

LED SQUARE™ DL/5-950

LED
0-020

recessed LED downlight

FULLY SUSTAINABLE – FULLY SUSTAINABLE – FULLY SUSTAINABLE – FULLY SUSTAINABLE – FULLY SUSTAINABLE – FULLY SUSTAINABLE – FULLY SUSTAINABLE

FEATURES

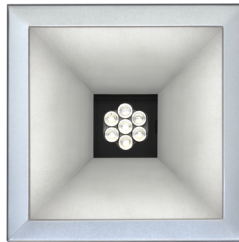
LED Square DL/5-950 is a 5" square downlight employing LED (light emitting diode) technology. Fixture is only 5 7/8" deep and provides a shielding angle of 40°. Precise reflector design minimizes aperture brightness and virtually eliminates the inter-reflections inherent with square apertures. Patent pending.

Features of the integral 25-watt, solid-state light engine include

- white colors: nominal 3000°K warm white with a CRI of 85; and nominal 4700°K cool white, with a CRI of 80
- efficacy: 952 lumens with 3000°K color or 1019 lumens with 4700°K color – over twice the efficacy of incandescent
- long life: 50,000 hours at 70% output
- emergency lighting option: remote emergency battery pack kit available – a critical feature for corridors and other circulation spaces
- durability: far more resistant to vibration than incandescent or fluorescent
- operational range: tolerates temperatures as low as -30°C
- thermal efficiency: over 90% of electrical energy converted to light and virtually no heat projected below
- UV free: no UV emissions to jeopardize fabrics, paper or paintings
- environmentally safe: no mercury to create end-of-life disposal problems

LED Square DL/5-950 reflectors are available with optional glass shields for applications where protection is required by code.

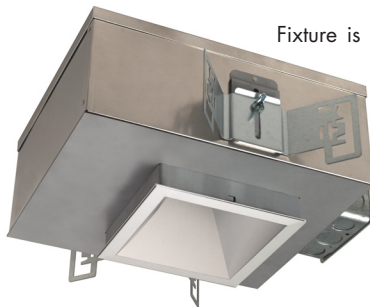
Reflectors are available in slightly diffuse clear natural aluminum or champagne gold Alzak®. Other reflector finishes are available on special order.




LED Square DL/5-950 includes a pair of mounting bars (3/4" x 27" C channel). Specialty bars for wood joist and T-bar installations are also available.

APPLICATIONS

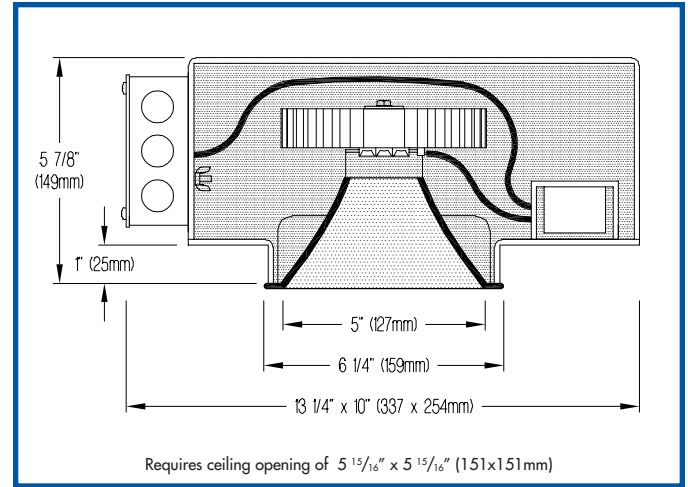
Fixture is recommended for downlighting in commercial, retail and residential spaces.



Fixture is  listed as inherently safe (not requiring a thermal protector) and suitable for Damp Location. Fixture is approved for ten #12 wire 75°C branch circuit wiring and suitable for use in a fire rated ceiling. Removal of the reflector allows access to the junction box.

FULLY SUSTAINABLE

LED Square DL/5-950 is fully sustainable. Both critical components – the light engine (diode array) and the driver (power conditioner) – can be replaced through the aperture with a screwdriver. Both components are, and will remain, available from Edison Price Lighting.



PRODUCT CODE

For complete product code, list basic unit and select one item from each following box.

Basic Unit	LED-SQ-DL/5-950
Light Engine Color	
3000°K warm white	3000
4700°K daylight white	4700
Voltage	
120 volt service	120
277 volt service	277
Reflector and Flange Color	Overlap
Slightly diffuse clear	VOL
Champagne gold	GOL
Other reflector finishes are available on special order.	
Standard reflector flange continues reflector finish. White painted flanges and custom painted flanges are available on special order. Add WF (white flange) or CCF (custom color flange).	

Example: LED-SQ-DL/5-950 3000 120 VOL is the complete product code for a fixture prepared for 3000°K warm white light engine color and 120-volt service, with a clear overlap reflector.

OPTIONS

Specify by adding to the basic unit.

- Dimmable** (to 1% light output). Available with 3000°K light engine only; not available with 4700°K – DM
- Remote emergency battery pack** including
 - 1) battery to be mounted on top of ceiling adjacent to fixture and
 - 2) plate with test switch and light to be mounted to ceiling adjacent to fixture
 For accessible ceilings only. Outdoor application limited by operational range of 32°F – 122°F – REMX
- 1/8" (3mm) thick **clear glass shield**, spring-mounted within reflector – GS
- 1/8" (3mm) thick **prismatic lens**, spring-mounted within reflector – WLS

► Light engines not yet available for 347-volt service.



LED SQUARE DL/5-950



PHOTOMETRIC REPORT (ABSOLUTE PHOTOMETRY) – 3000°K COLOR

LTL Prorated from Luminaire Testing Laboratory Reports No. 12761 and 10554. Original test reports furnished upon request.

Luminaire recessed LED square downlight with aluminum reflector
 Lamp Lamina TitanTurbo TruColor LED Light Engine, 3000°K CCT.
 Spacing Criteria 0.8

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0 - 30°	523	76.2
0 - 40°	664	96.6
0 - 60°	687	100.0
0 - 90°	687	100.0
90 -180°	0	0.0
0 -180°	687	100.0

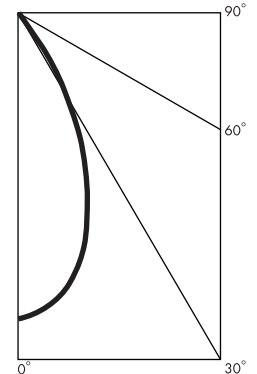
LUMINANCE DATA (Candela/m²)

Vertical Angle	Average 0° Longitude	Average 45° Longitude	Average 90° Longitude
45	221	5298	189
55	156	156	156
65	0	14	0
75	0	0	0
85	0	0	0

To convert cd/m² to footlamberts, multiply by 0.2919.

CANDLEPOWER DISTRIBUTION (Candela)

Vertical Angle	Horizontal Angle				
	0	22.5	45.0	67.5	90.0
0	959	959	959	959	959
5	935	932	928	922	921
15	778	770	770	767	760
25	483	500	505	494	487
35	178	220	304	227	194
45	2	4	60	4	2
55	2	2	2	2	2
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0



DRIVER INFORMATION

Voltage	120	277
Input Watts	25	25
Input Current (A)	0.22	0.1*
Maximum Input Current (A)	0.5	n/a
Output Current (constant) (mA)	2000	2000
Output Voltage	9-15	9-15
Power Factor (%)	>90	>90
Operating Temperature (°F)	-22 to 140	-22 to 140

*estimated

LED LUMEN DATA

LED – Heat Sink Lumens ¹	952
LED Lumens Per Watt ²	38
Luminaire Lumens ³	687
Luminaire Lumens Per Watt ⁴	27

1. Actual output of LED light engine mounted on heat sink measured at thermal equilibrium at 25°C ambient temperature.
2. Efficacy of LED (with heat sink), i.e. LED-Heat Sink Lumens divided by total system input wattage.
3. Actual output of the LED luminaire.
4. Total luminaire efficacy, i.e. lumens delivered from the luminaire divided by total luminaire input wattage.

PHOTOMETRIC REPORT (ABSOLUTE PHOTOMETRY) – 4700°K COLOR

LTL Prorated from Luminaire Testing Laboratory Reports No. 12631 and 10554. Original test reports furnished upon request.

Luminaire recessed LED square downlight with aluminum reflector
 Lamp Lamina TitanTurbo Daylight White LED Light Engine, 4700°K CCT.
 Spacing Criteria 0.8

DRIVER INFORMATION

Voltage	120	277
Input Watts	25	25
Input Current (A)	0.22	0.1*
Maximum Input Current (A)	0.5	n/a
Output Current (constant) (mA)	2450	2450
Output Voltage	9-15	9-15
Power Factor (%)	>90	>90
Operating Temperature (°F)	-22 to 140	-22 to 140

*estimated

LED LUMEN DATA

LED – Heat Sink Lumens ¹	1019
LED Lumens Per Watt ²	41
Luminaire Lumens ³	735
Luminaire Lumens Per Watt ⁴	29

1. Actual output of LED light engine mounted on heat sink measured at thermal equilibrium at 25°C ambient temperature.
2. Efficacy of LED (with heat sink), i.e. LED-Heat Sink Lumens divided by total system input wattage.
3. Actual output of the LED luminaire.
4. Total luminaire efficacy, i.e. lumens delivered from the luminaire divided by total luminaire input wattage.