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

Required Test Reports	
Fixture Cutsheet	□
LM-79 Test report	□
IES File	□
LED LM-80 Test report (required for retro-fit kits)	□
In-situ Temperature Test report (required for retro-fit kits)	□

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

* CBCP stands for Center Beam Candle Power