

LDL LED Minimum Specification Requirements

LAMP LIST

Lamp Type	Applicable Lamps	CRI	Efficacy (lumens/watt)	Minimum Warranty	R9 Value	Power factor	THD	Target DUV and Tolerance	CCT	Off-State Power
Integral Directional LED	BR, ER, K, MR, PAR, R (Per ANSI C79.1-2002)	≥80	≤ 20/8": ≥40 > 20/8": ≥45	(3 Years) Warranties must cover material repair or replacement from the date of purpose and be a copy of the actual manufacturer luminaire warranty that is included in the packaging.	>Zero	≤5W: no min. PF >5W: ≥.70	NA	<3500K = 0.000 ± 0.006 >3500K = 0.001 ± 0.006	CCT on spec sheet must be plus or minus 6% of tested CCT.	NA
Integral Omnidirectional LED	A, BT, P, PS, S, T (per ANSI C79.1-2002)		<10W: ≥50 ≥ 10W: ≥55							
Integral Decorative LED	B, BA, C, CA, DC, F, G (per ANSI C79.1-2002)		≥40 LPW							
2' and 4' Linear Replacement Lamps	In Fixture		≥85							
	Bare Lamp		≥100							
	Uses existing ballast (NO RE-WIRING)	≥85	5 Years	≥.90						
CFL Replacement	Standard AND bypassing ballast (Line Voltage 120V)		<10W: ≥50 ≥ 10W: ≥55							
HID Replacements (screw-in)	Medium and Mogul base	≥70	≥70		Not Required		≤ 20%			

FIXTURE LIST

Luminaire Type	CRI	Efficacy (lumens/watt)	Minimum Warranty	R9 Value	Power factor	THD	Target DUV and Tolerance	CCT	Off-State Power
Bollards	≥65	≥ 50	(5 Years) Warranties must cover material repair or replacement from the date of purpose and be a copy of the actual manufacturer luminaire warranty that is included in the packaging.	Not Required	≥.90	≤ 20%	<3500 K = 0.000 ± 0.006 >3500 K = 0.001 ± 0.006	CCT on spec sheet must be plus or minus 6% of tested CCT.	Must be Zero Except Luminaires with integral occupancy, motion, photocontrols or individually addressable fixtures with external control and intelligence shall not exceed .5 Watts when in the off state.
Ceiling-mounted with diffusers	≥80	≥ 65							
Cove		≥ 45							
Fuel pump canopy	≥65	≥80							
Display/ Refrigerated case/ Sign Lighting	≥80	≥ 50							
HID Replacements	≥70	≥70							
HID Replacements (Decorative)	≥65	≥60							
High and Low Bay (Including Aisle)	≥70	≥ 80							
Linear Luminaires (Indirect/ Direct)		≥ 85							
Linear Luminaires (Direct)	≥80	≥ 80							
Linear Luminaires (Indirect)		≥ 90							
Linear panels (troffers)	≥80	≥85							
Linear panels (troffers) Retrofit Kits	≥80	≥85							
Outdoor Pole/Arm-Mounted – Decorative		≥ 60							
Outdoor Pole/Arm-Mounted Area and Roadway	≥65	≥70							
Outdoor Wall-Mounted Area									
Parking garage	≥65	≥75							
Portable Desk and Task		≥29							
Recessed, Surface and Pendant-Mounted Downlights	≥80	≥42							
Track or Mono-point directional heads		≥45							
Under cabinet	≥80	≥29							
Wall wash	≥80	≥ 45							
Interior Wall or Ceiling Mounted, Sconce (Decorative)	≥80	≥ 65							
Stairwell and Passageway	≥65	≥ 75							

The LDL LED Qualifying Products list was developed for Puget Sound Energy, Seattle City Light, Tacoma Power, Snohomish County PUD, Idaho Power, the Energy Trust of Oregon and the Bonneville Power Administration.