



Details

Specifications for all LED luminaires except:
BionicPro



PRUDENTIAL LTG.

PRULITE.COM 213.746.0360



CHIPS

Nichia, Model #NFSL757DLM80 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

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.

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). 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 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.

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 MacAdams ellipse, with +/- 5% lumen output range and +/- .004 Duv.

PRUBIN™

(OPTIONAL)

Prudential Ltg's exclusive 'job binning' method that ensures color temperature consistency across all luminaires on a project. Meticulously testing and labeling EVERY LED BOARD to +/- 25 lumens, +/- 50k CCT and +/- .004 Duv — while also separating positive from negative — allows us to match color, hue and intensity throughout a project and provides a consistent color temperature within a 2-step MacAdams ellipse.

COLOR

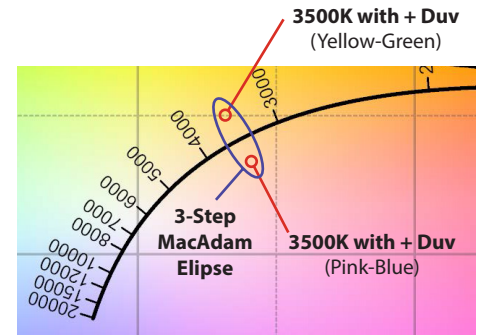
See next page for detailed CRI specs. Fixtures with identical CCT and CRI may still appear to be different colors because of Duv. Duv defines how far an LED light source deviates from the black body source. +Duv has a green hue, -Duv is pinkish. Our exclusive Prubin process bins +/- .004 Duv ensuring a consistency in hue (as well as color and brightness).

WARRANTY

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

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

DRIVERS	BRAND	MODEL	PART #	WATTS	CODE
0-10v, 1% Dimming	Osram	Optotronic	G2 51645 (47-48)	30, 48, 50, 85w	DM01
0-10v, 10% Dimming	Osram	Optotronic	79397 (98-99)	30, 48, 50, 85w	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
1% 0-10v	EldoLED	ECOdrive	ECO566L1	50w	ECO
1% DALI	EldoLED	ECOdrive	ECO565L2	50w	ECDA
0.1% 0-10v, Dim to Dark	EldoLED	SOLOdrive	SOLO566U	50w	SOLO
0.1% DALI, Dim to Dark	EldoLED	SOLOdrive	SOLO565U	50w	SODA
Emergency	Bodine	BSL310		4w	EML
Emergency (30' remote range)	Iota	ILB-CP Series	ILB-2412	5w, 7w, 10w, 12w	EML or EMH



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LED Details

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12-10-2019



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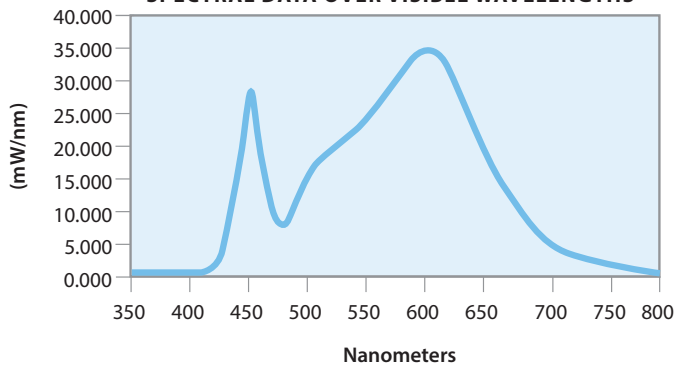
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80 CRI

VALUE	RESULT	RA	R1	R2	R3	R4
CRI	84	84	82	91	96	83
R9	11	R5	R6	R7	R8	R9
Duv	0.001	83	88	85	63	11
-x	0.408	R10	R11	R12	R13	R14
-y	0.390	80	83	72	84	98

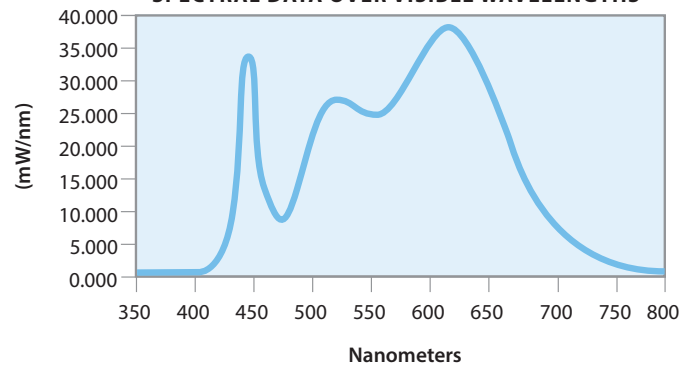
SPECTRAL DATA OVER VISIBLE WAVELENGTHS



90 CRI

VALUE	RESULT	RA	R1	R2	R3	R4
CRI	96	94	100	98	95	99
R9	69	R5	R6	R7	R8	R9
Duv	0.000	98	91	89	80	69
-x	0.407	R10	R11	R12	R13	R14
-y	0.392	95	91	87	98	98

SPECTRAL DATA OVER VISIBLE WAVELENGTHS



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