

INVADER COMPACT TRIMLESS

A35809-

base number Color Finishes Ceiling Reflector
 Temperature (Diamond) Thickness 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: Invader Compact
 Subseries: Invader Compact
 Brand: Prolight
 Division: Architectural
 Mounting Type: Trimless
 Mounting Location: Ceiling
 Subcategory: Downlight

PHYSICAL

Shape: Round
 Diameter (mm): 75
 Diameter (in): 2 15/16
 Height (mm): 52
 Height (in): 2 1/16
 Ceiling Thickness (mm): 10 / 12.5 / 15 / 25
 Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1
 Min. Recessing Depth (mm): 60
 Min. Recessing Depth (in): 2 3/8
 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
 Cut-out Measurements: D. 86mm / 3 3/8"
 Upon Request: Unique Sizes Unique Ceiling Thickness

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 12
 Total Output Wattage (W): 10.9
 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 - 120Vac
 Driver Class: Class 2
 Housing: See components
 Input Voltage (V): 120 - 277
 Constant Current (MA): 500mA

LED

Number of LEDs: 1
 Color Temperature (°K): 2700 / 3000 / 3500 / 4000
 Max. Delivered Lumen (lm): 1012 / 1059 / 1089 / 1123
 Nominal Lumen (lm): 1141 / 1195 / 1123 / 1266
 CRI: >90 CRI
 Lamp Life (hrs): 50000

OPTICAL

Reflector: 18 / 36 / 56
 Upon Request: Special Beam Angles

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP44



Ø75mm 2 15/16"

Ø85mm 3 3/8"



INVADER COMPACT TRIMLESS

A35809-

PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

INVADER COMPACT TRIMLESS

A35810- - -
 base number Finishes Ceiling Reflector
 (Diamond) Thickness 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: Invader Compact
 Subseries: Invader Compact
 Brand: Prolicht
 Division: Architectural
 Mounting Type: Trimless
 Mounting Location: Ceiling
 Subcategory: Downlight

PHYSICAL

Shape: Round
 Diameter (mm): 75
 Diameter (in): 2 15/16
 Height (mm): 52
 Height (in): 2 1/16
 Ceiling Thickness (mm): 10 / 12.5 / 15 / 25
 Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1
 Min. Recessing Depth (mm): 60
 Min. Recessing Depth (in): 2 3/8
 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
 Cut-out Measurements: D. 86mm / 3 3/8"
 Upon Request: Unique Sizes Unique Ceiling Thickness

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 11
 Total Output Wattage (W): 10
 Dimming: Dali Dimming
 Driver Included: No
 Driver Location: Recessed Housing
 Driver Type: Constant Current - 120Vac
 Housing: See Components
 Input Voltage (V): 120
 Constant Current (MA): 250mA

LED

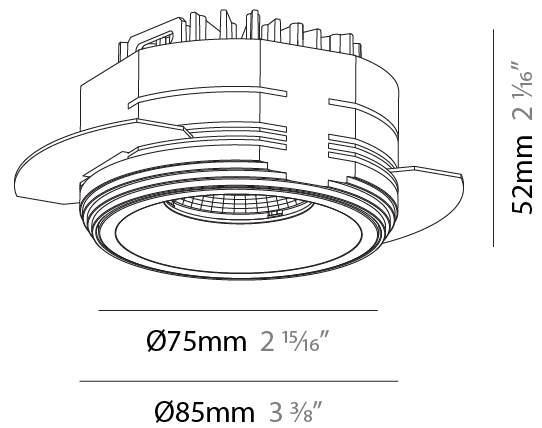
Number of LEDs: 1
 Color Temperature (°K): Warm Dim
 Max. Delivered Lumen (lm): 898
 Nominal Lumen (lm): 1004
 CRI: >90 CRI
 Lamp Life (hrs): 50000

OPTICAL

Reflector°: 16 / 36 / 56
 Upon Request: Special Beam Angles

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP44



INVADER COMPACT TRIMLESS

A35810-

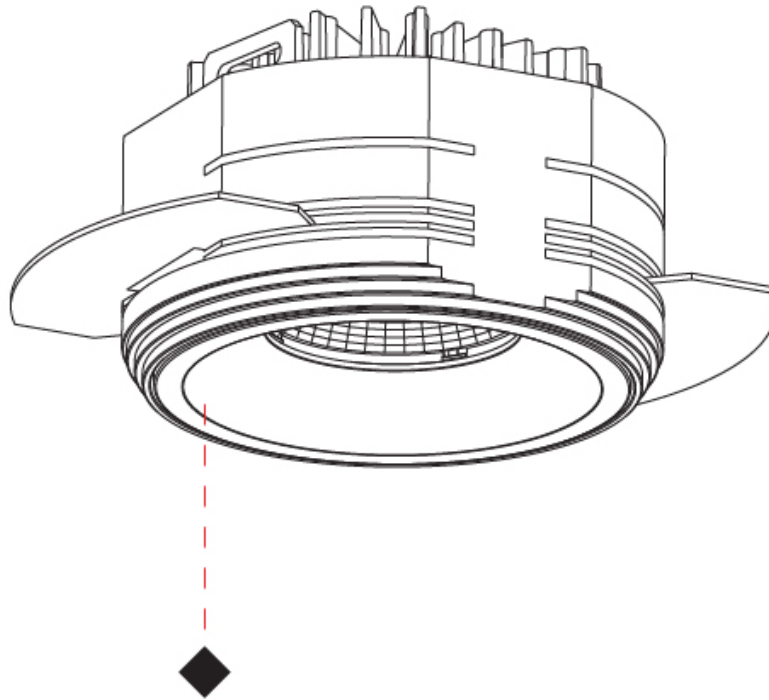
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE

INVADER COMPACT RECESSED

A35811-

base number	Color Temperature	Finishes (Diamond)	Reflector Options	Lens Options
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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: Invader Compact
Subseries: Invader Compact
Brand: Prolicht
Division: Architectural
Mounting Type: Recessed
Mounting Location: Ceiling
Subcategory: Downlight

PHYSICAL

Shape: Round
Diameter (mm): 75
Diameter (in): 2 15/16
Height (mm): 52
Height (in): 2 1/16
Ceiling Thickness (mm): 1 - 25
Ceiling Thickness (in): 1/16 - 1
Min. Recessing Depth (mm): 55
Min. Recessing Depth (in): 2 3/16
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
Cut-out Measurements: D. 68mm / 2 11/16"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 12
Total Output Wattage (W): 9
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 - 120Vac
Driver Class: Class 2
Housing: See components
Input Voltage (V): 120 - 277
Constant Current (MA): 500mA

LED

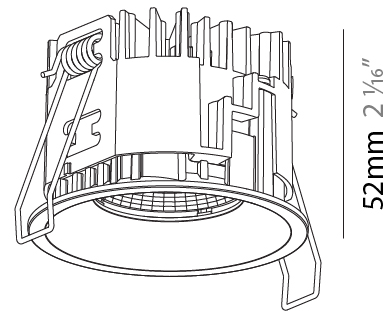
Number of LEDs: 1
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 1012 / 1059 / 1098 / 1123
Nominal Lumen (lm): 1141 / 1194 / 1238 / 1266
CRI: >90 CRI
Lamp Life (hrs): 50000

OPTICAL

Reflector°: 18 / 36 / 56

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP44



Ø75mm 2 15/16"



INVADER COMPACT RECESSED

A35811-

PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



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PROJECT
TYPE
SPECIFIER
QUANTITY
DATE

INVADER COMPACT RECESSED

A35812-

base number Finishes (Diamond) Reflector 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: Invader Compact
 Subseries: Invader Compact
 Brand: Prolicht
 Division: Architectural
 Mounting Type: Recessed
 Mounting Location: Ceiling
 Subcategory: Downlight

PHYSICAL

Shape: Round
 Diameter (mm): 75
 Diameter (in): 2 15/16
 Height (mm): 52
 Height (in): 2 1/16
 Ceiling Thickness (mm): 1 - 25
 Ceiling Thickness (in): 1/16 - 1
 Min. Recessing Depth (mm): 55
 Min. Recessing Depth (in): 2 3/16
 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
 Cut-out Measurements: D. 68mm / 2 11/16"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 11
 Total Output Wattage (W): 10
 Dimming: Dali Dimming
 Driver Included: No
 Driver Location: Recessed Housing
 Driver Type: Constant Current - 120Vac
 Housing: See Components
 Input Voltage (V): 120
 Constant Current (MA): 250mA

LED

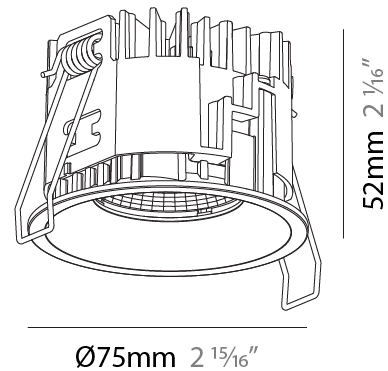
Number of LEDs: 1
 Color Temperature (°K): Warm Dim
 Max. Delivered Lumen (lm): 898
 Nominal Lumen (lm): 1004
 CRI: >90 CRI
 Lamp Life (hrs): 50000

OPTICAL

Reflector: 16 / 36 / 56

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP44



INVADER COMPACT RECESSED

A35812-

PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



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PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

INVADER COMPACT ADJUSTABLE RECESSED

A35813-

base number	Color Temperature	Finishes (Diamond)	Finishes (Triangle)	Finishes (Circle)	Reflector Options
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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: Invader Compact
 Subseries: Invader Compact Adjustable
 Brand: Prolight
 Division: Architectural
 Mounting Type: Recessed
 Mounting Location: Ceiling
 Subcategory: Downlight

PHYSICAL

Shape: Round
 Diameter (mm): 75
 Diameter (in): 2 15/16
 Height (mm): 75
 Height (in): 2 15/16
 Ceiling Thickness (mm): 1 - 25
 Ceiling Thickness (in): 1/16 - 1
 Min. Recessing Depth (mm): 85
 Min. Recessing Depth (in): 3 3/8
 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
 Cut-out Measurements: D. 68mm / 2 11/16"
 Upon Request: Unique Sizes Unique Ceiling Thickness

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 11
 Total Output Wattage (W): 10
 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 - 120Vac
 Driver Class: Class 2
 Housing: See Components
 Input Voltage (V): 120 - 277
 Constant Current (MA): 500

LED

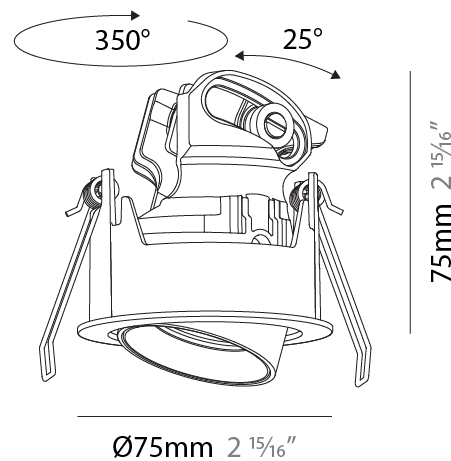
Number of LEDs: 1
 Color Temperature (°K): 2700 / 3000 / 3500 / 4000
 Max. Delivered Lumen (lm): 812 / 860 / 892 / 911
 Nominal Lumen (lm): 1141 / 1194 / 1238 / 1266
 CRI: >90 CRI
 Lamp Life (hrs): 50000

OPTICAL

Reflector°: 22 / 38 / 48
 Adjustability: Rotational 350° / Tilt 25°
 Upon Request: Special Beam Angles

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP40



INVADER COMPACT ADJUSTABLE RECESSED

A35813-

PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



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PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

INVADER COMPACT ADJUSTABLE RECESSED

A35814-

base number	Finishes (Diamond)	Finishes (Triangle)	Finishes (Circle)	Reflector Options
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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: Invader Compact
 Subseries: Invader Compact Adjustable
 Brand: Prolicht
 Division: Architectural
 Mounting Type: Recessed
 Mounting Location: Ceiling
 Subcategory: Downlight

PHYSICAL

Shape: Round
 Diameter (mm): 75
 Diameter (in): 2 15/16
 Height (mm): 75
 Height (in): 2 15/16
 Ceiling Thickness (mm): 1 - 25
 Ceiling Thickness (in): 1/16 - 1
 Min. Recessing Depth (mm): 85
 Min. Recessing Depth (in): 3 3/8
 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
 Cut-out Measurements: D. 68mm / 2 11/16"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 11
 Total Output Wattage (W): 10
 Dimming: Dali Dimming
 Driver Included: No
 Driver Location: Recessed Housing
 Driver Type: Constant Current - 120Vac
 Housing: See Components
 Input Voltage (V): 120
 Constant Current (MA): 250

LED

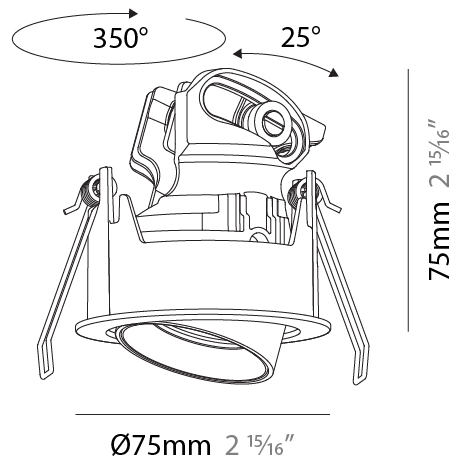
Number of LEDs: 1
 Color Temperature (°K): Warm Dim
 Max. Delivered Lumen (lm): 862
 Nominal Lumen (lm): 1004
 CRI: >90 CRI
 Lamp Life (hrs): 50000

OPTICAL

Reflector°: 24 / 40 / 54
 Adjustability: Rotational 350° / Tilt 25°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP40



INVADER COMPACT ADJUSTABLE RECESSED

A35814-

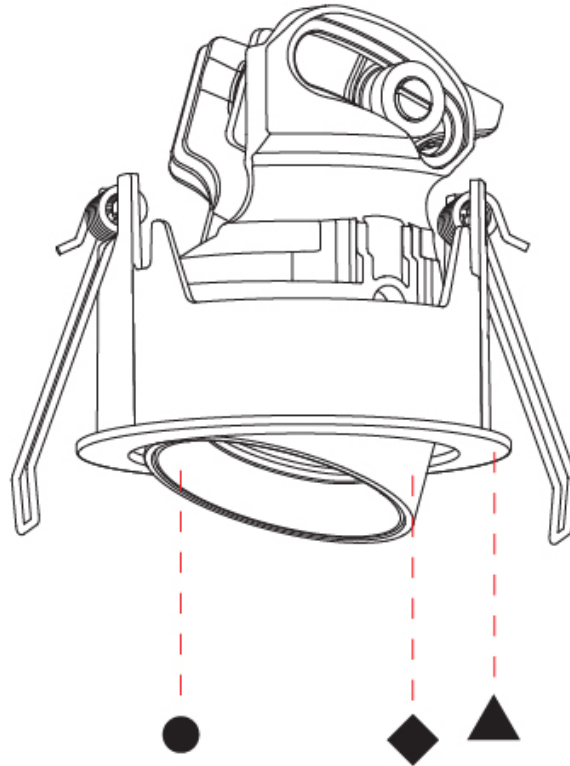
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



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PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

INVADER COMPACT ADJUSTABLE TRIMLESS

A35846-

base number	Color Temperature	Finishes (Diamond)	Finishes (Triangle)	Finishes (Circle)	Ceiling Thickness	Reflector Options
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- To build a product code in our configurator select the specify button on the base model # product page
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GENERAL

Series: Invader Compact
 Subseries: Invader Compact Adjustable
 Brand: Prolicht
 Division: Architectural
 Mounting Type: Trimless
 Mounting Location: Ceiling
 Subcategory: Downlight

PHYSICAL

Shape: Round
 Diameter (mm): 75
 Diameter (in): 2 15/16
 Height (mm): 75
 Height (in): 2 15/16
 Ceiling Thickness (mm): 10 / 12 / 15
 Ceiling Thickness (in): 3/8 or 1/2 or 9/16
 Min. Recessing Depth (mm): 85
 Min. Recessing Depth (in): 3 3/8
 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
 Cut-out Measurements: D. 86mm / 3 3/8"
 Upon Request: Unique Sizes Unique Ceiling Thickness

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 11
 Total Output Wattage (W): 10
 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 - 120Vac
 Driver Class: Class 2
 Housing: See components
 Input Voltage (V): 120 - 277
 Constant Current (MA): 500

LED

Number of LEDs: 1
 Color Temperature (°K): 2700 / 3000 / 3500 / 4000
 Max. Delivered Lumen (lm): 821 / 860 / 892 / 911
 Nominal Lumen (lm): 1141 / 1194 / 1238 / 1266
 CRI: >90 CRI
 Lamp Life (hrs): 50000

OPTICAL

Reflector°: 22 / 38 / 48
 Adjustability: Rotational 350° / Tilt 25°
 Upon Request: Special Beam Angles

RATINGS AND CERTIFICATIONS

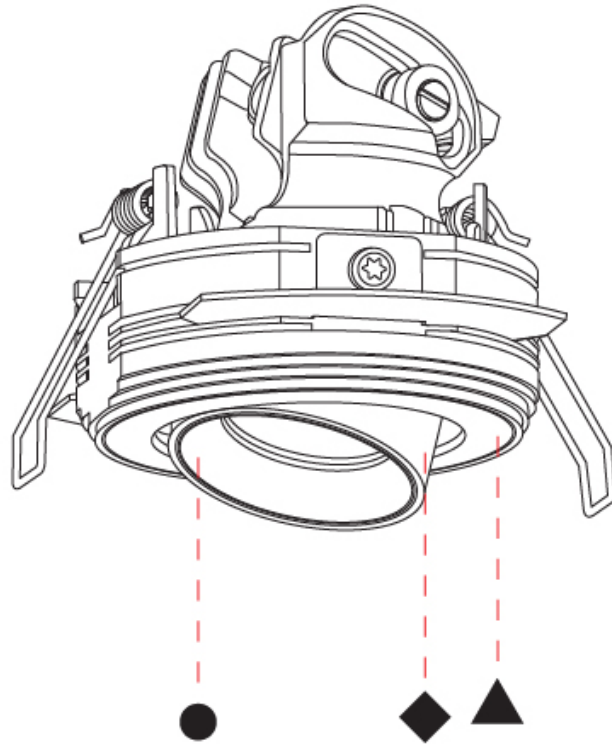
Certified By: Certified for North American Standards
 IP rating: IP40



INVADER COMPACT ADJUSTABLE TRIMLESS

A35846-

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



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INVADER COMPACT ADJUSTABLE TRIMLESS

A35847-

base number Finishes (Diamond) Finishes (Triangle) Finishes (Circle) Ceiling Thickness Reflector 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: Invader Compact
 Subseries: Invader Compact Adjustable
 Brand: Prolicht
 Division: Architectural
 Mounting Type: Trimless
 Mounting Location: Ceiling
 Subcategory: Downlight

PHYSICAL

Shape: Round
 Diameter (mm): 75
 Diameter (in): 2 15/16
 Height (mm): 75
 Height (in): 2 15/16
 Ceiling Thickness (mm): 10 / 12 / 15
 Ceiling Thickness (in): 3/8 or 1/2 or 9/16
 Min. Recessing Depth (mm): 85
 Min. Recessing Depth (in): 3 3/8
 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
 Cut-out Measurements: D. 86mm / 3 3/8"

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 11
 Total Output Wattage (W): 10
 Dimming: Dali Dimming
 Driver Included: No
 Driver Location: Recessed Housing
 Driver Type: Constant Current - 120Vac
 Housing: See Components
 Input Voltage (V): 120
 Constant Current (MA): 250

LED

Number of LEDs: 1
 Color Temperature (°K): Warm Dim
 Max. Delivered Lumen (lm): 862
 Nominal Lumen (lm): 1004
 CRI: >90 CRI
 Lamp Life (hrs): 50000

OPTICAL

Reflector°: 24 / 40 / 54
 Adjustability: Rotational 350° / Tilt 25°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP40



INVADER COMPACT ADJUSTABLE TRIMLESS

A35847-

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



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INVADER COMPACT COLOR FINISH CHART

PROJECT
TYPE
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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)



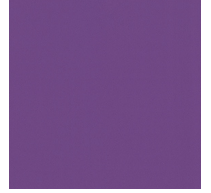
Mysterious Gray - 13 (MYG)



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)



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

 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)