INVADER STANDARD RECESSED

A35601-

| base number | Color Temperature | Finishes (Diamond) | Finishes (Triangle) | Reflector Options | |
|-------------|----------------------|-----------------------|------------------------|----------------------|--|
| | | | | | |

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

2. 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

| GENERAL | |
|---|-------|
| Series: Invader Standard | |
| Brand: Prolicht | |
| Division: Architectural | |
| Mounting Type: Recessed | |
| Mounting Location: Ceiling | |
| Subcategory: Downlight | |
| PHYSICAL | |
| Shape: Round | |
| Diameter (mm): 109 | |
| Diameter (in): 4 ⁵ / ₁₆ | |
| Height (mm): 105 | |
| Height (in): 4 ¹ / ₈ | |
| Min. Recessing Depth (mm): 120 | |
| Min. Recessing Depth (in): 4 ³ / ₄ | |
| Light Distribution: Adjustable / Direct | |
| Weight (kg): 0.434 | |
| Weight (lbs): 0.96 | |
| Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / S MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR | |
| Fixture Material: Aluminum | |
| Cut-out Measurements: 104mm / 4 1/8' | |
| ELECTRICAL | |
| Lamp Type: LED (Zhaga Standard) | |
| Input Wattage (W): 14.3 | |
| Total Output Wattage (W): 13 | |
| Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac o and 0-10V Dimming) | only) |
| Driver Included: No | |
| Driver Location: Recessed Housing | |
| Driver Type: Constant Current - Universal | |
| | |

Housing: See components

Input Voltage (V): 120 - 277

Constant Current (MA): 350

LED

| Number of LEDs: 1 | |
|---|--|
| Color Temperature (°K): 2700 / 3000 / 3500 / 4000 | |
| Max. Delivered Lumen (lm): 890 / 920 / 970 / 990 | |
| Nominal Lumen (lm): 1304 / 1352 / 1421 / 1450 | |
| CRI: >90 CRI | |
| Lamp Life (hrs): 50000 | |
| | |

OPTICAL

Reflector°: 20 / 40 / 60

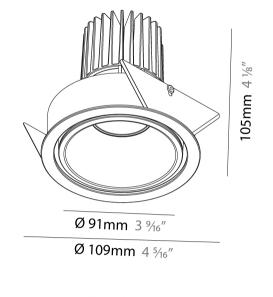
Adjustability: Rotational 180°; Tilt 30°

RATINGS AND CERTIFICATIONS

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

| PROJECT | | | |
|-----------|--|--|--|
| TYPE | | | |
| SPECIFIER | | | |
| QUANTITY | | | |
| DATE | | | |







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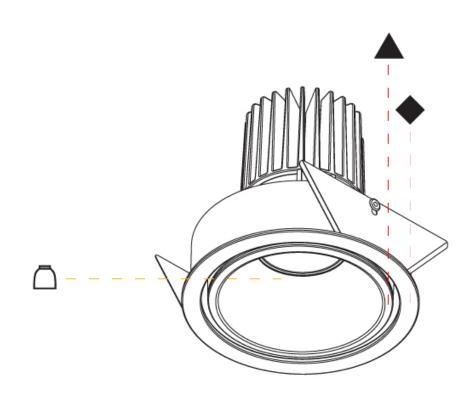
Available for International specifications by adding 'INT' at the end of the existing Model #. For assistance on 'custom' specifications, contact zteam@zaneen.com.

INVADER STANDARD RECESSED

A35601-

PROJECT

| PROJECT | |
|-----------|--|
| ТҮРЕ | |
| SPECIFIER | |
| QUANTITY | |
| DATE | |



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INVADER STANDARD RECESSED

A35602-

Finishes Reflector base number Color Temperature (Diamond) Options

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

2. 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 Standard |
|---|
| Subseries: Invader Standard |
| Brand: Prolicht |
| Division: Architectural |
| Mounting Type: Recessed |
| Mounting Location: Ceiling |
| Subcategory: Downlight |
| PHYSICAL |
| Shape: Round |
| Diameter (mm): 85 |
| Diameter (in): 3 ³ / ₈ |
| Height (mm): 105 |
| Height (in): $4\frac{1}{8}$ |
| Ceiling Thickness (mm): 5 - 30 |
| Min. Recessing Depth (mm): 110 |
| Min. Recessing Depth (in): 4 ⁵ / ₁₆ |
| Light Distribution: Downlight |
| Weight (kg): 0.322 |
| Weight (lbs): 0.71 |
| Fixture 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 / OBR / MOS / ROR |
| Fixture Material: Aluminum |
| Cut-out Measurements: Dia: 80mm 3 1/8" |
| ELECTRICAL |
| Lamp Type: LED (Zhaga Standard) |
| Input Wattage (W): 14.3 |
| Total Output Wattage (W): 13 |
| 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 |
| Housing: See components |
| Input Voltage (V): 120 - 277 |
| |

Constant Current (MA): 350

LED

| Number of LEDs: 1 | |
|------------------------------|----------------------|
| Color Temperature (°K): 2700 | / 3000 / 3500 / 4000 |

| Max. Delivered Lumen (lm): 870 / 910 / 951 / 970 | |
|--|--|
| Nominal Lumen (lm): 1304 / 1352 / 1421 / 1450 | |
| CRI: >90 CRI | |

Lamp Life (hrs): 50000

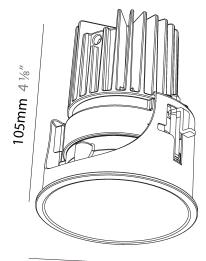
OPTICAL

Reflector°: 20 / 40 / 60

RATINGS AND CERTIFICATIONS

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





Ø 85mm 3 3/8"





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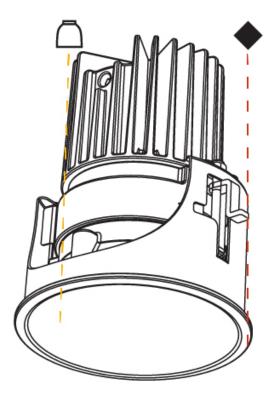
Available for International specifications by adding 'INT' at the end of the existing Model #. For assistance on 'custom' specifications, contact zteam@zaneen.com.

INVADER STANDARD RECESSED

A35602-

PROJECT

| PROJECT | | |
|-----------|--|--|
| ТҮРЕ | | |
| SPECIFIER | | |
| QUANTITY | | |
| DATE | | |
| | | |



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INVADER STANDARD RECESSED

A35603-

| base number | Color | Finishes | Reflector |
|-------------|-------------|-----------|-----------|
| | Temperature | (Diamond) | Options |

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

2. 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 Standard |
|--|
| Brand: Prolicht |
| Division: Architectural |
| Mounting Type: Recessed |
| Mounting Location: Ceiling |
| Subcategory: Downlight |
| PHYSICAL |
| Shape: Round |
| Diameter (mm): 85 |
| Diameter (in): 3 ¾ |
| Height (mm): 87 |
| Height (in): $3\frac{7}{16}$ |
| Ceiling Thickness (mm): 10 / 12.5 / 15 |
| Ceiling Thickness (in): 3/8 or 1/2 or 9/16 |
| Min. Recessing Depth (mm): 90 |
| Light Distribution: Downlight |
| Weight (kg): 0.233 |
| Weight (lbs): 0.51 |
| Fixture Material: Aluminum Die Cast |
| Cut-out Measurements: Dia: 80mm 3 1/8" |
| ELECTRICAL |
| Lamp Type: LED (Zhaga Standard) |
| Input Wattage (W): 9.9 |
| 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 - Universal |
| Housing: See components |
| Input Voltage (V): 120 - 277 |
| Constant Current (MA): 250 |
| LED |
| Number of LEDs: 1 |
| Color Temperature (°K): 2700 / 3000 / 3500 / 4000 |
| Max. Delivered Lumen (lm): 650 / 680 / 715 /730 |
| Nominal Lumen (lm): 960 / 995 / 1046 / 1067 |

| Max. Delivered Lumen (im): 650 / 680 / 715 / 7. | 30 |
|---|----|
| Nominal Lumen (lm): 960 / 995 / 1046 / 1067 | |
| CRI: >90 CRI | |
| Lamp Life (hrs): 50000 | |
| | |

OPTICAL

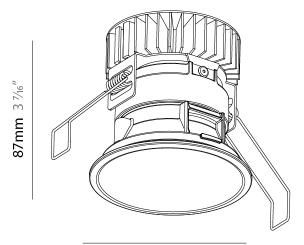
Reflector°: 20 / 40 / 60

RATINGS AND CERTIFICATIONS

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

| PROJECT |
|-----------|
| ТҮРЕ |
| SPECIFIER |
| QUANTITY |
| DATE |
| |





Ø 85mm 3 3/8"

90mm А



80mm

3 1/8'

Page 5/12

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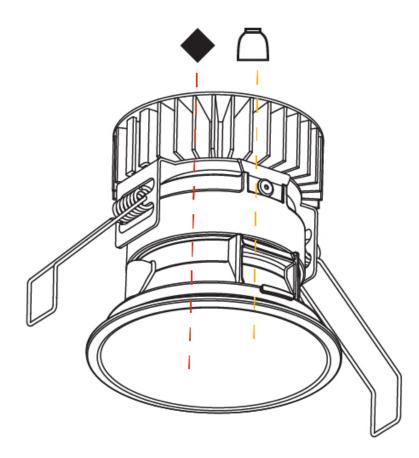
Available for International specifications by adding 'INT' at the end of the existing Model #. For assistance on 'custom' specifications, contact zteam@zaneen.com.

INVADER STANDARD RECESSED

A35603-

PROJECT

| PROJECT | | | |
|-----------|--|--|--|
| TYPE | | | |
| SPECIFIER | | | |
| QUANTITY | | | |
| DATE | | | |
| | | | |



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INVADER STANDARD RECESSED

A37959-

| A37959 | • | - | - |
|-------------|-------------|-----------|-----------|
| base number | Color | Finishes | Reflector |
| | Temperature | (Diamond) | Options |

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

2. 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 Standard Brand: Prolicht Division: Architectural Mounting Type: Recessed Mounting Location: Ceiling Subcategory: Downlight PHYSICAL Shape: Round Diameter (mm): 45 Diameter (in): 1 ³ / ₄ Height (mm): 71 Height (mn): 7 ¹¹ Height (in): 2 ¹³ / ₁₆ Ceiling Thickness (mm): 10 / 12.5 / 15 Ceiling Thickness (mm): 10 / 12.5 / 15 Ceiling Thickness (inm): 10 / 12.5 / 15 Weight (lbs): 0.23 Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 15/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | | |
|---|--|---------|
| Division: Architectural Mounting Type: Recessed Mounting Location: Ceiling Subcategory: Downlight PHYSICAL Shape: Round Diameter (nm): 45 Diameter (in): $1^{3}/_{4}$ Height (nm): 71 Height (nm): 71 Height (in): $2^{13}/_{16}$ Ceiling Thickness (nm): 10 / 12.5 / 15 Ceiling Thickness (nm): 10 / 12.5 / 15 Ceiling Thickness (in): 3/8 or 1/2 or 9/16 Min. Recessing Depth (nm): 150 Min. Recessing Depth (in): 5 7_{6} Light Distribution: Downlight Weight (kg): 0.102 Weight (kg): 0.102 Weight (lbs): 0.23 Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 15/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Series: Invader Standard | |
| Mounting Type: Recessed Mounting Location: Ceiling Subcategory: Downlight PHYSICAL Shape: Round Diameter (mm): 45 Diameter (in): $1\frac{3}{4}$ Height (mm): 71 Height (in): $2\frac{13}{16}$ Ceiling Thickness (mm): $10/12.5/15$ Ceiling Thickness (in): $3/8$ or $1/2$ or $9/16$ Min. Recessing Depth (mm): 150 Min. Recessing Depth (in): $5\frac{7}{6}$ Light Distribution: Downlight Weight (kg): 0.102 Weight (kg): 0.102 Weight (lbs): 0.23 Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: $41mm / 15/8^{"}$ ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Brand: Prolicht | |
| Mounting Location: CeilingSubcategory: DownlightPHYSICALShape: RoundDiameter (mm): 45Diameter (in): $1\frac{3}{4}$ Height (mm): 71Height (in): $2\frac{13}{16}$ Ceiling Thickness (mm): $10/12.5/15$ Ceiling Thickness (in): $3/8$ or $1/2$ or $9/16$ Min. Recessing Depth (mm): 150 Min. Recessing Depth (in): $5\frac{7}{6}$ Light Distribution: DownlightWeight (kg): 0.102 Weight (kg): 0.102 Weight (kg): 0.102 Weight (lbs): 0.23 Fixture 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 / OBR / MOS / RORFixture Material: AluminumCut-out Measurements: Dia: $41mm / 15/8"$ ELECTRICALLamp Type: LED (Zhaga Standard)Input Wattage (W): 7.7Total Output Wattage (W): 7Dimming: Non-DimmableDriver Included: NoDriver Class: Class 2Input Voltage (V): 120 - 277Constant Current (MA): 250Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Division: Architectural | |
| Subcategory: DownlightPHYSICALShape: RoundDiameter (mm): 45Diameter (in): $1\frac{3}{4}$ Height (mm): 71Height (in): $2\frac{13}{46}$ Ceiling Thickness (mm): $10/12.5/15$ Ceiling Thickness (in): $3/8$ or $1/2$ or $9/16$ Min. Recessing Depth (mm): 150Min. Recessing Depth (in): $5\frac{7}{8}$ Light Distribution: DownlightWeight (kg): 0.102Weight (lbs): 0.23Fixture 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 / OBR / MOS / RORFixture Material: AluminumCut-out Measurements: Dia: 41mm / 15/8"ELECTRICALLamp Type: LED (Zhaga Standard)Input Wattage (W): 7.7Total Output Wattage (W): 7Dimming: Non-DimmableDriver Included: NoDriver Location: RemoteDriver Class: Class 2Input Voltage (V): 120 - 277Constant Current (MA): 250Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Mounting Type: Recessed | |
| PHYSICALShape: RoundDiameter (mm): 45Diameter (in): $1\frac{3}{4}$ Height (mm): 71Height (in): $2\frac{13}{46}$ Ceiling Thickness (mm): $10/12.5/15$ Ceiling Thickness (in): $3/8$ or $1/2$ or $9/16$ Min. Recessing Depth (mm): 150 Min. Recessing Depth (in): $5\frac{7}{8}$ Light Distribution: DownlightWeight (kg): 0.102 Weight (lbs): 0.23 Fixture 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 / OBR / MOS / RORFixture Material: AluminumCut-out Measurements: Dia: $41mm / 15/8"$ ELECTRICALLamp Type: LED (Zhaga Standard)Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-DimmableDriver Included: NoDriver Location: RemoteDriver Type: Constant Current - $120 / 277Vac$ Driver Class: Class 2Input Voltage (V): $120 - 277$ Constant Current (MA): 250Upon Request: $0-10Vdc$ dimming / Phase dimming $120Vac$ | Mounting Location: Ceiling | |
| Shape: RoundDiameter (mm): 45Diameter (in): $1\frac{3}{4}$ Height (mm): 71Height (in): $2\frac{13}{46}$ Ceiling Thickness (mm): $10/12.5/15$ Ceiling Thickness (in): $3/8$ or $1/2$ or $9/16$ Min. Recessing Depth (mm): 150 Min. Recessing Depth (in): $5\frac{3}{6}$ Light Distribution: DownlightWeight (kg): 0.102 Weight (kg): 0.23 Fixture 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 / OBR / MOS / RORFixture Material: AluminumCut-out Measurements: Dia: $41mm / 15/8"$ ELECTRICALLamp Type: LED (Zhaga Standard)Input Wattage (W): 7.7Total Output Wattage (W): 7Dimming: Non-DimmableDriver Included: NoDriver Location: RemoteDriver Type: Constant Current - $120 / 277Vac$ Driver Class: Class 2Input Voltage (V): $120 - 277$ Constant Current (MA): 250Upon Request: 0-10Vdc dimming / Phase dimming $120Vac$ | Subcategory: Downlight | |
| Diameter (mm): 45 Diameter (in): $1\frac{3}{4}$ Height (mm): 71 Height (in): $2\frac{13}{4_6}$ Ceiling Thickness (mm): 10 / 12.5 / 15 Ceiling Thickness (in): 3/8 or 1/2 or 9/16 Min. Recessing Depth (mm): 150 Min. Recessing Depth (in): $5\frac{7}{6}$ Light Distribution: Downlight Weight (kg): 0.102 Weight (kg): 0.102 Weight (kg): 0.23 Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 15/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | PHYSICAL | |
| Diameter (in): $1\frac{3}{4}$ Height (in): $2\frac{13}{4_{6}}$ Ceiling Thickness (mm): $10/12.5/15$ Ceiling Thickness (in): $3/8$ or $1/2$ or $9/16$ Min. Recessing Depth (mm): 150 Min. Recessing Depth (in): $5\frac{7}{6}$ Light Distribution: Downlight Weight (kg): 0.102 Weight (kg): 0.23 Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: $41mm / 15/8"$ ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Shape: Round | |
| Height (mm): 71Height (in): 2 $^{13}/_{16}$ Ceiling Thickness (mm): 10 / 12.5 / 15Ceiling Thickness (in): 3/8 or 1/2 or 9/16Min. Recessing Depth (mm): 150Min. Recessing Depth (in): 5 $\frac{7}{6}$ Light Distribution: DownlightWeight (kg): 0.102Weight (kg): 0.102Weight (lbs): 0.23Fixture 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 / OBR / MOS / RORFixture Material: AluminumCut-out Measurements: Dia: 41mm / 15/8"ELECTRICALLamp Type: LED (Zhaga Standard)Input Wattage (W): 7.7Total Output Wattage (W): 7Dimming: Non-DimmableDriver Included: NoDriver Location: RemoteDriver Type: Constant Current - 120 / 277VacDriver Class: Class 2Input Voltage (V): 120 - 277Constant Current (MA): 250Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Diameter (mm): 45 | |
| Height (in): 2^{13}_{16} Geiling Thickness (mm): $10 / 12.5 / 15$ Geiling Thickness (in): $3/8$ or $1/2$ or $9/16$ Min. Recessing Depth (in): $5\sqrt[7]_8$ Light Distribution: DownlightWeight (kg): 0.102Weight (kg): 0.102Weight (kg): 0.102Weight (lbs): 0.23Fixture 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 / OBR / MOS / RORFixture Material: AluminumCut-out Measurements: Dia: $41mm / 15/8"$ ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: NoDriver Type: Constant Current - $120 / 277Vac$ Driver Type: Constant Current - $120 / 277Vac$ Driver Tupe: Constant Current - $120 / 277Vac$ Driver Included: NoDriver Class: Class 2Input Voltage (V): $120 - 277$ Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming $120Vac$ | Diameter (in): 1 ³ / ₄ | |
| Ceiling Thickness (mm): 10 / 12.5 / 15 Ceiling Thickness (in): 3/8 or 1/2 or 9/16 Min. Recessing Depth (mm): 150 Min. Recessing Depth (in): 5 ⁷ / ₈ Light Distribution: Downlight Weight (kg): 0.102 Weight (kg): 0.23 Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 15/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Height (mm): 71 | |
| Ceiling Thickness (in): $3/8$ or $1/2$ or $9/16$ Min. Recessing Depth (im): 150 Min. Recessing Depth (in): $5\frac{7}{8}$ Light Distribution: Downlight Weight (kg): 0.102 Weight (kg): 0.102 Weight (lbs): 0.23 Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: $41mm / 15/8"$ ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - $120 / 277Vac$ Driver Class: Class 2 Input Voltage (V): $120 - 277$ Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming $120Vac$ | Height (in): $2^{13}/_{16}$ | |
| Ceiling Thickness (in): 3/8 or 1/2 or 9/16 Min. Recessing Depth (im): 150 Min. Recessing Depth (in): 5 $\frac{7}{s}$ Light Distribution: Downlight Weight (kg): 0.102 Weight (kg): 0.102 Weight (lbs): 0.23 Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 15/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Ceiling Thickness (mm): 10 / 12.5 / 15 | |
| Min. Recessing Depth (in): 5 % Light Distribution: Downlight Weight (kg): 0.102 Weight (lbs): 0.23 Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 15/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | | |
| Light Distribution: Downlight Weight (kg): 0.102 Weight (lbs): 0.23 Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 1 5/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Min. Recessing Depth (mm): 150 | |
| Weight (kg): 0.102 Weight (lbs): 0.23 Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 1 5/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Min. Recessing Depth (in): 5 $\frac{7}{8}$ | |
| Weight (lbs): 0.23 Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 1 5/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Light Distribution: Downlight | |
| Fixture 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 / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 15/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Weight (kg): 0.102 | |
| MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 15/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Location: Remote Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Weight (lbs): 0.23 | |
| MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / RÓR Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 15/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | | |
| Fixture Material: Aluminum Cut-out Measurements: Dia: 41mm / 15/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | | / SPG / |
| Cut-out Measurements: Dia: 41mm / 15/8" ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | | |
| ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | | |
| Lamp Type: LED (Zhaga Standard) Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Cut-out Measurements: Dia: 41mm / 15/8" | |
| Input Wattage (W): 7.7 Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | ELECTRICAL | |
| Total Output Wattage (W): 7 Dimming: Non-Dimmable Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Lamp Type: LED (Zhaga Standard) | |
| Dimming: Non-Dimmable Driver Included: No Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Input Wattage (W): 7.7 | |
| Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Total Output Wattage (W): 7 | |
| Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Dimming: Non-Dimmable | |
| Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Driver Included: No | |
| Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Driver Location: Remote | |
| Input Voltage (V): 120 - 277 Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Driver Type: Constant Current - 120 / 277Vac | |
| Constant Current (MA): 250 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Driver Class: Class 2 | |
| Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | Input Voltage (V): 120 - 277 | |
| | Constant Current (MA): 250 | |
| | Upon Request: 0-10Vdc dimming / Phase dimming 120Vac | |
| LED | LED | |

LED

| Number of LEDs: 1 |
|---|
| Color Temperature (°K): 2700 / 3000 / 3500 / 4000 |
| Max. Delivered Lumen (lm): 630 / 650 / 686 / 700 |
| Nominal Lumen (lm): 731 / 762 / 801 / 817 |

| CRI: >90 CRI |
|------------------------|
| Lamp Life (hrs): 50000 |

OPTICAL

Reflector°: 33 / 47 / 65

RATINGS AND CERTIFICATIONS

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

| DATE | | | |
|-----------|--|--|--|
| QUANTITY | | | |
| SPECIFIER | | | |
| ТҮРЕ | | | |
| PROJECT | | | |





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Available for International specifications by adding 'INT' at the end of the existing Model #. For assistance on 'custom' specifications, contact zteam@zaneen.com.

In a constant effort to supply the best product, we reserve the right to change specifications or materials without notice. The most recent specification sheets are found at zaneen.com

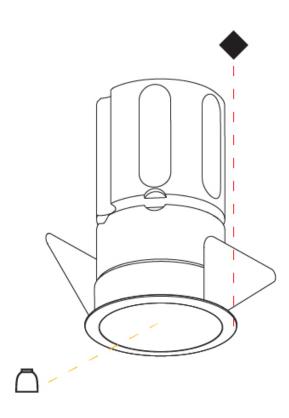
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INVADER STANDARD RECESSED

A37959-

PROJECT

| PROJECT | | | |
|-----------|--|--|--|
| ТҮРЕ | | | |
| SPECIFIER | | | |
| QUANTITY | | | |
| DATE | | | |
| | | | |





INVADER ADJUSTABLE RECESSED

A37962-

| base number | Color | Finishes | Finishes | Reflector |
|-------------|-------------|-----------|------------|-----------|
| | Temperature | (Diamond) | (Triangle) | Options |
| | Temperature | (Diamond) | (Triangle) | Options |

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

2. 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 Standard |
|---|
| Subseries: Invader Adjustable |
| Brand: Prolicht |
| Division: Architectural |
| Mounting Type: Recessed |
| Mounting Location: Ceiling |
| Subcategory: Downlight |
| PHYSICAL |
| Shape: Round |
| Diameter (mm): 62 |
| Diameter (in): $2\frac{7}{16}$ |
| Height (mm): 74 |
| Height (in): $2\frac{15}{1_{16}}$ |
| Min. Recessing Depth (mm): 150 |
| Min. Recessing Depth (in): 5 $\frac{7}{8}$ |
| Light Distribution: Adjustable / Direct |
| Weight (kg): 0.138 |
| Weight (lbs): 0.304 |
| Fixture 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 / OBR / MOS / ROR |
| Fixture Material: Aluminum |
| Cut-out Measurements: 57mm / 2 1/4" |
| ELECTRICAL |
| Lamp Type: LED (Zhaga Standard) |
| Input Wattage (W): 7.7 |
| Total Output Wattage (W): 7 |
| Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) |

| anc | 0-10V Dimmi | ng) |
|------|----------------|-----|
| Driv | er Included: N | ١o |

Driver Location: Remote

| Driver Type: Constant Current - 120 / 277Vac | |
|--|--|
| | Driver Type: Constant Current - 120 / 277Vac |

Input Voltage (V): 120 - 277

Constant Current (MA): 250

LED

Number of LEDs: 1

Color Temperature (°K): 2700 / 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 660 / 690 / 725 / 740

CRI: >90 CRI

Lamp Life (hrs): 50000

OPTICAL

| Reflector°: 33 / | 47 / 65 |
|------------------|---------|
| | |

Adjustability: Rotational 180°; Tilt 30°

RATINGS AND CERTIFICATIONS

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

| PROJECT | | | |
|-----------|--|--|--|
| TYPE | | | |
| SPECIFIER | | | |
| QUANTITY | | | |
| DATE | | | |





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Available for International specifications by adding 'INT' at the end of the existing Model #. For assistance on 'custom' specifications, contact zteam@zaneen.com.

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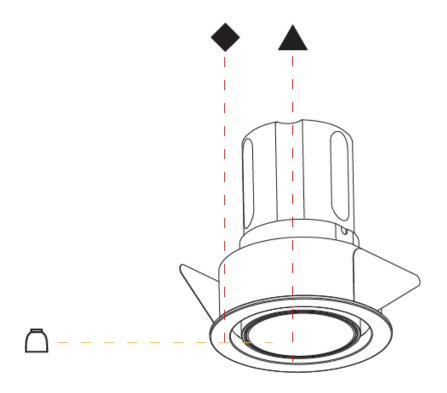
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INVADER ADJUSTABLE RECESSED

A37962-

PROJECT

| PROJECT | | | |
|-----------|--|--|--|
| TYPE | | | |
| SPECIFIER | | | |
| QUANTITY | | | |
| DATE | | | |





INVADER STANDARD

COLOR FINISH CHART

Fixture Finish

PROJECT

| PROJECT | | | |
|-----------|---|--|--|
| ТҮРЕ | | | |
| SPECIFIER | | | |
| QUANTITY | | | |
| DATE | | | |
| | - | | |

| 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) | 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 betwee **Physical:** When texture is involved, there will be variations in color, character and tone within a pro

and between product families.

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



INVADER STANDARD

PROJECT

TROJEC

TYPE SPECIFIER

QUANTITY

DATE

LEGEND

| | | _ | | | |
|-----------------------|--|--------------------------------|--|----------------|--|
| ⊥ | floor-mounted | ¥ | pivotable | \circledast | special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+ |
| $\overline{}$ | wall and ceiling: recessed and surface mounted | C | rotating | 0 | warm dim / natural dimming LED |
| \uparrow | ceiling-mounted and wall-mounted | ¥ | illuminate tilted | Ø | rechargeable battery powered |
| \rightarrow | wall-mounted | T | color of suspension cable | | fixture with natural vivid LED (upon request) |
| Y | omni-directional light distribution | → | length of suspension cable | CRI | color rendering index |
| À | direct light distribution | Δ | reflector degree selection | €К | color temperature |
| | direct/indirect light distribution | s s | super spot | LM | lumen (luminous flux) |
| $\mathbf{\mathbf{x}}$ | indirect light distribution | Å | lens | ₩. | efficacy (lumens per watt) |
| | asymmetric light distribution | 8 | lens pack | UGR | Unified Glare Rating (UGR) range from 5-40 |
| | aura light distribution | 0 | shine ring | 318 | marine grade (AISI 316 stainless steel) |
| R | round wall or ceiling cut-out | \odot | integrated shine ring with diffuser | ٢ | walk on |
| 5 | square wall or ceiling cut-out | Ċ | free individual colors 01-29 | ۲ | drive on |
| d d | the supplied jig specifies the cutout dimensions | U). | individual colors: 00 (free of charge), 01-25 (extra charge) | OSC | |
| (++) M+ | minimum distance (meters) lamp - object | ۲ | luminaire part to be colored (F1) | Ġ | 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 |
| 1 | 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) | (ه) | acoustic material |
| | dimmable DP (phase), DV (0-10V), DD (dali), DS (step-dim) | | luminaire part to be colored (F5) | | protection class I, protection insulation |
| 6 | included or excluded LED driver/transformer/ control gear | | color of 3-circuit adaptor | | protection class II, protection insulation |
| Y | separately switchable | \odot | indirect diffuser | | ETL Certified to UL and CSA Standards |
| シリ | sensor | D | direct diffuser | c (UL) us | UL Certified to UL and CSA Standards |
| (.)» | remote control | $\boldsymbol{\textcircled{O}}$ | ball-proof (upon request) | S . | CSA Certified to UL and CSA Standards |
| 2 | available upon request | 0 | accessory | (\mathbf{Z}) | 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 |
| 1965 | 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 |
| 1967 | 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

| КО1 | 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) |
| КОЗ | 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) |
| КО5 | protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface) |
| КОб | 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) |
| КОВ | protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface) |
| 1609 | 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) |