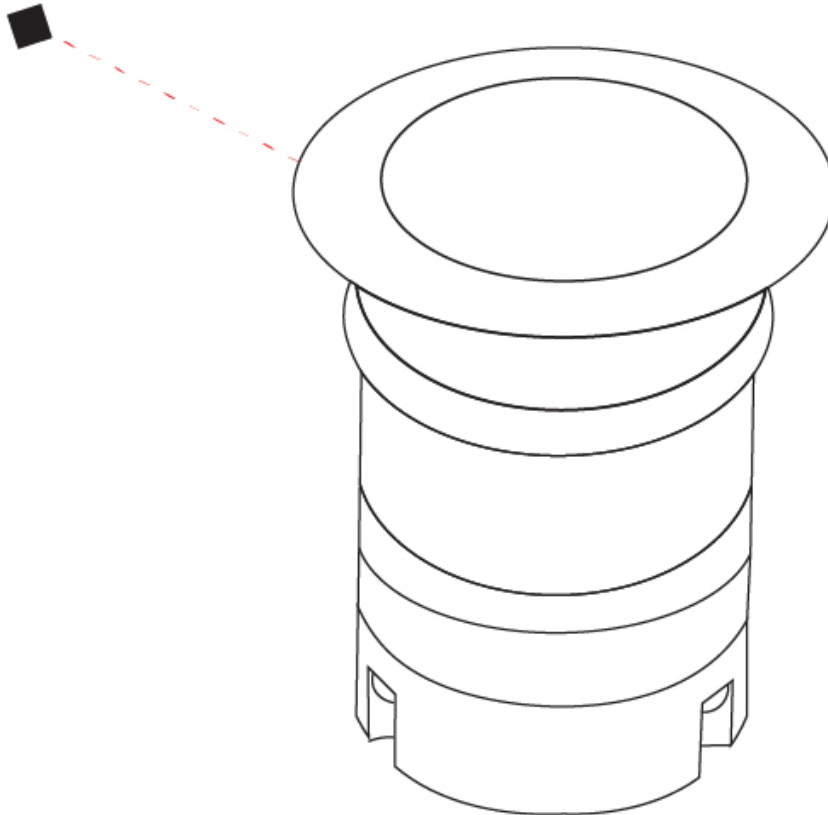
PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____



E

CALIBER 80 RECESSED

E12I0011- - -

base number Color Finish Lens
 Temperature 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: Caliber
 Subseries: Caliber 80
 Brand: Unonovesette
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: In-Ground
 Subcategory: Drive Over

PHYSICAL

Shape: Round
 Diameter (mm): 80
 Diameter (in): 3 1/8
 Height (mm): 95.5
 Height (in): 3 3/4
 Light Distribution: Direct
 Weight (kg): 0.57
 Weight (lbs): 1.26
 Load Resistance (kg): 2500
 Load Resistance (lbs): 5511
 Installation Requirement: Housing box / Fixing springs
 Diffuser: Extra clear / Frosted glass 6mm
 Fixture Finish: [ASB / SST](#)
 Fixture Material: Stainless Steel AISI 316L
 Cable Details: 350mm NS20N PCP 2x0.5 mm2

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 8.1
 Total Output Wattage (W): 5
 Dimming: Non-Dimming / Phase Dimming (120Vac only) / 0-10V Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

Number of LEDs: 1
 Color Temperature (°K): [2700 / 3000 / 4000](#)
 Max. Delivered Lumen (lm): 515
 CRI: >90 CRI
 Lamp Life (hrs): 100000
 Upon Request: Dim to Warm

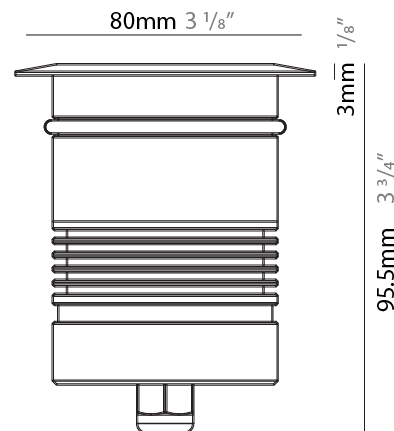
OPTICAL

Optic°: [10 / 30 / 50 / 10x45 / DIF](#)
 Beam Angle: Narrow / Medium / Wide / Elliptical / Diffused

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP68 (not for permanent immersion)
 IK Rating: IK08
 Marine Grade: Stainless Steel AISI 316L

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E12I0011-

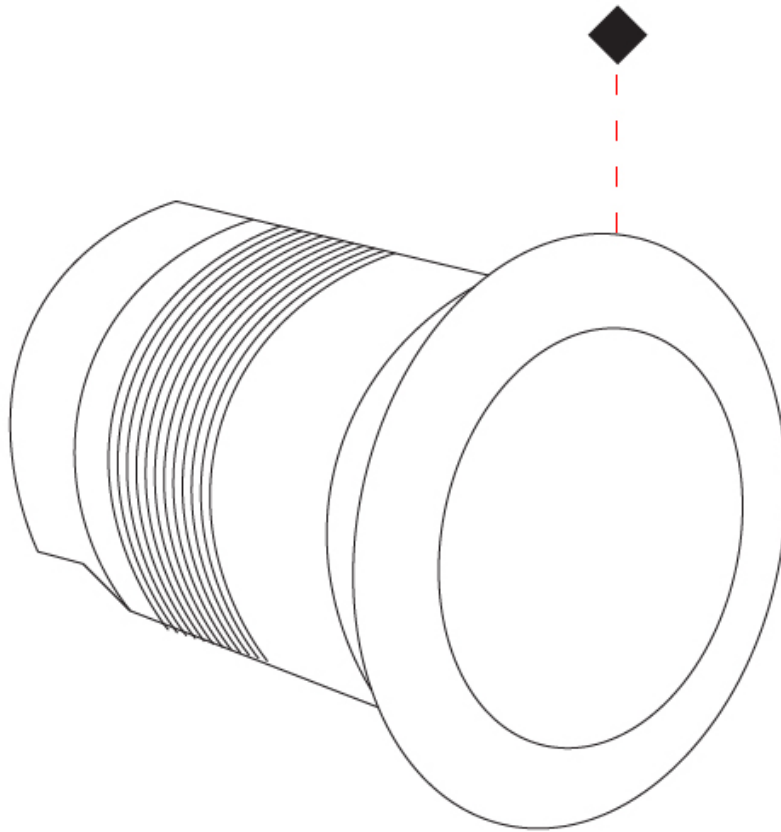
PROJECT _____

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DATE _____



E

CALIBER 80 Q RECESSED

E12I0012- -

base number Color Lens
 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: Caliber
 Subseries: Caliber 80 Q
 Brand: Unonovesette
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: In-Ground
 Subcategory: Drive Over

PHYSICAL

Shape: Square
 Diameter (mm): 80
 Diameter (in): 3 1/8
 Height (mm): 95.5
 Height (in): 3 3/4
 Light Distribution: Direct
 Load Resistance (kg): 2500
 Load Resistance (lbs): 5511
 Installation Requirement: Housing box / Fixing springs
 Diffuser: Extra clear / Frosted glass 6mm
 Fixture Finish: Stainless Steel AISI 316L
 Fixture Material: Stainless Steel AISI 316L
 Cable Details: 350mm NS20N PCP 2x0.5 mm2

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 8.1
 Total Output Wattage (W): 5
 Dimming: Non-Dimming / Phase Dimming (120Vac only) / 0-10V Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

Number of LEDs: 1
 Color Temperature (°K): 2700 / 3000 / 4000
 Max. Delivered Lumen (lm): 515
 CRI: >90 CRI
 Lamp Life (hrs): 100000

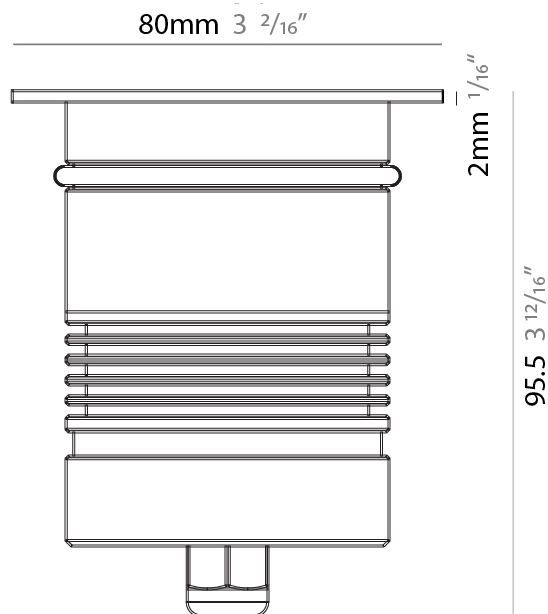
OPTICAL

Optic°: 10 / 30 / 50 / DIF
 Beam Angle: Narrow / Medium / Wide / Diffused

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP68 (not for permanent immersion)
 IK Rating: IK08
 Marine Grade: Stainless Steel AISI 316L

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E12I0012-

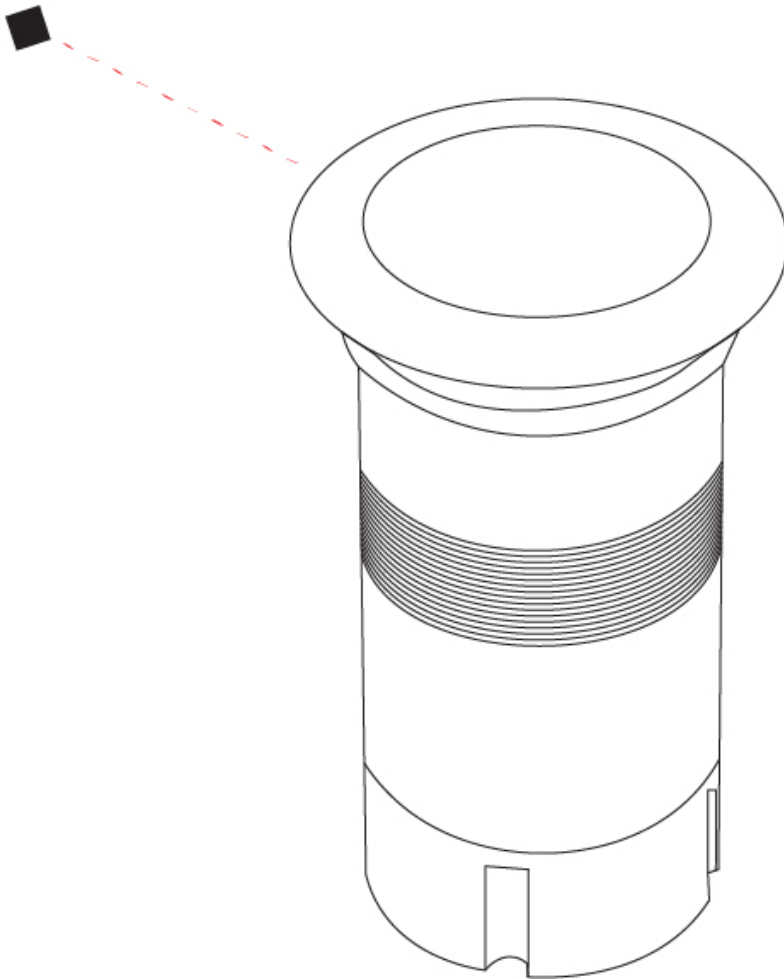
PROJECT

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SPECIFIER

QUANTITY

DATE



E

CALIBER 80 Q RECESSED

E1210026- -

base number Color Lens
 Temperature Options

PROJECT
TYPE
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- 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: Caliber
 Subseries: Caliber 80 Q
 Brand: Unonovesette
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: In-Ground
 Subcategory: Drive Over

PHYSICAL

Shape: Square
 Diameter (mm): 80
 Diameter (in): 3 1/8
 Height (mm): 95.5
 Height (in): 3 3/4
 Light Distribution: Direct
 Installation Requirement: Housing box / Fixing springs
 Diffuser: Extra clear / Frosted glass 6mm
 Fixture Finish: Stainless Steel AISI 316L
 Fixture Material: Stainless Steel AISI 316L
 Cable Details: 350mm NS20N PCP 2x0.5 mm2

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 9.04
 Total Output Wattage (W): 8.5
 Dimming: Non-Dimming / Phase Dimming (120Vac only) / 0-10V Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

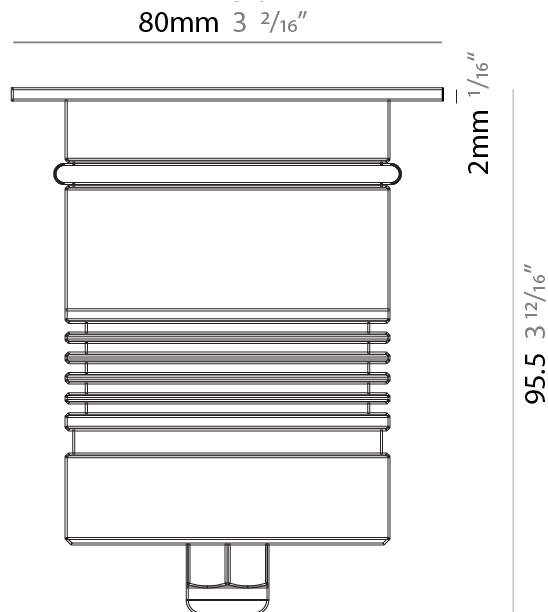
Number of LEDs: 1
 Color Temperature (°K): 2700 / 3000 / 4000
 Max. Delivered Lumen (lm): 730
 CRI: >90 CRI
 Lamp Life (hrs): 100000

OPTICAL

Optic°: 10 / 30 / 50 / DIF
 Beam Angle: Narrow / Medium / Wide / Diffused

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP68 (not for permanent immersion)
 IK Rating: IK08
 Marine Grade: Stainless Steel AISI 316L



E12I0026-

PROJECT

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E

CALIBER 80 RECESSED

E12I0028-

base number Finish 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: Caliber
 Subseries: Caliber 80
 Brand: Unonovesette
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: In-Ground
 Subcategory: Drive Over

PHYSICAL

Shape: Round
 Diameter (mm): 80
 Diameter (in): 3 1/8
 Height (mm): 95.5
 Height (in): 3 3/4
 Light Distribution: Direct
 Weight (kg): 0.57
 Weight (lbs): 1.26
 Installation Requirement: Housing box / Fixing springs
 Diffuser: Extra clear / Frosted glass 6mm
 Fixture Finish: [ASB / SST](#)
 Fixture Material: Stainless Steel AISI 316L
 Cable Details: 350mm NS20N PCP 2x0.5 mm2

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 9
 Dimming: DMX
 Control Gear: DMX
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

Number of LEDs: 1
 Color Temperature (°K): RGBW
 Max. Delivered Lumen (lm): 720
 CRI: >90 CRI
 Lamp Life (hrs): 100000
 Special LEDs offerings: RGBW

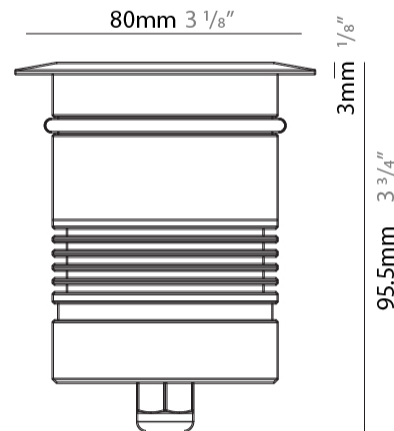
OPTICAL

Optic°: 35
 Beam Angle: Medium

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP68 (not for permanent immersion)
 IK Rating: IK08
 Marine Grade: Stainless Steel AISI 316L

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E12I0028-

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E

CALIBER 80 Q RECESSED

E12I0029-

base number

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- 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: Caliber
 Subseries: Caliber 80 Q
 Brand: Unonovesette
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: In-Ground
 Subcategory: Drive Over

PHYSICAL

Shape: Square
 Diameter (mm): 80
 Diameter (in): 3 1/8
 Height (mm): 95.5
 Height (in): 3 3/4
 Light Distribution: Direct
 Installation Requirement: Housing box / Fixing springs
 Diffuser: Extra clear / Frosted glass 6mm
 Fixture Finish: Stainless Steel AISI 316L
 Fixture Material: Stainless Steel AISI 316L
 Cable Details: 350mm NS20N PCP 2x0.5 mm2

ELECTRICAL

Lamp Type: LED
 Total Output Wattage (W): 9
 Dimming: DMX
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

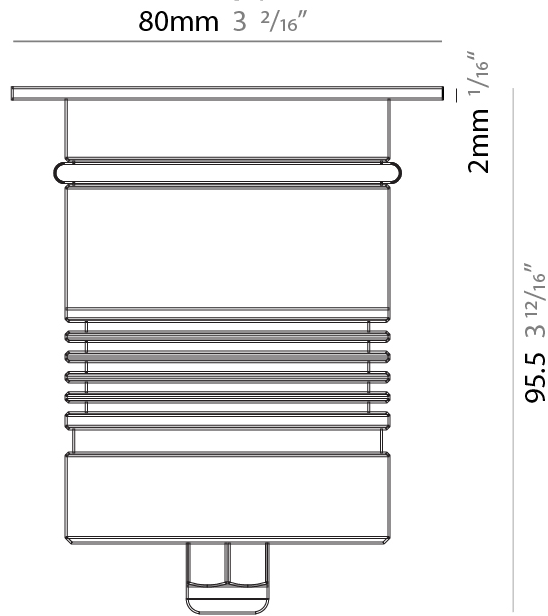
Number of LEDs: 1
 Color Temperature (°K): RGBW
 Max. Delivered Lumen (lm): 730
 CRI: >90 CRI
 Lamp Life (hrs): 100000
 Special LEDs offerings: RGBW

OPTICAL

Optic°: 35

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP68 (not for permanent immersion)
 IK Rating: IK08
 Marine Grade: Stainless Steel AISI 316L



E12I0029-

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CALIBER 120 D RECESSED

E1210036-

base number Color Finish Lens
 Temperature 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: Caliber
 Subseries: Caliber 120 D
 Brand: Unonovesette
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: In-Ground
 Subcategory: Drive Over

PHYSICAL

Shape: Square
 Diameter (mm): 116
 Diameter (in): 4 9/16
 Height (mm): 104
 Height (in): 4 1/8
 Light Distribution: Direct
 Weight (kg): 0.900
 Weight (lbs): 1.98
 Installation Requirement: Housing box
 Diffuser: Extra clear glass 6mm
 Fixture Finish: [ASB / SST](#)
 Fixture Material: Stainless Steel AISI 316L
 Cable Details: 350mm NS20N PCP 2x0.5 mm2

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 8.1
 Total Output Wattage (W): 5
 Dimming: Non-Dimming / Phase Dimming (120Vac only) / 0-10V Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

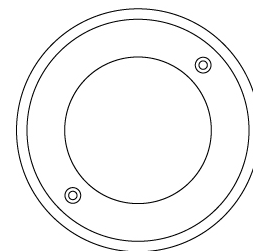
Number of LEDs: 1
 Color Temperature (°K): [2700 / 3000 / 4000](#)
 Max. Delivered Lumen (lm): 515
 CRI: >90 CRI
 Lamp Life (hrs): 100000

OPTICAL

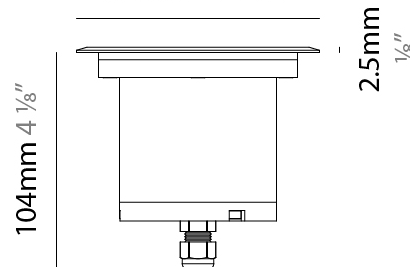
Optic°: [10 / 35 / 50](#)
 Beam Angle: Narrow / Medium / Wide
 Adjustability: Rotational 360°; Tilt 15°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP68 (not for permanent immersion)
 IK Rating: IK08
 Marine Grade: Stainless Steel AISI 316L



Ø116mm 4 9/16"



CALIBER 120 D RECESSED

E12I0036-

PROJECT

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CALIBER 120 D RECESSED

E1210037- - -

base number Color Finish Lens
 Temperature 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: Caliber
 Subseries: Caliber 120 D
 Brand: Unonovesette
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: In-Ground
 Subcategory: Drive Over

PHYSICAL

Shape: Square
 Diameter (mm): 116
 Diameter (in): 4 ⁹/₁₆
 Height (mm): 104
 Height (in): 4 ¹/₈
 Light Distribution: Direct
 Weight (kg): 0.900
 Weight (lbs): 1.98
 Installation Requirement: Housing box
 Diffuser: Extra clear glass 6mm
 Fixture Finish: [ASB / SST](#)
 Fixture Material: Stainless Steel AISI 316L
 Cable Details: 350mm NS20N PCP 2x0.5 mm2

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 9.04
 Total Output Wattage (W): 8.5
 Dimming: Non-Dimming / Phase Dimming (120Vac only) / 0-10V Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

Number of LEDs: 1
 Color Temperature (°K): [2700 / 3000 / 4000](#)
 Max. Delivered Lumen (lm): 730 (3000K)
 CRI: >90 CRI
 Lamp Life (hrs): 100000

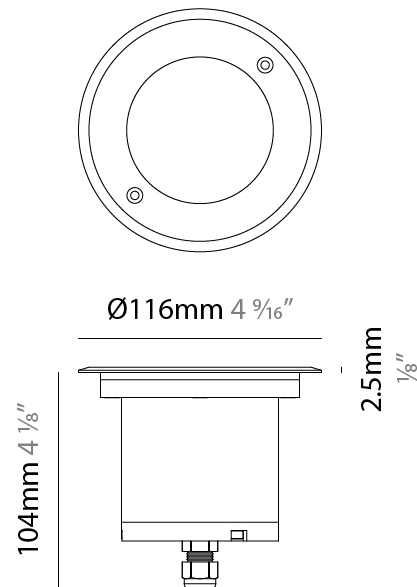
OPTICAL

Optic°: [10 / 35 / 50](#)
 Beam Angle: Narrow / Medium / Wide
 Adjustability: Rotational 360°; Tilt 15°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP68 (not for permanent immersion)
 IK Rating: IK08
 Marine Grade: Stainless Steel AISI 316L

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CALIBER 120 D RECESSED

E12I0037-

PROJECT

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CALIBER 120 D RECESSED

E12I0039- -

base number Color Finish
 Temperature Options

PROJECT
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- 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: Caliber
 Subseries: Caliber 120 D
 Brand: Unonovesette
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: In-Ground
 Subcategory: Drive Over

PHYSICAL

Shape: Square
 Diameter (mm): 116
 Diameter (in): 4 9/16
 Height (mm): 104
 Height (in): 4 1/8
 Light Distribution: Direct
 Weight (kg): 0.900
 Weight (lbs): 1.98
 Installation Requirement: Housing box
 Diffuser: Extra clear glass 6mm
 Fixture Finish: [ASB / SST](#)
 Fixture Material: Stainless Steel AISI 316L
 Cable Details: 350mm NS20N PCP 2x0.5 mm2

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 10.4
 Total Output Wattage (W): 8.6
 Dimming: Non-Dimmable / 0-10V Dimming
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Housing: ENCP8
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24
 Constant Voltage (V): 24.06

LED

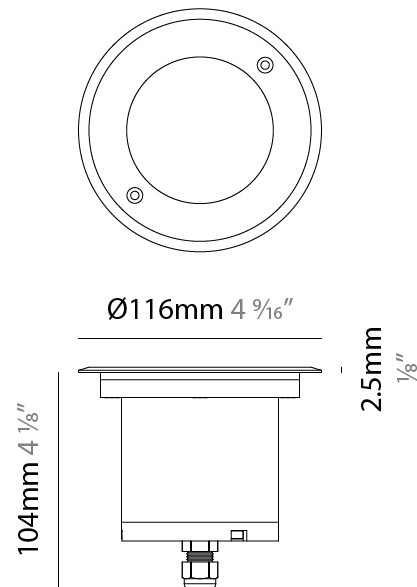
Number of LEDs: 1
 Color Temperature (°K): [RGBW](#)
 CRI: >90 CRI
 Lamp Life (hrs): 100000

OPTICAL

Optic°: 35
 Beam Angle: Medium
 Adjustability: Rotational 360°; Tilt 15°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP68 (not for permanent immersion)
 IK Rating: IK08
 Marine Grade: Stainless Steel AISI 316L



CALIBER 120 D RECESSED

E12I0039-

PROJECT

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SPECIFIER

QUANTITY

DATE



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PROJECT _____

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SPECIFIER _____

QUANTITY _____

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Fixture Finish

Machined aged solid brass - ASB



Stainless Steel - SST



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.



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LEGEND

	floor-mounted		pivotal		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
	dimnable 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)