

Atomic Absorption Lamps

PerkinElmer has over 40 years of expertise designing and manufacturing lamps.

PerkinElmer offers a full range of single-element and multi-element hollow cathode lamps and high intensity electrodeless discharge lamps for those elements for which they are more effective. Every genuine PerkinElmer[®] lamp is designed for use with and tested on PerkinElmer spectrometers to assure compatibility and the highest performance.

Order your lamps with confidence from PerkinElmer.

Lumina Single-Element Hollow Cathode Lamps

PerkinElmer offers a wide range of single-element and multi-element HCLs, which are ideal for determining most elements by atomic absorption spectroscopy. To prolong the life of a Lumina Hollow Cathode Lamp (HCL), we produce lamps with larger internal volume so that a greater supply of fill gas at optimum pressure is available. The larger the lamp, the greater the inert gas volume — and the longer the lamp lifetime.

Electrodeless Discharge Lamps

Electrodeless Discharge Lamps for greater brightness (EDLs) are typically much brighter and, in some cases, provide better sensitivity than comparable HCLs. EDLs are preferred for certain volatile elements. They offer better precision and lower detection limits for analyses that are "noisy" due to weak hollow cathode emission.

PerkinElmer System 2 EDLs consist of the element, or a salt of the element, sealed in a quartz bulb containing an inert gas atmosphere. When an RF field of sufficient power is applied, the inert gas is ionized and the coupled energy vaporizes the element and excites the atoms inside the bulb, resulting in the emission of the characteristic spectrum. PerkinElmer's System 2 EDLs consist of two major components: a dual channel power supply with matched dual RF driver assemblies, which allows simultaneous, independent operation of two EDLs, and the interchangeable lamp sleeves. The lamp sleeve contains the pre-aligned bulb for the element of interest. The sleeve has the same exterior dimensions as the PerkinElmer HCLs, allowing System 2 EDLs to be used in the same lamp mounts and turrets.

Features and Benefits

- Experts: Expertise designing and manufacturing quality lamps for over 40 years. A brand you can trust.
- Compatibility: Lumina[™] hollow cathode lamps can be used with PerkinElmer's entire range of atomic absorption spectrometers. Atomax[™] lamps are compatible with other manufacturer's instruments.
- **Design:** Our design provides you with the low detection limits needed for your most difficult determinations.
- **Testing:** Lamps are thoroughly tested before leaving the factory.
- Raw Materials: Carefully selected materials used in the manufacturing of our lamps avoid spectral interference.
- Quality: Lamps are built to stringent specifications in a state-of-the-art lamp manufacturing facility. Great quality every time.



Every genuine PerkinElmer lamp is designed for use with and tested on PerkinElmer spectrometers to assure compatibility and the highest performance.

Hennet NameNymbolPart No.Part No.AluminonyAlN3050103N20253021AluminonyAsiN3050103N3050050N20253021ArsenicAsiN3050103N3050050N20253021BerliumBaN3050101N3050161N2025071BornuchBaN3050111N3050611N2025071BornuchBaN3050111N3050611N2025071CadminamCaN3050114N2025071N20253021CadminamCaN3050114N2025312N2025312CadminamCaN3050114N20253131N20253131ColadaCaN305012N20253132N20253132CadminamCaN305012N20253132N20253132ChomiumCaN305012N20253132N20253132ChadminamGaN305012N2025316N2025316CadobniumGaN305012N2025316N2025316CadobniumGaN305012N2025316N2025316GadobniumGaN305017N2025316N2025316GadobniumGaN305017N2025316N2025316GadobniumGaN305017N2025316N2025316GadobniumGaN305017N2025316N2025316GadobniumGaN305017N2025316N2025316GadobniumGaN305017N2025316N2025316GadobniumGaN305017N2025316N2025326IndiumGaN	Single-Element		Lumina 2"	EDL	Atomax 1.5"
AtamianySbN3050170N3050670N2025301AreniaAsN3050105N3050605N2025302BaruianBeN3050110N2025307BerylliumBiN3050111N3050611N2025307BioruthBiN3050111N3050611N2025307CadmianCdN3050116N2025307CadiruimCdN3050116N2025312CadmianCaN3050118N2025312ColumCrN3050121N2025312ColumCrN3050121N2025313ColumCrN3050121N2025313ColumGaN3050124N2025314DypprosimDyN3050124N2025314BinnyEaN3050134N2025314ColumianGaN3050136N2025315BinopianEaN3050138N2025314CadelnianGaN3050138N2025314GaltunGaN3050138N2025314GaldunIfN3050138N2025314HolmianHaN3050138N2025314HolmianIfN3050137N2025314HolmianIfN3050137N2025314HolmianIfN3050137N2025314HolmianIfN3050137N2025314HolmianIfN3050137N2025314HolmianIfN3050137N2025314HolmianIfN3050137N2025314HolmianIfN3050137N2025327Lindu		Symbol			
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BarlunBaN3050109N2025305BeryllunBeN3050110N2025306BismuthBiN3050111N3050611N2025307BoronBN3050114N2025307CalcinCdN3050115N3050615N2025309CalcinCaN3050116N2025312ChromiumCrN3050119N2025311ColalCoN3050121N2025312ChomiumCrN3050121N2025312ColalCoN3050121N2025314DypprosiumDyN3050124N2025316CalciumGdN3050124N2025316CalciumGdN3050124N2025316CalciumGdN3050124N2025316GalolniumGaN3050128N2025316GalolniumGaN3050128N2025317GalolniumGaN3050138N2025303HafniumHfN3050137N2025321HolmiumHeN3050137N2025321IndiumIaN3050137N2025325IronFeN305014N2025325IronIaN305014N2025321LuthumLN305014N2025321LuthumLN305014N2025321MagneteM3N305014N2025321LuthumLN305014N2025321MagnetimMaN305014N2025321MagnetimMaN305014N2025321NickelN305014N3050655N20253	Antimony	Sb	N3050170	N3050670	N2025347
PerpliamPeN3050110N2025301BismuthBiN3050111N2025011BoronGN3050108N2025301CadmiumCaN3050114N2025301CalciumCaN3050114N2025301CalciumCaN3050114N2025301ChorniumCaN3050118N2025310CohaltCaN3050124N2025311CohaltCaN3050124N2025311CopprinCuN3050124N2025316EnviumEuN3050124N2025316GadoliniumGaN3050124N2025316GadoliniumGaN3050124N2025316GadoliniumGaN3050124N2025316GaduliniumGaN3050124N2025316HafniamGaN3050134N2025316HafniamGaN3050134N2025316HafniamFeN3050134N2025316HafniamGaN3050134N2025317HafniamLaN3050134N2025317LandanIaN3050134N2025317LandanIaN3050134N2025317LandanIaN3050134N2025318HafniamLaN3050134N2025317LandanIaN3050134N2025317LandanIaN3050134N2025317LandanIaN3050134N2025318LandanIaN3050134N2025318LandanIaN3050134N2025318	Arsenic	As	N3050105	N3050605	N2025302
BismuthBiN305011N3050611N2023307BoronBN305015N2023307CadmiunCdN3050114N2023307CalciumCaN3050119N2023312ChromiumCaN305013N2023312ChomiumCaN305012N2023312CopperCuN305012N2023314DyporpsiumDyN305012N2023316EuroptumEnN305012N2023316GadolniumGdN305012N2023316GadolniumGdN305012N2023316GadolniumGdN305012N2023316GadolniumGdN305012N2023316GadolniumGaN305012N2023316GadolniumGaN305012N2023316GadolniumGaN305012N2023316GadolniumGaN305013N2023316IdiumGaN305013N2023316HafniumHeN305013N2023317IndiumInN305013N2023317IndiumInN305016N2023317IndiumInN305017N300657IauthanumLiN305014N202331IauthanumLiN305014N202331IauthanumLiN305014N202331IauthanumLiN305014N202332IauthanumLiN305014N202332IauthanumJiN305014N202332IauthanumJiN305014N202332	Barium	Ba	N3050109		N2025305
BroonBN3050108N2025304CadmiumCdN3050115N3050615N2025309CalciumCaN3050119N2025312ChromiumCrN305019N2025312ChromiumCrN3050118N2025311CobaltCoN305012N2025314CobaltCoN305012N2025314DypprosiumErN3050123N2025314EuropiumEuN3050124N2025316GadoliniumGaN3050128N2025318GardaniumGaN3050128N2025318GardaniumGaN3050130N305030GadoliniumGaN305017N2025314HafuimHfN3050135N2025313IndiumInN3050135N2025321IndiumInN3050135N2025321IndiumIrN3050137N2025321IndiumIrN3050137N2025321IndiumIrN3050137N2025321IndiumIrN3050137N2025327LathanumIaN305014N2025327IndiumIaN305014N2025329LathanumIaN305014N2025331MarganeseMnN3050151N2025331NickelNiN3050152N2025331NickelNiN3050154N2025331NickelNiN3050154N2025331NickelNiN3050154N2025331NickelNiN3050154N2025331 </td <td>Beryllium</td> <td>Be</td> <td>N3050110</td> <td></td> <td>N2025306</td>	Beryllium	Be	N3050110		N2025306
CadmiumCdN305011N3050615N2025309CalciumCaN305011N2025312ChromiumCrN305019N2025311CobaltCaN305012N2025311CopperCaN305012N2025313DypprosiumDyN305012N2025314EhriumEaN305012N2025314GallinimGaN305012N2025316GadalninmGaN305012N2025316GadalninmGaN305012N2025316GadalninmGaN305012N2025316GadalninmGaN305012N2025316GadalninmGaN305012N2025301GadalninmGaN305013N2025303HariumHaN305013N2025303HariumIfN305013N2025321IndiumInN305013N2025321IndiumIrN305013N2025321IndiumIrN305013N2025325IranhanuIrN305013N2025325IranhanuIrN305013N2025321LibiumIaN305014N2025321LibiumIaN305014N2025321IadimanIaN305015N2025324IadimanIaN305015N2025324IadimanIaN305015N2025334IadimanIaN305015N2025334IadimanIaN305015N2025334IadimanIaN305015N2025334Mag	Bismuth	Bi	N3050111	N3050611	N2025307
CalciumCaN305014N2023308CeisumCsN305019N202311ChonlumCrN3050119N202311CobaltCaN3050118N2023131CopperCuN3050121N202314DypprosiumDyN3050122N202314EbropiumEnN3050123N202316GadoliniumGaN3050124N202316GadoliniumGaN3050124N202316GadoliniumGaN3050124N202316GadoliniumGaN3050124N202316GadoliniumGaN3050124N202316GadoliniumGaN3050137N3050630HafniumHaN3050137N2023324HafniumHaN3050137N2023324IndumInN3050137N2023314IndumInN3050137N2023324IndumIaN3050137N2023324IndumIaN3050137N2023324IndumIaN3050137N3050657N2023324IndumIaN305014N2023324IndumIaN305014N2023324IndumIaN3050157N3050631N2023334MagneseMaN3050159N2023344NobilymeN3050159N3050634N2023344NobilymeN3050150N2023344N2023344NobilymeN3050150N2025344N2023344NobilymeN3050150N2025344N2023344NobilymeN3	Boron	В	N3050108		N2025304
CesiumCsN3050620N2025312ChromiumCrN3050119N2025311CobltCoN3050118N2025310CopperGuN3050121N2025313DyperosiumDyN3050123N2025314EkuropiumErN3050123N2025316GadolinkumGdN3050124N2025316GadolinkumGaN3050124N2025316GadolinkumGaN3050124N2025316GadolinkumGaN3050128N2025316GalliumGaN3050130N3050630N2025320GoldAuN3050130N3050630N2025321HafniamHfN3050137N2025321IndiumInN3050137N2025321IndiumInN3050137N2025321LathanumLaN305014N2025321LathanumLaN3050147N2025321LathanumLiN3050141N2025321MagnesiumMgN3050141N2025321MagnesiumNgN3050141N2025321MolybelenumNdN3050152N2025336NicklaN3050152N2025336NicklaN3050152N2025336NicklaN3050152N2025336NicklaN3050152N2025336NicklaN3050154N2025336NicklaN3050154N2025336NicklaN3050155N3050655PalladiumPalN3050158N3050655PalladiumPa <td< td=""><td>Cadmium</td><td>Cd</td><td>N3050115</td><td>N3050615</td><td>N2025309</td></td<>	Cadmium	Cd	N3050115	N3050615	N2025309
ChroniumCrN3050119N2025311CobaltCoN3050118N2025310CopperCaN3050121N2025313DysprosiumDyN3050122N2025316EdropiumEaN3050123N2025316GaldoniumGaN3050124N2025316GaldoniumGaN3050124N2025316GaldumGaN3050124N2025316GarmaniumGaN305013N305053N2025321GaldumAaN305013N2025321HolmunHfN3050137N2025321HolmunHfN3050137N2025321IndumFaN3050137N2025321IndumFaN3050137N2025321IndumFaN3050137N2025321IndumFaN3050137N2025321IndumFaN3050137N2025321IndumFaN3050137N2025321IndumFaN3050137N2025321IndumFaN3050137N2025321IndumFaN305014N2025321IndumGaN305014N2025321IndumGaN305014N2025321IndumFaN305014N2025321IndumMaN305014N2025321IndumMaN305014N2025321IndumMaN305014N2025321IndumMaN305014N2025321IndumMaN305015N2025321NabelN305014 <td>Calcium</td> <td>Ca</td> <td>N3050114</td> <td></td> <td>N2025308</td>	Calcium	Ca	N3050114		N2025308
CobaltCoN300118N2025310CopperCuN300124N2025313DypprosiumDyN300124N2025316EhropiumEuN300124N2025316GadoliniumCdN300124N2025316GadoliniumGaN300124N2025316GadoliniumGaN300128N2025316GadoliniumGaN300128N2025316GadoliniumGaN300128N2025316GadoliniumGaN300130N2025320GadoliniumGaN300137N2025321HafniumHaN3050137N2025321IndiumInN3050137N2025321IndiumInN3050137N2025321IndiumInN3050137N2025321IndiumInN3050137N2025321IndiumInN3050137N2025321IndiumInN3050137N2025321IndiumIaN3050147N2025321IndiumIaN305014N2025321IndiumIaN305014N2025321IndiumIgN305014N2025321IndiumIgN3050152N2025332IndiumIgN305014N2025321MagneseMaN3050152N2025332NickelN3050154N2025332NickelN3050152N2025332NickelN3050152N2025332IndiumIsN3050152IndiumIsN3050152Indium	Cesium	Cs		N3050620	N2025312
CopperCuN3050121N2025313DysprosiumDyN3050122N2025314ErbiumErN3050123N2025316GadoliniumGdN3050124N2025319GaldinumGaN3050128N2025319GalliumGaN3050128N2025319GaldinumGeN3050128N2025310GoldAuN305017N2025303HafniumHoN3050137N2025321HolmiumHoN3050137N2025323IndiumInN3050137N2025324IrdiumIrN3050142N2025327IrdiumLaN3050147N2025327IrdiumLiN3050142N2025327LanthanumLiN3050142N2025328LutetiumLiN3050144N2025324MagneseMaN3050145N2025331MargareseMaN3050146N2025332NockalN3050146N2025334NockalNdN3050157N3050634NacussiN3050146N2025334NickelNiN3050150N2025336NickelNiN3050150N2025336NickelNiN3050150N2025336NickelNiN3050151N2025336NickelNiN3050152N2025336NickelNiN3050154N2025336NickelNiN3050154N2025336NickelNiN3050155N3020655PaladiumPid	Chromium	Cr	N3050119		N2025311
Dy provide provide 1 Provide 1 Provide <b< td=""><td>Cobalt</td><td>Co</td><td>N3050118</td><td></td><td>N2025310</td></b<>	Cobalt	Co	N3050118		N2025310
FrimmFrN3050124N2025315EuropiumEuN3050124N2025316GadluinumGaN3050129N2025319GallumGaN3050128N2025301GernaniumGaN3050130N2025302GoldAuN3050130N2025303HafniumHfN3050133N2025323IndiumHaN3050137N2025324IndiumInN3050137N2025324IndiumFeN3050137N2025324IndiumFeN3050141N2025327LanthanumLaN3050141N2025326LithinnLaN3050141N2025326LithinnLaN3050141N2025326ManganeseMaN3050145N2025326ManganeseMaN3050146N2025326NickelNiaN3050150N2025326NickelNiaN3050150N2025336NickelNiaN3050150N2025336NickelNiaN3050156N2025336NickelNiaN3050156N2025336PianumPiN3050156N3050655PianumPiN3050156N2025346PinominPiN3050156N2025346PinominPiN3050156N2025346PinominPiN3050156N2025346PinominPiN3050156N2025346PinominPiN3050156N2025346PinominPiN3050156N2025346P	Copper	Cu	N3050121		N2025313
EuropiumEuN3050124N2025316GadoliniumGdN3050129N2025319GaliumGaN3050128N2025318GermaniumGeN3050130N3050630N2025320GoldAuN305017N2025303HafniumHfN3050137N2025323IndiumHoN3050137N2025323IndiumInN3050137N2025324IrdiumIrN3050138N2025325IronFeN3050141N2025326LadhanumLaN3050157N3050657N2025326LithiumLiN3050141N2025326LithiumLiN3050144N2025326MagnesiumMgN3050144N2025326ManganeseMaN3050145N2025336NedymiumNdN3050146N2025336NedymiumNdN3050146N2025336NickelNiN3050146N2025336NickelNiN3050157N3050634NabilingNiN3050146N2025336NickelNiN3050158N2025335NickelNiN3050158N2025336NickelNiN3050158N2025337PaladiumPiN3050158N3050655PhosphorusPiN3050158N3050655PhorphorusPiN3050158N3050655PharpinePiN3050158N3050655PharpinePiN3050159N2025342PhorphorusPi <td< td=""><td>Dysprosium</td><td>Dy</td><td>N3050122</td><td></td><td>N2025314</td></td<>	Dysprosium	Dy	N3050122		N2025314
I GadN3050129N2025319GalliumGaN3050128N2025318GernaniumGeN3050130N3050630N2025320GoldAuN3050137N2025303GalniumHfN3050133N2025324HolmiumHaN3050133N2025324IndiumIaN3050133N2025324IndiumIaN3050137N2025324IndiumIaN3050137N2025324IndiumFeN3050147N2025324IanthanumIaN3050147N2025324LadhanumIaN3050147N2025324IcthiumIaN3050142N2025324IdthumIaN3050142N2025324IdthumIaN3050145N2025336MagnesiumMaN3050145N2025334MolybdenumNaN3050145N2025336NobliumNaN3050152N2025336NickelNiN3050152N2025336NickelNiN3050145N2025336NickelNiN3050152N2025336PaladiumNiN3050152N2025336PhonponePaN3050153N3050655N2025336PholominPaN3050152N2025336PholominPaN3050152N2025336PholominPaN3050152N2025336PholominPaN3050152N2025336PholominPaN3050152N2025336PholominPaN3050152 <td< td=""><td>Erbium</td><td>Er</td><td>N3050123</td><td></td><td>N2025315</td></td<>	Erbium	Er	N3050123		N2025315
GalliumGaN3050128N2025318GernaniumGeN3050130N3050630N2025320GoldAuN305017N2025321HafniumHfN3050133N2025321HolmiumHoN3050135N2025323IndiumInN3050137N2025324IndiumFeN3050136N2025325IronFeN3050136N2025326IronFeN3050141N2025321LathanumLaN3050157N3050657N2025326IchiumLaN3050141N2025326IndiumLiN3050144N2025326MaganeseMgN3050144N2025326MolydenumMoN3050146N2025326MolydenumNaN3050146N2025326NodymiumNaN3050146N2025326NickelNiN3050150N2025326NickelNiN3050150N2025336NickelNiN3050152N2025336PalladiumNaN3050152N2025336PhosphorusPiN3050155N2025336PholophorusPiN3050152N2025336PholophorusPiN3050152N2025336PholophorusPiN3050152N2025336PholophorusPiN3050152N2025336PholophorusPiN3050152N2025342PholophorusPiN3050152N2025342PholophorusPiN3050152N2025342Pholophorus	Europium	Eu	N3050124		N2025316
Germanium Ge N3050130 N3050630 N202330 Gold Au N305017 N2025303 Hafnium Hf N3050133 N2025321 Holmium Ho N3050135 N2025323 Indium In N3050137 N2025324 Iridum In N3050137 N2025325 Iron Fe N305014 N2025327 Lanthanum La N3050147 N2025327 Lead Pb N3050157 N3050657 N2025339 Lithium Li N3050142 N2025326 Magnesium Mg N3050145 N2025339 Magnesium Mg N3050144 N2025332 Magnesium Mg N3050144 N2025332 Magnesium Mg N3050146 N2025332 Molybdenum Mo N3050150 N2025332 Nickel Ni N3050149 N2025334 Osimum Os N2025334 N2025334	Gadolinium	Gd	N3050129		N2025319
GoldAuN305017N202533HafniumHfN3050133N202532HolmiumHoN3050135N2025324IndiumInN3050137N2025324IrdiumIrN3050138N2025325IronFeN3050146N2025327LandhanumLaN3050147N2025327LeadN3050157N3050657N2025337LithiumLiN3050157N2025326LithiumLiN3050142N2025326MagnesiumLiN3050142N2025326MagnesiumMgN3050144N2025326MolybdenumMgN3050144N2025326NodybdenumMgN3050146N2025326NodybdenumNaN3050146N2025326NodybdenumNaN3050150N2025336NicklNiN3050150N2025336NicklNiN3050150N2025336NicklNiN3050159N2025336NicklNiN3050159N2025336NicklNiN3050159N2025336NicklNiN3050159N2025336NicklNiN3050159N2025336NicklNiN3050158N202536PaladiumPiN3050155N3050655PinghorusPiN3050152N202536PintiumFiN3050152N202536PintiumFiN3050154N202536PintiumFiN3050156N202536Pintium<	Gallium	Ga	N3050128		N2025318
HafniumHfN3050133N2025321HolmiumHoN3050135N2025324IndiumInN3050137N2025324IrdiumIrN3050138N2025325IronFeN3050126N2025327LanthanumLaN3050157N3050657N2025337LadPbN3050157N3050657N2025332LithiumLiN3050142N2025336MagnesiumKgN3050144N2025330MagneseMnN3050143N2025336NedymiumNgN3050144N2025336NedymiumMaN3050144N2025336NedymiumMaN3050145N2025336NedymiumMaN3050146N2025336NickelNaN3050150N2025336NickelNaN3050152N2025336NickelNaN3050152N2025336PalladiumPdN3050158N2025336PhosphorusPdN3050158N3050655PhosphorusPitN3050159N2025336PhosphorusPitN3050158N305055PhosphorusPitN3050159N3050555PhosphorusPitN3050159N2025336PhosphorusPitN3050159N2025336PhosphorusPitN3050159N2025336PhosphorusPitN3050159N3050555PhosphorusPitN3050159N202536PhosphorusPitN3050159N202536Ph	Germanium	Ge	N3050130	N3050630	N2025320
HolmiumHoN3050135N2025324IndiumInN3050137N2025324IridiumIrN3050138N2025325IronFeN3050126N2025327LanthanumLaN3050141N2025327LeadPbN3050157N3050657N2025339LithiumLiN3050142N2025328LutetiumLN2025329N2025330MagnesiumMgN3050144N2025330MagneseMnN3050144N2025331MolybdenumMoN3050144N2025332NeodymiumMoN3050144N2025332NeodymiumMoN3050144N2025332MolybdenumMoN3050144N2025332NeodymiumNdoN3050146N2025332NickelNiN3050152N2025334OsniumNdoN3050150N2025334PaladiumPdN3050158N2025334PhosphorusPdN3050158N2025334PlatinumPtN3050152N2025334PlatinumPtN3050152N2025334PlatinumPtN3050152N2025334PlatinumPtN3050152N2025334PlatinumPtN3050152N2025334PlatinumPtN3050152N2025334PlatinumPtN3050159N2025334PlatinumPtN3050159N2025334PlatinumPtN3050159N2025334PlatinumPtN30	Gold	Au	N3050107		N2025303
IndiumInN3050137N2025324IridiumIrN3050138N2025327IronFeN3050126N2025327LanthanumLaN3050157N3050657N2025327LaddPbN3050157N3050657N2025328LithiumLiN3050142N2025327MagnesiumMgN3050144N2025330MagneseMnN3050144N2025331MolybdenumMgN3050144N2025331MolybdenumMgN3050144N2025332NolybdenumMgN3050144N2025332MolybdenumMgN3050146N2025332NolybdenumMgN3050154N2025334OrdymiumNdN3050152N2025334OsiumOsN2025334N2025334PoladiumPdN3050155N3050655N2025334PhosphorusPiN3050155N3050655N2025334PlatinumRiN3050152N2025342PlatinumFiN3050152N2025342PlatinumFiN3050152N2025342PlatinumFiN3050152N2025342PlatinumFiN3050152N2025342PlatinumFiN3050152N2025342PlatinumFiN3050152N2025342PlatinumFiN3050152N2025342PlatinumFiN3050154N2025342PlatinumFiN3050154N2025342PlatinumFiN3050154N2	Hafnium	Hf	N3050133		N2025321
IridiumIrN3050138N2025327IronFeN3050141N2025327LanthanumLaN3050157N3050657N2025339IcadPbN3050157N3050657N2025328LithiumLiN3050142N2025328MagnesiumMgN3050144N2025330MagneseMgN3050144N2025331MercuryHgN3050144N2025332MolybdenumMoN3050144N2025332NolybdenumMaN3050144N2025332NolybdenumMaN3050144N2025332NolybdenumMaN3050144N2025332NickelNiN3050154N2025332NickelNiN3050150N2025334OsniumOsN2025337N2025337PalladiumPdN3050158N2025337PlalnumPtN3050152N2025338PlatinumFtN3050152N2025336PlatinumFtN3050152N2025342PraseodymiumFtN3050152N2025342PraseodymiumFtN3050152N2025342	Holmium	Но	N3050135		N2025323
IronFeN3050126N2025317LanthanumLaN3050141N2025327LeadPbN3050157N3050657N2025339LithiumLiN2025328N2025328LutetiumLN2025329N2025330MagnesiumMgN3050144N2025330ManganeseMnN3050145N2025331MercuryHgN3050144N2025322MolybdenumMoN3050146N2025332NeodymiumNdN3050150N2025335NickelNiN3050150N2025336OsmiumOsN202537N2025337PalladiumPdN3050158N2025336PhosphorusPN3050152N2025336PlatinumFtN3050152N2025336PlatinumPtN3050152N2025336PlatinumPtN3050152N2025336PlatinumPtN3050152N2025336PlatinumPtN3050152N2025336PlatinumPtN3050152N2025340PlatinumPtN3050152N2025342PraseodymiumPrN3050153N2025346PraseodymiumPrN3050159N2025346	Indium	In	N3050137		N2025324
LanthanumLaN3050141N2025327LeadPbN3050157N3050657N2025339LithiumLiN3050142N2025322LutetiumLN2025330N2025330MaganeseMgN3050144N2025331MercuryHgN3050144N2025332MolybdenumMoN3050146N2025332NeodymiumNdN3050150N2025335NickelNiN3050150N2025336NiobiumOsN3050149N2025336OsmiumOsN2025336N2025336PalladiumPdN3050158N2025336PlatinumPtN3050152N2025336PlatinumFtN3050159N3050655N2025336PlatinumFtN3050162N2025326PraseodymiumFtN3050161N2025326	Iridium	Ir	N3050138		N2025325
LeadPbN3050157N3050657N2025339LithiumLiN3050142N2025328LutetiumLN2025329N2025330MagnesiumMgN3050144N2025330MaganeseMnN3050145N2025331MercuryHgN3050144N2025322MolybdenumMoN3050146N2025332NeodymiumMolN3050150N2025336NickelNiN3050150N2025336NiobiumNbN3050149N2025336OsmiumOsN2025334N2025336PalladiumPdN3050155N3050655PlatinumPtN3050162N2025336PatsumKN3050139N2025326PraseodymiumPrN3050161N2025341	Iron	Fe	N3050126		N2025317
LithiumLiN3050142N2025328LutetiumLN2025329MagnesiumMgN3050144N2025330MaganeseMnN3050145N2025331MercuryHgN3050134N3050634N2025322MolybdenumMoN3050166N2025332NeodymiumNdN3050150N2025336NickelNiN3050152N2025336NiobiumOsN2025337N2025337PalladiumPdN3050158N3050655N2025336PaladiumPtN3050162N2025336PlatinumPtN3050139N2025336PraseodymiumFrN3050139N2025336	Lanthanum	La	N3050141		N2025327
LutetiumLN2025329MagnesiumMgN3050144N2025330MaganeseMnN3050145N2025331MercuryHgN3050134N3050634N2025322MolybdenumMoN3050146N2025332NeodymiumNdN3050150N2025335NickelNiN3050152N2025336NiobiumOsN2025337N2025337PalladiumPdN3050158N2025336PhosphorusPN3050155N3050655N2025338PlatinumPtN3050162N2025342PraseodymiumFrN3050139N2025342	Lead	РЬ	N3050157	N3050657	N2025339
MagnesiumMgN3050144N2025330ManganeseMnN3050145N2025331MercuryHgN3050134N3050634N2025322MolybdenumMoN3050146N2025332NeodymiumNdN3050150N2025336NickelNiN3050152N2025336NiobiumOsN2025337PalladiumOsN2025336PlathumPdN3050155N3050655PlathumPtN3050162N2025332PotassiumFtN3050162N2025326PraseodymiumFtN3050161N2025326	Lithium	Li	N3050142		N2025328
Manganese Mn N3050145 N2025331 Mercury Hg N3050134 N3050634 N2025322 Molybdenum Mo N3050146 N2025332 Neodymium Nd N3050150 N2025335 Nickel Ni N3050152 N2025336 Niobium Nb N3050149 N2025334 Osmium Os N2025337 Palladium Pd N3050158 N2025337 Phosphorus P N3050155 N2025336 Platinum Pt N3050162 N2025336 Praseodymium Pr N3050161 N2025334	Lutetium	L			N2025329
MercuryHgN3050134N3050634N2025322MolybdenumMoN3050146N2025335NeodymiumNdN3050150N2025336NickelNiN3050152N2025336NiobiumNbN3050149N2025336OsmiumOsN2025337PalladiumPdN3050158N2025336PhosphorusPdN3050155N3050655PlatinumPtN3050162N2025342PraseodymiumPrN3050139N2025342	Magnesium	Mg	N3050144		N2025330
Molybdenum Mo N3050146 N2025332 Neodymium Nd N3050150 N2025335 Nickel Ni N3050152 N2025336 Niobium Nb N3050149 N2025334 Osmium Os N2025337 N2025337 Palladium Pd N3050158 N2025340 Phosphorus P N3050155 N2025338 Platinum Pt N3050162 N2025342 Potassium Ka N3050139 N2025342 Praseodymium Pr N3050139 N2025326	Manganese	Mn	N3050145		N2025331
NeodymiumNdN3050150N2025335NickelNiN3050152N2025336NiobiumNbN3050149N2025337OsmiumOsN2025337PalladiumPdN3050155N3050655PhosphorusP1N3050155N3050655PlatinumPtN3050162N2025332PotassiumKN3050139N2025326PraseodymiumPrN3050161N2025341	Mercury	Hg	N3050134	N3050634	N2025322
NickelNiN3050152N2025336NiobiumNbN3050149N2025334OsmiumOsN2025337PalladiumPdN3050158N2025340PhosphorusPaN3050155N3050655N2025338PlatinumPtN3050162N2025342PotassiumKaN3050139N2025326PraseodymiumPrN3050161N2025341	Molybdenum	Мо	N3050146		N2025332
NiobiumNbN3050149N2025334OsmiumOsN2025337PalladiumPdN3050158N2025340PhosphorusPaN3050155N3050655N2025338PlatinumPtN3050162N2025326PotassiumKaN3050139N2025326PraseodymiumPrN3050161N2025341	Neodymium	Nd	N3050150		N2025335
OsmiumN2025337PalladiumPdN3050158N2025340PhosphorusPN3050155N3050655N2025338PlatinumPtN3050162N2025342PotassiumKN3050139N2025326PraseodymiumPrN3050161N2025341					
PalladiumPdN3050158N2025340PhosphorusPN3050155N3050655N2025338PlatinumPtN3050162N2025342PotassiumKN3050139N2025326PraseodymiumPrN3050161N2025341	Niobium	Nb	N3050149		N2025334
PhosphorusPN3050155N3050655N2025338PlatinumPtN3050162N2025342PotassiumKN3050139N2025326PraseodymiumPrN3050161N2025341	Osmium				N2025337
Platinum Pt N3050162 N2025342 Potassium K N3050139 N2025326 Praseodymium Pr N3050161 N2025341			N3050158		N2025340
Potassium K N3050139 N2025326 Praseodymium Pr N3050161 N2025341	Phosphorus	Р	N3050155	N3050655	N2025338
Praseodymium Pr N3050161 N2025341	Platinum	Pt	N3050162		N2025342
	Potassium	К	N3050139		N2025326
Rhenium Re N3050165 N2025344	Praseodymium	Pr	N3050161		N2025341
	Rhenium	Re	N3050165		N2025344

Single-Element, cont.		Lumina 2"	EDL	Atomax 1.5"
Element Name	Symbol	Part No.	Part No.	Part No.
Rhodium	Rh	N3050166		N2025345
Rubidium	Rb		N3050664	N2025343
Ruthenium	Ru	N3050168		N2025346
Samarium	Sm	N3050174		N2025351
Scandium	Sc	N3050171		N2025348
Selenium	Se	N3050172	N3050672	N2025349
Silicon	Si	N3050173		N2025350
Silver	Ag	N3050102		N2025300
Sodium	Na	N3050148		N2025333
Strontium	Sr	N3050176		N2025353
Tantalum	Ta	N3050177		N2025354
Tellurium	Te	N3050180	N3050680	N2025356
Terbium	Тb	N3050178		N2025355
Thallium	Tl	N3050183	N3050683	N2025359
Thorium	Th			N2025357
Thulium	Tm	N3050184		N2025360
Tin	Sn	N3050175	N3050675	N2025352
Titanium	Ti	N3050182		N2025358
Tungsten	W	N3050187		N2025362
Vanadium	V	N3050186		N2025361
Ytterbium	Yb	N3050190		N2025364
Yttrium	Y	N3050189		N2025363
Zinc	Zn	N3050191	N3050691	N2025365
Zirconium	Zr	N3050192		N2025366

Multi-Element

Element Name	Symbol	Part No.
Silver, Gold	Ag, Au	N3050201
Calcium, Magnesium	Ca, Mg	N3050202
Calcium, Zinc	Ca, Zn	N3050203
Potassium, Sodium	K, Na	N3050204
Platinum, Ruthenium	Pt, Ru	N3050205
Tin, Tellurium	Sn, Te	N3050206
Aluminum, Calcium, Magnesium	Al, Ca, Mg	N3050207
Calcium, Magnesium, Zinc	Ca, Mg, Zn	N3050208
Copper, Iron, Nickel	Cu, Fe, Ni	N3050209
Silver, Chromium, Copper, Nickel	Ag, Cr, Cu, Ni	N3050210
Aluminum, Copper, Iron, Titanium	Al, Cu, Fe, Ti	N3050211
Copper, Iron, Manganese, Zinc	Cu, Fe, Mn, Zn*	N3050212
Silver, Chromium, Copper, Iron, Nickel	Ag, Cr, Cu, Fe, Ni	N3050213
Cobalt, Chromium, Copper, Manganese, Nickel	Co, Cr, Cu, Mn, Ni	N3050214
Cobalt, Copper, Iron, Manganese, Molybdenum	Co, Cu, Fe, Mn, Mo	N3050215
Silver, Aluminum, Chromium, Copper, Iron, Magnesium	Ag, Al, Cr, Cu, Fe, Mg*	N3050216
Cobalt, Chromium, Copper, Iron, Manganese, Nickel	Co, Cr, Cu, Fe, Mn, Ni	N3050217
Aluminum, Calcium, Copper, Iron, Magnesium, Silicon, Zinc	Al, Ca, Cu, Fe, Mg, Si, Zn*	N3050218

*These multi-element lamps are produced with quartz windows.

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Lumina 2"

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