



**CHIPS** Nichia, Model # NFSL757D  
LM80 Test # SQETMN547004R, Jan 21, 2014

**LUMEN MAINTENANCE** Compares amount of light produced from a luminaire when new to the amount of light produced at a specific time in the future. Eg. if a luminaire produced 1000 lumens new and now produces 700 lumens of light after 30,000 hours, L70 would equal 30,000 hours.  
**L70** 200,000+ hours at 105 C°  
**L90** 90% of light output at 100,000 hours at 105 C°

Note: LED chip life is impacted by ambient temperature, dimming, case temperature and drive current. Reduction of these elements increases life and vice versa.

**REPLACEMENT** All Prudential Ltg LED fixtures are designed with field-replaceable LED modules and drivers. Visit [www.prulite.com](http://www.prulite.com) or consult factory for details.

**DRIVER** All drivers are Constant Current (Constant Voltage currently N/A, consult factory for large projects)

**DIMMING** Standard Osram drivers are current reduction style dimming from max output to 350mA. Below 350mA (PWM style) dimming is employed using > 1K herz frequency min. Dimming current is 15mA for 1% drivers and 10% of mA settings for 10% drivers (eg. 350mA dimming current would be 35mA).

**THD** <20% THD when loaded to a minimum of 60%  
Drivers sink a maximum of 6mA per driver

**WALL DIMMERS** Compatible with most 0-10V wall slide dimmers and direct 0-10V analog signal dimmers. (see list below)

**PROG** (optional) Programmable light output. Specify desired lumens or watts per linear foot. Min: 2.5 w/ft, consult factory for requests above 12 w/ft.

**PRUBIN** Binning LEDs at the chip level is an industry standard. Prudential Ltg's 'Prubin' takes binning to the next level, meticulously testing and labeling EVERY LED BOARD to +/- 25 lumens, +/- 50k CCT and +/- .004 Duv — while also separating positive from negative (pink or green hue) — allowing us to match color, hue and intensity throughout a project and provide consistent color (within a 2-step MacAdam ellipse) and lumen output.

**COLOR** Prudential Ltg. luminaires typical CRI is 85 to 89, R9 is 25 to 29. Fixtures with identical CCT and CRI may still appear to be different colors because of Duv. Duv defines how far an LED light source deviates from the black body source. +Duv has a green hue, -Duv is pinkish. Our exclusive Prubin process bins +/- .004 Duv ensuring a consistency in hue (as well as color and brightness).

**WARRANTY** Single-source, 5 year limited warranty covers standard components and construction

| DRIVERS                      | BRAND    | MODEL         | WATTS            | CODE       |
|------------------------------|----------|---------------|------------------|------------|
| 0-10V, 10% Dimming           | Osram    | 79397 (98-99) | 30, 50, 48w      | DM10       |
| 0-10V, 1% Dimming            | Osram    | 79466 (67-68) | 30, 50, 48w      | DM01       |
| STEP, 100-50-Off             | Osram    | 79376 (77-78) | 30, 50w          | STEP       |
| Hi-lume 3-wire 1% Dimming    | Lutron   | A Series      | 40w              | DML        |
| DALI .1% Dimming             | Crestron | GLD-LED-50    | 50, 100w         | DMD        |
| Emergency (30' remote range) | Iota     | ILB-CP Series | 5w, 7w, 10w, 12w | EML or EMH |
| Emergency                    | Bodine   | BSL310        | 4w               | EML        |

Drivers and Sensors are linked to web product pages

| SENSORS                | BRAND       | MODEL    | TYPE          | CODE | COMPATIBLE DRIVER      |
|------------------------|-------------|----------|---------------|------|------------------------|
| Daylight Sensor (DL)   | Phillips    | LRL 1220 | Daylight      | DL   | Dimming 0-10V          |
| Occupancy Sensor (OCO) | Wattstopper | FS-PP    | PIR Occupancy | OCO  | Dimming or non-dimming |

Daylight & Occupancy Sensors (DL + OCO) Consult factory

| DIMMERS          | MODEL               | TYPE  |
|------------------|---------------------|-------|
| Leviton          | IP710-DLX           | 0-10V |
| Lutron           | DVTV-XX             | 0-10V |
| Sylvania         | ELMC-SL3W-TVWBX/UNV | 0-10V |
| Encelium EMS     | EN-LCM-1R10V-GB2-BK | 0-10V |
| Wattstopper      | ADF-120277          | 0-10V |
| Synergy Controls | ISD BC              | 0-10V |

Note: Chart at left is for Osram 0-10V dimmers. The absence of a dimmer from this chart does not necessarily imply incompatibility. Most 0-10v dimmers are compatible with Osram drivers.

