



DLC SSL Product List Submission Form (Version 2010_01_15)

Application Policies:
 1) All blank fields are required to be filled out, except the yellow-shaded fields which are optional and the green-shaded fields which are intended for DLC use only.
 2) If any data provided by the manufacturer is missing, unclear, insufficiently documented, or determined from a test that was performed incorrectly, then the application will be returned. The manufacturer will have the opportunity to resubmit the application ONE TIME with all issues rectified. If after a second review, the application is still incomplete, then the application will be denied. The manufacturer will have the option to submit a new application along with the required fee. For this reason, we recommend that the application be filled out by a person with sufficient technical knowledge of lighting products and testing such as a lighting engineer, and that the applicant read the application guidelines thoroughly.
 3) If an application is returned due to insufficient documentation, an explanation will be provided in the "comments" field. If this explanation is unclear to the applicant, he or she may contact the reviewer for a brief clarification, but the reviewer is unable to provide detailed explanation of testing procedures.

Application Contact	Company	Submission Date
	Brand	
	Contact Name	
	Address	
	Phone	
	Fax	
	Website	

Data Fields Below for DLC Use Only

Luminaire Data	Data Missing	Insufficiently Documented	Not Tested to Appropriate Standard	Failed to Meet Criteria	OK	Comments
Submitted Model Number						
Intended Application Category, click on the cell and pick one from the drop-down list to the right of the cell						
Description of accessories used						
LED drive current (A)						
LED package Model Number						
Rated CCT (K)						

Model Information
 If you want to include any other model (call it "family model") in the same product family as the submitted model, this "family model" must be identical to the submitted model except for the following two scenarios:
 1. The "family model" exterior housing has a different color.
 2. The "family model" uses the same LED package model as the submitted model but the LED chip has a different phosphor that produces a higher CCT value than the submitted model.
 The applicant has to provide proof that the difference between the "family model" and the submitted model is limited to the above two scenarios. Any other difference from the submitted model constitutes a different product family. Please list all detailed "family model" numbers separately in the data fields to the right, and please note that when the "family model" is listed in the Qualified Product List, it will carry the same data values as the submitted model, which is intended to be the worst case of the product family.
 If including other "family models" together with the submitted model, please explain why you think the submitted model represents the lowest lumen efficacy of the family.

Photometric and Electric Data	Data Value	Data Source (Name of Attached File)	Data Source (Page number where data is shown in the attached file)	Data Missing	Insufficiently Documented	Not Tested to Appropriate Standard	Failed to Meet Criteria	OK	Comments
Light Output (lm)	Rated Measured using LM-79								
Luminous Efficacy (lm/W)	Rated Measured using LM-79								
Input Power (W)	Rated Measured using LM-79								
Input Voltage (V)	Rated Measured using LM-79								
Input Current (A)	Rated Measured using LM-79								
Power Factor	Rated Measured using LM-79								
CCT (K)	Rated Measured using LM-79								
CRI	Rated Off-state power (W)								

Please read through "ENERGY STAR® Manufacturer's Guide for Qualifying Solid State Lighting Luminaires - Version 2.0", available at www.energystar.gov/participants/manufacturer_responsibilities/ENERGY_STAR_Manufacturers_Guide_v2.pdf, in order to understand the technical terminology and process for lifetime evaluation.

Lifetime Data	Data Value	Data Source (Name of Attached File)	Data Source (Page number where data is shown in the attached file)	Data Missing	Insufficiently Documented	Not Tested to Appropriate Standard	Failed to Meet Criteria	OK	Comments
Rated Life to L ₈₀ (hours)									
L ₈₀ lifetime determination statement (Explain how the rated life was determined)									
If LM-80 data are not available, state what alternative data were used to determine L ₈₀ lifetime									
Manufacturer Warranty (years)									

For lifetime compliance options, use either Option 1 or Option 2 below

Option 1: Compliance through Component Performance
 LED Package Model Number as shown in the above lumen maintenance report. This model number needs to match the LED package model number shown in the product literature for the submitted luminaire model.
 In-situ measured hottest LED case temperature (°C) at the Temperature Measurement Point (TMP) specified by LED package manufacturer. This temperature needs to come from the luminaire's in-situ test report performed by a UL-approved laboratory, measured at the same Temperature Measurement Point (TMP) specified by LED package manufacturer as in the LM-80 Lumen Maintenance report.
 This is the highest allowed temperature at the Temperature Measurement Point (TMP) specified by LED package manufacturer.
 Interpolated 6000-hour Lumen Maintenance for luminaires using Component Performance. Please refer to Page 22-23 of ENERGY STAR® Manufacturer's Guide for Qualifying Solid State Lighting Luminaires - Version 2.0 for details on how this interpolation calculation should be done.

Option 2: Compliance through Luminaire Performance
 This is the light output from an LM-79 report of the luminaire at 0 hours (lm).
 Luminaire Light Output at 0 hours (lm)
 This is the light output from an LM-79 report of the luminaire after 6000 hours of continuous operation in the appropriate UL 5065-13 environment.
 Luminaire Light Output at 6000 hours (lm)
 6000-hour Lumen Maintenance for luminaires using Luminaire Performance.

LED Package Data	Luminaire Model Number as Shown in Document	Data Source (Name of Attached File)	Data Source (Page number where data is shown in the attached file)	Data Missing	Insufficiently Documented	Not Tested to Appropriate Standard	Failed to Meet Criteria	OK	Comments
LED Package Manufacturer									
LED Package Model Type									
LED Package Model Number									
LED Package Date of Manufacture									

Product Sheet and Test Reports Checklist									
Manufacturer's product sheet attached? If yes, give the luminaire model number as shown in the document									
LM-79 Test Report containing light output and efficacy data attached? If yes, give the luminaire model number as shown in the document									
LM-79 Test Report containing color data (CCT and CRI) attached? If yes, give the luminaire model number as shown in the document									
LM-79 Test Report containing electrical data (Input Voltage, Input Current, Power, Power Factor) attached? If yes, give the luminaire model number as shown in the document									
For lifetime determined by Option 1: LED package LM-80 Test Report attached? If yes, give the luminaire model number as shown in the document									
For lifetime determined by Option 2: Luminaire LM-79 Test Report attached? If yes, give the luminaire model number as shown in the document									
In-situ LED case temperature Test Report from a UL-approved laboratory attached? If yes, give the luminaire model number as shown in the document									
IES file attached? If yes, give the luminaire model number as shown in the document									

List of Technical Requirements by DLC for Each Luminaire Category (More categories will be added as DLC expands into more SSL luminaire categories)

Parameter	Requirement	Data Missing	Insufficiently Documented	Not Tested to Appropriate Standard	Failed to Meet Criteria	OK	Comments
1. Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	Minimum Light Output	1000 lm					
	Maximum Light Output	N/A					
	Zonal Lumen Requirements	100% 0-90°, <10 % 90-90° plus meet IES Type I, II, IV, or V					
	Minimum Luminaire Efficacy	50 lm/W					
	Allowable CCTs	N/A					
	Minimum CRI	50					
	Minimum L70 Lifetime	50,000 hrs					
2. Outdoor Pole/Arm-Mounted Decorative Luminaires	Minimum Light Output	1000 lm					
	Maximum Light Output	N/A					
	Zonal Lumen Requirements	95% 0-90°					
	Minimum Luminaire Efficacy	40 lm/W					
	Allowable CCTs	N/A					
	Minimum CRI	50					
	Minimum L70 Lifetime	50,000 hrs					
3. Outdoor Wall-Mounted Area Luminaires	Minimum Light Output	300 lm					
	Maximum Light Output	N/A					
	Zonal Lumen Requirements	100% 0-90°, <10% 90-90°					
	Minimum Luminaire Efficacy	40 lm/W					
	Allowable CCTs	N/A					
	Minimum CRI	50					
	Minimum L70 Lifetime	50,000 hrs					
4. Parking Garage Luminaires	Minimum Light Output	2000 lm					
	Maximum Light Output	N/A					
	Zonal Lumen Requirements	>20% 90-70°, >15% 70-80°					
	Minimum Luminaire Efficacy	56 lm/W					
	Allowable CCTs	N/A					
	Minimum CRI	50					
	Minimum L70 Lifetime	50,000 hrs					
5. T-Track or Mono-point Directional Lighting Fixtures	Minimum Light Output	>50 lm					
	Maximum Light Output	N/A					
	Zonal Lumen Requirements	>80% 0-90°					
	Minimum Luminaire Efficacy	30 lm/W					
	Allowable CCTs	2700K, 3000K, 3500K, 4000K, 5000K					
	Minimum CRI	50					
	Minimum L70 Lifetime	50,000 hrs					
6. Rechargeable Case Lighting	Minimum Light Output	Center-mounted*: >100 lm/ft; End-mounted***: >50 lm/ft					
	Maximum Light Output	Center-mounted*: <300 lm/ft; End-mounted***: <150 lm/ft					
	Zonal Lumen Requirements	0-80°: >95%					
	Minimum Luminaire Efficacy	35 lm/W					
	Allowable CCTs	2700K, 3000K, 3500K, 4000K, 4500K and 5000K					
	Minimum CRI	70					
	Minimum L70 Lifetime	50,000 hrs AND 5-year warranty					
7. Single Case Lighting	Minimum Light Output	End-mounted***: >50 lm/ft					
	Maximum Light Output	End-mounted***: <150 lm/ft					
	Zonal Lumen Requirements	0-80°: >95%					
	Minimum Luminaire Efficacy	35 lm/W					
	Allowable CCTs	2700K, 3000K, 3500K, 4000K, 4500K and 5000K					
	Minimum CRI	75					
	Minimum L70 Lifetime	35,000 hrs AND 5-year warranty					

*Bilateral, symmetric SPD distribution on two hemispheres
 **One-sided, single hemisphere SPD distribution