Commercial GEN1 Downlight

WISDOM LIGHT



The WL-DL downlight series delivers superior performance and energy efficiency. The high performance luminaire offers 800 up to 4000 lumens with color temperatures of 3000K,3500K,4000K and 5000K at 90 CRI. Standard driver offers universal (120-277VAC) and 0-10V dimming from 5%~100% (Dim to off). This product is 3-watt and 3-CCT select, making it ideal for low to medium ceiling heights in retail, hospitality, and commercial applications.

CCT Select | Wattage Select | 5 YEAR WARRANTY | Intertek | WET LOCATION | ENERGY STAR

Product Features

- Available in 4'',6'',8'' & 10''
  High luminous efficiency: 100Lm/W (CRI>90)
- Standard SDCM≤5 (single CCT/MIX≤5)
- 2 KV surge protection included
- 120-277V option available with 0-10V dimming (5%)
- Innovative Low Voltage Design: DC 36V / DC 12V system for safer operation, reduced energy consumption, and increased lifespan, ideal for both home and office environments
- Type IC & Non-IC,wet Location
- New construction frames available
- IP44 Rated: Offers protection from dust and water splashes for reliable performance

Commercial Downlight		Size	Wattage Select	Max OutputLumen	Nominal Efficacy	CCT Select	Input Voltage	Dimmable	Flicker Rate	UGR	CRI	Beam Angle
Non-IC rated	WL-DL04IN09WDUV	4"	9W	900lm	100lm/W	3000K 3500K 4000K	AC120-277V	0-10V (5%-100%)	<5%	<28	>90	100°
	WL-DL04IN12WDUV		12W	1200lm								
	WL-DL04IN15WDUV		15W	1500lm								
	WL-DL06IN12WDUV	6"	12W	1200lm								
	WL-DL06IN18WDUV		18W	1800lm								
	WL-DL06IN24WDUV		24W	2400lm								
	WL-DL08IN12WDUV	8"	12W	1200lm								
	WL-DL08IN18WDUV		18W	1800lm								
	WL-DL08IN24WDUV		24W	2400lm								
	WL-DL08IN20WDUV	8"	20W	2000lm								
	WL-DL08IN25WDUV		25W	2500lm								
	WL-DL08IN30WDUV		30W	3000lm								
	WL-DL10IN20WDUV	10"	20W	2000lm								
	WL-DL10IN30WDUV		30W	3000lm								
	WL-DL10IN40WDUV		40W	4000lm								
IC rated	WL-DL04IN8WDUV	4"	8W	800lm								
	WL-DL06IN12WDUV	6"	12W	1200lm								
	WL-DL08IN20WDUV	8"	20W	2000lm								

- Available Options: AC 120-347V as option (MOQ: 500 pcs),
- DC 36V as option,
- DC 12V as option,
- 4kV Surge Protection as option.

Tel. +86 755 222 16523
Email. sales@wisdomled.net
www.wisdomled.com

Contact us for the latest product information.

Commercial GEN1 Downlight

WISDOM LIGHT

Order Guide

Sample Model#: Commercial-**G1**WL-DL04IN09WDUV(30K-35K-40K)-T

Commercial G1	WL-DL						
Luminaire ID	**Series**	**Size**	**Wattage**	**Dimming**	**Voltage**	**CCT**	**Additional Function**
Commercial G1= Gen 1 Commercial Downlight	WL-DL= Gen 1 Commercial Downlight	04IN=4Inch 06IN=6Inch 08IN=8Inch 08IN=8Inch 010IN=10Inch	08=8W 09=9W 12=12W 15=15W 12=12W 18=18W 24=24W 12=12W 18=18W 24=24W 20=20W 25=25W 30=30W 20=20W 30=30W 40=40W	D=0-10V Dimming	UV=120-277V	(30K-35K-40K)-T= 3000K/3500K/4000K Select	Blank= Non MS=Motion sensor EM =Emergency Backup

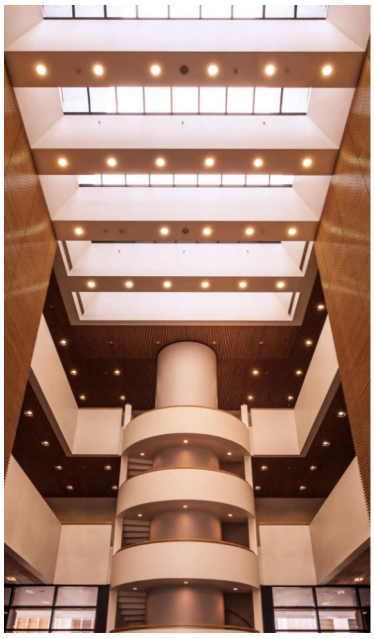
Application - Application in office,Workshop,Shop,School.



4 Inch



6 Inch



10 Inch



8 Inch



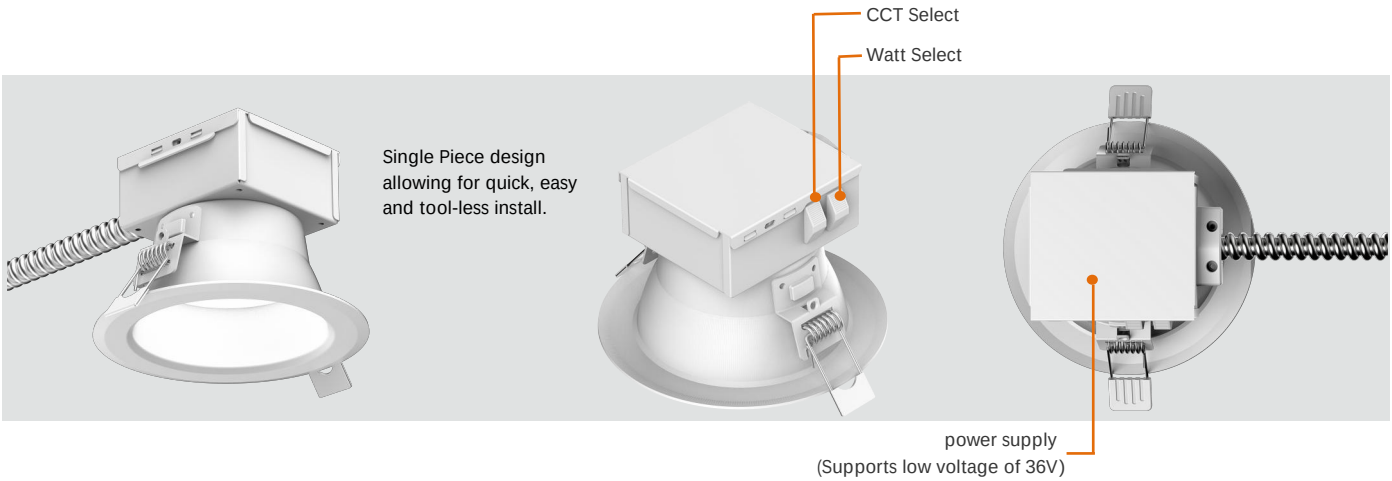
8 Inch

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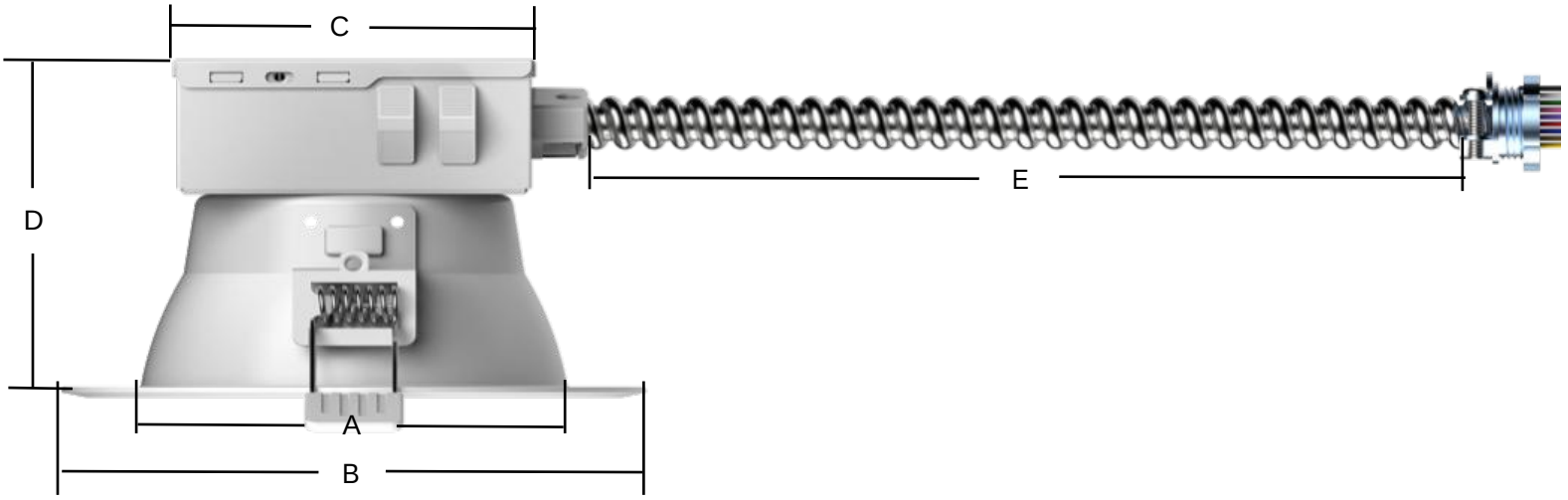
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Commercial GEN1 Downlight

WISDOM LIGHT



DIMENSIONS



APERTURE	CEILING CUTOUT MIN. – MAX.
4''	4.72''-5.12'' (120mm-130mm)
6''	5.83''-7.28'' (148-185mm)
8''	7.68''-9.06'' (195-230mm)
10''	7.68''-9.06'' (195-230mm)

NOMINALA PERTURE	A ApertureDiameter	B Overall Trim Diameter	C Overall Module Power Box	D Overall Height (Assembled)	E Flexible Conduit
4''	4.08''(103.7mm)	5.6''(142.3mm)	3.47''(88.2mm)	3.74''(95.2mm)	11.81''(300mm)
6''	5.67''(144.10mm)	7.91''(200.8mm)	3.47''(88.2mm)	4.58''(116.29mm)	11.81''(300mm)
8''	7.39''(187.65mm)	9.91''(251.59mm)	3.47''(88.2mm)	5.15''(130.9mm)	11.81''(300mm)
10''	7.39''(187.65mm)	10.5''(266.7mm)	3.47''(88.2mm)	5.15''(130.9mm)	11.81''(300mm)

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ACCESSORIES (Available Accessories)



Silver Trim
Suitable for 4"/6"/8"



White Trim
Suitable for 4"/6"/8"



Black Trim
Suitable for 4"/6"/8"



Quick connect
j -box



Test switch &
Emergency indicator
light



Emergency backup



Wiring Box
Work with Frame Kit,optional



Frame Kit
120mm/150mm/200mm
new construction
plate with hange bar



10" Trim Ring



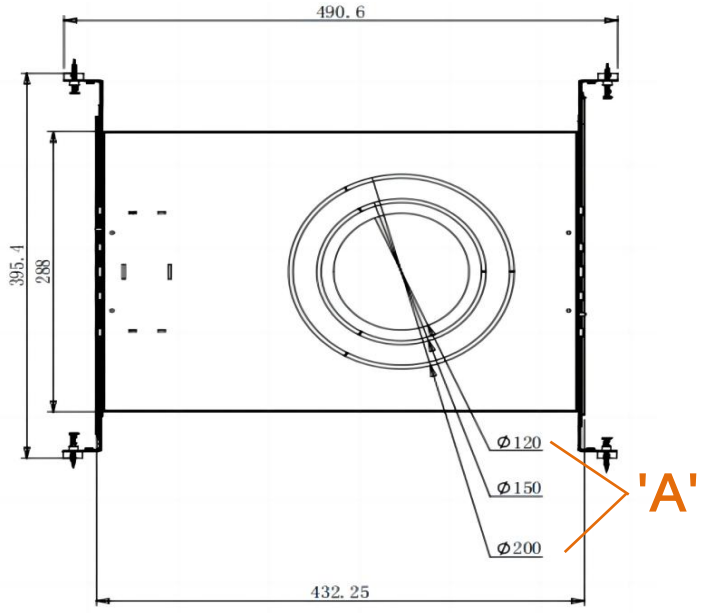
2in1 EM Inverter
Indicator

RECESSED FRAME,NEW CONSTRUCTION



Pan with Bar Hangers for T-Grid/Joist Ceilings

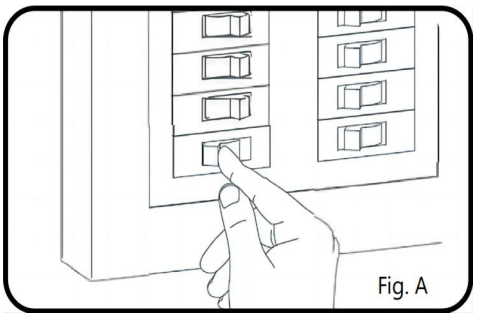
Accessory	Accessory	'A'
WL-DL04IN	4" Round	4.72''(120mm)
WL-DL06IN	6" Round	5.91''(150mm)
WL-DL08IN	4" Round	7.87''(200mm)
WL-DL10IN	10" Round	7.87''(200mm)



Installation Guide

1 - Direct Mount Installation

A Ensure that the power to the unit is turned off. Use proper lockout/ tagout procedures shown in Fig A.


Fig. A

B Cut an access opening in the ceiling.Ensure that the ceiling can withstand the weight ofthe fixture and the ceiling thickness is within the maximumapplicable thickness listed in Tablet Ensure the center of existing J-Box cover is visible through the access opening, and the connections to the branch circuit supply are visible through theaccess opening.

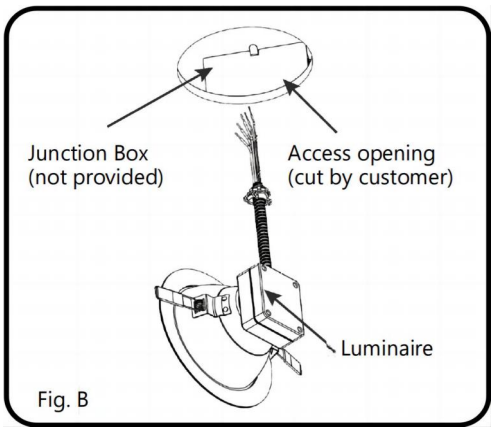


Fig. B

C Verify Conduit to ensure no defect or opening and ensure thatthe conduit placement does not result in additional stress uponinstallation of luminaire

See wiring diagram of C2 for Connection. Ensure that allconnections are made inside a junction box.

Note: Cap all unused dimming leads with wire nuts.
Note: Phase cut dimmers must be wired to the power feed 'hot' line (L).

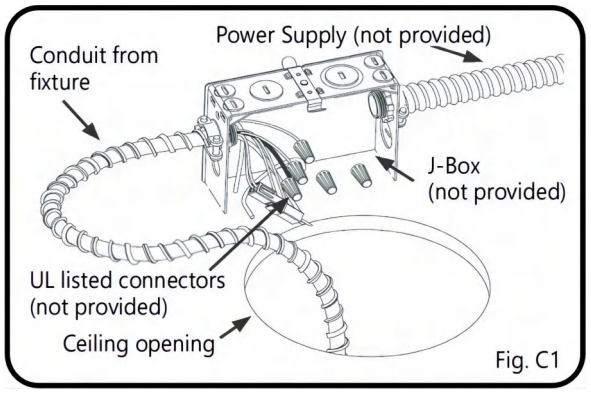


Fig. C1

D The power box can directly control the lumen and CCT switches as shown in Fig. D

E Load Springs into upright position by pushing the springs upward and push the fxture through the hole in the ceiling. The springs will draw the fxture up into the ceiling and hold it there tightly.

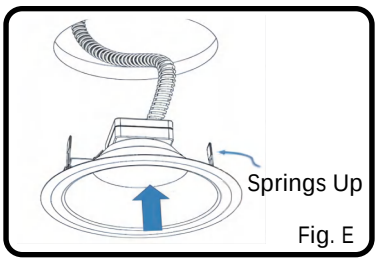


Fig. E

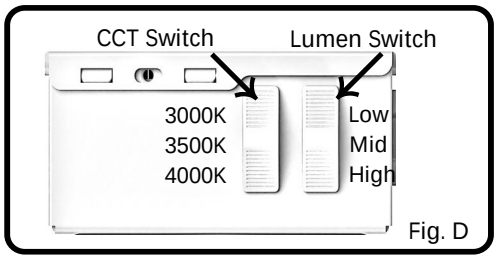
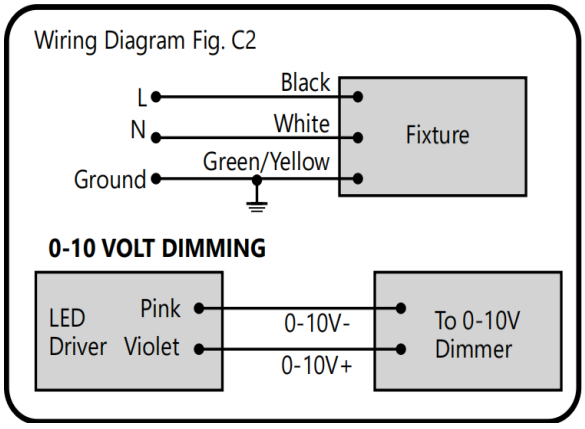


Fig. D



Installation Guide

2 - Retrofit Installation

NOTE: Installers should examine all parts that are not intended to be replaced by the retroft kit for damage and replace any damaged parts prior to installation of retroft kit

A Ensure that the power to the unit be turned of. Use proper Lockout/tagout procedures

B Disconnect wiring and remove existing lamp, ballast and refector while retaining the existing rough-in kit components

C Refer to steps C-E of the Direct-Mount Installation above to fnish the rest of installation

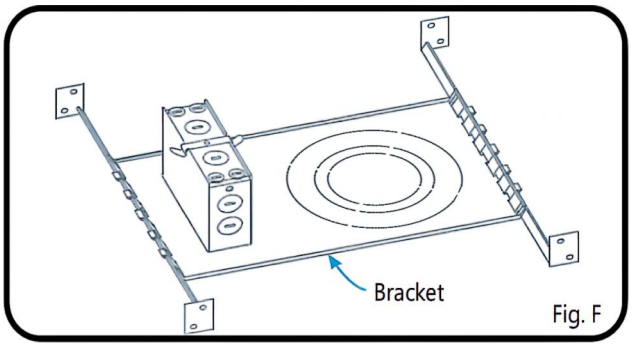


Fig. F

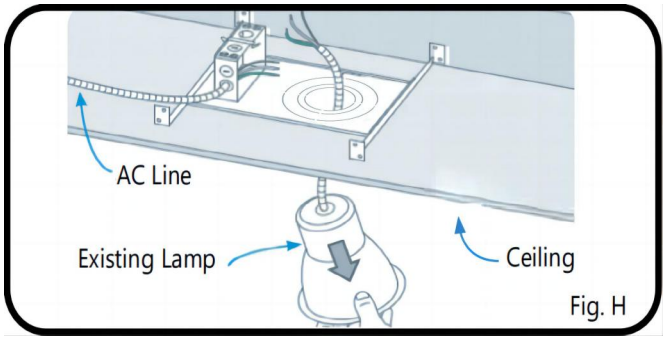
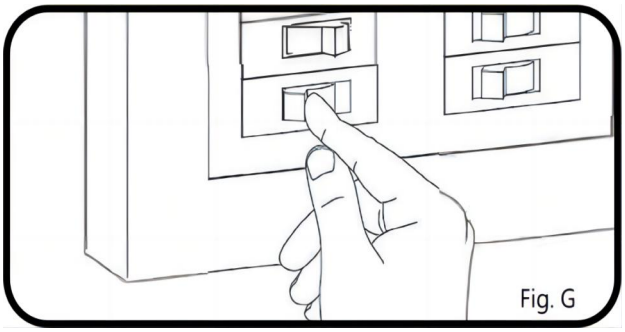


Fig. H


Fig. G

WARNING

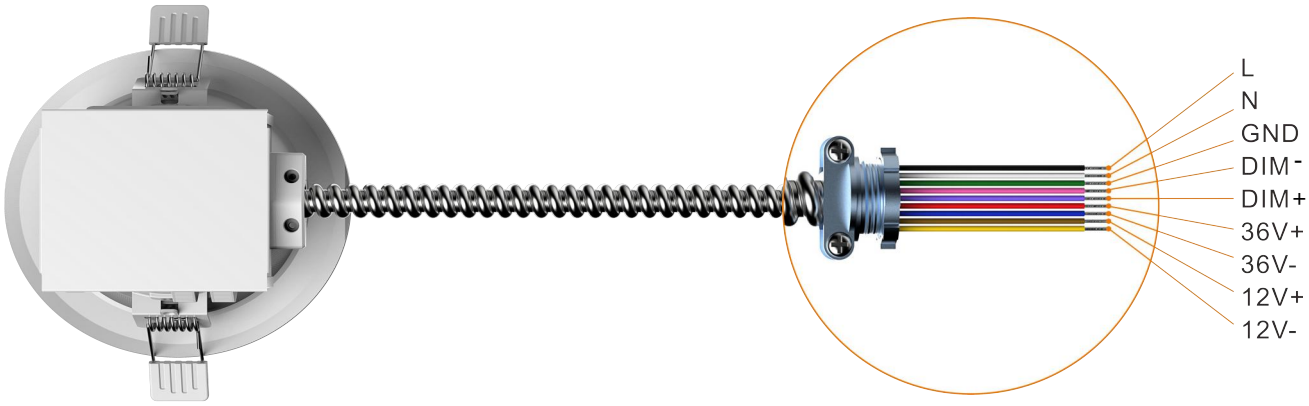
· RISK OF FIRE OR ELECTRIC SHOCK. INSTALLATION OF THIS RETROFIT KIT REQUIRES A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE LUMINAIRE'S ELECTRICAL SYSTEM AND THE HAZARD INVOLVED. IF NOT QUALIFIED, DO NOT ATTEMPT INSTALLATION. CONTACT A QUALIFIED ELECTRICIAN.

· RISK OF FIRE OR ELECTRIC SHOCK. INSTALL THIS KIT ONLY IN THE LUMINAIRE THAT HAS THE CONTRUCTION FEATURES AND DIMENSIONS SHOWN IN THE PHOTOGRAPHS AND/OR DRAWINGS AND WHERE THE INPUT RATING OF THE RETROFIT KIT DOES NOT EXCEED THE INPUT RATING OF THE LUMINAIRE. DO NOT MAKE OR ALTER ANY OPEN HOLES IN AN ENCLOSURE OF WIRING OR ELECTRICAL COMPONENTS DURING INSTALLATION.

· TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.

Tel. +86 755 222 16523
Email. sales@wisdomled.net
www.wisdomled.com

Energy-Saving 12V & 36V Low Voltage Downlights



12V & 36V Low Voltage Options

Our commercial downlights support 12V and 36V connections, providing flexible, energy-efficient lighting solutions for a variety of applications.

36V Low Voltage-Ideal for Emergency Backup

Emergency Power: Perfect for emergency backup systems, ensuring continuous lighting during power outages.
Efficient & Safe: Provides high performance with low energy loss ,low cost of use and enhanced safety compared to higher voltage systems.
Eco-friendly: Reduced energy consumption for long-term savings and lower environmental impact.

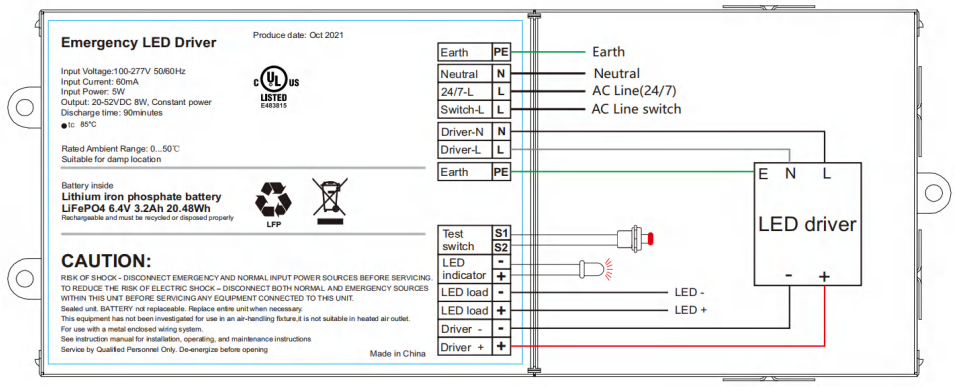
12V Low Voltage-Smart Device Integration

Smart Connectivity: Easily integrates with smart devices like Bluetooth for advanced control.

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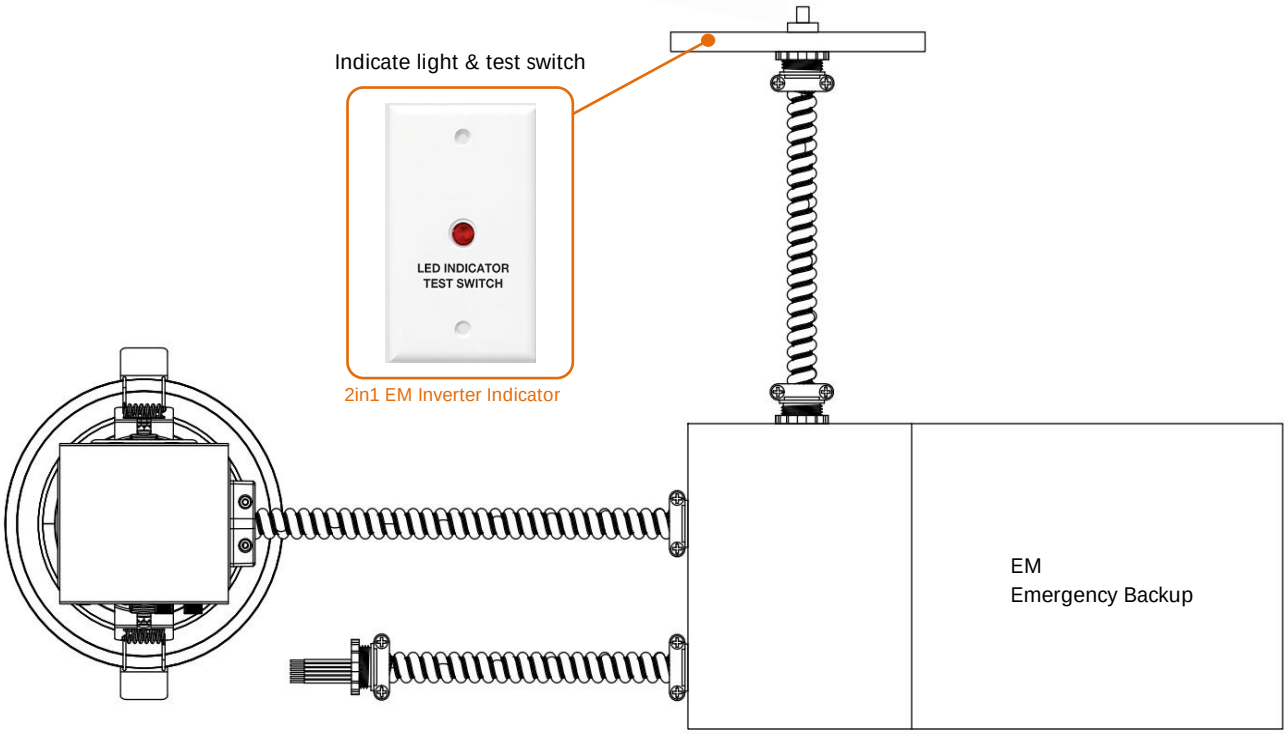
Contact us for the latest product information.

Wiring diagram



EMERGENCY CONNECTION DIAGRAM

1. (External indicate light & test switch)



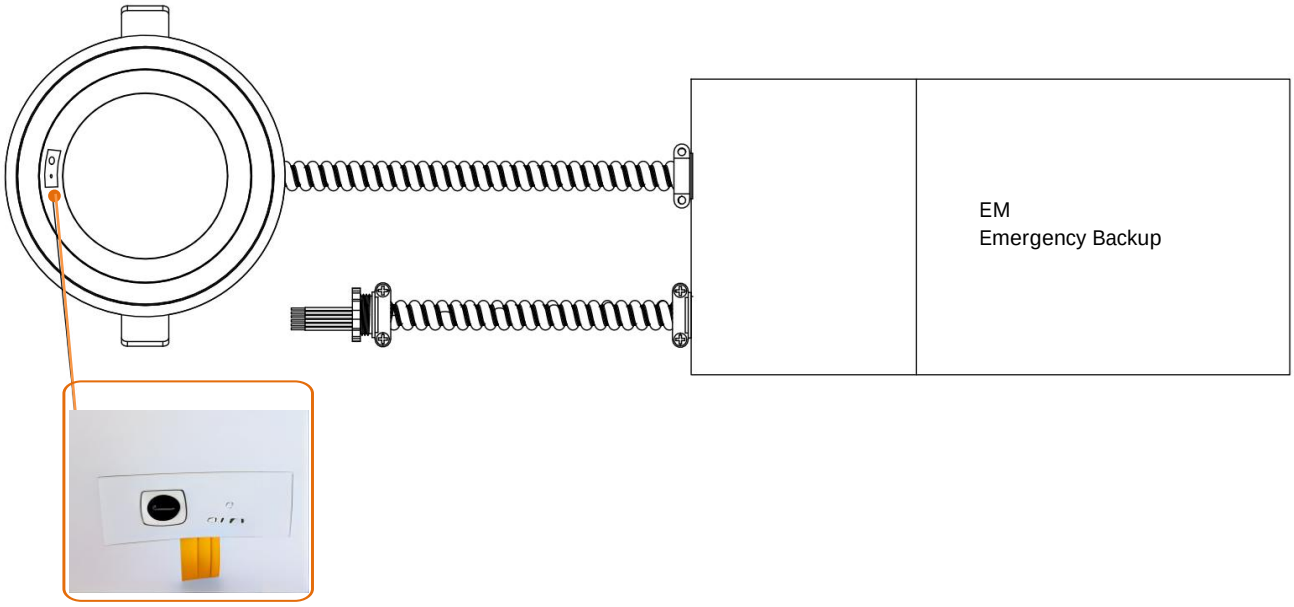
Our commercial downlights offer an optional emergency backup system for reliable lighting during power outages. The integrated indicator board allows easy monitoring of the backup power status.

2in1 EM Inverter & Indicator: Combines the emergency inverter and status indicator. When power fails, the inverter activates, ensuring continuous emergency lighting.

· Test Function: Pressing the test switch simulates a power failure, activating the backup power and confirming system operation.
· Easy Installation: The inverter and indicator are designed for ceiling mounting, ensuring clear visibility and easy monitoring without taking up extra space.

EMERGENCY CONNECTION DIAGRAM

2. (Internal indicate light & test switch)



Test switch & Emergency indicator light

Our commercial downlights come with an optional emergency backup system, featuring a test switch and charge indicator light. These components are surface-mounted for easy access and monitoring.

Test Switch (Left Side - Black Button)

· Function: Press to simulate a power failure, activating the emergency inverter and switching to battery power

· Indicator Response: The charge indicator light turns red to confirm activation. If not, further inspection is needed.

Charge Indicator Light (Right Side)

· Charging: The light glows red when the battery is charging.

· Fully Charged: The light turns green when the battery is fully charged and ready for use.

Commercial GEN1 Downlight

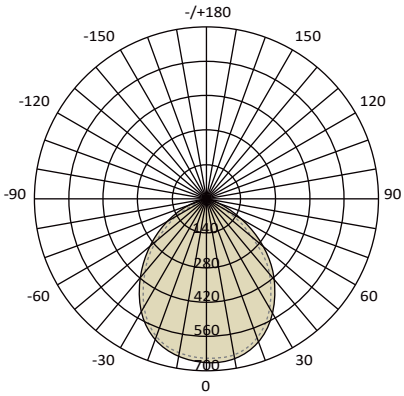
WISDOM LIGHT

Performance

SIZE	4Inch			6Inch			8Inch		
POWER	9W	12W	15W	12W	18W	24W	20W	25W	30W
Light Efficiency	106lm/W	104lm/W	102lm/W	115lm/W	113lm/W	110lm/W	115lm/W	113lm/W	110lm/W

Above are subjuect to 4000K . All efficacy is ±5% base on different CCT. For other CCT, please check the IES file to gain the accurate data

Commercial-WL-DL04IN15W-930
Commercial-WL-DL/4"/15W/RA90/3000K



AVERAGE BEAM ANGLE (50%) : 96.0 DEG

Total Lumens:1482.14lm
Input Watts: 15.9W
Efcacy: 93.22lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	651.3	653.6	657.8	661.3	656.3
20	601.0	606.5	615.8	623.6	613.3
30	521.1	525.8	538.8	551.6	538.2
40	418.3	421.0	436.3	453.0	439.6
50	298.1	298.8	314.3	335.1	321.6
60	166.7	168.0	182.7	203.1	190.5
70	59.96	61.21	70.28	83.95	73.88
80	20.81	19.58	21.95	27.19	26.11
90	0.0458	0.0496	0.0497	0.4976	0.1417
DEG	LUMINOUS INTENSITY:cd				

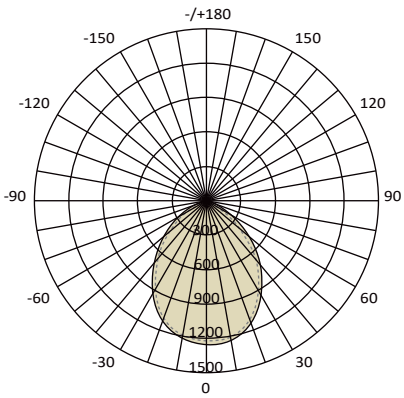
Zonal Lumens

Y	Φ zone	Φ total
0-10	63.12	63.12
10-20	178.8	242.0
20-30	263.0	505.0
30-40	300.8	805.8
40-50	285.7	1091
50-60	218.0	1310
60-70	117.8	1427
70-80	43.53	1471
80-90	10.47	1481

Luminance cd.lm 21

G(DEG)	C0/180	C90/270
85	6474	8299
80	10932	11482
75	12541	13000
70	15990	18665
65	23003	26120
60	30418	33188
55	36883	39341
50	42305	44418
45	46490	48456

Commercial-WL-DL06IN24W-930
Commercial-WL-DL/6"/24W/RA90/3000K



AVERAGE BEAM ANGLE (50%) : 87.1 DEG

Total Lumens:2412.48lm
Input Watts: 24.0W
Efcacy:100.52lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	1224	1212	1212	1223	1215
20	1128	1107	1108	1127	1114
30	969.4	936.0	938.9	967.7	947.6
40	730.5	686.9	693.2	736.0	715.8
50	452.8	413.5	425.3	467.3	450.0
60	206.9	184.1	193.6	219.4	203.8
70	78.26	71.31	73.96	83.23	81.46
80	35.81	30.21	32.13	39.98	37.24
90	0.0792	0.0764	0.0726	0.5598	0.1027
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

Y	Φ zone	Φ total
0-10	118.1	118.1
10-20	331.8	449.9
20-30	481.9	931.8
30-40	527.3	1459
40-50	452.3	1911
50-60	290.2	2202
60-70	130.9	2332
70-80	61.28	2394
80-90	17.35	2411

Luminance cd.lm 21

G(DEG)	C0/180	C90/270
85	8441	5678
80	9862	8805
75	10439	9896
70	10941	10290
65	14259	13044
60	19788	18428
55	26597	24901
50	33680	31482
45	40186	37560

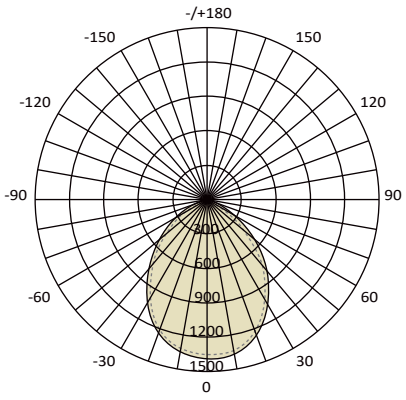
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Commercial GEN1 Downlight

WISDOM LIGHT

Commercial-WL-DL08IN30W-930
Commercial-WL-DL/8"/30W/RA90/3000K



AVERAGE BEAM ANGLE (50%) : 94.3 DEG

Total Lumens:2878.99lm
Input Watts: 30.0W
Efcacy: 99.28lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	1364	1356	1359	1370	1360
20	1264	1248	1253	1274	1255
30	1113	1091	1096	1124	1098
40	900.6	868.5	878.9	914.4	884.7
50	612.9	572.6	590.7	643.7	606.2
60	261.8	231.1	252.9	303.5	263.0
70	75.35	71.86	77.13	88.41	83.62
80	33.43	29.18	33.10	41.66	37.12
90	0.0797	0.0743	0.0766	1.429	0.1210
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

Y	Φ zone	Φ total
0-10	131.7	131.7
10-20	371.4	503.1
20-30	546.5	1050
30-40	628.4	1678
40-50	583.0	2261
50-60	389.8	2651
60-70	148.8	2800
70-80	60.77	2860
80-90	17.07	2877

Luminance cd.lm 21

G(DEG)	C0/180	C90/270
85	4110	3703
80	5118	5004
75	5577	5578
70	5857	5919
65	8505	8120
60	13918	13275
55	20215	19218
50	25347	2 4118
45	28841	27627

Product Specifications

Construction

- Integral aluminum heat sink provides passive thermal cooling
- Housing is powder coated

LED and Light Engine

- LED's are available in 3000K, 3500K, 4000K, 3 CCT Select
- Long-life LED system coupled with electrical driver to deliver optimal performance
- Projected life is 100,000 at 75% lumen output
- Typical CRI ≥ 90

Driver

- Integral 120-277V, 50/60Hz constant current driver provides noise free operation
- Continuous, flicker-free dimmer from 5% to 100%

Environment

- Suited for wet location installations.
- Operating temperature range: -25° C to 50° C

Compliance

- ETL for wet locations
- Tested to IESNA LM-79 and LM-80
- Can be used for State of California Title 24 high efficacy luminaire
- Energy Star certified

Warranty

- Five years warranty standard.