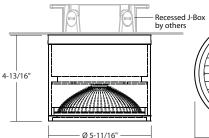
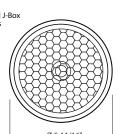
CATALOG#

DL360: 6" ROUND

CEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)







LED

Fixture































- · Wildlife Lighting Approved · Chip-On-Board light engine
- Energy efficient, low glare LED Chip-Ón-Board light engine
- True Amber Narrow Wavelength 590nm LED
- · Emergency back up available
- Integral Surface J-Box Option
- 5-Year Limited Warranty

ORDERING: DL360B-UE-DUN-TAM-LVR-EMAC-JB

DL360			
Fixture	Finish	Dimming	LED
Finish			Dimming
White	(RAL 9003)	W	Non-Dimn
Silver	(RAL 7037)	S	UniDim™ (
Bronze	(RAL 8019)	BZ	0-10V 1% I
Black	(RAL 9005)	В	(120V/277
Light Silver	(RAL 7036)	LS ¹	
Dark Grey	(RAL 7015)	DG ¹	
Metallic Gold	(RAL 1001)	MG ¹	
Metallic Black	(RAL 7021)	MB ¹	

g	LED	Emergency Options	Options
	Dimming		
	Non-Dimming	9	Blank
	UniDim™ (120	V/277V)	UE-DUN
	0-10V 1% Dim (120V/277V)	nming	UE-D10P1

Amber - Limited Wavelength - 590nm	-TAM-LVR
Emergency Options	
None	Blank
Remote location Emergency System	-EMAC
Emergency in Canopy for Surface Mounted	-EMA ^{3,4}

Options

None	Blank
Photocell Sensor	-SDL
Integral Junction Box 1-Outlet	-JB
Surge Protector	-SRG
Cold Weather	-CW ^{2,4}
Glare Shield	-SH

a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult Factory.

2 Starting temperature -30°C/-22°F; see pg. 6.

3 Standard option only available for Black (B), and White (W) finish. For alternate finishes.

⁴ (-EMA) is not compatible with (-CW) option.

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.

¹ Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to

Contact factory for pricing. Extended lead time may apply.



CEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION

A	nn	lia	ca	tid	on
	P		-		

This DL series covered ceiling mount downlight can be used for surface ceiling or pendant mount in both interior and outdoor settings. Typical locations are in commercial and retail spaces that require lighting from above. Dark sky compliant.

Housing

Housing is constructed of one piece high grade aluminum extrusion (Alloy 6061<.04% Cu). Faceplate (with tempered glass lens) and top cap are of a robust die cast aluminum alloy and seal the housing top and bottom. Faceplate has a silicone o-ring to seal the flush lens and threads into housing. A U-bracket installs onto an electrical junction box and secures into the top cap with two (2) flat head countersunk phillips head stainless steel screws.

Mounting:

The 6" high x 4-1/2" wide rectangular mounting plate with U-bracket installs onto a 4" octagonal electrical junction box. For other junction box sizes see installation instructions.

Finish:



A 7-stage electrostatic, polymer process provides an outdoor textured powder coat finish that delivers outstanding durability, superior anti-aging, resistance to corrosion and UVdegradation. Consult factory for Custom Color. (More Information)

Special Order Finishes:

Standard Finishes:

			-		
White:	RAL 9003	(W)	Light Silver:	RAL 7036	(LS)
Silver:	RAL 7037	(S)	Dark Gray:	RAL 7015	(DG)
Bronze:	RAL 8019	(BZ)	Metallic Gold:	RAL 1001	(MG)
Black:	RAL 9005	(B)	Metallic Black:	RAL 7021	(MB)

Certifications and Listings:

(DG)

(LS)





(MG)



(MB)







ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations. (IP65).

Assembled in USA.

IK08 rated for impact resistance.

Certified by the Florida Fish and Wildlife Conservation Commission as Wildlife Lighting Approved.





CEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

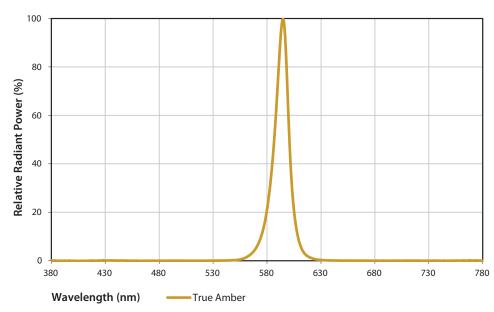
SPECIFICATION (Continued)

Caution:	LITON recommends use of surge protectors on the power entering LED Housings.
	Surge damage is not covered by warranty. (See option SRG)
Warranty	
	Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture
	should not be installed in applications with ambient temperature above 50°C/122°F. Doing so
	will result in reduced lamp life and voided warranty.
Optics	
	Multifaceted aluminum reflector produces low glare illumination. Additional beam control
	provides cutoff of illumination above 45°, 3 mm /.125" (size of the cells) - matte black finish.
	45° cutoff louver included with optic.
LED	
	COB (Chip on Board) singular LED light source provides for smooth, uniform light output,
	eliminating the imaging produced by multiple LED source optics.
Lumen Maintenance:	Lumen Maintenance is aminimum 50,000 hours L70 life based on ANSI TM-21 calculations
	from LM80 standardized test results.
Lumen Options (Nominal):	250lm (22W)



Color Temperature:

Binned with 4-step MacAdam ellipses as per ANSI Standard recommendation.



True Amber - Narrow Band LEDs centered at 590nm with no spectral content below 560nm are supplied.



CEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Emergency Options

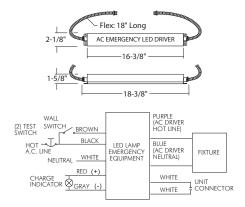
When AC power fails, provides 90 minutes of power to the luminaire. In the event of a power failure, the LED Emergency backup switches to the emergency mode and operates the existing fixture for 90 minutes.

Remote Emergency Back Up (-EMAC):

For installation away from the surface of the building in remote hidden location.

- · Hidden Emergency Equipment
- Must be installed in Dry Locations

Not rated for outdoor mounting. Damp location rated.

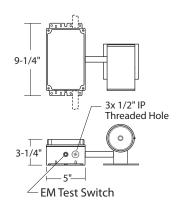


Output Power:	25 Watts (Max)
Input Power:	6 Watts (Max)
Emergency Operation:	≥90 minutes
Operating temp:	0°C/32°F to 50°C/122°F
Input Voltage:	100-277 VAC, 50-60Hz
Battery:	High Temp Nickel- Cadmium
	48 Hour Recharge
	7-10 Year Life Expectancy
Charge Time:	24 hours
Max Distance:	25'
Weight:	3 lbs.
Warranty:	2-year
Surge Protection:	None

BackPack Side Mount (-EMD-SD/FC):

Illiminates need for long runs back to remote emergency battery location. Installs directly on building surface. Ideal for locations wanting same mounting aesthetics for Emergency and Non-Emergency fixtures without the use of remote Emergency power. Can be fed from recessed wall mounted junction box from the back of fixture or surface conduit from side of fixture.

- · Wet location rated
- 120V-347V operation
- Self diagnostic
- · Integral surge protector for emergency driver only.
- Includes (2) 1/2" NPT knock-outs





Output Power:	30 Watts (Max)
Input Power:	76 Watts (Max)
Emergency Operation:	≥90 minutes
Operating temp:	0°C/32°F to 50°C/122°F
Input Voltage:	120V-347 VAC
Battery:	Recyclable lithium battery
	24 Hour Recharge
	7-10 Year Life
	Expectancy
Charge Time:	24 hours
Max Distance:	25'
Weight:	3-3/4 lbs.
Warranty:	5-year
Surge Protection:	Integral 3,000V
Self-diagnostic testing:	Monthly 30 sec. test, Yearly 90 min. test to verify proper emergency operation

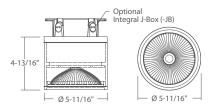


CEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Additional Options

Optional J-Box (Direct Conduit Entry):



For use with mounting locations without a recessed junction box.

Factory installed outlet box with five (5) 1/2 NPSM trade conduit holes and plugs (1 top, 4 sides) for 1/2 in. trade conduit and wire entry.

Configure as:

-JB: (5) conduit entry from left or right looking at fixture

Photocell (-SDL):



Allows for energy savings when illumination is not need during between dawn to dusks. Cuts off power to LED's during day time or in illuminated environments.

Power Consumption: .5W Voltage: 120V, 277V

On/Off Levels: On @ 0-2fc / Off @ 2fc or more

Warranty: 2- Year / 5,000 Cycles

Sensor Size: 3/8" Rating: UL/cUL

Surge Suppressor (-SRG):

Protects driver against surges in line voltage/current $(20\text{KV}, 1.2/50\mu\text{S} \& 10\text{KA}, 8/20\mu\text{S}).$

Provides a positive indication of end-of-life by opening voltage to the load.

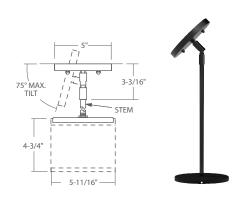
Surge suppressor is a perishable device requiring periodic replacement.

Not a warrantied item.



Additional Options - Pendant Mounting

Adjustable Pendant Accessory:



See spec sheet <u>LPCMDL6</u> for details and configuration.



CEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Additional Options - Pendant Mounting

Aircraft Cable Pendant Mount Accessory Kit:

See spec sheet <u>LPCMCDL</u> for details and configuration



Electrical

LED Driver: AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted.

Power Factor > 0.90. See Dimming Section for voltage and wiring.

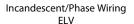
Minimum Operating Temperature:

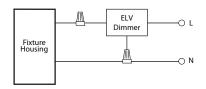
Standard: -10°C/14°F

-CW: Cold Weather Option: -30°C/-22°F

UE-DUN: -10°C/ 14°F

Dimming Options



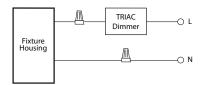


(120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

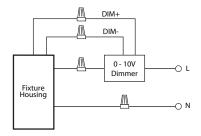
UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming

TRIAC



0 - 10V Wiring



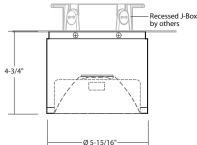
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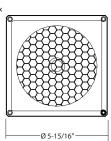
CATALOG#

PROJECT

DLQ360: 6" SQUARE

CEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)





































- Wildlife Lighting Approved
- Energy efficient, low glare LED Chip-On-Board light engine
- True Amber Narrow Wavelength 590nm LED
- Emergency back up available
- Integral Surface J-Box Option
- 5-Year Limited Warranty

LED

Surge Protector

Cold Weather

ORDERING: DLQ360B-UE-DUN-TAM-LVR

DLQ360

Fixture Finish Dimming Emergency Options Options

Finish		
White	(RAL 9003)	W
Silver	(RAL 7037)	S
Bronze	(RAL 8019)	ΒZ
Black	(RAL 9005)	В
Light Silver	(RAL 7036)	LS ¹
Dark Grey	(RAL 7015)	DG ¹
Metallic Gold	(RAL 1001)	MG¹
Metallic Black	(RAL 7021)	MB ¹

Dimming	
Non-Dimming	Blank
UniDim™ (120V/277V) 0-10V 1% Dimming (120V)	UE-DUN -D10P1
347V 0-10V Dimming	-347-D10

Emergency Options		
None	Blank	
Remote Location Emergency System	-EMAC	
Emergency integral to fixture	-EMA ^{3,4}	

Amber - Limited Wavelength - 590nm	-TAM-LVR
Options	
None	Blank
Photocell Sensor	-SDL
Integral Junction Box 1-Outlet	-JB

-SRG

-CW^{2,4}

- ¹ Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult Factory.
- ² Starting temperature -30°C/-22°F; see pg. 6.
- ³ White (W) finish is standard. Black (B), and Silver (S) finish available. Contact factory for pricing.
- 4 (-EMA) is not compatible with (-CW) option.

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.



| DLQ360 : 6" SQUARE

CEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION

Application

This DL series covered ceiling mount downlight can be used for surface ceiling or pendant mount in both interior and outdoor settings. Typical locations are in commercial and retail spaces that require lighting from above. Dark sky compliant.

Housing

Housing is constructed from a square one piece high grade aluminum extrusion. (Alloy 6061<04% Cu). Faceplate (with a tempered glass lens) and top cap are of a robust die-cast aluminum alloy and are secured to the housing with (4) socket head tamper resistant stainless steel screws and seal the housing (top and bottom) using silicone gaskets.

Mounting:

A mounting bracket attaches to or over a recessed J-Box (by others) and has through holes to accept (4) four countersunk phillips head screws in the top edge of the fixture housing.

Finish:



(DG)

A 7-stage electrostatic, polymer process provides an outdoor textured powder coat finish that delivers outstanding durability, superior anti-aging, resistance to corrosion and UV-degradation. Consult factory for Custom Color. (More Information)

Standard Finishes:

White: RAL 9003 (W) Silver: RAL 7037 (S) Bronze: RAL 8019 (BZ) Black: RAL 9005 (B)

Special Order Finishes:

Light Silver: RAL 7036 (LS) Dark Gray: RAL 7015 (DG) Metallic Gold: RAL 1001 (MG) Metallic Black: RAL 7021 (MB)

Certifications and Listings:



(LS)



(MG)



(MB)







ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations. (IP65)

Assembled in USA.

IK08 rated for impact resistance.

Certified by the Florida Fish and Wildlife Conservation Commission as Wildlife Lighting Approved.





DLQ360:6" SQUARECEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

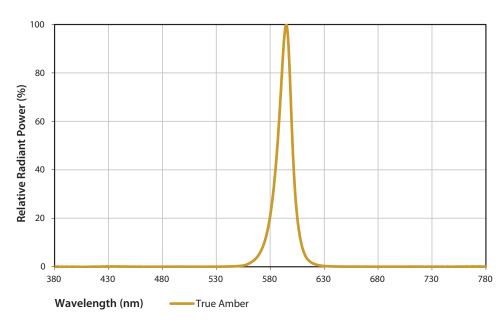
SPECIFICATION (Continued)

Caution:	LITON recommends use of surge protectors on the power entering LED Housings.
	Surge damage is not covered by warranty. (See option SRG)
Warranty	
	Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture
	should not be installed in applications with ambient temperature above 50°C/122°F. Doing so
	will result in reduced lamp life and voided warranty.
Optics	
	Multifaceted aluminum reflector produces low glare illumination. Additional beam control
	provides cutoff of illumination above 45°, 3 mm /.125" (size of the cells) - matte black finish.
	45° cutoff louver included with optic.
LED	
	COB (Chip on Board) singular LED light source provides for smooth, uniform light output,
	eliminating the imaging produced by multiple LED source optics.
Lumen Maintenance:	Lumen Maintenance is aminimum 50,000 hours L70 life based on ANSI TM-21 calculations
	from LM80 standardized test results.
Lumen Options (Nominal):	250lm (22W)

Color Temperature:

Binned with 4-step MacAdam ellipses as per ANSI Standard recommendation.





True Amber - Narrow Band LEDs centered at 590nm with no spectral content below 560nm are supplied.



DLQ360: 6" SQUARE

CEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Emergency Options

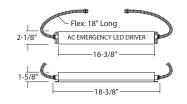
When AC power fails, provides 90 minutes of power to the luminaire. In the event of a power failure, the LED Emergency backup switches to the emergency mode and operates the existing fixture for 90 minutes.

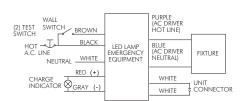
Remote Emergency Back Up (-EMAC):

For installation away from the surface of the building in remote hidden location.

- · Hidden Emergency Equipment
- · Must be installed in Dry Locations

Not rated for outdoor mounting. Damp location rated.

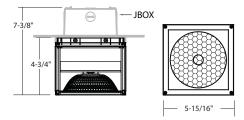




Input Voltage:	120-277VAC/60Hz
Output Voltage:	170VDC (120VAC Equivalent)
Wattage:	30W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Maximum Lumens:	2600lm

Integral Emergency System (-EMA):

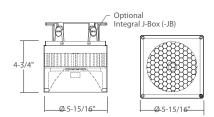
- The Integral Emergency System (-EMA) is installed in the fixture housing and includes a test switch.
- · Wet location rated
- · Covered Ceiling Mount
- May be pendant mounted using LPCMDLQ6.



Voltage:	120-277VAC/60H
Wattage:	15W
Switching Time :	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	-20°C
Maximum Temperature:	45°C
Maximum Lumens :	1500lm

Additional Options

Optional J-Box (Direct Conduit Entry):



For use with mounting locations without a recessed junction box. Factory installed outlet box with five (5) 1/2 NPSM trade conduit holes and plugs (1 top, 4 sides) for 1/2 in. trade conduit and wire entry.

Configure as:

-JB: (5) conduit entry from left or right looking at fixture



| DLQ360: 6" SQUARE

CEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Photocell (-SDL):

Allows for energy savings when illumination is not need during between dawn to dusks. Cuts off power to LED's during day time or in illuminated environments.

Power Consumption: .5W Voltage: 120V, 277V

On/Off Levels: On @ 0-2fc / Off @ 2fc or more

Warranty: 2- Year / 5,000 Cycles

Sensor Size: 3/8"
Rating: UL/cUL

Surge Suppressor (-SRG):

Protects driver against surges in line voltage/current

 $(20KV, 1.2/50\mu S \& 10KA, 8/20\mu S).$

Provides a positive indication of end-of-life by opening voltage to the load.

Surge suppressor is a perishable device requiring periodic replacement.

Not a warrantied item.

Additional Options - Pendant Mounting

Adjustable Pendant Accessory:

75° MAX. 75°

See spec sheet <u>LPCMDLQ6</u> for details and configuration

Aircraft Cable Pendant Mount Accessory Kit:

See spec sheet <u>LPCMCDL</u> for details and configuration





| DLQ360: 6" SQUARE

CEILING DOWNLIGHT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Electrical

LED Driver: AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted.

Power Factor > 0.90. See Dimming Section for voltage and wiring.

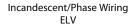
Minimum Operating Temperature:

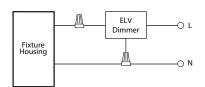
Standard: -10°C/14°F

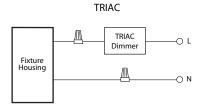
-CW: Cold Weather Option: -30°C/-22°F

UE-DUN: -10°C/ 14°F

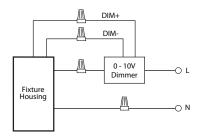
Dimming Options







0 - 10V Wiring



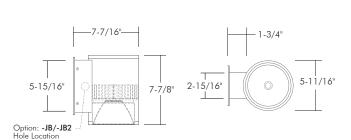
UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

TYPE

WD1360:6" ROUND 1-DIRECTION

WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

































- · Wildlife Lighting Approved
- · Energy efficient, low glare LED Chip-On-Board light engine
- True Amber Narrow Wavelength 590nm LED
- Emergency back up available
- Integral Surface J-Box Option
- 5-Year Limited Warranty

ORDERING: WD1360BUE-DUN-TAM-LVR EMAC-SDL

Fixture Finish Dimming LED Emergency Options Options

Finish		
White	(RAL 9003)	W
Silver	(RAL 7037)	S
Bronze	(RAL 8019)	BZ
Black	(RAL 9005)	В
Light Silver	(RAL 7036)	LS ¹
Dark Grey	(RAL 7015)	DG ¹
Metallic Gold	(RAL 1001)	MG ¹
Metallic Black	(RAL 7021)	MB ¹

DIOTIZE	(10 12 00 15)		,
Black	(RAL 9005)	В	None
Light Silver	(RAL 7036)	LS ¹	Remote
Dark Grey	(RAL 7015)	DG ¹	Back Pack (Sic
Metallic Gold	(RAL 1001)	MG ¹	Back Pack (Fa
Metallic Black	(RAL 7021)	MB ¹	Empty Back P (Face Mount)
Dimming			
Non-Dimming (120V)	9	Blank	

UE-DUN

UE-D10P1

LED	
590mm AMBER	-TAM-LVR
Emergency Options	
None	Blank
Remote	-EMAC
Back Pack (Side Mount)	-EMB-SD ^{3,5}
Back Pack (Face Mount)	-EMB-FC ^{3,5}
Empty Back Pack	-EMB-BLANK ^{3,5}

	2
-SD ^{3,5}	
-FC ^{3,5}	J T
-BLANK ^{3,5}	
	S

Options

None Photocell Sensor	Blank -SDL
Integral Junction Box 1-Entry	-JBL, JBR⁴
Integral Junction Box 2-Entries	-JB2
Junction Box, Conduit Top Entry	-JBT
Surge Protector	-SRG
Cold Weather	-CW ^{2,5}
Glare Shield	-SH

² Starting temperature -30°C/-22°F; see pg. 6.

³ White (W) finish is standard. Black (B), and Silver (S) finish available. Contact factory for pricing.

4 Select left or right entry.

UniDim™ (120V/277V)

0-10V 1% Dimming

(120V/277V)

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.

¹ Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult Factory.

⁵ (-EMB-XX) is not compatible with (-CW) option.



WD1360: 6" ROUND 1-DIRECTION

WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION

Application

This WD1 series single direction wall mount luminaire can be used for both interior and outdoor locations. The single reflector design can be used for direct illumination downward or indirect illumination upward for new construction or retrofit installations. Typical locations are in residential, commercial, and architectural facades and retail spaces that contain walls and/ or columns.

Housing/Arm

Housing is constructed from a round one piece high grade aluminum extrusion with a rectangular extrusion arm. Extrusions are 6061 alloy; <04% Cu. Faceplate (with a tempered glass lens) and end caps are die-cast aluminum (Alloy A360; <.6% Cu) and seal the housing (top and bottom) using silicone o-rings. An aluminum alloy mounting plate with a U-bracket installs onto an electrical junction box and secures into the arm with two (2) flat head countersunk phillips head stainless steel screws.

Mounting:

The 6" high x 4-1/2" wide rectangular mounting plate with U-bracket installs onto a 4" octagonal electrical junction box. For other junction box sizes see installation instructions.

Finish:

















A 7-stage electrostatic, polymer process provides an outdoor textured powder coat finish that delivers outstanding durability, superior anti-aging, resistance to corrosion and UVdegradation. Consult factory for Custom Color. (More Information)

Standard Finishes:

White: RAL 9003 (W) Silver: RAL 7037 (S) Bronze: RAL 8019 (BZ) Black: RAL 9005 (B)

Special Order Finishes:

Light Silver: RAL 7036 (LS) Dark Gray: RAL 7015 (DG) Metallic Gold: RAL 1001 (MG) Metallic Black: RAL 7021 (MB)

Certifications and Listings:













ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations, (IP65)

Assembled in USA.

IK08 rated for impact resistance.

WIldlife Lighting Approved.





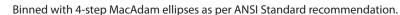
WD1360:6" ROUND 1-DIRECTION

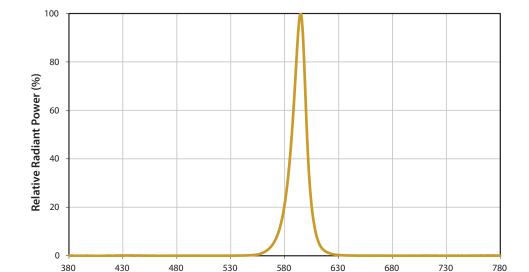
WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Caution:	LITON recommends use of surge protectors on the power entering LED Housings.
	Surge damage is not covered by warranty.
Warranty	
	Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture
	should not be installed in applications with ambient temperature above 50°C/122°F. Doing so
	will result in reduced lamp life and voided warranty.
Optics	
	Multifaceted aluminum reflector produces low glare illumination. Additional beam control
	provides cutoff of illumination above 45°, 3 mm /.125" (size of the cells) - matte black finish.
	45° cutoff louver included with optic.
LED	
	COB (Chip on Board) singular LED light source provides for smooth, uniform light output,
	eliminating the imaging produced by multiple LED source optics.
Lumen Maintenance:	Lumen Maintenance is aminimum 50,000 hours L70 life based on ANSI TM-21 calculations
	from LM80 standardized test results.
Lumen Options (Nominal):	250lm (22W)
Color Tomporaturo:	Ripped with 4-stap MacAdam allipses as per ANSI Standard recommendation

Color Temperature:





True Amber - Narrow Band LEDs centered at 590nm with no spectral content below 560nm are supplied.

True Amber



Wavelength (nm)



WD1360:6" ROUND 1-DIRECTION

WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Emergency Options

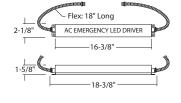
When AC power fails, provides 90 minutes of power to the luminaire. In the event of a power failure, the LED Emergency backup switches to the emergency mode and operates the existing fixture for 90 minutes.

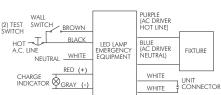
Remote Emergency Back Up (-EMAC):

For installation away from the surface of the building in remote hidden location.

- Hidden Emergency Equipment
- Must be installed in Dry Locations

Not rated for outdoor mounting. Damp location rated.



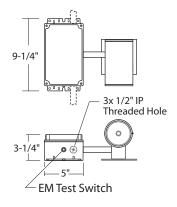


Output Power:	25 Watts (Max)
Input Power:	6 Watts (Max)
Emergency Operation:	≥90 minutes
Operating temp:	0°C/32°F to 50°C/122°F
Input Voltage:	100-277 VAC, 50-60Hz
Battery:	High Temp Nickel- Cadmium
	48 Hour Recharge
	7-10 Year Life Expectancy
Charge Time:	24 hours
Max Distance:	25'
Weight:	3 lbs.
Warranty:	2-year
Surge Protection:	None

BackPack Side Mount (-EMD-SD/FC):

Illiminates need for long runs back to remote emergency battery location. Installs directly on building surface. Ideal for locations wanting same mounting aesthetics for Emergency and Non-Emergency fixtures without the use of remote Emergency power. Can be fed from recessed wall mounted junction box from the back of fixture or surface conduit from side of fixture.

- Wet location rated
- 120V-347V operation
- · Self diagnostic
- · Integral surge protector for emergency driver only.
- Includes (2) 1/2" NPT knock-outs





Output Power:	30 Watts (Max)
Input Power:	76 Watts (Max)
Emergency Operation:	≥90 minutes
Operating temp:	0°C/32°F to 50°C/122°F
Input Voltage:	120V-347 VAC
Battery:	Recyclable lithium battery
	24 Hour Recharge
	7-10 Year Life Expectancy
Charge Time:	24 hours
Max Distance:	25'
Weight:	3-3/4 lbs.
Warranty:	5-year
Surge Protection:	Integral 3,000V
Self-diagnostic testing:	Monthly 30 sec. test, Yearly 90 min. test to verify proper emergency operation per life safety code requirements.



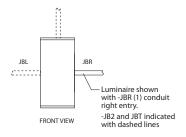
WD1360: 6" ROUND 1-DIRECTION

WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Additional Options

Optional J-Box (Direct Conduit Entry:



For use with mounting locations without a recessed junction box.

Allows for direct mounting to building surface. Arm may be configured for up to 3 conduit entries (1/2") total; 2 on the sides, 1 on top. .

Configure as:

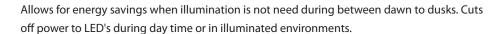
-JBL, -JBR: (1) conduit entry from left or

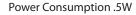
right looking at fixture

-JB2 (2) conduit entry on sides

-JBT (1) conduit entry on top

Photocell (-SDL):





On/Off Levels: On @ 0-2fc / Off @ 2fc or more

Warranty: 2- Year / 5,000 Cycles

Sensor Size: 3/8" Rating: UL/cUL

Surge Suppressor (-SRG):

Protects driver against surges in line voltage/current

 $(20KV, 1.2/50\mu S \& 10KA, 8/20\mu S).$

Provides a positive indication of end-of-life by opening voltage to the load.

Surge suppressor is a perishable device requiring periodic replacement.

Not a warrantied item.





WD1360:6" ROUND 1-DIRECTION

WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Electrical

LED Driver: AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted. Power Factor > 0.90. See Dimming Section for voltage and wiring.

Minimum Operating Temperature:

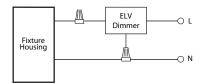
Standard: -10°C/14°F

-CW: Cold Weather Option: -30°C/-22°F

UE-DUN: -10°C/ 14°F

Dimming Options

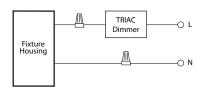
Incandescent/Phase Wiring ELV



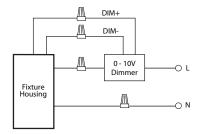
UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

TRIAC



0 - 10V Wiring

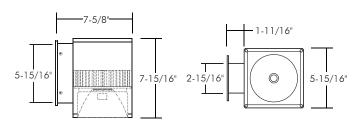


TYPE

CATALOG#

WD1Q360:6" SQUARE 1-DIRECTION

WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)







PROJECT



























- WIldlife Lighting Approved
- Energy efficient, low glare LED Chip-On-Board light engine
- True Amber Narrow Wavelength 590nm LED
- Emergency back up available
- Integral Surface J-Box Option
- 5-Year Limited Warranty

-CW^{2,5}

ORDERING: WD1Q360BUE-DUN-TAM-LVR-EMAC-SDL

Lumen

Finish		
White	(RAL 9003)	W
Silver	(RAL 7037)	S
Bronze	(RAL 8019)	BZ
Black	(RAL 9005)	В
Light Silver	(RAL 7036)	LS ¹
Dark Grev	(RAL 7015	DG ¹

Finish

WD1Q360 Fixture

Metallic Gold

0-10V 1% Dimming

(120V/277V)

Metallic Black	(RAL 7021)	MB ¹
Dimming		
Non-Dimming (120V)		Blank
UniDim [™] (120V	/277V)	UE-DUN

(RAL 1001) MG¹

LED	
590mm AMBER	-TAM-LVR
Emergency Options	
None	Blank
Remote	-EMAC
Back Pack (Side Mount)	-EMB-SD ^{3,5}
Back Pack (Face Mount)	-EMB-FC ^{3,5}
Empty Back Pack (Face Mount)	-EMB-BLANK ^{3,5}

Emergency

Options

LED

Options

Dimming

Options	
None	Blank
Photocell Sensor	-SDL
Integral Junction Box 1-Entry	-JBL, JBR⁴
Integral Junction Box 2-Entries	-JB2
Junction Box, Conduit Top Entry	-JBT
Surge Protector	-SRG

Cold Weather

- ¹ Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult Factory.
- ² Starting temperature -30°C/-22°F; see pg. 6.
- ³ White (W) finish is standard. Black (B), and Silver (S) finish available. Contact factory for pricing.

UE-D10P1

- ⁴ Select left or right entry.
- ⁵ (-EMB-XX) is not compatible with (-CW) option.

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.



WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION

Application

This WD1 series single direction wall mount luminaire can be used for both interior and outdoor locations. The single reflector design can be used for direct illumination downward or indirect illumination upward for new construction or retrofit installations. Typical locations are in residential, commercial, and architectural facades and retail spaces that contain walls and/or columns.

Housing/Arm

Housing is constructed from a round one piece high grade aluminum extrusion with a rectangular extrusion arm. Extrusions are 6061 alloy; <04% Cu. Faceplate (with a tempered glass lens) and end caps are die-cast aluminum (Alloy A360; <.6% Cu) and seal the housing (top and bottom) using silicone o-rings. An aluminum alloy mounting plate with a U-bracket installs onto an electrical junction box and secures into the arm with two (2) flat head countersunk phillips head stainless steel screws.

Mounting:

The 6" high x 4-1/2" wide rectangular mounting plate with U-bracket installs onto a 4" octagonal electrical junction box. For other junction box sizes see installation instructions.

Finish:



(DG)

A 7-stage electrostatic, polymer process provides an outdoor textured powder coat finish that delivers outstanding durability, superior anti-aging, resistance to corrosion and UV-degradation. Consult factory for Custom Color. (More Information)

Standard Finishes:

White:	RAL 9003	(W)
Silver:	RAL 7037	(S)
Bronze:	RAL 8019	(BZ)
Black:	RAL 9005	(B)

Special Order Finishes:

Light Silver: RAL 7036 (LS) Dark Gray: RAL 7015 (DG) Metallic Gold: RAL 1001 (MG) Metallic Black: RAL 7021 (MB)

Certifications and Listings:

(LS)





(MG)



(MB)







ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations. (IP65)

Assembled in USA.

IK08 rated for impact resistance.

WIIdlife Lighting Approved.



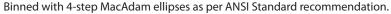


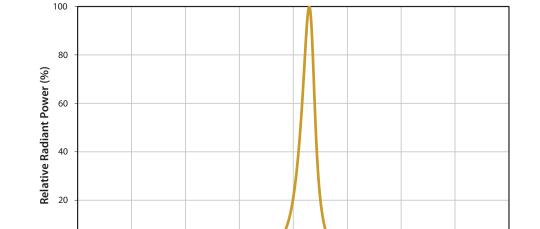
WD1Q360:6" SQUARE 1-DIRECTION WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Caution:	LITON recommends use of surge protectors on the power entering LED Housings.
	Surge damage is not covered by warranty.
Warranty	
	Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture
	should not be installed in applications with ambient temperature above 50°C/122°F.
	Doing so will result in reduced lamp life and voided warranty.
Optics	
	Multifaceted aluminum refl ector produces low glare illumination. Additional beam contro
	provides cutoff of illumination above 45°, 3 mm /.125" (size of the cells) - matte black finish
	38884.
	45° cutoff louver included with optic.
LED	**************************************
	COB (Chip on Board) singular LED light source provides for smooth, uniform light output,
	eliminating the imaging produced by multiple LED source optics.
Lumen Maintenance:	Lumen Maintenance is aminimum 50,000 hours L70 life based on ANSI TM-21 calculations
	from LM80 standardized test results.
Lumen Options (Nominal):	250lm (22W)
Color Temperature	Rinned with 4-step MacAdam ellipses as per ANSI Standard recommendation

Color Temperature:





580

630

680

730

True Amber - Narrow Band LEDs centered at 590nm with no spectral content below 560nm are supplied.

530

True Amber

480



780

0 380

430

Wavelength (nm)



WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Emergency Options

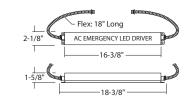
When AC power fails, provides 90 minutes of power to the luminaire. In the event of a power failure, the LED Emergency backup switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single enclosure. *Not for use with -CW (Cold Weather) option. Consult factory.

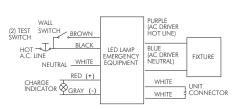
Remote Emergency Back Up (-EMAC):

For installation away from the surface of the building in remote hidden location.

- Hidden Emergency Equipment
- · Must be installed in Dry Locations

Not rated for outdoor mounting. Damp location rated.



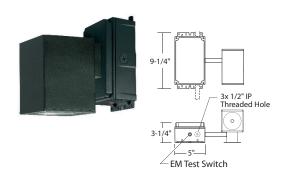


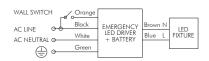
Output Power:	25 Watts (Max)
Input Power:	6 Watts (Max)
Emergency Operation:	≥90 minutes
Operating temp:	0°C/32°F to 50°C/122°F
Input Voltage:	100-277 VAC, 50-60Hz
Battery:	High Temp Nickel- Cadmium
	48 Hour Recharge
	7-10 Year Life Expectancy
Charge Time:	24 hours
Max Distance:	25'
Weight:	3 lbs.
Warranty:	2-year
Surge Protection:	None

BackPack Side Mount (-EMB-SD/FC):

Illiminates need for long runs back to remote emergency battery location.
Installs directly on building surface. Ideal for locations wanting same mounting aesthetics for Emergency and Non-Emergency fixtures without the use of remote Emergency power. Can be fed from recessed wall mounted junction box from the back of fixture or surface conduit from side of fixture.

- Wet location rated
- 120V-347V operation
- Self diagnostic
- Integral surge protector for emergency driver only
- Includes (2) 1/2" NPT knock-outs
- Optional -EMB-BLANK can be used to maintain a common aesthetic when -EMB-FC are used.





Output Power:	30 Watts (Max)
Input Power:	76 Watts (Max)
Emergency Operation:	≥90 minutes
Operating temp:	0°C/32°F to 50°C/122°F
Input Voltage:	120V-347 VAC
Battery:	Recyclable lithium battery
	24 Hour Recharge
	7-10 Year Life Expectancy
CI T'	· , ,
Charge Time:	24 hours
Max Distance:	25'
Weight:	3-3/4 lbs.
Warranty:	5-year
Surge Protection:	Integral 3,000V
Self-diagnostic testing:	Monthly 30 sec. test, Yearly 90 min. test to verify proper emergency operation per life safety code requirements.

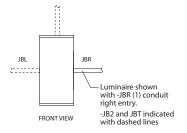


WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Additional Options

Optional J-Box (Direct Conduit Entry:



For use with mounting locations without a recessed junction box. Allows for direct mounting to building surface. Arm may be configured for up to 3 conduit entries (1/2") total; 2 on the sides, 1 on top.

Configure as:

-JBL, -JBR: (1) conduit entry from left or right looking at fixture

-JB2 (2) conduit entry on sides -JBT (1) conduit entry on top

Photocell (/SDL):



Allows for energy savings when illumination is not need during between dawn to dusks. Cuts off power to LED's during day time or in illuminated environments.

Power Consumption .5W Voltage: 120V, 277V

On/Off Levels: On @ 0-2fc / Off @ 2fc or more

Warranty: 2-Year / 5,000 Cycles

Sensor Size: 3/8" Rating: UL/cUL

Surge Suppressor (/SRG):



Protects driver against surges in line voltage/current $(20KV, 1.2/50\mu S \& 10KA, 8/20\mu S).$

Provides a positive indication of end-of-life by opening voltage to the load.

Surge suppressor is a perishable device requiring periodic replacement.

Not a warrantied item.



WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Electrical

LED Driver: AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted. Power Factor > 0.90. See Dimming Section for voltage and wiring.

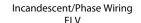
Minimum Operating Temperature:

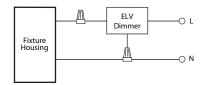
Standard: -10°C/14°F

-CW: Cold Weather Option: -30°C/-22°F

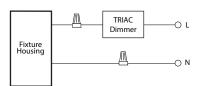
UE-DUN: -10°C/ 14°F

Dimming Options

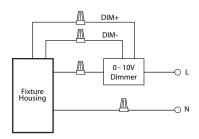




TRIAC



0 - 10V Wiring



UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

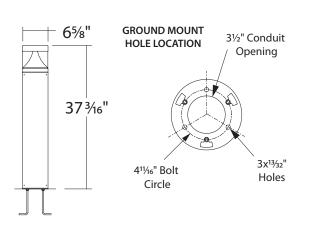
BL31 Fixture



TYPE PROJECT
CATALOG#

BL31: 7" LED ROUND BOLLARD

AMBER (TURTLE SAFE) (FLAT TOP) 2300LM (28W)





























- Up to 83% energy savings
- · Glare Free
- Corrosion-resistant polyester powder coat finish
- Available in Black, White, Silver, and Bronze
- 120V/277V standard
- Universal Dimming option dims with ELV, 2-Wire 0-10V Dimming Systems
- 5-Year Limited Warranty
- Up to 20' O.C. spacing





Dimming



Turtle Safe Requirements:

LOW: The product is designed for low to medium ceiling heights and delivered lumen output is sufficient to produce enough foot-candles to satisfy building codes but not overpower the environment with excessive lumen output. **SHIELDED:** The trim is deeply recessed and provides a minimum of 50° of glare cutoff. The trim reflector color is black to limit re-flections. The beam spread is tightly controlled.

LONG: LED color is verified as 560nm or longer.

ORDERING: BL31B-BUE-DUN-TAM-BIII

Reflector Finish

Finish		Reflect	orFinish	Dimming		LED		Distribution	
Black	В	Black	-B	120v/277V	UE	590nm	-TAM	Type III - 90°	-BIII
Bronze	BZ					AMBER		Wide Forward	
Silver	S ¹			UniDim [™]	UE-DUN			Throw	
White	\mathbf{W}^{1}			120V/277V					

Distribution

LED

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.



¹ Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult Factory.



BL31: 7" LED ROUND BOLLARD AMBER (TURTLE SAFE) (FLAT TOP) 2300LM (28W)

SPECIFICATION

Application	
	This Turtle Safe Bollard is designed for indoor and outdoor applications where low-level illumination is required. Bollards are used to light walkways, public gathering spaces, gardens, along waterfronts and marinas and other public and private areas.
Luminaire Construction	
	High grade extruded aluminum tube with die cast aluminum top and base. The luminaire is secured to the base by three (3) tamper resistant, stainless steel setscrews. Base is mounted to Anchor Bolt Assembly Kit by three (3) nuts andwashers. Note: A solid foundation for installation is recommended.
Luminaire Enclosure	
	Flat, one-piece top is constructed of heavy duty die cast aluminum housing with a powder coat finish. A clear U.V. stabilized polycarbonate molded lens, interior anodized aluminum louvers and top anodized reflector provides a 360° symmetrical light distribution. Luminaire enclosure is secured to lower housing by three (3) tamper resistant, stainless steel set screws and silicone gasket for quick installation and/or relamping.
Lumen Maintenance	
	Minimum 50,000 hours L70 life based on ANSITM-21 calculations from LM80 standardized test results. See ordering guide for delivered lumens.
Thermal Management	
	Effective thermal dissipation facilitated by integral cast-aluminum, heat sink design for maximum heat rejection to provide long LED life.
Dimming	
	(-DUN) option is a universal dimming system that works with most 3-Wire ELV, 2-Wire Incandescent and 5-Wire 0-10V fluorescent dimmers.
Electrical	
	Through wiring, a maximum of four (4) No. 12 AWG conductors (plus ground wire), rated 90°C min. A 3" diameter conduit opening at base bottom provided.
Certifications and Listings	
	ETL / cETL Listed to UL1598 and UL8750 standards.
	Suitable wet locations. (IP65)
Intertek	Assembled in USA.
	IK08 rated for impact resistance.





BL31: 7" LED ROUND BOLLARD AMBER (TURTLE SAFE) (FLAT TOP) 2300LM (28W)

SPECIFICATION (Continued)

Finish







Available in Black, Bronze, Silver and White.

Distribution

Type III - 90° Wide Forward Throw.

LED



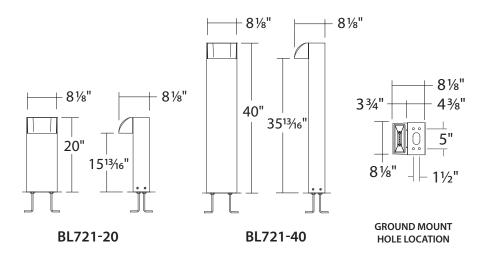
Available in 590nm Amber.



TYPE CATALOG# **PROJECT**

BL721:8"x4" SCOOP BOLLARD

(IP65) - 590NM - AMBER (TURTLE SAFE) (15W)





















- Sleek architectural design
- Durable, corrosion resistant finish
- Emergency back up available
- 5-year limited warranty





BL721





Turtle Safe Requirements:

LOW: The product is designed for low to medium ceiling heights and delivered lumen output is sufficient to produce enough foot-candles to satisfy building codes but not overpower the environment with excessive lumen output. SHIELDED: The trim is deeply recessed and provides a minimum of 50° of glare cutoff. The trim reflector color is black to limit reflections. The beam spread is tightly controlled.

LONG: LED color is verified as 585nm minimum and 595nm maximum.

ORDERING: BL721-20B-TAM-LVR

Bronze

Silver

Fixtu	re	Height	Finish	Lens	LED	<u> </u>
Heig	ht	Finish		Lens		LED
20"	-20	Black	В	Clear	Blank	590nm Amber
40"	-40	White	\mathbf{W}^{1}	Frosted	-FR	

BZ¹

S1

¹ Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult Factory.

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.

-TAM-LVR





BL721: 8"x4" SCOOP BOLLARD (IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

SPECIFICATION

Application	
	This single head bollard is designed for outdoor applications where a Dark Sky compliant illumination is required. Bollards are used to light walkways, public gathering spaces, gardens, along waterfronts and marinas and other public and private areas.
Post	
	High grade rectangular extruded aluminum with a high grade powder coat finish. Includes liquid tight plug for cord entry and a zinc plated steel base with a high grade powdercoat finish and an anchor bolt kit. The base is secured to the post by four (4) tamper resistant, stainless steel flat head screws and the base is mounted to the ground by four (4) anchor bolts and eight (8) nuts and washers. Note: A solid foundation for installation is recommended. Post can accommodate daisy chain and through wiring.
Head	
	Constructed from a two (2) piece high grade die cast aluminum with a high grade powder coat finish. Includes a clear tempered glass lens (sits flush to the head), LED array, reflector, LED driver, silicone gasket and a hole with liquid tight plugs for cord to exit the post. The two piece housing is secured together by four (4) tamper resistant stainless steel set screws and is secured to the post by two stainless steel screws.
Lumen Maintenance	
	Minimum 50,000 hours L70 life based on ANSITM-21 calculations from LM80 standardized test results. See ordering guide for delivered lumens.
Thermal Management	
	Effective thermal dissipation facilitated by integral cast-aluminum, heat sink design for maximum heat rejection to provide long LED life.
Electrical	
	LED driver, 120VAC, 50/60Hz, electronic Constant Current, Class 2, Power Factor > .90pf, integrally mounted.
Certifications and Listings	
	ETL / cETL Listed to UL1598 and UL8750 standards.
	Suitable wet locations. (IP65)
Intertek IP65	Assembled in USA.
	Note: Dark Sky compliant.





BL721:8"x4" SCOOP BOLLARD (IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

SPECIFICATION (Continued)

Caution	
	LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty.
Warranty	
	Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture should not be installed in applications with ambient temperature above 60 degrees C. Doing so will result in reduced lamp life and voided warranty.
Finish	
(W) (S) (BZ) (B)	A vailable in Black, White, Bronze, and Silver.



LED

Turtle Safe 590nm Amber.



BL721:8"x4" SCOOP BOLLARD

(IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

PHOTOMETRY

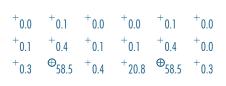
BL721-20B-TA	M-LVR	
System Power	: 16.5W	
Test Date	:04/20/2020	
Beam Angle 50% Field Angle 10%	: 56.8° H / 38.9° V : 93.5° H / 59.4° V	
Nanometers (nm) (Ambe	er) : 590nm	
Lumens Delivered	: 81.0	
СВСР	:105	
Power Factor	: 0.98	

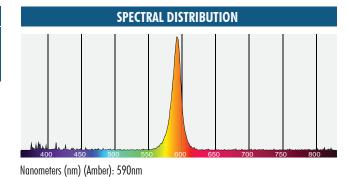
CANDELA TABULATION
90° 80° 70° 60° 40° 30° 26 70° 60° 60° 70° 60° 50° 40° 20° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1

Maximum Candela =75 Located At Horizontal Angle =0, Vertical Angle =5 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

#2-	 Vertical 	Plane	Through	Horizontal	Angles	(90 -	270)	

Statistics:							
Description	Bollard Symbol	FC loc. Symbol	Avg	Max	Min	Max/Min	AvgMin
Calc Zone #1	0	+	6.4fc	58.5fc	0.00fc	500+	16.1
	<u> </u>	<u> </u>		7			





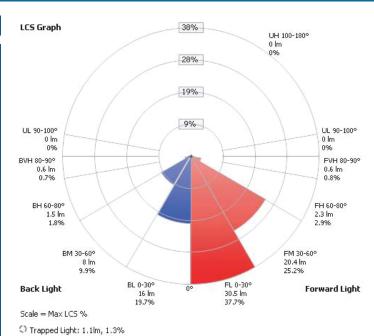
NOTES:

1. On center spacing: 6 ft

LCS TABLE

2. Distance between fc reading: 2 ft

BUG Rating	ВО -	U1 - G0
Forward Light	Lumens	Lumens %
Low (0-30):	30.5	37.70%
Medium (30-60):	20.4	25.20%
High (60-80):	2.3	2.90%
Very High (80-90):	0.6	0.80%
Back Light		
Low (0-30):	16.0	19.70%
Medium (30-60):	8	9.90%
High (60-80):	1.5	1.80%
Very High (80-90):	0.6	0.70%
Up Light		
Low (90-100):	0	0.00%
High (100–180):	0	0%
Trapped Light:	1.1	1%





BL721: 8"x4" SCOOP BOLLARD

(IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

PHOTOMETRY (Continued)

BL721-40B-TAM-LVR

System Power	: 16.5W
Test Date	: 04/20/2020
Beam Angle 50% Field Angle 10%	:56.8° H / 38.9° V :93.5° H / 59.4° V
Nanometers (nm) (Ambe	er) : 590nm
Lumens Delivered	: 81.0
СВСР	: 105
Power Factor	: 0.98

CANDELA TABULATION
90° 80° 70° 60° 40° 30° 20° 10° 10° 10° 20° 30° 20° 30° 20° 30° 20° 30° 20° 30° 30° 30° 30° 30° 30° 30° 3

Maximum Candela =75 Located At Horizontal Angle =0, Vertical Angle =5 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through	Horizontal Angles ((90 -	270)
------------------------------	---------------------	-------	------

Statistics:							
Description	Bollard Symbol	FC loc. Symbol	Avg	Max	Min	Max/Min	AvgMin
Calc Zone #1	0	+	1.6fc	11.7fc	0.00fc	389	93.7

+0.0	+0.1	+0.1	+0.1	+0.1	+0.1	+0.1	+0.1	+0.0	
+0.1	+0.9	+2.3	+0.9	+0.1	+0.9	+2.3	+0.9	+0.1	
+0.1	+2.6	⊕ _{11.7}	+2.6	+0.2	+2.6	⊕ _{11.7}	+2.6	+0.1	



1. On center spacing: 8 ft

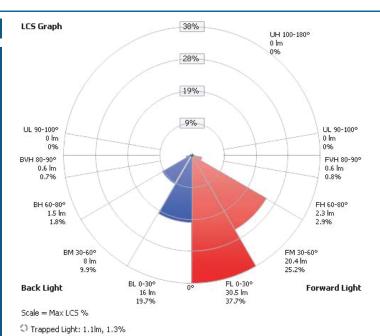
LCS TABLE

2. Distance between fc reading: 2 ft

SPE	CTRAL DISTRIBUT	ION	
400 450 500	550 600 65	0 700 750	800
Name and the same (Amb and COO.			

Nanometers (nm) (Amber): 590nm

BUG Rating	B0 -	U1 - G0
Forward Light	Lumens	Lumens %
Low (0-30):	30.5	37.70%
Medium (30-60):	20.4	25.20%
High (60-80):	2.3	2.90%
Very High (80-90):	0.6	0.80%
Back Light		
Low (0-30):	16.0	19.70%
Medium (30-60):	8	9.90%
High (60-80):	1.5	1.80%
Very High (80-90):	0.6	0.70%
Up Light		
Low (90-100):	0	0.00%
High (100–180):	0	0%
Trapped Light:	1.1	1%



TYPE CATALOG#

PROJECT

BL731: 8"x4" TRAPEZOID BOLLARD

(IP65) - 590NM - AMBER (TURTLE SAFE) (15W)











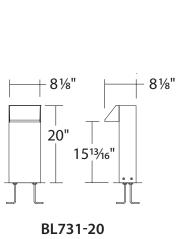


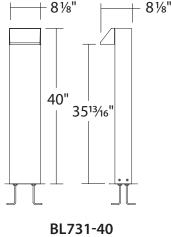






- Sleek architectural design
- · Durable, corrosion resistant finish
- · 5-year limited warranty







GROUND MOUNT HOLE LOCATION









Turtle Safe Requirements:

LOW: The product is designed for low to medium ceiling heights and delivered lumen output is sufficient to produce enough foot-candles to satisfy building codes but not overpower the environment with excessive lumen output. **SHIELDED:** The trim is deeply recessed and provides a minimum of 50° of glare cutoff. The trim reflector color is black to limit reflections. The beam spread is tightly controlled.

LONG: LED color is verified as 585nm minimum and 595nm maximum.

ORDERING: BL731-20B-TAM-LVR

BL731				
Fixture	Height	Finish	Lens	LED

Heig	ht	Finish		Lens		LED	
20"	-20	Black	В	Clear	Blank	590nm Amber	-TAM-LVR ²
40"	-40	White	\mathbf{W}^{1}	Frosted	-FR		
		Bronze	BZ ¹				
		Silver	S ¹				

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.

¹Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult factory.

² Special Order. Minimum Order. Extended lead time may apply. Consult factory.



BL731: 8"x4" TRAPEZOID BOLLARD (IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

SPECIFICATION

Application	
	This single head bollard is designed for outdoor applications where a Dark Sky compliant illumination is required. Bollards are used to light walkways, public gathering spaces, gardens, along waterfronts and marinas and other public and private areas.
Post	
	High grade rectangular extruded aluminum with a high grade powder coat finish. Includes liquid tight plug for cord entry and a zinc plated steel base with a high grade powdercoat finish and an anchor bolt kit. The base is secured to the post by four (4) tamper resistant, stainless steel flat head screws and the base is mounted to the ground by four (4) anchor bolts and eight (8) nuts and washers. Note: A solid foundation for installation is recommended. Post can accommodate daisy chain and through wiring.
Head	
	Constructed from a two (2) piece high grade die cast aluminum with a high grade powder coat finish. Includes a clear tempered glass lens (sits flush to the head), LED array, reflector, LED driver, silicone gasket and a hole with liquid tight plugs for cord to exit the post. The two piece housing is secured together by four (4) tamper resistant stainless steel set screws and is secured to the post by two stainless steel screws.
Lumen Maintenance	
	Minimum 50,000 hours L70 life based on ANSITM-21 calculations from LM80 standardized test results. See ordering guide for delivered lumens.
Thermal Management	
	Effective thermal dissipation facilitated by integral cast-aluminum, heat sink design for maximum heat rejection to provide long LED life.
Electrical	
	LED driver, 120VAC, 50/60Hz, electronic Constant Current, Class 2, Power Factor > .90pf, integrally mounted.
Certifications and Listings	
	ETL / cETL Listed to UL1598 and UL8750 standards.
	Suitable wet locations. (IP65)
Intertek IP65	Assembled in USA.
	Note: Dark Sky compliant.





BL731: 8"x4" TRAPEZOID BOLLARD (IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

SPECIFICATION (Continued)

Caution	
	LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty.
Warranty	
	Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture should not be installed in applications with ambient temperature above 60 degrees C. Doing so will result in reduced lamp life and voided warranty.
Finish	
(W) (S) (BZ) (B)	A vailable in Black, White, Bronze, and Silver.



LED

Turtle Safe 590nm Amber.



BL731: 8"x4" TRAPEZOID BOLLARD

(IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

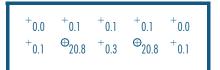
PHOTOMETRY

BL731-20B-TAM-LVR		
System Power	:9.7W	
Test Date	:11/7/2019	
Beam Angle 50% Field Angle 10%	:52.2° H / 38.8° V :88° H / 60.6° V	
Nanometers (nm) (Ambe	er) : 590nm	
Lumens Delivered	:51.17	
CBCP	:75	
Power Factor	: 0.98	

CANDELA TABULATION
90° 80° 70° 60° 50° 40° 20° 10° 10° 20° 10° 20° 10° 20° 20° 20° 20° 20° 20° 20° 2

Maximum Candela =75 Located At Horizontal Angle =0, Vertical Angle =5 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) # 2 - Vertical Plane Through Horizontal Angles (90 - 270)

Statistics:							
Description	Bollard Symbol	FC loc. Symbol	Avg	Max	Min	Max/Min	AvgMin
Calc Zone #1	0	+	3.0fc	20.8fc	0.10fc	500+	76.00



NOTES:

1. On center spacing: 4 ft

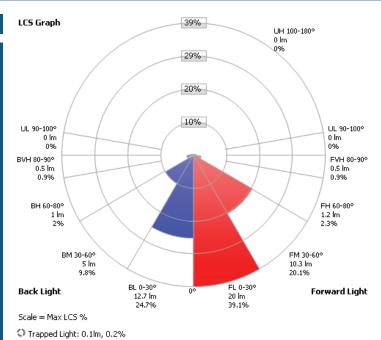
LCS TABLE

2. Distance between fc reading: 2 ft

SPECT	RAL DISTRIB	UTION	
400 450 500 51	50 600	650 700	750 800

Nanometers (nm) (Amber): 590nm

BUG Rating		B0 - U1 - G0			
	Forward Light	Lumens	Lumens %		
	Low (0-30):	20	39.10%		
	Medium (30-60):	10.3	20.10%		
	High (60-80):	1.2	2.30%		
	Very High (80-90):	0.5	0.90%		
	Back Light				
	Low (0-30):	12.7	24.70%		
	Medium (30-60):	5	9.80%		
	High (60-80):	1	2.00%		
	Very High (80-90):	0.5	0.90%		
	Up Light				
	Low (90-100):	0	0.00%		
	High (100-180):	0	0%		
	Trapped Light:	0.1	0%		





BL731: 8"x4" TRAPEZOID BOLLARD

(IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

PHOTOMETRY (Continued)

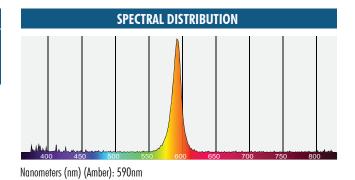
ystem Power	: 9.7W
Test Date	:11/7/2019
Beam Angle 50% Field Angle 10%	:52.2° H / 38.8° V :88° H / 60.6° V
Nanometers (nm) (Amb	er) : 590nm
Lumens Delivered	:51.17
СВСР	:75
Power Factor	: 0.98

CANDELA TABULATION
90° 80° 70° 60° 40° 30° 20° 10° 20° 10° 20° 20° 10° 20° 20° 20° 20° 20° 20° 20° 2

Maximum Candela =75 Located At Horizontal Angle =0, Vertical Angle =5 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Pla	ne Through Horizonta	I Angles	(90 - 270)	

Statistics:							
Description	Bollard Symbol	FC loc. Symbol	Avg	Max	Min	Max/Min	AvgMin
Calc Zone #1	0	+	1.1fc	8.5fc	0.10fc	412	55.00
	0.4 + 1.6	0.4 + 0.1	+0.0 +0.4 +1.8	+0.1 +1.6 +8.2	+0.0 +0.4 +1.7	+0.0	



NOTES:

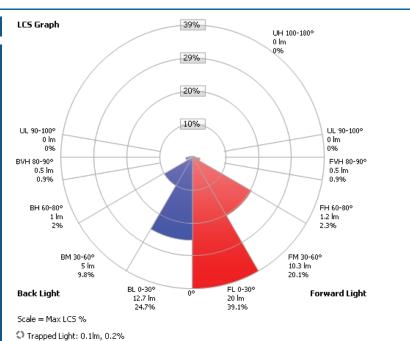
2019.11.11

1. On center spacing: 8 ft

LCS TABLE

2. Distance between fc reading: 2 ft

BUG Rating	ВО -	U1 - G0
Forward Light	Lumens	Lumens %
Low (0-30):	20	39.10%
Medium (30-60):	10.3	20.10%
High (60-80):	1.2	2.30%
Very High (80-90):	0.5	0.90%
Back Light		
Low (0-30):	12.7	24.70%
Medium (30-60):	5	9.80%
High (60-80):	1	2.00%
Very High (80-90):	0.5	0.90%
Up Light		
Low (90-100):	0	0.00%
High (100–180):	0	0%
Trapped Light:	0.1	0%



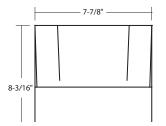
TYPE

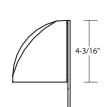
PROJECT

CATALOG#

IWD1472:8"x4" SCOOP

1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)











































- · Wlldlife Lighting Approved
- True Amber Narrow Wavelength 590nm LED
- Now with Integral Emergency Option!
- Sleek architectural design
- · Durable, corrosion resistant finish
- Emergency back up available
- · 5-year limited warranty

ORDERING: WD1472B-FRUE-D10-TAM-LVR-BIV-EMAC

WD1472
Fixture

Dimming

LED Optics Emergency Options

LED

Options

White	(RAL 9003)	W
Silver	(RAL 7037)	S
Bronze	(RAL 8019)	ΒZ
Black	(RAL 9005)	В
Light Silver	(RAL 7036)	LS ²
Dark Grey	(RAL 7015)	DG^2
Metallic Gold	(RAL 1001)	MG^2
Metallic Black	(RAL 7021)	MB^2

Finish

Clear **Blank** Frosted -FR

Dimming	
Non-Dimming (120V)	Blank
ELV and Triac Dimming (120V)	-DIN
0-10V Dimming (120V/277V)	UE-D10
0-10V 1% Dimming (120V/277V)	UE-D10P1
UniDim [™] (120V/277V) 347V 0-10V Dimming	UE-DUN -347-D10 ¹

M-LVR
Blank
-BIV
-BWW

Emergency Options

None	Blank
Remote	-EMAC
Back Pack (Side Mount)	-EMB-SD ²
Back Pack (Face Mount)	-EMB-FC ²
Back Pack (Empty)	-EMB-BLANK ^{2,3}

Options

None	Blank
Photocell Sensor	-SDL
Signage Plate	-PL¹

- ¹ Special order. Minimum order quantity, extended lead time, and setup fee may apply. Consult factory.
- ² Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult Factory.
- ³ Blank EM enclosure available for Non-EM units to provide a seamless design aesthetic when EM enabled products are installed.

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.



1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION

Application

This WD1 series single direction wall mount luminaire can be used for both interior and outdoor locations. The single reflector design can be used for direct illumination downward or indirect illumination upward for new construction or retrofit installations. Typical locations are in residential, commercial, and architectural facades and retail spaces that contain walls and/or columns.

Housing

Constructed from two (2) pieces of high grade die cast aluminum with a high grade powder coat finish. Includes a faceplate with a tempered glass lens (sits flush to the housing), LED array, reflector, LED driver, silicone gasket and a wire exit hole to junction box wiring. The two piece housing is secured together by four (4) tamper resistant stainless steel set screws.

Mounting:

The fixture mounts on to a wall directly over standard 3-1/2" junction box or other similar size junction boxes.

Finish:



A 7-stage electrostatic, polymer process provides an outdoor textured powder coat finish that delivers outstanding durability, superior anti-aging, resistance to corrosion and UV-degradation. Consult factory for Custom Color. (More Information)

Standard Finishes:

Standard Finishes:		Special Order Finishes:			
White:	RAL 9003	(W)	Light Silver:	RAL 7036	(LS)
Silver:	RAL 7037	(S)	Dark Gray:	RAL 7015	(DG)
Bronze:	RAL 8019	(BZ)	Metallic Gold:	RAL 1001	(MG)
Black:	RAL 9005	(B)	Metallic Black:	RAL 7021	(MB)

Certifications and Listings:

(DG)

(LS)





(MG)



(MB)







ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations. (IP65)

Assembled in USA.

IK08 rated for impact resistance.

Certified by the Florida Fish and Wildlife Conservation Commission

as Wildlife Lighting Approved.



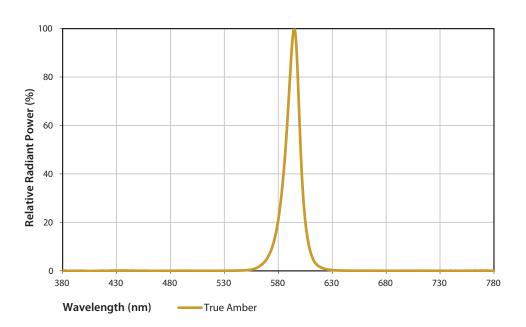


1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Caution:	LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty.	
Warranty	ourge aurilage is not concluded, manually,	
	Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture should not be installed in applications with ambient temperature above 50°C/122°F. Doing so will result in reduced lamp life and voided warranty.	
Optics		
	The one piece, heavy-gauge aluminum reflector with deeply mounted LEDs provides	
	50° visual cutoff for a glare-free appearance.	
LED		
	Linear LED light source provides for smooth, uniform light output.	
Lumen Maintenance:	Lumen Maintenance is aminimum 50,000 hours L70 life based on ANSI TM-21 calculations	
	from LM80 standardized test results.	
Lumen Options (Nominal):	250lm (22W)	
Color Temperature:	Binned with 4-step MacAdam ellipses as per ANSI Standard recommendation.	





True Amber - Narrow Band LEDs centered at 590nm with no spectral content below 560nm are supplied.



1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Emergency Options

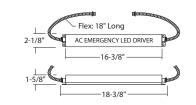
When AC power fails, provides 90 minutes of power to the luminaire. In the event of a power failure, the LED Emergency backup switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single enclosure.

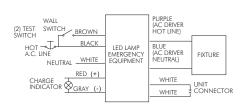
Remote Emergency Back Up (-EMAC):

For installation away from the surface of the building in remote hidden location.

- Hidden Emergency Equipment
- · Must be installed in Dry Locations

Not rated for outdoor mounting. Damp location rated.





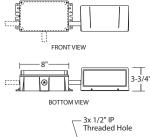
25 Watts (Max)
6 Watts (Max)
≥90 minutes
0°C/32°F to 50°C/122°F
100-277 VAC, 50-60Hz
High Temp Nickel- Cadmium
48 Hour Recharge
7-10 Year Life
Expectancy
24 hours
25'
3 lbs.
2-year
None

Back Pack Side Mount (-EMB-SD/FC):

Illiminates need for long runs back to remote emergency battery location. Installs directly on building surface. Ideal for locations wanting same mounting aesthetics for Emergency and Non-Emergency fixtures without the use of remote Emergency power. Can be fed from recessed wall mounted junction box from the back of fixture or surface conduit from side of fixture.

- · Wet location rated
- 120V-347V operation
- Self diagnostic
- · Integral surge protector for emergency driver only
- Includes (2) 1/2" NPT knock-outs
- · Optional -EMB-BLANK can be used to maintain a common aesthetic when -EMB-FC are used.









Output Power:	30 Watts (Max)
Input Power:	76 Watts (Max)
Emergency Operation:	≥90 minutes
Operating temp:	0°C/32°F to 50°C/122°F
Input Voltage:	120V-347 VAC
Battery:	Recyclable lithium battery
	24 Hour Recharge
	7-10 Year Life Expectancy
Charge Time:	24 hours
Max Distance:	25'
\\/-:I-+	
Weight:	3-3/4 lbs.
Warranty:	3-3/4 lbs. 5-year
	3 3, 1.23.



1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Additional Options

Photocell Sensor (-SDL):

Allows for energy savings when illumination is not need during between dawn to dusks. Cuts off power to LED's during day time or in illuminated environments.

Power Consumption .5W Voltage: 120V, 277V

On/Off Levels: On @ 0-2fc / Off @ 2fc or more

Warranty: 2-Year / 5,000 Cycles

Sensor Size: 3/8" Rating: UL/cUL

Electrical

LED Driver: AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted.

Power Factor > 0.90. See Dimming Section for voltage and wiring.

Minimum Operating Temperature

Standard: -10°C/14°F



1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Dimming Options

ELV and TRIAC Driver 120V (-DIN):

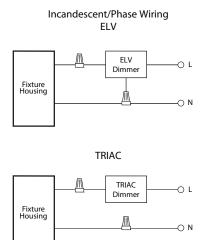
Compatible with electronic low voltage, and 2-Wire incandescent dimmers. Also known as leading edge, Reverse Phase, Forward Phase dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations.

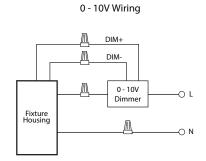
0-10V Driver 120V/277V (UE-D10):

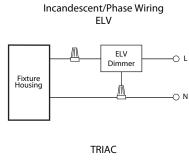
Compatible with most existing 0-10V systems. Also known as fluorescent or 5-Wire dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations. Compatible with daylight harvesting controls.

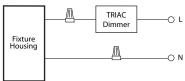
UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

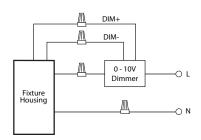








0 - 10V Wiring

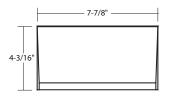


TYPE CATALOG#

PROJECT

| WD1473:8" x 4" TRAPEZOID

1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)









Cold Wes































- Now with Integral Emergency Option!
- Sleek architectural design
- · Durable, corrosion resistant finish
- Emergency back up available
- 5-year limited warranty

ORDERING: WD1473W-FR-DIN-TAM-LVR-BWW-EMB-FC-SDL

W	D.	14	73

Fixture Finish Lens Dimming LED Optics Emergency Options
Options

Finish		
White	(RAL 9003)	W
Silver	(RAL 7037)	S
Bronze	(RAL 8019)	BZ
Black	(RAL 9005)	В
Light Silver	(RAL 7036)	LS ²
Dark Grey	(RAL 7015)	DG^2
Metallic Gold	(RAL 1001)	MG^2
Metallic Black	(RAL 7021)	MB^2

Lens	
Clear	Blank
Frosted	-FR

Dimming	
Non-Dimming (120V)	Blank
ELV and Triac Dimming (120V)	-DIN
0-10V Dimming (120V/277V)	UE-D10
0-10V 1% Dimming (120V/277V)	UE-D10P1

(1200/2/70)	
UniDim™ (120V/277V)	UE-DUN
347V 0-10V Dimming	-347-D10 ¹

LED	
590nm AMBER	-TAM-LVR
Optics	
None	Blank
Forward Throw (Type IV)	-BIV
Wall Wash	-BWW

Emergency Options

None	Blank
Remote	-EMAC
Back Pack (Side Mount)	-EMB-SD ²
Back Pack (Face Mount)	-EMB-FC ²
Back Pack (Empty)	-EMB-BLANK ^{2,3}

Options

None	Blank
Photocell Sensor	-SDL
Signage Plate	-PL¹

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.



¹ Special order. Minimum order quantity, extended lead time, and setup fee may apply. Consult factory.

² Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult Factory.

³ Blank EM enclosure available for Non-EM units to provide a seamless design aesthetic when EM enabled products are installed.



IWD1473:8"x4"TRAPEZOID

1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION

Application

This WD1 series single direction wall mount luminaire can be used for both interior and outdoor locations. The single reflector design can be used for direct illumination downward or indirect illumination upward for new construction or retrofit installations. Typical locations are in residential, commercial, and architectural facades and retail spaces that contain walls and/or columns.

Housing

Constructed from two (2) pieces of high grade die cast aluminum with a high grade powder coat finish. Includes a faceplate with a tempered glass lens (sits flush to the housing), LED array, reflector, LED driver, silicone gasket and a wire exit hole to junction box wiring. The two piece housing is secured together by four (4) tamper resistant stainless steel set screws.

Mounting:

The fixture mounts on to a wall directly over standard 3-1/2" junction box or other similar size junction boxes.

Finish:



(MG)

A 7-stage electrostatic, polymer process provides an outdoor textured powder coat finish that delivers outstanding durability, superior anti-aging, resistance to corrosion and UV-degradation. Consult factory for Custom Color. (More Information)

Special Order Finishes:

Standard Finishes:

		- p
White:	RAL 9003 (W)	Light Silver: RAL 7036 (LS)
Silver:	RAL 7037 (S)	Dark Gray: RAL 7015 (DG)
Bronze:	RAL 8019 (BZ)	Metallic Gold: RAL 1001 (MG)
Black:	RAL 9005 (B)	Metallic Black: RAL 7021 (MB)

Certifications and Listings:

(LS)





(DG)



(MB)







ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations. (IP65)

Assembled in USA.

IK08 rated for impact resistance.

Certified by the Florida Fish and Wildlife Conservation Commission

as Wildlife Lighting Approved.



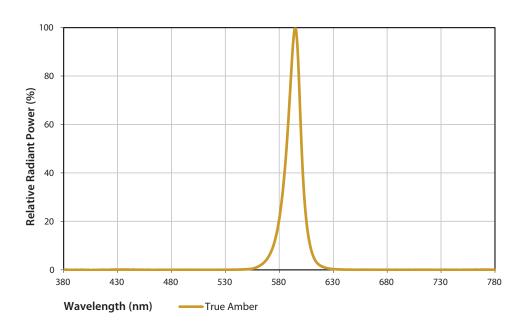


1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

LITON recommends use of surge protectors on the power entering LED Housings.
Surge damage is not covered by warranty.
Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship.
Fixture should not be installed in applications with ambient temperature above 50°C/122°F
Doing so will result in reduced lamp life and voided warranty.
The one piece, heavy-gauge aluminum reflector with deeply mounted LEDs provides
50° visual cutoff for a glare-free appearance.
Linear LED light source provides for smooth, uniform light output.
Lumen Maintenance is aminimum 50,000 hours L70 life based on ANSI TM-21 calculations
from LM80 standardized test results.
250lm (22W)
Binned with 4-step MacAdam ellipses as per ANSI Standard recommendation.





True Amber - Narrow Band LEDs centered at 590nm with no spectral content below 560nm are supplied.



1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Emergency Options

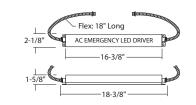
When AC power fails, provides 90 minutes of power to the luminaire. In the event of a power failure, the LED Emergency backup switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single enclosure.

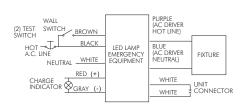
Remote Emergency Back Up (-EMAC): .

For installation away from the surface of the building in remote hidden location.

- Hidden Emergency Equipment
- · Must be installed in Dry Locations

Not rated for outdoor mounting. Damp location rated.





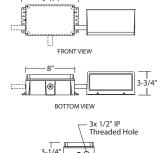
25 Watts (Max)
6 Watts (Max)
≥90 minutes
0°C/32°F to 50°C/122°F
100-277 VAC, 50-60Hz
High Temp Nickel- Cadmium
48 Hour Recharge
7-10 Year Life
Expectancy
24 hours
25'
3 lbs.
2-year
None

Back Pack Side Mount (-EMB-SD/FC):

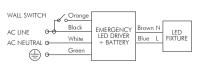
Illiminates need for long runs back to remote emergency battery location. Installs directly on building surface. Ideal for locations wanting same mounting aesthetics for Emergency and Non-Emergency fixtures without the use of remote Emergency power. Can be fed from recessed wall mounted junction box from the back of fixture or surface conduit from side of fixture.

- · Wet location rated
- 120V-347V operation
- · Self diagnostic
- · Integral surge protector for emergency driver only
- Includes (2) 1/2" NPT knock-outs
- · Optional -EMB-BLANK can be used to maintain a common aesthetic when -EMB-FC are used.









Output Power:	30 Watts (Max)
Input Power:	76 Watts (Max)
Emergency Operation:	≥90 minutes
Operating temp:	0°C/32°F to 50°C/122°F
Input Voltage:	120V-347 VAC
Battery:	Recyclable lithium battery
	24 Hour Recharge
	7-10 Year Life Expectancy
Charge Time:	24 hours
Max Distance:	25'
Weight:	3-3/4 lbs.
Warranty:	5-year
Surge Protection:	Integral 3,000V
Self-diagnostic testing:	Monthly 30 sec. test, Yearly 90 min. test to verify proper emergency operation per life safety code requirements.



1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Additional Options

Photocell Sensor (-SDL): Allows for energy savings when illumination is not need during between dawn to dusks.

Cuts off power to LED's during day time or in illuminated environments.

Power Consumption .5W Voltage: 120V, 277V

On/Off Levels: On @ 0-2fc / Off @ 2fc or more

Warranty: 2-Year / 5,000 Cycles

Sensor Size: 3/8" Rating: UL/cUL



Electrical

LED Driver: AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted.

Power Factor > 0.90. See Dimming Section for voltage and wiring.

Minimum Operating Temperature

Standard: -10°C/14°F



1-DIRECTIONAL WALL MOUNT (IP65) AMBER (TURTLE SAFE) 250LM (22W)

SPECIFICATION (Continued)

Dimming Options

ELV and TRIAC Driver 120V (-DIN):

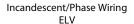
Compatible with electronic low voltage, and 2-Wire incandescent dimmers. Also known as leading edge, Reverse Phase, Forward Phase dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations.

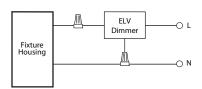
0-10V Driver 120V/277V (UE-D10):

Compatible with most existing 0-10V systems. Also known as fluorescent or 5-Wire dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations. Compatible with daylight harvesting controls.

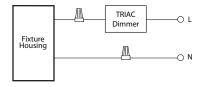
UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

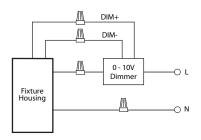




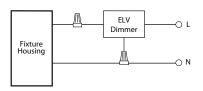
TRIAC



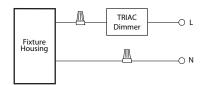
0 - 10V Wiring



Incandescent/Phase Wiring ELV



TRIAC



0 - 10V Wiring

