

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	Zonal Lumen Density	Minimum Luminaire Efficacy	Allowable CCTs	Minimum CRI
Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	1,000 lm	0-90° =100% 80-90° <10%	50 lm/W	< 6500K	50
Outdoor Wall-Mounted Area Luminaires	300 lm	0-90° = 100% 80-90° <10%	40 lm/W	< 6500K	50
Parking Garage and Canopy Luminaires	2,000 lm	60-70° >20% 70-80° >15%	56 lm/W	< 6500K	50
Track or Mono-point Directional Fixtures	250 lm	0-90° >85%	30 lm/W	< 5000K	70
Refrigerated Case Lighting: Center-mounted fixtures End-mounted fixtures	>100 lm/ft >50 lm/ft	0°-80° >90%	35 lm/W	< 5000K	70
Linear Panels (2x2 Troffers only)	> 3000 lm	30°-60° ≥50%	55 lm/W	< 5000K	80
High-bay/Low-bay Fixtures	>10,000 lm	20°-50° ≥30%	60 lm/W	< 6500K	70
High-bay Aisle Fixtures	>10,000 lm	20°-50° ≥50% 0°-20° ≥30%	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	* All test reports required	50 lm/W	< 6500K	50
Outdoor Pole/Arm-Mounted Decorative Luminaires Retro-fit Kits	1,000 lm	* All test reports required	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

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

* CBCP stands for Center Beam Candle Power

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 for retro-fit kits)	<input type="checkbox"/>
In-situ Temperature Test report (required for retro-fit kits)	<input type="checkbox"/>