

CHIPS Nichia, Model # NFSL757D

LM80 Test # SQETMN547004R, Jan 21, 2014 - DOWNLOAD HERE

**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

all mining, case temperature and drive current. Reduction

elements increases life and vice versa.

REPLACEMENT All Prudential Ltg LED fixtures are designed with field-replaceable

LED modules and drivers.

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 is15mA for 1% drivers and 10% of mA settings for 10% drivers (eg. 350mA dimming current would be 35mA). See specific driver

spec sheets for other available drivers listed below.

THD <20% THD when loaded to a minimum of 60% Drivers sink a

maximum of 1mA per driver

WALL DIMMERS Compatible with most 0-10V wall slide dimmers and direct 0-10V wall slide dimmers are discount for the direct of the direc

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.

WARRANTY Single-source, 5 year limited warranty covers standard

components and construction

COLOR Prudential Ltg. luminaires typical CRI is 82 to 87, R9 is 15 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).

BINNING Standard binning (all Prudential LED boards) includes testing at the chip level and board integration to provide consistent color

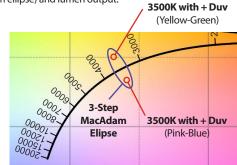
temperature within a 3-step MacAdam ellipse. +/- 100 lumens,

+/- 100k CCT and +/- .004 Duv.

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

throughout a project and provide consistent color (within a 2-ste MacAdam ellipse) and lumen output.



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.

Drivers are linked to manufacturer spec sheets	
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DRIVERS	BRAND	MODEL	PART#	WATTS	CODE
0-10v, 1% Dimming	Universal	Everline	D10CC30UNVTW	30, 55, 80w	DM01
0-10v, 10% Dimming	Osram	Optotronic	79397 (98-99)	30, 48, 50w	DM10 & ND
STEP, 100-50-Off	Osram	Optotronic	79377 (78)	30, 50w	STEP
EcoSystem 5%	Lutron	5 Series	Consult factory	5-75w	LDE5
EcoSystem 1% Soft Fade to Black	Lutron	Hi-Lume	Consult factory		LDE1
Hi-Lume 1%, 3 Wire	Lutron	Hi-Lume	Consult factory		L3DA
1% 0-10v	EldoLED	ECOdrive	ECO566L1	50w	ECO
1% DALI	EldoLED	ECOdrive	ECO565L2	50w	ECDA
0.1% 0-10v, Dim to Dark	EldoLED	SOLOdrive	SLO561M2	50w	SOLO
0.1% DALI, Dim to Dark	EldoLED	SOLOdrive	SLO560M1	50w	SODA
Emergency	Bodine	BSL310		4w	EML
Emergency (30' remote range)	lota	ILB-CP Series	ILB-2412	5w, 7w, 10w, 12w	EML or EMH



CHIPS Samsung, Model # LM561B

LM80 Test # SLED-13-007, Oct 31, 2013 - DOWNLOAD HERE

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L70 200,000+ hours at 85 C°

L90 90% of light output at 50,000+ hours at 85 C°

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MacAdam

Elipse

3500K with + Duv (Yellow-Green)

3500K with + Duv

(Pink-Blue)

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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

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