

Northwest Regional Utilities LED Product List



NWTAN update
Michael Lane, LC

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http://www.lightingdesignlab.com/LED-List/index.html

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Lighting Design Lab (LDL) Regional LED Product List Page

This is an initiative sponsored by Northwest regional electric utilities to further the adoption of LED products into the lighting market. The products on the "LDL LED product list" meet the same specification required by Energy Star (check the specifications link below)

Check Lists for pre-Qualified LED Products

- [Check List - Integral Lamps \(line voltage and low voltage lamps\)](#)
- [Check List - Fixtures and Tubular LED lamps](#)

Qualify a New Product

Manufacturers	Utilities
<p>If you are a manufacturer, manufacturers representative, or a distributor of a lighting product, click one of the links below to see if the product is currently listed or the steps necessary to have the product qualified.</p> <ul style="list-style-type: none"> Integral LED Lamps (line voltage and low voltage lamps) LED Fixtures and Tubular LED lamps 	<p>If you are a utility representative who is being asked to incentivize an LED lamp or fixture click one of the links below to see if the product is currently listed and for steps to qualify a product.</p> <ul style="list-style-type: none"> Qualify an LED Lamp Qualify an LED Fixture or Tubular LED Lamp

Additional information

- [LED Specifications](#)
- [LED Manufacturer Representative Directory](#)

Sponsors:

- PUGET SOUND ENERGY
- Seattle City Light
- SHROWMOUTH COUNTY PUD
- TACOMA POWER
- EnergyTrust of Oregon
- BONNEVILLE POWER ADMINISTRATION
- IDAHO POWER
- EWEB



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Check Lists for pre-Qualified LED Products



[Check List - Integral Lamps \(line voltage and low voltage lamps\)](#)



[Check List - Fixtures and Tubular LED lamps](#)

Qualify a New Product

Manufacturers

If you are a manufacturer, manufacturers representative, or a distributor of a lighting product, click one of the links below to see if the product is currently listed or the steps necessary to have the product qualified.



[Integral LED Lamps \(line voltage and low voltage lamps\)](#)



[LED Fixtures and Tubular LED lamps](#)

Utilities

If you are a utility representative who is being asked to incentivize an LED lamp or fixture click one of the links below to see if the product is currently listed and for steps to qualify a product.



[Qualify an LED Lamp](#)



[Qualify an LED Fixture or Tubular LED Lamp](#)

Additional information




[LED Specifications](#)



[LED Manufacturer Representative Directory](#)



LED Lists (pre-Qualified LED Products)

Integral Lamps (line voltage and low voltage)		
Step 1	<p><i>Check</i> Energy Star Integral Lamps: http://www.energystar.gov/index.cfm?fuseaction=iledl.display_products_excel</p> <p>If the product is listed on the Energy Star list then the product meets the LDL product requirements and the utility should determine if the product meets internal economic thresholds.</p>	
Step 2	<p><i>Check</i> LDL LED list: LDL LED lamp list.pdf</p> <p>If the product is listed on the LDL LED Lamp list then the product meets the LDL product requirements and the utility should determine if the product meets internal economic thresholds.</p>	
	Manufacturers	Utilities
Step 3	<p>If the product is NOT listed on the Energy Star or LDL list then proceed to Qualify a LED Lamp steps</p>	<p>If the product is NOT listed on the Energy Star or LDL list then proceed to Qualify a LED Lamp steps</p>
	 LED Specifications	



Step 1	<p>If the product is listed on the Energy Star list then the product meets the LDL product requirements and the utility should determine if the product meets internal economic thresholds.</p>
Step 2	<p>Check LDL LED list: LDL LED lamp list.pdf</p> <p>If the product is listed on the LDL LED Lamp list then the product meets the LDL product requirements and the utility should determine if the product meets internal economic thresholds.</p>
Step 3	<p>If the product is NOT listed on the Energy Star or LDL list then have the <u>manufacturer</u> fill in the LDL LED manufacturers checklist and submit ALL of the following to yourself or to ledlist@lightingdesignlab.com:</p> <ul style="list-style-type: none"> • LDL LED manufacturers checklist.pdf completely filled out • LM79 (including Lamp Current, Input Wattage, Power Factor, Lumen Output, Efficacy, CRI, R9 Value, CCT, DUV Value) • Warranty • Product Spec sheet • certification by NRTL (nationally recognized testing laboratory - such as UL or ETL) • Product sample (supply within 30 days) <p>Remind the manufacturer that incomplete submittals will NOT be reviewed or considered</p> <p>Download the LED Specifications here</p> <p>If the information is submitted to the Lighting Design Lab it may take 2-4 weeks to receive a answer on qualification of the product. If time is critical proceed to step 4 once you have the required information.</p>
Step 4	<p>Qualify the lamp using the Utility PASS/FAIL Calculator. If you don't have the Utility PASS/FAIL Calculator or would like the latest version (current version is "2010 3G"), send an email to ledlist@lightingdesignlab.com requesting the Calculator.</p> <p>Send the results to ledlist@lightingdesignlab.com along with all of the information requested in Step 1 above.</p> <p>Determine if the product meets internal economic thresholds. If the answer is yes then provide incentives.</p>
Step 5	<p>Inform manufacturer to Submit their product to Energy Star for inclusion on their list.</p> <p>ALL product will be de-listed after one year from inclusion on the LDL LED lamp list.pdf list.</p>



LDL LED Manufacturers Checklist

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Updated 3/14/2011

Solid State Lighting Pass Qualification form

All fields must be filled out!

Incomplete submittals will not be reviewed or considered. Submit all of the following

- LDL LED manufacturers checklist (this form – page 1 and 2)
- LM79 (including *Lamp Current, Input Wattage, Power Factor, Lumen Output, Efficacy, CRI, R9 Value, CCT, DUV Value*)
- Warranty
- Product Spec sheet
- certification by NRTL (nationally recognized testing laboratory - such as UL or ETL)
- Product sample (supply within 30 days for integral LED lamps)

Lamp/fixture manufacturer	
Model number	
SKU number (list "same as" if same as model number)	
(Name of) Certified by a NRTL (nationally recognized testing laboratory) such as UL or ETL	
Warranty in years	
LM79 - test number	
LM79 - Lamp input voltage	
LM79 - Lamp current	
LM79 - Lamp wattage	
Spec sheet - Lamp wattage	
LM79 - Power factor	
LM79 - Initial lumen output	
Spec sheet - Initial lumen output	
LM79 - Efficacy (LPW)	
LM79 - CRI	
LM79 - R9 value	
LM79 - Correlated color temperature (CCT)	

Spec Sheet - Correlated color temperature (CCT)	
LM79 - Duv value	
Spec sheet - Dimmable	
Spec sheet - Rated life	
Spec Sheet - CBCP for directional lamps	
Spec Sheet - Beam spread for directional lamps	
If submitting a fixture also include the following	
Does the fixture have an integrated occupancy, motion, photo or other control	
LM79 - Off-state power	

Submit all information requested to ledlist@lightingdesignlab.com

In 2-4 weeks you will receive confirmation if the lamp meets the product requirements. The lamp will then be listed on the next updated list: LDL_LED_product_list.pdf

Remember to submit your product to Energy Star because the LDL list is only an interim list and ALL products will be de-listed after one year from inclusion on the LDL LED list



Tubular “T8” LED lamps

Performance Characteristic	
Lamp Efficacy	≥ 80 LPW
Correlated Color Temperature (CCT)	2700K, 3000K, 3500K, 4000K, 5000K
Color Rendering Index (CRI)	≥ 80
Lumen Maintenance	≥ 70% @ 50,000 hours
Power Factor	≥ 0.90
Total Harmonic Distortion	≤ 20%
Warranty	≥ 5 Years
R9	>0
Duv	0.001 ± 0.006



Exterior fixtures

- Current (old) requirement is 75CRI
- Energy Star is currently exemption exterior fixture CRI
- DLC required 50 or greater

- New requirement is 65



Save Data

Solid State Lighting Pass/Fail Form

Clear Data

Commercial/Industrial

vs. 2011.3F

Section I- Photometrics

MANUFACTURER SPECIFICATION SHEET Date 6/15/2011

Lamp Type	Outdoor Pole/Arm-Mounted Decorative Luminaires		
Lamp/Fixture Manufacturer	RAB Lighting	Model Number	HBLED13A
Color Temperature Listed on Product Package	5000 K		
Generation Specific Number (This could be the SKU number or any number that differentiates the product from other generations)		Does the fixture have an integral occupancy, motion, photo or external control?	No
Certified by a NRTL (nationally recognized testing laboratory such as Underwriters Laboratories—UL)?	Yes	PASS	

WARRANTY

Warranty	5	PASS
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LM-79 REPORT (Electrical and Photometric Measurements)

LM 79 Test Number	Lighting Sciences 26997	
Lamp Input Voltage	120	
Lamp Current (A)	0.113	
Input Wattage	15.3	
Power Factor	0.981	PASS
Initial Lumen Output	724.0	



- questions