ORCA Series
LED General & Emergency Lighting

PROJECT:
FIXTURE TYPE:
LOCATION:
CONTACT/PHONE:

PRODUCT DESCRIPTION

Ideal for applications requiring low-profile, attractive emergency lighting with Optional normally-off or normally-on security night lighting with photocell control. Provides a minimum of 90 minutes of illumination both indoors and outdoors upon loss of AC power. Features three field-adjustable light distribution settings: Wide Throw, Forward Throw and T-Cross.

OPTICS

LEDs with L70 of 55,000 hours. Delivers xxx lumens in Normal-On and Emergency operation. Features three field-adjustable light distribution settings: Wide Throw, Forward Throw and T-Cross. Outdoor wide throw distribution: 88' (3' path of egress) at a 7.5' mounting height with 1 FC Average. 4,000K correlated color temperature (CCT). 70 CRI. Easy adjustable lamp heads.

BATTERY

Sealed, maintenance-free Lithium Iron Phosphate battery. 24 hour recharge after 90 minute discharge.

CONSTRUCTION

Compact, low-profile, architectural design with UV-stabilized polycarbonate housing. Crystal clear cover constructed of automotive grade, AMECA* listed UV-resistant material ensuring high temperature durability and resistance to discoloration over time. The innovative hinged cover design allows for easy installation and maintenance. Color finishes available: Dark Bronze, White, Black and Gray. Test switch and indicator light are located on the bottom of the housing and are easily accessible and visible from the ground.

*AMECA: Automotive Manufacturers Equipment Compliance Agency in the United States

ELECTRICAL

• 120-277VAC (120 thru 277V, 50/60hz). Current-limiting charger maximizes battery life and minimizes energy consumption to provide low operating costs.
• Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts. Regulated charge voltage maintains a stable charge voltage over a wide range of line voltages.
• Prevents over/undercharging that shortens battery life and reduces capacity. Filtered charger input minimizes charge voltage ripple and extends battery life.
• Security night lighting (normally-on) is controlled with a built-in photocell for automatic operation when ambient light levels are low. The photocell can be switched off for emergency only operation.

SELF-DIAGNOSTICS (STANDARD)

Self-Diagnostics: Continuously monitors AC functionality. Standard derangement monitoring will indicate disconnected battery, charger failure and displays green flashing indicator light while in emergency mode. Single multi-chromatic LED indicator to display two-state charging, test activation and three-state self-diagnostics.
Self-diagnostic testing: One minute every 30 days and 90 minutes annually. Diagnostic evaluation of lamps, AC to DC transfer, battery charging and condition of microprocessor.
Manual testing: Test switch provides manual activation of diagnostic testing for on-demand visual inspection.

c UL us LISTED · FC · BC · RoHS compliant · WET LOCATION RATED · IP65 · >-30°C · LiFePO4

ORDERING INFORMATION

Model	Description
ORCA-HO-DB	1,050 Lumens Emergency Mode (450 Lumens AC), 32-122°F, Dark Bronze
ORCA-HO-WH	1,050 Lumens Emergency Mode (450 Lumens AC), 32-122°F, White
ORCA-HO-BK	1,050 Lumens Emergency Mode (450 Lumens AC), 32-122°F, Black
ORCA-HO-GY	1,050 Lumens Emergency Mode (450 Lumens AC), 32-122°F, Grey
ORCA-CW-DB	500 Lumens Emergency Mode (450 Lumens AC), -22°F to 122°F, Dark Bronze
ORCA-CW-WH	500 Lumens Emergency Mode (450 Lumens AC), -22°F to 122°F, White
ORCA-CW-BK	500 Lumens Emergency Mode (450 Lumens AC), -22°F to 122°F, Black
ORCA-CW-GY	500 Lumens Emergency Mode (450 Lumens AC), -22°F to 122°F, Grey

EXAMPLE: ORCA-HO-DB

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INSTALLATION

Wall or Ceiling mount. Innovative hinged cover design allows for easy installation and maintenance. Power supplied by either mounting directly to a 4" j-box and unit also accepts rigid or flex conduit through a top knockout.

LISTINGS

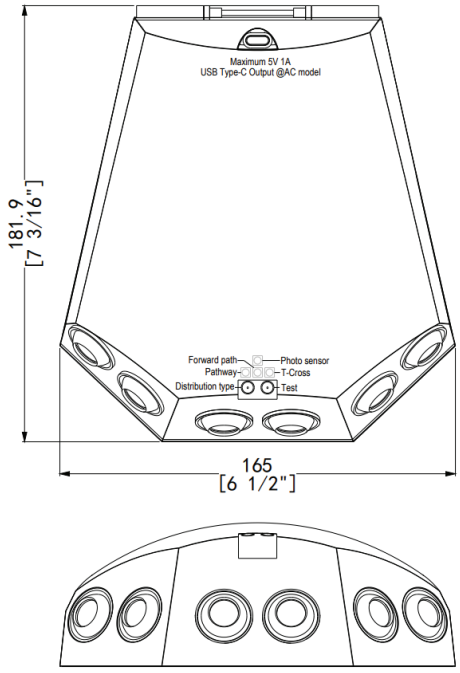
UL wet location listed standard at 32-122°F (0-50°C). Unit with CW battery (cold weather) listed for -22°F to 122°F (-30° to 50°C). Meets or exceeds all applicable requirements for UL 924, NFPA 101 (current Life Safety code), NFPA 70 (NEC), California Energy Commission Title 20 section 1605.3 (W)(4), FCC Title 47, Part 15, Subpart B and OSHA. List and labeled to comply with Canadian Standards C22.2 No. 141-10. Meets City of Chicago Code. IP65 RATED.

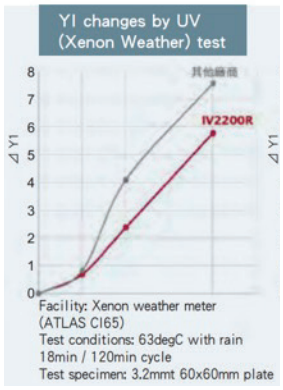
WARRANTY

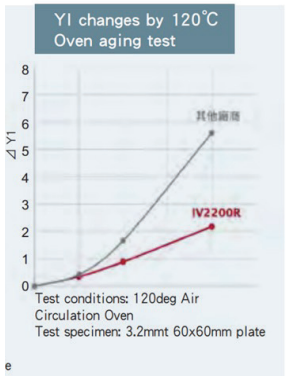
5-year limited warranty (Battery is prorated). This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed.

FINISHES

DIMENSIONS

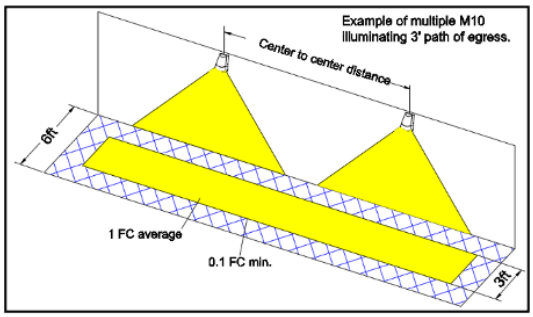


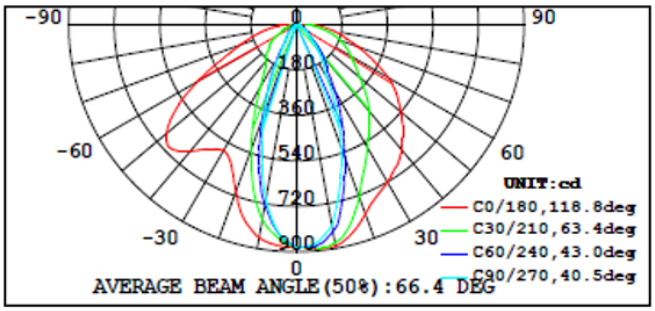




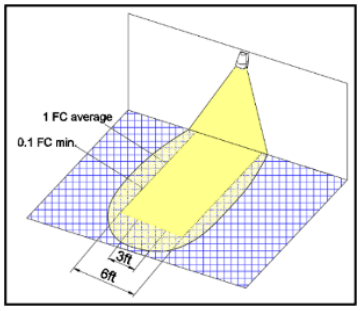
MOUNTING SPACING DISTANCE

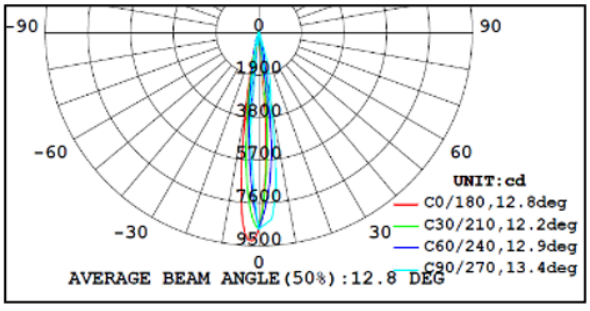
NFPA 101 requires 1.0 foot-candle average and 0.1 foot-candle minimum with a 40:1 maximum/minimum ratio. The corridor used is 100 feet long, 10 feet ceiling with a 6 feet wide walkway and 6&3 feet path of egress for calculation. The reflectance are 80% ceiling, 50% walls and 20% floors. The fixture mounting height is 7.5 feet /10ft.



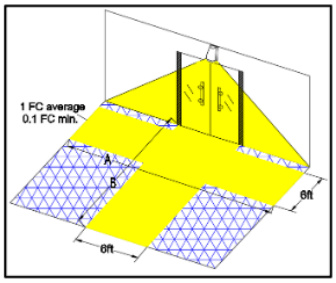


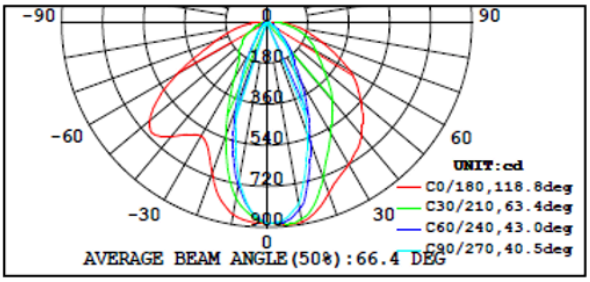
Spacing distance / Model No.	7.5ft height	10ft height	12ft height	14ft height
	6ft width corridor 3ft width path	6ft width corridor 3ft width path	6ft width corridor 3ft width path	6ft width corridor 3ft width path
ORCA-HO	88ft	100ft	90ft	80ft





Single Luminaire / Model No.	7.5ft height	10ft height	12ft height	14ft height
	6ft width corridor 3ft width path	6ft width corridor 3ft width path	6ft width corridor 3ft width path	6ft width corridor 3ft width path
ORCA-HO	30ft	35ft	40ft	41ft





Spacing distance / Model No.	7.5ft height	10ft height	12ft height	14ft height
	6ft width corridor 3ft width path	6ft width corridor 3ft width path	6ft width corridor 3ft width path	6ft width corridor 3ft width path
ORCA-HO	A*B=50ft*25ft	A*B=58ft*28ft	A*B=65ft*30ft	A*B=70ft*32ft