

General LED illumination for health care facilities, educational institutions, airports, commercial offices, retail, and many other applications.

- Twilite series proprietary light lock system prevents light leakage at both ends of lamp shield. Steel side reflectors intersect with housing to ensure seamless appearance
- Lamp shield pivots down for easy LED maintenance
- Post-painted with a 93% reflective white coat to improve fixture efficacy
- Lamp shield is 60% perforated white steel mesh, backed with high-transmission white acrylic diffuser for optimum light efficiency, maximum glare control and lamp image prevention
- Rated at 85+ CRI and available in multiple CCTs
- Life tested to ensure light output up to 65,000 hours of operation to L70
- Tested to LM-79 and LM-80 standards
- Dimmable down to 1% with compatible dimming systems

OPTICS - Diffuser is composed of a two-part overlay system that includes a thin frosted acrylic sheet and a steel perforated lamp shield. The system works together to gather the light scattered by the LED chips and delivers uniform voluminous light into any environment. The lens can be easily removed without the use of tools in case maintenance is required.

DURABILITY - Heavy-duty 20-gauge steel housing is engineered for maximum strength. Corners interlock to prevent aesthetic damage to fixture. All sides and corners are turned in and hemmed to remove sharp edges for safe handling and installation.

PERFORMANCE - The OD-LED lay-in fixtures meet high efficacy codes in compliance with more than 75 LPW. The OD-LED powered lighting technologies offer a higher return on investment than any other lighting technology. The light engines found in the OD-LED are rated at 85+ CRI and available in multiple CCTs: 3000K, 3500K, 4000K and 5000K. All LEDs and LED fixtures are rated and tested to LM-79 and LM-80 standards. The LEDs are also binned to a 3-step MacAdam ellipses to achieve consistent color from fixture to fixture.

THERMAL MANAGEMENT - LED light engines are attached directly to the housing and keep LED engines cool. Our advanced thermal management system allows the light output of the LED engines to be maintained at 70% of initial lumens at 65,000 hours of operation.

ELECTRICAL - Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120-277V input, produce less than 20% THD, and have a power factor of 90 to 1.00

MAINTENANCE - LED engines and driver can be accessed through the bottom by removing the lamp shield and center reflector. LED engines are removable and upgradable even after fixture installation. Fixture can be regularly and safely wiped down to ensure optimal fixture

- LED lighting technology offers the highest return on initial investment over the lifetime of the fixture
- LEDs are individually spaced at small intervals to eliminate any dark spots when combined with our diffusers
- Emergency battery back-up comes pre-installed on the fixture and emergency push button is installed on the fixture for easy access and aesthetics.
- LED light engine is completely removable and upgradable
- · Four corner tie points are standard for safety wire support when required and built-in earthquake clips standard
- Fits into standard T-bar sizes including 5/8th, 3/8th, and slot T
- Same-day shipping on most options (Consult factory)

DIMMING - The OD-LED comes standard with **DIM10**, 0-10V dimming on either 120 or 277V. Dimmable down to 1% of initial lumens. Also available in Lutron dimming options. Consult factory for dimmer compatibility. **LUTH** - Lutron Hilume Dimming down to 1% compatible with 3 wire and EcoSystem Controls available on all fixtures up to 50 Watts. LUT2W - Lutron 2 Wire Dimming down to 1% compatible with 2 wire and Forward Phase Control Systems available on all fixtures up to 50 Watts. LUTFTB - Lutron Hilume Fade to Black Dimming down to 1% compatible with EcoSystem Controls available on all fixtures up to 75 Watts. DIMST - Step Dimming allows fixtures to be turned on at 100% or 50% is available for fixtures up to 50 Watts. **ELD010.1** - EldoLED SoloDrive 0-10V. Dimming down to .1%. available on all fixtures up to 100 Watts. **ELDODALI** - EldoLED PowerDrive 0-10V. Dimming down to .1%. available on all fixtures up to 100 Watts. **ELDODMX** - EldoLED PowerDrive Dimming down to .1%. available on all fixtures up to 100 Watts. Please see EldoLED website for wiring diagrams and a list of compatible DMX and Dali control systems.

OPTIONS - Fixtures can be shipped pre-installed with daylight harvesting controls, occupancy sensors, and/or power pack. Available manufacturer options include Leviton, Wattstopper, Hubble Automation, and others.

QUALITY CONTROL - Every fixture is turned on and rigorously tested by our QC Department before shipping

WARRANTY - Limited 5 Year Warranty



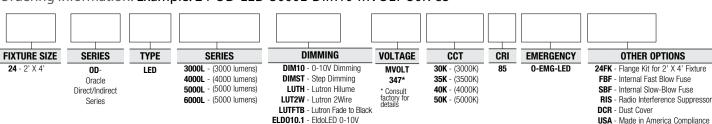




CALCULATED

65.000 HRS

Ordering Information: Example: 24-OD-LED-3000L-DIM10-MVOLT-30K-85



ELDODALI - EIdoLED DALI **ELDODMX** - EldoLED DMX

CONTROL OPTIONS

EASYFIT

Controls Options to be Installed on the Fixture

Self-powered sensors and switches, combined with LED fixture controllers and a commissioning tool, permit easy configuration, intelligent local control, and seamless integration into building automation systems.



LEDRU LED Relay Zone Controller 0-10V



LEDDU LED Zone Controller 0-10V

Controls Provided by EnOcean



EOSCU Occupancy Sensor Ceiling Mount



ESRPU/ EDRPU Wall Switches



EOSWU Occupancy Sensor Wall Mount



LEVITON Wall Switches 902 MHz category



ELLSU Daylight Sensor Ceiling Mount



NWC 300U Navigan Wireless Commissioner



Controls Installed on the Fixture



LMFC-011

Fixture Will be Shipped Legrand Wattstopper DLM Enabled with LMFC-011 Module Controller Installed on the Fixture. Fixtures will be compatible with Legrand Wattstopper DLM Load Controllers, DLM Sensors, DLM Switches, DLM Remote Control, and DLM Configuration tool.





LMSW-105 LMDM-101

Remote



LMRH-105





LMCT-100-2

Plug Load Controllers



LMPL-101



LMPL-201

Sensors



LMDC-100

LMLS-400 LMLS-500



FD-301

Fixture Will be Shipped with Legrand Wattstopper FD-301 (Integrated Daylight Dimming Photosensor) installed and FS-PP-V2 Fixture Power Pack.



FS-PP-V2



Fixture Will be Shipped with Legrand Wattstopper FSP-202 (multi-level control based on motion and/or daylight contribution) installed



FSP-212



Fixture Will be Shipped with Legrand Wattstopper FSP-212 (multi-level control based on motion and/or daylight contribution) installed.

CONTROL OPTIONS

Philips EasySense sensors provide luminaire-level control with Occupancy sensing, Daylight harvesting, and Field task tuning.

Controls Installed on the Fixture



SRB

Fixture will be Shipped Sensor Ready with SRB Bridge . Fixture will be Compatible with EasySense Sensor SNS200-CMP which can be Added in the Field for Remote Mounting. Fixture May Only be Controlled with Philips Field App or Wireless Switches or any 0-10V. Wall Box Dimmer.



Fixture Will be Shipped Sensor Ready with PHILIPS SRB Bridge and EasySense SNS200-CMP Sensor which is Included to be Remote Mounted. Fixture May Only be Controlled with Philips Field App or Wireless Switches or any 0-10V. Wall Box Dimmer.

Controls Provided by Philips





ZBT-S1AWH

ZBT-S2AWH

Illumra Wireless Switches



Philips Field App

PHILIPS-XSR + SNS200-CMP

Fixture will be Shipped Sensor Ready with PHILIPS-XSR driver and EasySense SNS200-

CMP Sensor which is Included to be Remote

Mounted. Fixture May Only be Controlled with

Philips Field App or Wireless Switches

Enlighted Smart Sensors features digital motion, ambient light, and temperature sensing, the device provides autonomous fixture-level control

Controls Installed on the Fixture



PHILIPS-XSR + FS-D22

Fixture Will be Shipped with Enlighted FS-D22 Two-wire sensor Sensor installed and PHILIPS-XSR driver. Fixture May be Controlled with Enlighted Gateway, Energy Manager or Enlighted Room Controller WS-2-00



Fixture Will be Shipped Sensor Ready with Enlighted CU-E3-1R Control Unit Power Pack. Fixture will be be compatible with Enlighted SU-4E-00 Sensor which can be Added in the Field Remote Mounting. Fixture May be Controlled with Enlighted Gateway, Energy Manager or Enlighted Room Controller WS-2-00



Fixture Will be Shipped with Enlighted SU-4E-00 Sensor installed and Enlighted CU-E3-1R Control Unit Power Pack. Fixture May be Controlled with Enlighted Gateway, Energy Manager or Enlighted Room Controller WS-2-00



PHILIPS-XSR

Fixture Will be Shipped Sensor Ready with PHILIPS-XSR driver. Fixtures will be be compatible with Enlighted CS-D2 Two-wire sensor which can be Added in the Field for Remote Mounting. Fixture May be Controlled with Enlighted Gateway, Energy Manager or Enlighted Room Controller WS-2-00.

Controls Provided by Enlighted

WS-2-00 Enlighted Room Controller





Gateway

Switch



Programmable with Laptop



PoE Network Switch



CONTROL OPTIONS

OLUTRON

Controls Installed on the Fixture



FCJS-010 Individual Fixture Control



FCJS-ECO Individual Fixture Control

Fixture Will be Shipped LUTRON VIVE Enabled with LUTRON FCJS-010 0-10V Control Module Installed on the Fixture. Fixtures will be compatible with Lutron FC-SENSOR Occupancy/ Daylight Sensor or FC-VSENSOR Vacancy/Daylight Sensor which can be Added in the Field for Remote Mounting. Fixture May be Controlled with any Vive control systems. Fixtures must be ordered with a 0-10V. Driver.

Fixture Will be Shipped LUTRON VIVE Enabled with LUTRON FCJS-ECO EcoSystem Control Module Control Module Installed on the Fixture. Fixtures will be compatible with Lutron FC-SENSOR Occupancy/Daylight Sensor or FC-VSENSOR Vacancy/Daylight Sensor which can be Added in the Field for Remote Mounting. Fixture May be Controlled with any Vive control systems. Fixtures must be ordered with a Lutron Driver.





Fixture will be shipped with Leviton ZL027-NOW power control module installed on the fixture. Fixtures will be compatible with Leviton ZL00J-D0W sensor control module which can be added in the field for remote mounting. Fixture must be controlled with Leviton Intellect Keypad Room Controller, or Leviton Neuron App.



ZL027-N0W Power control module



ZL00J-D0W Sensor control module

Leviton Keypad



ZLDNK-2W ZLDNK-1W



ZLDNK-4W



Intellect™ Keypad Room Controller (Required)

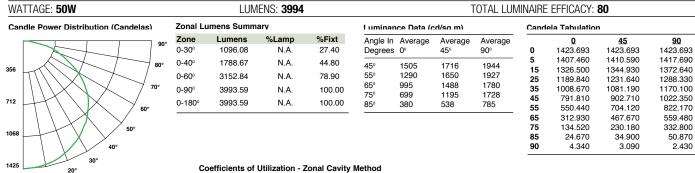


Neuron App

LED

PHOTOMETRY DATA

24-OD-LED-4000L-DIM10-120-40K



Spacing Criteria

0-180 : 1.18 90-270 : 1.30 Diagonal : 1.36

EFFICACY: **80** LM/W

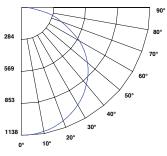
Effective Floor Cavity Reflectance 20% = PF

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	RC RW	70%	50%	0% 30%	10%	70%	70 50%	0% 30%	10%	50%	50% 30%	10%	50%	30% 30%	10%	50%	10% 30%	10%	0% 0%
ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9 10	119 109 99 90 82 76 70 65 60 56 53	119 104 90 79 70 63 57 51 47 43 40	119 100 84 71 62 54 48 42 38 35 32	119 96 78 65 55 47 41 36 32 29 26	116 106 96 88 80 74 68 63 59 55 52	116 102 89 78 69 62 56 50 46 42 39	116 98 82 70 61 53 47 42 38 34 31	116 94 77 64 54 47 41 36 32 29 26	111 97 85 75 66 60 54 49 45 41 38	111 94 80 68 59 52 46 41 37 34 31	111 91 75 63 54 46 41 36 32 29 26	106 93 82 72 64 58 52 47 43 40 37	106 91 77 67 58 51 45 41 37 33 31	106 88 73 62 53 46 40 36 32 29 26	102 90 79 70 62 56 50 46 42 39 36	102 88 75 65 57 50 45 40 36 33 30	102 86 72 61 52 45 40 35 32 29 26	100 84 70 59 50 43 38 33 30 27 24
	RC -	Ceiling (Cavity F	Reflecta	ince	RW - Wall Reflectance													

24-0D-LED-3000L

WATTAGE: 37.3 LUMENS: 3206 TOTAL LUMINAIRE EFFICACY: 86

Candle Power Distribution (Candelas)



Zonal Lumens Summary												
Lumens	%Lamp	%Fixt										
876.39	27.30	27.30										
1432.46	44.70	44.70										
2529.05	78.90	78.90										
3205.91	100.00	100.00										
3205.91	100.00	100.00										
	Lumens 876.39 1432.46 2529.05 3205.91	Lumens %Lamp 876.39 27.30 1432.46 44.70 2529.05 78.90 3205.91 100.00										

Angle In	Average	Average	Averag		
Degrees	O°	45°	90°		
45°	1206	1398	1593		
55°	1025	1347	1600		
65°	786	1255	1523		
75⁰	566	1021	1500		
85⁰	294	472	701		

Candela Tabulation										
	<u>0</u>	<u>45</u>	90							
0	1137.561	1137.561	1137.561							
5	1127.790	1131.200	1135.440							
15	1066.910	1085.070	1105.680							
25	957.990	998.290	1044.050							
35	810.820	878.970	954.350							
45	634.250	735.570	837.880							
55	437.570	574.840	682.790							
65	247.260	394.490	478.700							
75	108.940	196.630	288.780							
85	19.080	30.620	45.440							
90	3.490	2.480	1.860							

Spacing Criteria

0-180 : 1.18 90-270 : 1.32 Diagonal : 1.38

EFFICACY: **86** LM/W

Coefficients of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 20% = PF

	RC		8	0%			70	0%			50%			30%			10%		0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
M CAVITY RATIO	0 1 2 3 4 5 6 7 8	119 109 99 90 82 76 70 65 60	119 104 91 79 70 63 57 51 47	119 100 84 71 61 54 48 42 38	119 96 78 65 55 47 41 36 32	116 106 96 88 80 74 68 63 59	116 102 89 78 69 62 56 50 46	116 98 82 70 61 53 47 42 38	116 94 77 64 54 47 41 36 32	111 97 85 75 66 60 54 49 45	111 94 80 68 59 52 46 41 37	111 91 75 63 54 46 41 36 32	106 93 82 72 64 58 52 47 43	106 91 77 66 58 51 45 41 37	106 88 73 62 53 46 40 36 32	102 90 79 69 62 56 50 46 42	102 88 75 65 57 50 44 40 36	102 86 72 61 52 45 40 35 32	100 84 70 59 50 43 38 33 30
<u>8</u> 00	9 10	56 53	43 40	35 32	29 26	55 52	42 39	34 31	29 26	41 38	34 31	29 26	40 37	33 31	29 26	39 36	33 30	29 26	27 24
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RC - Ceiling Cavity Reflectance RW - Wall Reflectance