

**ENERGY STAR Ceiling Fan Product List**

List Posted on February 18, 2013

Below are currently qualified ENERGY STAR models available for sale in the U.S. and Canada.

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	Product Type	Ceiling Fan Size (Diameters in Inches)	Efficiency (CFM/Watt) - Low	Efficiency (CFM/Watt) - Medium	Efficiency (CFM/Watt) - High	Ceiling Fans Motor Warranty (Years)	Ceiling Fan Components Warranty (Years)	Lighting Technology Used	Total Input Power (Watts)	Luminaire Efficacy	Power Factor	Correlated Color Temperature (Kelvin)	Color Rendering Index (CRI)	Rated Life of Light Source (Hours)	Special Features (Dimming, Motion Sensing etc)	Date Available on Market	Date Qualified	Markets	ENERGY STAR Model Identifier
Air Cool Industrial Co., Ltd.	Air Cool Industrial Co., Ltd.	52LB-XX	52LB-XX		Ceiling Fan with Light Kit	52	214	124	82	30	1	Fluorescent						10000		4/10/2012	4/9/2012	United States, Canada	ES_1105 IR COOL INDUSTRIAL CO LTD (744507) 52LB-XX_0128 92057_06
Air Cool Industrial Co., Ltd.	Air Cool Industrial Co., Ltd.	A-552XX+3FDC	A-552XX+3FDC		Ceiling Fan with Light Kit	52	183	111	82	30	1	Fluorescent						10000		4/1/2012	3/29/2012	United States, Canada	ES_1105 IR COOL INDUSTRIAL CO LTD (744507) A-552XX+3FDC_013192117 345
Air Cool Industrial Co., Ltd.	Hampton Bay	52" Tri-Mount	YG269		Ceiling Fan with Light Kit	52	226	131	87	30	1	Fluorescent						10000		3/30/2012	3/24/2012	United States, Canada	ES_1105 IR COOL INDUSTRIAL CO LTD (744507) YG269_013192224 206
Air Cool Industrial Co., Ltd.	Hampton Bay	Larson	AL420		Ceiling Fan with Light Kit	52	199	125	83	30	1	Fluorescent						10020		3/15/2012	2/23/2012	United States, Canada	ES_1105 IR COOL INDUSTRIAL CO LTD (744507) AL420_013192158 572
Air Cool Industrial Co., Ltd.	Hampton Bay	WINFIELD	AG804		Ceiling Fan with Light Kit	54	461	327	180	30	1	Fluorescent						10000		3/30/2012	3/24/2012	United States, Canada	ES_1105 IR COOL INDUSTRIAL CO LTD (744507) AG804_013192134 746
Hunter Fan Company	Hunter	Westhaven	59531		Ceiling Fan with Light Kit	54	203	137	77	Lifetime	1	Fluorescent						10000		2/1/2013	2/14/2013	United States	ES_1020 9531_021 145855_3 4
Kichler Lighting	Kichler Lighting	Arkwright Fan	CP141050XX (AL583KCL) PC Blade - CP137512		Ceiling Fan with Light Kit	58	499	352	229	30	1	Fluorescent						10000		12/7/2012	11/1/2012	United States, Canada	ES_1105 IR COOL INDUSTRIAL CO (744507) CP14105 (AL583KCL) Plywood - CP13751 52013212 372748
Kichler Lighting	Kichler Lighting	Arkwright Fan	CP141050XX (AL583KCL) Plywood - CP137515		Ceiling Fan with Light Kit	58	454	300	195	30	1	Fluorescent						10000		12/7/2012	11/1/2012	United States, Canada	ES_1105 IR COOL INDUSTRIAL CO (744507) CP14105 (AL583KCL) Plywood - CP13751 52013212 397080
Kichler Lighting	Kichler Lighting	CP132308XXX / 300133XXX / KCL89	CP132308XXX / 300133XXX / KCL89		Ceiling Fan with Light Kit	52	571	418	198	30	1	Fluorescent						10000		5/15/2012	7/8/2012	United States, Canada	ES_1105 IR COOL INDUSTRIAL CO LTD (744507) CP13230 / 300133 KCL89_013212318 004
Kichler Lighting	Kichler Lighting	CP132632XXX / 339401XXX / YG219KCL4FDC	CP132632XXX / 339401XXX / YG219KCL4FDC		Ceiling Fan with Light Kit	52	234	138	89	30	1	Fluorescent						10000		4/20/2012	4/16/2012	United States, Canada	ES_1105 IR COOL INDUSTRIAL CO LT (744507) CP13263 / 339401 YG219KCL C_012521 2338_901

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ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	Product Type	Ceiling Fan Size (Diameters in Inches)	Efficiency (CFM/Watt) - Low	Efficiency (CFM/Watt) - Medium	Efficiency (CFM/Watt) - High	Ceiling Fans Motor Warranty (Years)	Ceiling Fan Components Warranty (Years)	Lighting Technology Used	Total Input Power (Watts)	Luminaire Efficacy	Power Factor	Correlated Color Temperature (Kelvin)	Color Rendering Index (CRI)	Rated Life of Light Source (Hours)	Special Features (Dimming, Motion Sensing etc)	Date Available on Market	Date Qualified	Markets	ENERGY STAR Model Identifier
Kichler Lighting	Kichler Lighting	CP141321 ( 339220XXX )	CP141321 ( 339220XXX )		Ceiling Fan with Light Kit	52	227	133	91	30	1	Fluorescent						10000		3/31/2012	3/21/2012	United States, Canada	ES_1105 IR COOL INDUST CO LTD (744507) CP141321 ( 339220XXX )_0125201_29_94296
Kichler Lighting	Kichler Lighting	KCL80/CP132568XXX ( 300181XXX )	KCL80/CP132568XXX ( 300181XXX )		Ceiling Fan with Light Kit	52	624	353	186	30	1	Fluorescent						10000		9/30/2012	3/13/2012	United States, Canada	ES_1105 IR COOL INDUST CO LTD (744507) KCL80/CP132568 ( 300181XXX )_0125201_51_94517
Kichler Lighting	Kichler Lighting	KCL82/CP132571 (300138XXX )	KCL82/CP132571 (300138XXX )		Ceiling Fan with Light Kit	52	199	126	85	30	1	Fluorescent						10000		3/30/2012	3/15/2012	United States, Canada	ES_1105 IR COOL INDUST CO LTD (744507) KCL82/CP132571 (300138XXX )_0125201_19_94792
Kichler Lighting	Kichler Lighting	KCL85/CP132576XXX ( 300141XXX )	KCL85/CP132576XXX ( 300141XXX )		Ceiling Fan with Light Kit	52	573	393	207	30	1	Fluorescent						10000		5/15/2012	3/13/2012	United States, Canada	ES_1105 IR COOL INDUST CO LTD (744507) KCL85/CP132576 ( 300141XXX )_0125201_24_95442
Kichler Lighting	Kichler Lighting	KCL98/CP132283 ( 300427XXX )	KCL98/CP132283 ( 300427XXX )		Ceiling Fan with Light Kit	52	185	116	80	30	1	Fluorescent						10000		3/30/2012	3/15/2012	United States, Canada	ES_1105 IR COOL INDUST CO LTD (744507) KCL98/CP132283 ( 300427XXX )_0125201_45_95652
King of Fans	Hampton Bay	Windward IV	52-WWDIV		Ceiling Fan with Light Kit	52	202	142	106	30	1	Fluorescent						10000		1/30/2013	1/11/2013	United States, Australia, New Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ES_1105 HIEN LUI INDUST CO LTD (58846)   WWDIV_01307232_8978
King of Fans	Hampton Bay	Windward IV	52-WWDIV 26603		Ceiling Fan with Light Kit	52	202	142	106	30	1	Fluorescent						10000		7/20/2012	7/5/2012	United States	ES_1105 HIEN LUI INDUST CO LTD (58846)   WWDIV_26603_013205310_13
King of Fans	Hampton Bay	Windward IV	52-WWDIV 26603		Ceiling Fan with Light Kit	52	202	142	106	30	1	Fluorescent						10000		1/30/2013	1/11/2013	United States	ES_1105 HIEN LUI INDUST CO LTD (58846)   WWDIV_26603_013071852_56
King of Fans	Hampton Bay	Windward IV	52-WWDIV 26613		Ceiling Fan with Light Kit	52	202	142	106	30	1	Fluorescent						10000		7/20/2012	7/5/2012	United States	ES_1105 HIEN LUI INDUST CO LTD (58846)   WWDIV_26613_013205340_63
King of Fans	Hampton Bay	Windward IV	52-WWDIV 26613		Ceiling Fan with Light Kit	52	202	142	106	30	1	Fluorescent						10000		1/30/2013	1/11/2013	United States	ES_1105 HIEN LUI INDUST CO LTD (58846)   WWDIV_26613_013071943_35

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ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	Product Type	Ceiling Fan Size (Diameters in Inches)	Efficiency (CFM/Watt) - Low	Efficiency (CFM/Watt) - Medium	Efficiency (CFM/Watt) - High	Ceiling Fans Motor Warranty (Years)	Ceiling Fan Components Warranty (Years)	Lighting Technology Used	Total Input Power (Watts)	Luminaire Efficacy	Power Factor	Correlated Color Temperature (Kelvin)	Color Rendering Index (CRI)	Rated Life of Light Source (Hours)	Special Features (Dimming, Motion Sensing etc)	Date Available on Market	Date Qualified	Markets	ENERGY STAR Model Identifier
King of Fans	Hampton Bay	Windward IV	52-WWDIV26623		Ceiling Fan with Light Kit	52	202	142	106	30	1	Fluorescent						10000		7/20/2012	7/5/2012	United States	ES_1105 HIEN LU INDUST CO LTD (58846)   WWDIV 26623_01 3205400_32
King of Fans	Hampton Bay	Windward IV	52-WWDIV26623		Ceiling Fan with Light Kit	52	202	142	106	30	1	Fluorescent						10000		1/30/2013	1/11/2013	United States	ES_1105 HIEN LU INDUST CO LTD (58846)   WWDIV 26623_01 3072034_22
King of Fans	Hampton Bay	Windward IV	52-WWDIV66266		Ceiling Fan with Light Kit	52	202	142	106	30	1	Fluorescent						10000		1/30/2013	1/11/2013	United States	ES_1105 HIEN LU INDUST CO LTD (58846)   WWDIV 66266_01 3072424_28
King of Fans	Hampton Bay	Windward IV	52-WWDIV71213		Ceiling Fan with Light Kit	52	202	142	106	30	1	Fluorescent						10000		7/20/2012	7/5/2012	United States, Canada	ES_1105 HIEN LU INDUST CO LTD (58846)   WWDIV 71213_01 3205422_48
King of Fans	Hampton Bay	Windward IV	52-WWDIV71223		Ceiling Fan with Light Kit	52	202	142	106	30	1	Fluorescent						10000		7/20/2012	7/5/2012	United States, Canada	ES_1105 HIEN LU INDUST CO LTD (58846)   WWDIV 71223_01 3205555_70
Lowe's Home Improvement	Harbor Breeze	52" Calera Ceiling Fan	0003475		Ceiling Fan with Light Kit	52	189	139	101	30	1	Fluorescent						10000		10/15/2010	2/15/2013	United States	ES_1105 HIEN LU INDUST CO LTD (58846)   0003475_0131839_9520
Lowe's Home Improvement	Harbor Breeze	52" Calera Ceiling Fan	00252		Ceiling Fan with Light Kit	52	189	139	101	30	1	Fluorescent						10000		10/15/2010	2/15/2013	United States	ES_1105 HIEN LU INDUST CO LTD (58846)   00252_02 3185039_32
Lowe's Home Improvement	Harbor Breeze	52" Calera Ceiling Fan	0077001		Ceiling Fan with Light Kit	52	189	139	101	30	1	Fluorescent						10000		10/15/2010	2/15/2013	United States	ES_1105 HIEN LU INDUST CO LTD (58846)   0077001_0131842_8092
Lowe's Home Improvement	Harbor Breeze	52" Calera Ceiling Fan	00813		Ceiling Fan with Light Kit	52	189	139	101	30	1	Fluorescent						10000		10/15/2010	2/15/2013	United States	ES_1105 HIEN LU INDUST CO LTD (58846)   00813_02 3184357_71
Lowe's Home Improvement	Harbor Breeze	52" Calera Ceiling Fan	00814		Ceiling Fan with Light Kit	52	189	139	101	30	1	Fluorescent						10000		10/15/2010	2/15/2013	United States	ES_1105 HIEN LU INDUST CO LTD (58846)   00814_02 3184541_53
Lowe's Home Improvement	Harbor Breeze	52" Calera Ceiling Fan	CLR052-II		Ceiling Fan with Light Kit	52	189	139	101	30	1	Fluorescent						10000		10/15/2010	2/15/2013	United States	ES_1105 HIEN LU INDUST CO LTD (58846)   CLR052-II_021520139_4296

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ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	Product Type	Ceiling Fan Size (Diameters in Inches)	Efficiency (CFM/Watt) - Low	Efficiency (CFM/Watt) - Medium	Efficiency (CFM/Watt) - High	Ceiling Fans Motor Warranty (Years)	Ceiling Fan Components Warranty (Years)	Lighting Technology Used	Total Input Power (Watts)	Luminaire Efficacy	Power Factor	Correlated Color Temperature (Kelvin)	Color Rendering Index (CRI)	Rated Life of Light Source (Hours)	Special Features (Dimming, Motion Sensing etc)	Date Available on Market	Date Qualified	Markets	ENERGY STAR Model Identifier
Lowe's Home Improvement	Harbor Breeze	54in Easy Breeze	356925		Ceiling Fan with Light Kit	54	203	122	82	30	1	Fluorescent						10000		7/20/2011	2/14/2013	United States	ES_1105 HIEN LUI INDUST CO LTD (58846)   356925_013200632090
Lowe's Home Improvement	Harbor Breeze	54in Easy Breeze	356927		Ceiling Fan with Light Kit	54	203	122	82	30	1	Fluorescent						10000		7/20/2011	2/14/2013	United States	ES_1105 HIEN LUI INDUST CO LTD (58846)   356927_013200652206
Lowe's Home Improvement	Harbor Breeze	54in Easy Breeze	823		Ceiling Fan with Light Kit	54	203	122	82	30	1	Fluorescent						10000		7/20/2011	2/14/2013	United States	ES_1105 HIEN LUI INDUST CO LTD (58846)   823_021400703_24
Lowe's Home Improvement	Harbor Breeze	54in Easy Breeze	824		Ceiling Fan with Light Kit	54	203	122	82	30	1	Fluorescent						10000		7/20/2011	2/14/2013	United States	ES_1105 HIEN LUI INDUST CO LTD (58846)   824_021400715_24
Lowe's Home Improvement	Harbor Breeze	54in Easy Breeze	EBZ54		Ceiling Fan with Light Kit	54	203	122	82	30	1	Fluorescent						10000		7/20/2011	2/14/2013	United States	ES_1105 HIEN LUI INDUST CO LTD (58846)   EBZ54_013200726861
Quorum International	Quorum International	Capri VII	77525-87XX		Ceiling Fan with Light Kit	52	226	134	93	30	1	Fluorescent						10000		4/30/2012	7/3/2012	United States, Canada	ES_1105 IR COOL INDUST CO LTD (744507)   77525-87282013172699322
Quorum International	Quorum International	Capri VII	77525-88XX		Ceiling Fan with Light Kit	52	226	134	93	30	1	Fluorescent						10000		4/30/2012	7/3/2012	United States, Canada	ES_1105 IR COOL INDUST CO LTD (744507)   77525-88282013172773997
Quorum International	Quorum International	Capri VII	77525-89XX		Ceiling Fan with Light Kit	52	226	134	93	30	1	Fluorescent						10000		4/30/2012	7/3/2012	United States, Canada	ES_1105 IR COOL INDUST CO LTD (744507)   77525-89282013172797541
Quorum International	Quorum International	The Capri energy saving ceiling fan	77525-24XX		Ceiling Fan with Light Kit	52	234	146	100	30	1	Fluorescent						10000		10/15/2012	10/4/2012	United States, Canada	ES_1105 IR COOL INDUST CO LTD (744507)   77525-24282013172617897
Quorum International	Quorum International	The Capri energy saving ceiling fan	77525-25XX		Ceiling Fan with Light Kit	52	234	146	100	30	1	Fluorescent						10000		10/15/2012	10/4/2012	United States, Canada	ES_1105 IR COOL INDUST CO LTD (744507)   77525-25282013172656812
Quorum International	Quorum International	The Capri energy saving ceiling fan	77525-26XX		Ceiling Fan with Light Kit	52	234	146	100	30	1	Fluorescent						10000		10/15/2012	10/4/2012	United States, Canada	ES_1105 IR COOL INDUST CO LTD (744507)   77525-26282013172675032

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## Definitions for Ceiling Fan with Light Kits Product Listing Column Hea

Column Header	Definitions
<b>ENERGY STAR Partner</b>	An organization that signed a Partnership Agreement with EPA to manufacture or private label ENERGY STAR qualified products.
<b>Brand</b>	An identifier assigned by the manufacturer or private labeler to a product or family/series of products for sales and marketing purposes.
<b>Model Name</b>	An identifier assigned by the manufacturer or private labeler to a product or family/series of products for sales and marketing purposes.
<b>Model Number</b>	A distinguishing identifier, usually alphanumeric, assigned to a product by the manufacturer or private labeler.
<b>Additional Model Information</b>	This column includes for the qualified model or family, family members, additional model names, model numbers and other identifying information associated with a product or family/series of products for sales and marketing purposes. Other identifying information includes, but is not limited to, SKUs, UPC codes, retail numbers, and/or descriptions of models included/not included in the reported Model Family.
<b>Product Type</b>	Ceiling fan only (no light kit) or ceiling fan with light kit.
<b>Ceiling Fan Size</b>	The diameter (in inches) of a ceiling fan tip to tip.
<b>Airflow Efficiency-Low</b>	The ratio of airflow divided by power at a specific residential ceiling fan setting expressed in cubic feet per minute/Watt (CFM/watt) at low speed.
<b>Airflow Efficiency-Medium</b>	The ratio of airflow divided by power at a specific residential ceiling fan setting expressed in cubic feet per minute/Watt (CFM/watt) at medium speed.
<b>Airflow Efficiency-High</b>	The ratio of airflow divided by power at a specific residential ceiling fan setting expressed in cubic feet per minute/Watt (CFM/watt) at high speed.
<b>Ceiling Fan Motor Warranty</b>	Qualifying products shall provide a warranty of at least 30 years for the motor of qualifying residential ceiling fans.
<b>Ceiling Fan Components Warranty</b>	Qualifying products shall provide a warranty of at least one year for all other components (that is, other than motor) of qualifying residential ceiling fans.

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Column Header	Definitions
<b>Lighting Technology Used</b>	The light source technology utilized by the fixture: compact fluorescent light (CFL), light emitting diode (LED), or halogen.
<b>Light Output</b>	The amount of light emitted by the light source or light fixture. Non directional fixtures (with removable light sources i.e. GU24 base bulbs) are measured at the light source and do not account for light lost from the fixture, while other fixtures meant to put light on a specific application (e.g. recessed downlights, under cabinet lights, accent lights, cove lights) are measured at the fixture level, only counting the light that escapes the fixture.
<b>Source Efficacy</b>	The quotient of the total light source/lamp luminous flux (lumens) emitted over the total lamp power input (Watts). It is expressed in lm/W. For ENERGY STAR qualified fixtures this applies to light fixtures that are residential only, considered "non-directional" and have been measured at the light source level.
<b>Luminaire Efficacy</b>	The quotient of the total luminous flux (lumens) emitted by the fixture over the total power input (Watts). It is expressed in lumens per watt (lm/W). For ENERGY STAR qualified fixtures this applies to light fixtures that are considered directional and are measured at the fixture level. This includes the following residential grade directional fixture types: line-voltage track lights, ceiling fan light kits, undercabinet and cove lighting, downlights, recessed, pendant or surface mounted and includes retrofit kits for existing recessed cans. This also includes the following LIMITED commercial fixture types: Accent lights such as line-voltage track lights, under cabinet task lights, portable desk task lights, downlights, recessed, pendant or surface-mounts BUT EXCLUDES typical commercial and industrial fixtures such as recessed troffers or linear forms (e.g. linear fluorescent pendants) typically used in office spaces.
<b>Power Factor</b>	Ratio of real power flowing to the lamp to the apparent power in the circuit. A lamp with a lower power factor will draw more current than a lamp with a higher power factor of the same wattage.
<b>Correlated Color Temperature</b>	A description of the "color" of a light source measured on the Kelvin (K) scale. CFLs are available in a range of color temperatures. Lower values (2700-3000K) mean the white light has a warmer (red-yellow) tone, while higher kelvin (4100-6500K) mean the white light has a cooler (bluer) tone.
<b>Color Rendering Index</b>	Measure of the degree of color shift objects undergo when illuminated by the light source as compared with the color of those same objects when illuminated by a reference source of comparable color temperature.



Column Header	Definitions
<b>Light Source Life</b>	The expected useful life of the light source. Measured differently depending on the technology of the light source. For example, LED lighting expected useful life is based on the estimated point at which only 70% of the original light output remains, while for older technologies, like fluorescent and halogen, estimated useful life is based on the measured median sample life.
<b>Special Features</b>	Most fixtures are designed to operate on an on/off switch. However, some fixtures have been designed with features to perform in specialized applications, such as with dimmers, three-way, or photo cell controls. Special features and compatibility with controls should be clearly marked on the product packaging, cut sheet or web site for the product.
<b>Notes</b>	Indicates information on certification relevant to the consumer (i.e. product variations, unique issues concerning the model's listing, etc.).
<b>Date Available on Market</b>	The date that the model is available for purchase.
<b>Date Qualified</b>	The date on which the product was confirmed to meet the ENERGY STAR specification.
<b>Markets</b>	This list/dataset includes products sold in the U.S. and/or Canada and other ENERGY STAR partner countries.
<b>ENERGY STAR Model Identifier</b>	A unique string of characters used to identify models with the same performance characteristics. This sequence is generated by certification bodies and is reported as a single row of data on the lists of certified products.



## Key Efficiency Criteria

Qualified models meet all ENERGY STAR requirements as listed in the Version 3.0 ENERGY STAR Program Requirements for Ceiling Fans that are effective as of April 1, 2012.

Fan Speed	Efficiency Requirement	Efficiency Requirement
Low	1,250 CFM	155 CFM/Watt
Medium	3,000 CFM	100 CFM/Watt
High	5,000 CFM	75 CFM/Watt

### Notes:

Qualifying ceiling fan models must come with a minimum 30-year motor warranty; one-year component(s) warranty; and 2-year light kits warranty.

Residential ceiling fan airflow efficiency is defined on a performance basis: CFM of airflow per watt of power consumed by the motor and controls. The motor, blades, and controls are treated as a system, which allows for multiple approaches to reach a given efficiency level. Efficiency is measured on each of three fan speeds (low, medium, high) and must meet the minimum requirements outlined in the table above.

Criteria for ENERGY STAR Qualified Residential Ceiling Fans with Lighting	
Performance Characteristic	Specification Luminaires V1.1
<b>Light Output</b>	<p>Non-directional luminaires (those listed with a "Source Efficacy" value in column J): <math>\geq 800</math> lumens, or <math>\geq 450</math> lumens for fixtures with three sources or more.</p> <p>Directional fixtures: <math>\geq 125</math> lumens/foot for undercabinet, 200 lumens/foot for cove mount, 345 or 575 for downlights (depending on aperture size), 200 lumens per head for accent lights, 300 lumens for outdoor post-mounted luminaires.</p>
<b>Source Efficacy (non-directional luminaires)</b>	<p><math>\geq 65</math> lm/W</p> <p><math>\geq 70</math> lm/W after September 2013</p>
<b>Luminaire Efficacy (directional luminaires)</b>	<p>Dependent on fixture type/application starting at <math>\geq 29</math> lm/W</p>

**Criteria for ENERGY STAR Qualified Residential Ceiling Fans with Lighting**

<b>Power Factor</b>	Residential: $\geq 0.5$ Commercial: $\geq 0.9$  Solid state residential with input power greater than 5 watts: $\geq 0.7$
<b>Correlated Color Temperature</b>	Lamps shipped with luminaires shall have one of the following nominal correlated color temperatures (CCT): 2700K, 3000K, 3500K, 4000/4100K, 5000K (commercial only)
<b>Color Rendering Index</b>	$R_a \geq 80$
<b>Rated Life of Light Source</b>	Fluorescent and HID: $\geq 10,000$ hours Halogen incandescent: $\geq 2,500$ hours Solid state (LED): $\geq 25,000$ residential or $\geq 35,000$ commercial