



D3 Adjustable, Square

PRODUCT DESCRIPTION

Ketra full spectrum 3 in (76.2 mm) recessed LED downlights are available in fixed, adjustable, and wall-wash options to complete any lighting design project.

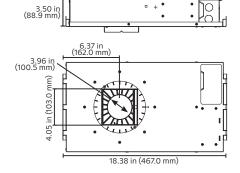
FEATURES

High Def Palette—covers a wide range of 16.7 million colors, including pastels, saturated colors and high CRI whites spanning from 1,400K to 10,000K.

Dynamic Spectrum—precisely tunes the amount of energy across the visible spectrum to produce Natural Light, Natural Dimming and Vibrancy.

TruBeam—produces uniform color across any available beam angle.

Color Lock—maintains your desired color point at a one-step MacAdam Ellipse across all Ketra product families and over each product's lifetime.



OPTIONS Flanged





Bevel Flangeless Mud-in





Bevel

Pinhole

Pinhole

Flangeless Millwork





Shallow

Shallow Pinhole

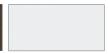
Colors











White

Black

Silver

Bronze

Paintable White





SPECIFICATIONS¹

| Optical Performance | | | | | Mechanical | | |
|--|----------|-------------------------------------|---------------------|--------------------------------|---|--|---|
| Delivered Lumen Output ² | | | | | Mounting Options | Hanger Bars/ B | utterfly Brackets |
| Beam Angle (1 in [25.4 mm] recess) | 9 W 1 | 3 W 18 | 3 W | Pinhole Im multiplier | Field Replaceable Optics Field Replaceable Light Engine | Yes | |
| 15° beam, low glare | 650 lm 8 | 882 lm 10 | 092 lm | 0.57 | Field Replaceable Power | Yes | |
| 25° beam, low glare | 623 lm 8 | 345 lm 10 | 046 lm | 0.48 | Supply | | |
| 40° beam, low glare | 569 lm 7 | 72 lm 9 | 55 lm | 0.61 | Additional Optic Lens | 2.5 in (63.5 mm |) lens, 1/8 in (3.18 mm) thick |
| 60° beam, low glare | 561 lm 7 | 60 lm 9 | 41 lm | 0.60 | Additional Trim Lens | 2.75 in (69.85 m | nm) lens, ¼ in (3.18 mm) thic |
| 15° beam, high output | 682 lm 9 | 28 lm 11 | 148 lm | 0.62 | Fixture Weight | 7.75 lb (3.51 kg) | |
| 25° beam, high output | 678 lm 9 | 23 lm 11 | 142 lm | 0.48 | Housing Material | Powder Coated | l Steel, Polymer |
| 40° beam, high output | 646 lm 8 | 378 lm 10 | 087 lm | 0.54 | Lens Material | Glass | |
| 60° beam, high output | 630 lm 8 | 357 lm 10 | 061 lm | 0.55 | Dimensions | | |
| CRI (Ra) | >90 (R9 | >90) | | | | 4 in (101.6 mm) | flanged: |
| Lumen Maintenance ³ | 50,000 h | ours to L | 70 @ 2! | 5 °C T _A | Ceiling Square Cut-out | 5.5 in (139.70 m | nm) flangeless mud-in; flangeless millwork |
| Color Point Range ⁴ | | 10,000K, d, & Paste | | | Trim Outside Dimension | 4.63 in (117.6 m 3.75 in (95.2 mr | |
| Dimming Range ⁴ | 0.1-100% | o | | | Trim Inside Dimension | Flanged: | 2.84 in (72.14 mm) Bevel 1.97 in (50 mm) Pinhole |
| Delivered Efficacy Beam Angle (1 in [25.4 mm] | 9 W | 13 W | | 18 W | | Flangeless: | 2.76 in (70.1 mm) Bevel 1.97 in (50 mm) Pinhole |
| recess) | | | | | Optics Outside Dimension | 2.5 in (63.5 mm |) |
| 15° beam, low glare | 72 lm/W | 68 In | n/W | 61 m/W | Trim Depth | 1 in (25.4 mm) | |
| 25° beam, low glare | 69 lm/W | 65 lm | n/W | 58 lm/W | Ceiling Thickness (min-max) | | eless mud-in: 0.625 – 1.5 in |
| 40° beam, low glare | 63 lm/W | 59 lm | n/W | 53 lm/W | | (15.8 - 38.1 mm) Flangeless mill |) work collar: 0.625 - 2.5 in |
| 60° beam, low glare | 62 lm/W | 58 lm | n/W | 52 lm/W | | (15.8 - 63.5 mm |) |
| 15° beam, high output | 76 lm/W | 71 lm | /W | 63 lm/W | Modular Emitter/LED Module | 0.75 in (19 mm) | |
| 25° beam, high output | 75 lm/W | 71 lm | /W | 62 lm/W | (tool-free) | 4.75 : (4.4.5 |) |
| 40° beam, high output | 72 lm/W | 68 In | n/W | 59 lm/W | Housing Vertical Adjustment via Butterfly Bracket | 1.75 in (44.5 mm | 11) |
| 60° beam, high output | 70 lm/W | 66 In | n/W | 58 lm/W | Adjustability | Tilt to 40° | |
| Surge Protection | 2.5 KV | | | | | Full 364° Rotati | ion |
| Environmental | | | | | Housing Height | 3.50 in (88.9 m | m) |
| Ambient Temperature (T,) | 0 - 4 | 0 006 | | _ | Housing Length | 18.38 in (466.8 | mm) |
| · A | | 80 °C | | | Housing Width | 10 in (254 mm) | |
| Storage Temperature | | 80 C 5%, Non- | | | Electrical | | |
| Humidity Certification | UL, c | UL, 120 V | ~: FCC | | Power Consumption | D3.09 9 W D3.13 13 W | |
| Location | UL Da | amp Loca ver) availa | ition, U able wi | L Wet Location th Trim Lens | Power Factor | D3.18 18 W >0.9 | |
| Exterior/Interior | | | | for residential | Inrush Current⁵ | 800 mA, 0.2 mS | S duration |
| Extended Ambient Temperature | | cations w · 0 °C ^{6, 7} | ith Trin | n Lens | Voltage | 120 V∼ 60 Hz 277 V∼ 60 Hz | |
| | | | | | Emergency Lighting | lighting systems standard UL ₀ 92 No. 141 when pa | Lo for use in emergency in accordance with 4 and CSA C22.2 lired with the LVS™ model LULo file E206507)8. |

All performance measurements taken with 1 in (25.4 mm) white trim, with light engine at nadir and 1 in (25.4 mm) regress, at 3000 K, 25 °C ambient, 100% power input, default vibrancy, unless otherwise stated.

Lumen measurement complies with IES LM-79-08 testing procedures.

Lumen maintenance values calculated in accordance to TM-21 procedures based on LM-80 compliant measurement data.

Intensity and color point control requires compatible system.

For more information on inrush current, refer to Ketra's Inrush App Note in the Support section of our website.

Rated for direct application of spray foam with less than R-21 insulative value or 3 in (76.2 mm) of closed cell spray foam. 95 °F (35 °C) maximum ambient temperature.

Color accuracy not guaranteed in Extended Ambient Temperature range.

See Lutron A 10 (M-8.2 mm) with 10 (16.2 mm) of closed cell spray foam. 95 °F (35 °C) maximum ambient temperature.

All products in the D3 family are Title 24 JA8 compliant. For more information please contact customer service at ketrasales@lutron.com or 844.588.6445.

Trim





ORDERING GUIDE

Housing

Please download this PDF to use the interactive drop down features of the ordering guide.

| Housing | | | | | | Irim | | |
|---|---------------------|----------------------|--|---|---------|-----------------------------|--------------------------|-----------|
| Product Line | Fixture / Trim | Power Consumption | Control System | | | Product Line | | |
| Beam Angle | Region / Voltage | Housing Type | Optic Accessory | Shipping Option | | Model | Trim Finish | Trim Lens |
| Order code | : | | | | | Order code: | | |
| Product Line | | Code | Beam An | gle (cont.) | Code | Product Line | | Code |
| Commercial | | CM- | Spot (15°) | High Output | 15H | Universal | | UN- |
| (Athena compa | rtible) | | Flood (25 | s°) High Output | 25H | Model | | Code |
| Residential (HomeWorks co | ampatible) | HW- | Wide Flo | od (40°) High Output | 40H | Flanged Trim ^{1,2} | | Code |
| | этрапые) | | , | e Flood (60°) | 60H | D3 Square Adj | ustable Bevel | D3TFSQ1 |
| Fixture / Trim | C | II.2 D24D60 | High Out | put | | | ustable Pinhole | D3TFSPA |
| - | Square Flanged | | Region/\ | /oltage | | Flangeless Mu | | |
| D3 Adjustable, Flangeless ^{3,4,9} | Square | D3ADSM | 120 V∼ | 60 Hz, North America | 11 | D3 Square Adj | ustable Bevel | D3TXSQ1 |
| D3 Adjustable, | Collar Adapter | D3ADXX | 277 V∼ | 60 Hz, North America | 12 | D3 Square Adj | ustable Pinhole | D3TXSPA |
| Not Specified ⁸ | Cona. / taapioi | 20/12/01 | Housing | Type ¹⁰ | | Flangeless Mil | work Trim ^{3,4} | |
| Power Consum | nption | | New Con | struction, IC/Airtight | NCIC | D3 Square Adj | ustable Bevel | D3TMSQ1 |
| 9 W | | 09 | New Con | struction, IC/Airtight, | NCIM | D3 Square Adj | ustable Pinhole | D3TMSPA |
| 13 W | | 13 | Flangeles | ss Millwork Trim ³ | | Trim Finish | | |
| 18 W | | 18 | | struction, IC/Airtight, nclosed/Covered Porch ^{5,6} | NCOC | White | | PWH |
| | | | | • | NCOM | Black | | PBK |
| Control Systen | | | New Construction, IC/Airtight, Exterior Enclosed/Covered Porch, | | NCOM | Silver | | PSR |
| CCX (Clear Con | inect-Type X) | GT | Flangeles | ss Millwork Trim ^{5,6} | | Bronze | | PBZ |
| Beam Angle | | | Optic Ac | cessory ⁷ (See diagram or | n p. 3) | Paintable Whit | re | CWH |
| Spot (15°) Low | Glare | 15L | None | | N | /- | | |
| Flood (25°) Low | v Glare | 25L | Solite Le | าร | S | | e diagram on p. 3 | - |
| Wide Flood (40 |)°) Low Glare | 40L | Frosted L | ens | F | None | | N |
| Very Wide Floo | d (60°) Low Gla | re 60L | Hex Louv | rer | н | Solite Lens | | S |
| | | | Shipping | Option | | Frosted Lens | | F |
| | | | | ships with Butterfly & 24 in Hanger Bars to be | SP | | | |

D3 Adjustable, Square flanged fixture (D3ADSQ) can only be used with flanged trims (D3TFS--) and is compatible with NCIC/NCOC housing type, but is incompatible with NCIM/NCOM.

² Use flanged trims (D3TFS--) on wood and stone ceilings with thickness in the range of 0.625 in - 1.5 in (15.8 mm - 38.1 mm) with NCIC/NCOC housing type.

³ D3 Adjustable, Square flangeless fixture (D3ADSM) can be used with a flangeless mud-in trim (D3TXS--) with NCIC/NCOC housing type, or with a flangeless millwork trim (D3TMS--) with NCIM/NCOM housing type.

⁴ Use the flangeless millwork trims (D3TMS--) on wood and stone ceilings with thickness in the range of 0.625 in - 2.5 in (15.8 mm - 63.5 mm) with NCIM/NCOM housing type.

⁵ D3s are available for residential exterior applications only and must have a trim installed with a lens.

⁶ D3s installed outdoors must use housing type NCOC or NCOM.

Downlight is wet location rated when trim is installed with lens.

B Ceiling installation cannot begin until the collar adapter is installed (see the Component Ordering Guide for details).

⁹ Millwork Trim Retainer supplied with Millwork Trim to ensure color match.

¹⁰ Rough-in housings with no electronics are available with a shorter lead time. For more information please contact customer service at 844.588.6445.





Code

UN-D3

TLPINS

TLPINF

OAS

OAF

OAH

COMPONENT ORDERING GUIDE

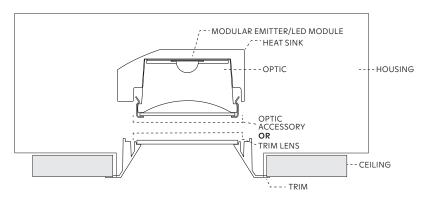
Replacement Optics Optics Accessories Product Accessory Beam Angle Product Accessory Line Type Line Order code: Order code: **Product Line** Code **Product Line** Universal Part - Recessed UN-D3 Universal Part - Recessed Downlight Downlight Accessory^{1,2,3} **Accessory Type** Optic OP Trim Lens, Square Bevel, Solite **TLSQFS** Flanged Trims Only **Beam Angle** Trim Lens, Square Bevel, Frost **TLSQFF** Spot (15°) Low Glare 15L Flanged Trims Only Flood (25°) Low Glare 25L Trim Lens, Square Mud-in, Solite **TLSQXS** Mud-in Trims Only Wide Flood (40°) Low Glare 40L Trim Lens, Square Mud-in, Frost **TLSQXF** Very Wide Flood (60°) Low Glare 60L Mud-in Trims Only Spot (15°) High Output 15H Trim Lens, Pinhole, Solite Flood (25°) High Output 25H Trim Lens, Pinhole, Frost Wide Flood (40°) High Output 40H Optic Accessory Solite Very Wide Flood (60°) High Output 60H Optic Accessory Frost

Mounting & Installation Kits

| Product | Accessory | Collar |
|-----------|-----------|----------|
| Line | | Adapters |
| | | • |
| Order cod | e: | |

| Product Line | Code |
|--|-------|
| Universal Part - Recessed Downlight | UN-D3 |
| Accessory | |
| (2) Butterfly brackets | MA B |
| (2) 24 in (609 mm) Hanger bars | MA N |
| Collar Adapters ⁴ | |
| Collar Adapter, Square Flanged | CTFS |
| Collar Adapter, Square Flangeless Mud-in ⁵ | CTXS |
| Collar Adapter, Square Flangeless Millwork ⁶ | CTMS |
| | |

COMPONENT DIAGRAM



Optic Accessory Hex Louver

Downlight is wet location rated when trim is installed with lens. Only one optional optical or trim accessory can be used at a time.

Downlights with outdoor housings require a trim installed with lens.

Ceiling installation cannot begin until collar adapter is installed. Mud-In Trim Retainer supplied with Mud-In Collar Adapter.

Millwork Trim Retainer supplied with Millwork Trim to ensure color match.





COMPONENT ORDERING GUIDE (cont.)

| Rough-in Housing Order code: | | Modular Emitter/ Power Supply LED Module | | | |
|---------------------------------|-----------|--|--------------|----------------------------|---------------|
| | | Order code: | | Order code: | Order code: |
| Rough-in Housing | Code | Modular Emitter/LED Module | Code | Power Supply | Code |
| Housing, No Collar | UN-D3ADXX | Standard (25°, 40°, 60°) | UN-D3MEMTRST | Comm 9 W CCX 120 V∼ | CM-D3PS09GT11 |
| Housing, Flanged Square Collar | UN-D3ADFS | Modular Emitter/LED Module | | Comm 9 W CCX 277 V∼ | CM-D3PS09GT12 |
| Housing, Mud-In Square Collar | UN-D3ADXS | Spot (15°) Modular Emitter/ | UN-D3MEMTRSP | Comm 13 W CCX 120 V \sim | CM-D3PS13GT11 |
| Housing, Millwork Square Collar | UN-D3ADMS | LED Module | | Comm 13 W CCX 277 V∼ | CM-D3PS13GT12 |
| | | | | Comm 18 W CCX 120 V∼ | CM-D3PS18GT11 |
| | | | | Comm 13 W CCX 277 V∼ | CM-D3PS18GT12 |
| | | | | Resi 9 W CCX 120 V∼ | HW-D3PS09GT11 |
| | | | | Resi 9 W CCX 277 V∼ | HW-D3PS09GT12 |
| | | | | Resi 13 W CCX 120 V∼ | HW-D3PS13GT11 |
| | | | | Resi 13 W CCX 277 V∼ | HW-D3PS13GT12 |
| | | | | Resi 18 W CCX 120 V \sim | HW-D3PS18GT11 |
| | | | | Resi 13 W CCX 277 V∼ | HW-D3PS18GT12 |

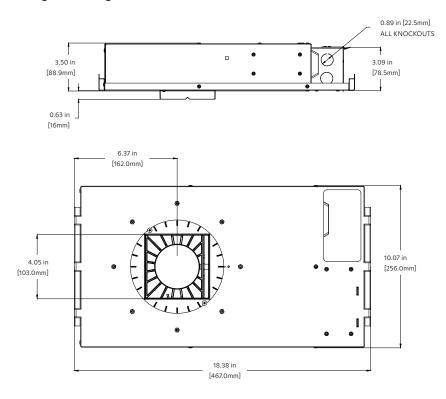
NOTE: See the Trim Ordering Guide for trim options and the Replacement Optic Section for optic options.



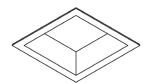


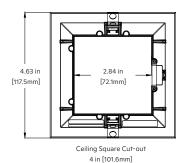
PRODUCT DIMENSIONS

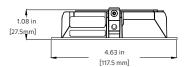
Flanged Housing



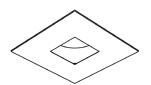
Flanged Bevel Trim

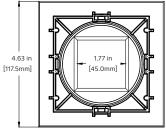




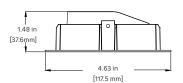


Flanged Adjustable Pinhole Trim





Ceiling Square Cut-out 4 in [101.6mm]

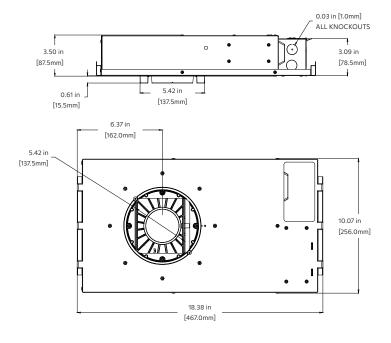




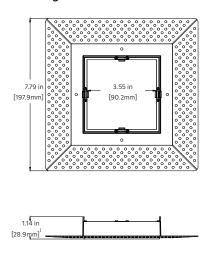


PRODUCT DIMENSIONS

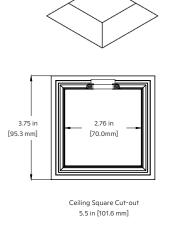
Flangeless Mud-in Housing

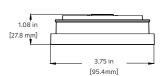


Flangeless Mud-in Trim Retainer

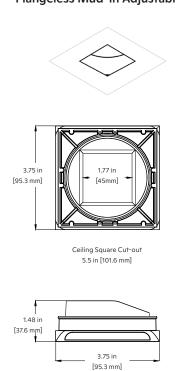


Flangeless Mud-in Bevel Trim





Flangeless Mud-in Adjustable Pinhole Trim

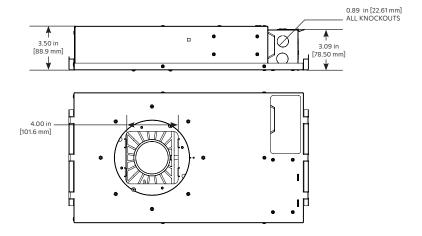




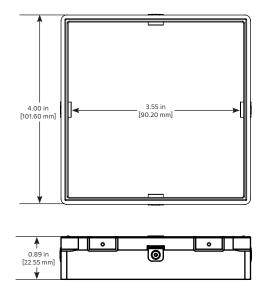


PRODUCT DIMENSIONS

Flangeless Millwork Housing



Flangeless Millwork Trim Retainer



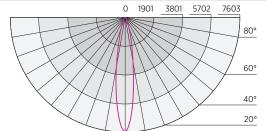




PHOTOMETRIC DATA1: 2700 - 5000 K VALUES ONLY, DELIVERED LUMENS

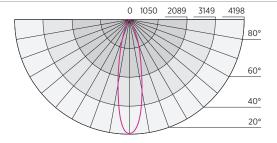
Beam Angle: 15° Spot, Low Glare

| Product Code | Wattage | e Lumens | S CBCF |
|---------------|---------|------------|-----------|
| D3ADSQ18BT15L | 18 W | 1092 | 7603 |
| Foot-candles | | | Beam Dia. |
| 211 | | 6' | 1.58' |
| 119 | | 8' | 2.11' |
| 76 | | 10' | 2.63' |
| 53 | | 12' | 3.16' |
| 39 | | 14' | 3.69' |
| | | From Light | 3.03 |



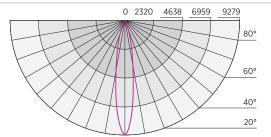
Beam Angle: 25° Spot, Low Glare

| Product Code | | Wattage | Lumens | СВСР |
|--------------|--------------|---------------|---------|-----------|
| D3ADS | Q18BT25L | 18 W | 1046 | 4198 |
| | Foot-candles | | | Beam Dia. |
| | 117 | 6' | | 2.66' |
| | 66 | 8' | | 3.55' |
| | 42 | 10' | | 4.43' |
| | 29 | 12' | | 5.32' |
| | 21 | 14' | | 6.21' |
| | | Distance From | n Light | |



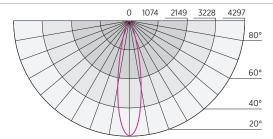
Beam Angle: 15° Spot, High Output

| Produc | t Code | Watta | ge | Lumens | СВСР | |
|--------|--------------|--------|--------------|--------|-----------|--|
| D3ADS | Q18BT15H | 18 W | | 1148 | 9279 | |
| | Foot-candles | | | | Beam Dia. | |
| | 258 | | 6' | | 1.58' | |
| | 145 | | 8' | | 2.11' | |
| | 93 | | 10' | | 2.63' | |
| | 64 | | 12' | | 3.16' | |
| | 47 | | 14' | | 3.69' | |
| | | Distar | nce From Lie | aht | | |



Beam Angle: 25° Spot, High Output

| Produc | t Code | Wattage | Lumens | CBCP |
|--------|--------------|-----------------|--------|-----------|
| D3ADS | Q18BT25H | 18 W | 1142 | 4297 |
| | Foot-candles | | | Beam Dia. |
| | 119 | 6' | | 2.66' |
| | 67 | 8' | | 3.55' |
| | 43 | 10' | | 4.43' |
| | 30 | 12' | | 5.32' |
| | 22 | 14' | | 6.21′ |
| | | Distance From L | ight | |



All performance measurements taken with 1 in (25.4 mm) white trim, with light engine at nadir and 1 in (25.4 mm) regress, at 3000 K, 25 °C ambient, 100% power input, default vibrancy, unless otherwise stated.

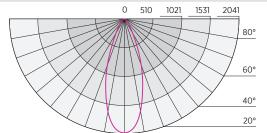




PHOTOMETRIC DATA1: 2700 - 5000 K VALUES ONLY, DELIVERED LUMENS

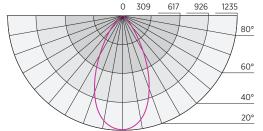
Beam Angle: 40° Wide Flood, Low Glare

| Product Code | Wattage | Lumens | CBCP |
|--------------|----------------------|--------|----------|
| D3ADSQ18BT4 | IOL 18 W | 955 | 2041 |
| Foot-car | ndles | В | eam Dia. |
| _ 57 | 6' | | 4.37' |
| _ 32 | 8' | | 5.82' |
| 20 | 10' | | 7.28' |
| 14 | 12' | | 8.74' |
| | | | |
| 10 | 14' Distance Fron | | 10.19' |



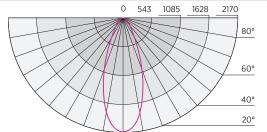
Beam Angle: 60° Very Wide Flood, Low Glare

| Product C | ode | Wattage | Lumens | CBCP |
|-----------|------------|---------------|---------|-----------|
| D3ADSQ18 | BT60L | 18 W | 941 | 1235 |
| Fo | ot-candles | |) | Beam Dia. |
| 34 | | 6' | | 6.93' |
| 19 | | 8' | | 9.24' |
| 12 | | 10' | | 11.55' |
| 9 | | 12' | | 13.86' |
| 6 | | 14' | | |
| | | Distance Fron | n Light | 16.17' |



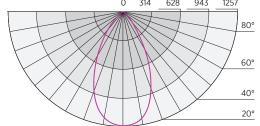
Beam Angle: 40° Wide Flood, High Output

| Product Code | Wattage | Lumens | CBCP |
|---------------|---------------|--------|-----------|
| D3ADSQ18BT40H | 18 W | 1087 | 2170 |
| Foot-candles | | | Beam Dia. |
| 60 | 6' | | 4.37' |
| 34 | 8' | | 5.82' |
| _ 22 | 10' | | 7.28' |
| _ 15 | 12' | | 8.74' |
| 11 | 14' | | 10.19' |
| | Distance From | Light | |



Beam Angle: 60° Very Wide Flood, High Output

| Product Code | | Wattage | Lumens | СВСР |
|---------------|--------------|------------------|---------|-----------|
| D3ADSQ18BT60H | | 18 W | 1061 | 1257 |
| - | Foot-candles | | | Beam Dia. |
| | 35 | 6' | | 6.93' |
| | 20 | 8' | | 9.24' |
| | 13 | 10' | | 11.55' |
| | 9 | 12' | | 13.86' |
| - | 6 | 14' | | 16.17' |
| - | | Distance From Li | ght | |
| | | 0 3 | 314 628 | 943 1257 |



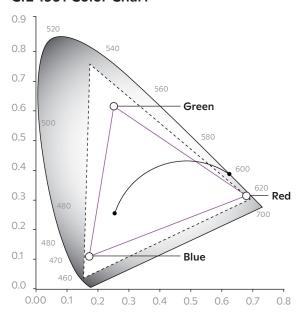
All performance measurements taken with 1 in (25.4 mm) white trim, with light engine at nadir and 1 in (25.4 mm) regress, at 3000 K, 25 °C ambient, 100% power input, default vibrancy, unless otherwise stated.





WIDE GAMUT

CIE 1931 Color Chart



Ketra's D3 LED Downlight can easily be commissioned into Lutron HomeWorks or Athena systems. The product can reproduce any color point with the triangle shaped gamut indicated in the chart to the left. With Ketra's Color Lock tool, the color point is maintained to an accuracy of one-step MacAdam Ellipse over the lifetime of the product and across operating temperature ranges.

- Color Lock—Color point is maintained to an accuracy of one-step MacAdam Ellipse over the lifetime of the product and across operating temperature range.
- ----- **Expanded Gamut**—Color calibration is relaxed such that each product produces the most saturated color it is capable of.

D3 General Specifications

Color Point Maintenance: Employ closed loop optical and thermal feedback capable of maintaining color point accuracy at a one-step MacAdam ellipse over product lifetime.¹

Wireless Capability: LED light source shall have an integrated wireless control on board.

Color Rendering Index (CRI): Capable of CRI greater than 90 at any point along the Black Body Curve from 2,700K to 5,000K.

Single Source Multi-Die Modular Emitter/LED Module Design: Employ a single source multi-die modular emitter/LED module consisting of both monochromatic and phosphor converted blue LED die.

LED Estimated Useful Life: Minimum of 50,000 hours at 70 percent lumen maintenance, calculated based on IES LM-80 test data.

Warranty: Ketra's light source is warrantied to be free from defects in material and workmanship for five (5) years or 25,000 hours from date of shipment, whichever is less.

Lighting System Capable of the Following Dimming Functionality:

- 1. Automatically mimicking natural daylight by shifting Correlated Color Temperature (CCT) and intensity based on time-of-day.
- 2. Shifting from high CCT at high intensity to low CCT at low intensity, mimicking dimming curve of an incandescent lamp.
- Changing intensity while maintaining full color spectrum or CCT.
- 4. Changing full color spectrum or CCT while maintaining intensity.

Spectral Power Distribution Manipulation: Light system capable of manipulating the Spectral Power Distribution (SPD) by automatically adjusting distributions of color intensity while maintaining the same Correlated Color Temperature (CCT).

Dimming Range: Dimmable from 100 to 0.1 percent measured luminous flux.

Color Point Range: Single light source capable of producing 16.7 million colors and white from 1,400K to 10,000K Correlated Color Temperature (CCT).

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¹ Color point maintenance not guaranteed while operating at ambient temperatures between -35 °C and 0 °C.