

Interim Pre- Qualified LED Fixtures Guidelines

**Manufacturers must submit Product Information and Testing Results
to Mass Save for qualification**

(Valid Through December 31, 2010)

Application	Minimum Light Output	Minimum Luminaire Efficacy	Allowable CCTs	Minimum CRI
Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	1,000 lm	50 lm/W	< 6500K	50
Outdoor Wall-Mounted Area Luminaires	300 lm	40 lm/W	< 6500K	50
Parking Garage and Canopy Luminaires	2,000 lm	56 lm/W	< 6500K	50
Track or Mono-point Directional Fixtures	250 lm	30 lm/W	< 5000K	70
Refrigerated Case Lighting: Center-mounted fixtures End-mounted fixtures	>100 lm/ft >50 lm/ft	35 lm/W	< 5000K	70
Linear Panels (2x2 Troffers only)	> 3000 lm	55 lm/W	< 5000K	80
High-bay/Low-bay Fixtures	>10,000 lm	60 lm/W	< 6500K	70
High-bay Aisle Fixtures	>10,000 lm	60 lm/W	< 6500K	70
Integral LED Directional Replacement Lamps - MR16, PAR16 and PAR20	* CBCP to Target Wattage	40 lm/W	< 5000K	80
Integral LED Directional Replacement Lamps - PAR30 & PAR38	* CBCP to Target Wattage	45 lm/W	< 5000K	80
Outdoor Pole/Arm-Mounted Area and Roadway Luminaires Retro-fit Kits	1,000 lm	50 lm/W	< 6500K	50
Outdoor Pole/Arm-Mounted Decorative Luminaires Retro-fit Kits	1,000 lm	40 lm/W	< 6500K	50

General Conditions	
Power Factor luminaires	(>0.9)
Power factor replacement lamps	(>0.7)
THD	(<20%)
Manufacturer Warranty luminaires	Min. 5 years
Manufacturer Warranty Replacement lamps	Min. 3 years

Required Test Reports	
Fixture Cutsheet	<input type="checkbox"/>
LM-79 Test report	<input type="checkbox"/>
IES File	<input type="checkbox"/>
LED LM-80 Test report (required only for retro-fit kits)	<input type="checkbox"/>
In-situ Temperature Test report (required only for retro-fit kits)	<input type="checkbox"/>

Submit LED Product to Kelly Cota, email: kelly.cota@us.ngrid.com

* CBCP stands for Center Beam Candle Power

Mass Save “Interim Pre-Qualified LED Fixture List” Requirements

Valid Through December 31, 2010

The Mass Save Program Administrators support the installation of LED Technologies as an energy conservation measure for our customers. In an effort to get more products to market and to facilitate the review of fixtures within the specification intent of both the ENERGY STAR and DesignLights Programs prior to their published lists, the Mass Save Program Administrators have developed the attached qualified products list for the following fixture types:

- Outdoor Pole/Arm-Mounted Area and Roadway Luminaires
- Outdoor Wall-Mounted Area Luminaires
- Parking Garage, Canopy & Low-Bay Luminaires
- Interior Track or Mono-Point Directional Lighting Fixtures
- Refrigerated Case Lighting
- Linear Panels (2X2 Troffers Only)
- High-bay/Low-bay Fixtures & High-bay Aisle Fixtures
- Integral LED Directional Replacement Lamps - MR16, PAR16 and PAR20
- Integral LED Directional Replacement Lamps - PAR30 & PAR38
- Outdoor Pole/Arm-Mounted Area and Roadway & Decorative Retro-fit kits

Please note that the LED products identified in the following tables are temporarily approved for Mass Save incentives through December 31, 2010 for both the prescriptive Retrofit, New Construction applications and the Custom application where applicable. After December 31st, only ENERGY STAR and Design Lights Consortium (DLC) approved products will be eligible for incentives. If this projected date is modified for any reason, the Mass Save Program Administrators reserve the right to terminate or extend the eligibility period of this list.

Listing of product by Mass Save does not guarantee that the products will be listed by DesignLights or Energy Star in the future. Be aware that Energy Star and DesignLights will be reviewing additional test data (In -situ and LM-80) and that their specifications are subject to change in the future. This interim list is not all-inclusive, but rather a compilation of fixtures that have been reviewed to date. Manufacturers wishing to have eligible products reviewed for inclusion in the list, should submit the following data:

- 1. Product Literature and Warranty**
- 2. LM 79 Test Report**
- 3. IES File**
4. LM 80 Test Report (required for retro-fit kits)
5. In-situ Temperature Test Report (required for retro-fit kits)

Submit LED Product to Kelly Cota, email: kelly.cota@us.ngrid.com
