AN ORDINANCE OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, AMENDING CHAPTER 46 OF THE MIAMI BEACH CITY CODE, ENTITLED "ENVIRONMENT," BY AMENDING ARTICLE V. ENTITLED "TURTLE NESTING PROTECTION ORDINANCE," BY AMENDING SECTIONS 46-202, AND 46-203 THEREOF TO STRENGTHEN AND CLARIFY THE PROVISIONS OF THE EXISTING ORDINANCE AND INCLUDE RECOMMENDED MODIFICATIONS BY THE FLORIDA **FISH** AND WILDLIFE CONSERVATION COMMISSION ("FWC"); AND, PROVIDING FOR REPEALER, SEVERABILITY, CODIFICATION AND AN EFFECTIVE DATE.

WHEREAS, the beach along the Atlantic Ocean, within the boundaries of the City of Miami Beach, is utilized by federally and state protected sea turtles for nesting; and

WHEREAS, sea turtle nesting season in the State of Florida occurs between May 1 and October 31; however, sea turtle nesting begins on April 1st in the City of Miami Beach to account for the earlier Leatherback nesting season; and

WHEREAS, artificial night-time lighting directly affects and disorients adult sea turtles and hatchlings resulting in losses in turtle populations; and

WHEREAS, in 2006, the City Commission passed and adopted the City's Turtle Nesting Protection Ordinance No. 2006-3525, set forth in Chapter 46 of the City Code; and

WHEREAS, the Ordinance created a framework for the City to protect native sea turtles by minimizing beachfront lighting and reducing the impact on the native population; and

WHEREAS, the Miami-Dade County Sea Turtle Conservation Program surveys over nineteen (19) miles of beaches <u>daily</u> from March to October inclusive of hatched nests inventories and documentation of hatchling disorientations; and

WHEREAS, high densities of disorientation due to misdirected and artificial lighting were documented within South, Mid, and North Beach in 2022 and 2023; and

WHEREAS, the amendments to the existing ordinance are proposed to further reduce the damaging impacts of artificial light on sea turtles and be consistent with the Florida Fish and Wildlife Conservation Commission's ("FWC") recommendations; and

WHEREAS, the amendments include amending, clarifying, and expanding the definitions in Section 46-202 for consistency with FWC recommendations; and

WHEREAS, the amendments include modifying the prohibitive activities disruptive to marine turtles in Section 46-20 for consistency with FWC recommendations; and

WHEREAS, the amendments include removing the "exceeding 50% of the value of the structure" threshold for renovations to comply with lighting standards for new development; and

WHEREAS, the amendments include modifying the lighting standards for new and existing development to apply to lighting within line of sight of the beach, not just lighting east of the Coastal Construction Control Line (CCCL); and

WHEREAS, the amendments include lighting requirement options for existing interior lights for hotel and commercial properties (non-residential) that are visible from the beach and modify lighting standards.

WHEREAS, the amendments set forth below are necessary to accomplish the above objectives.

NOW THEREFORE, BE IT ORDAINED BY THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA.

SECTION 1. Article V of Chapter 46 of the City Code, entitled "Turtle Nesting Protection Ordinance," is hereby amended as follows:

ENVIRONMENT

Article V. Turtle Nesting Protection Ordinance

Sec. 46-201. Purpose and Intent.

The purpose of this article is to reduce the impacts of artificial coastal lighting on threatened and endangered sea turtles that nest on the beaches of Miami Beach by restricting artificial lighting and other activities that disorient turtle hatchlings, causing them to crawl toward land rather than toward the ocean. This article is intended to provide overall improvements in nesting habitat degraded by light pollution, and increase successful nesting activity and production of hatchlings. The restrictions and constraints of this article shall be effective within the incorporated areas of Miami Beach and apply to any coastal lighting or other activity that has potential to adversely impact sea turtles within City limits.

Sec. 46-202. Definitions.

Artificial light means any point source of light emanating from a device made by humans, including but not limited to incandescent mercury vapor, metal halide, sodium lamps, fluorescent, flashlights, spotlights, streetlights, vehicular lights, construction lights, security lights, cell phones, flash photography, bonfires, or any light emanating from any reflective surface of the device.

Beach means that area of unconsolidated material that extends landward from the mean low-water line of the Atlantic Ocean, to the place where there is a marked change in material or physiographic form, or to the line of permanent vegetation.

Bug type bulb means any yellow or other colored light bulb that is marketed as being specifically treated in such a way so as to reduce the attraction of bugs to the light.

Coastal construction activities mean any work or activity that is likely to have a material physical effect on existing coastal conditions or natural shore and inlet processes.

Coastal Construction Control Line (CCCL) means the line established by the State of Florida pursuant to section 161.053, Florida Statutes, and filed in the public records of the county, which defines that portion of the beach dune system subject to severe fluctuations based on a 100-year storm surge, storm waves or other predictable weather conditions.

County means Miami-Dade County.

Cumulatively illuminated visible means illuminated by numerous artificial light sources that as a group are directly or indirectly visible to an observer standing anywhere on illuminate any portion of the beach.

<u>Beachwalk</u> means the serpentine path located adjacent to the Atlantic ocean and west of the dune system.

Directly illuminated <u>visible</u> means illuminated as a result <u>visibility</u> of <u>the</u> glowing elements, lamps, globes, or reflectors of an artificial light source <u>by an observer standing</u> that is <u>visible to an observer</u> on the beach.

Dune means a mound or ridge of loose sediments, usually sand-sized, lying landward of the beach and deposited by any natural or artificial mechanism.

F.A.C. means the Florida Administrative Code.

Filmed glass means window glass that has been covered with a film such that the material has a shading coefficient that meets or exceeds the requirements in the F.A.C. Rule 62B-55.004 of forty-five (45) percent or less, adhesive as an integral part, and has performance claims that are supported by approved testing procedures and documentation.

Floodlight means a reflector-type light fixture that may be attached directly to a building, other structure, or free-standing, and is unshielded.

Frontal dune means the first natural or artificial mound or bluff of sand that is located landward of the beach and that has sufficient vegetation, height, continuity and configuration to offer protective value.

Ground-level barrier means any vegetation, natural feature or artificial structure rising from the ground that prevents beachfront lighting from shining directly onto the beachdune system.

Hatchling means any species of marine turtle, within or outside of a nest, which has recently hatched from an egg.

Indirectly illuminated visible means illuminated reflected light as a result of glowing elements, lamps, globes, or reflectors of an artificial light source that which is not visible to an observer standing anywhere on the beach without the light source being directly visible.

Long wavelength light source means light bulbs or diodes that produce light that measures greater than 560 nanometers and absent wavelengths below 560 nanometers on a spectroscope, which include low-pressure sodium vapor, true red neon, red, orange, or amber light-emitting diode (LED), or other lighting sources that produce light that measures greater than 560 nanometers and absent wavelengths below 560 nanometers.

Low-profile luminaire means a light fixture set on a base that raises the source of light no higher than forty-eight (48) inches off the ground, and designed in such a way that light is directed downward from a hooded light source.

Marine turtle means any marine-dwelling reptile of the families Cheloniidae or Dermochelyidae found in Florida waters or using the beach as a nesting habitat, including the species: Caretta caretta (loggerhead), Chelonia mydas (green), Dermochelys coriacea (leatherback), Eretmochelys imbricata (hawksbill), and Lepidochelys kempi (Kemp's ridley). For purposes of this section, marine turtle is synonymous with sea turtle.

Minimized means a combination of Low-Shielded-Long light sources including fixtures being mounted as low as possible, using the lowest wattage necessary, completely downward directed and shielded, installing fewer fixtures, using a long wavelength light source, and using only if needed for safety.

Nest means an area where marine turtle eggs have been naturally deposited or subsequently relocated.

Nesting season means the period from April 1 through October 31 of each year.

New development means new construction and remodeling of existing structures when such remodeling includes alteration of exterior lighting and glass such as windows, railings, balconies, and doors.

Nighttime means the time period between sunset and sunrise within the city limits of Miami Beach.

Person means individuals, firms, associations, joint ventures, partnerships, estates, trusts, syndicates, fiduciaries, corporations, and all other groups or combinations.

Pole lighting means a light fixture set on a base or pole that raises the source of the light higher than forty-eight (48) inches off the ground.

Roof top advertising sign means an outdoor advertising display that is mounted on the top of a building's roof.

Solar screens mean screens that are fixed installations and permanently project shade over the entire area of glass area of the window. The screens must be installed on the outside of the glass and must have a shading coefficient that meets or exceeds the requirements in the F.A.C. Rule 62B-55.004, as it may be amended, of forty-five (45) percent or less and have performance claims supported by approved testing procedures and documentation.

Tinted glass means any glass treated to achieve an industry-approved inside-to-outside light transmittal value that meets or exceeds the requirements in the F.A.C. Rule 62B-55.004, as it may be amended of forty five (45) percent or less. Such transmittance is limited to the visible spectrum (four hundred (400) to seven hundred (700) nanometers) and is measured as the percentage of light that is transmitted through the glass.

Sec. 46-203. Prohibited activities disruptive to marine turtles.

- (a) [Prohibited generally.] The following activities involving direct illumination of portions of the beach are prohibited on the beach at nighttime during the nesting season for the protection of nesting marine turtle females, nests and hatchlings:
 - (1) The operation of all motorized vehicles, except emergency and law enforcement, or beach maintenance vehicles or those permitted on the beach for marine turtles conservation and/or research. Whenever possible, authorized vehicles used on the beach at night shall have red or amber filters covering the headlights.
 - (2) The building of campfires or bonfires.
 - (3) Fireworks displays, except those that <u>occur from offshore barges</u> that have <u>a permit from the Fire Department and City special event permits and a Florida Department of Environmental Protection ("DEP") permit <u>or exemption</u>.</u>
- (b) Operation of motorized vehicles. During nesting season the operation of all motorized vehicles, except emergency and law enforcement, beach maintenance

vehicles, concessionaire vehicles that have a Beachfront Concession Permit, or those permitted on the beach for marine turtles conservation and/or research, shall be prohibited on the beach unless authorized and/or escorted by the City of Miami Beach Police Department. Additionally, after sunrise the operation of authorized motorized vehicles must wait until Miami-Dade County has conducted its morning sea turtle nesting survey.

(b)(c) Special events. Special events taking place on the beach during nesting season that may have lighting needs shall require a permit<u>or exemption</u> from the Florida Department of Environmental Protection. Additionally, any lighting associated with a special event cannot be visible from the beach after 9:00 p.m. Any authorized lighting must be low wattage long wavelength light source, shielded, and directed away from the beach.

(e)(d) Lighting standards for new development. It is the policy of the City of Miami Beach that no artificial light shall be directly, indirectly, or cumulatively visible from illuminate any area of the beach. The following applies to lighting within line-of-sight of the beach that located east of the Coastal Construction Control Line (CCCL) or lighting that directly illuminates the beach and interferes with turtle nesting. To meet this intent, all public and private properties and uses involving new construction development, or renovations exceeding 50% of the value of the structure as determined by the Building Official, within line-of-sight of the beach located east of the CCCL shall comply with the following:

- (1) Exterior artificial light fixtures shall be designed and positioned so that the point source of light or any reflective surface of the light fixture is not directly, indirectly, or cumulatively visible from the beach; areas seaward of the dune are not directly or indirectly illuminated.
- (2) Exterior artificial light fixtures within direct line-of-sight of the beach shall be completely shielded downlight only fixtures, or recessed fixtures having low wattage long wavelength light sources(i.e., "bug" type bulbs of fifty (50) watts or less) and non-reflective interior surfaces. Other fixtures that have appropriate shields, louvers or cut-off features may also be used if in compliance with the requirements of subsection (1) of this section.
- (3) All fixtures shall be mounted as low in elevation as possible through use of low-mounted wall fixtures, wall fixtures fitted with hoods, low bollards, step lights, path lights, paver lights, and ground-level fixtures, so that no light is directly, indirectly, or cumulatively visible from the beach or illuminates the beach.
- (4) Floodlights, upward-oriented lights, spotlights or search lights for decorative and accent purposes, or used as security lights, are prohibited if they would be directly, indirectly, or cumulatively visible from the beach, or would indirectly or cumulatively illuminate the beach.
- (5) Exterior lights used expressly for safety or security purposes shall be limited to the minimum number, minimum wattage, and configuration required to achieve the safety and security function in compliance with the provisions of Crime Prevention Through Environmental Design (CPTED). Motion

- detectors should be employed to keep lights off except when approached, and such motion detectors should switch lights on for the minimum duration possible.
- (6) Pole lights, if used, shall be <u>fitted with long wavelength light sources and shall be</u> shielded in such a manner that light will be contained primarily within the area that is landward of the pole, and light shall not be directly, indirectly, or cumulatively visible from the beach.
- (7) Lights on balconies, including step lights, that serve as egress areas from building and on catwalks, step lights within line-of-sight of the beach facing the ocean shall be limited to: low profile luminaries fitted with long wavelength light sources and positioned so that no light illuminates or is directly, indirectly, or cumulatively visible from the beach; wall mounted fixtures fitted with hoods with non-reflective interiors so that no light illuminates the beach or overhead lighting containing bug-type bulbs or other bulbs with fifty (50) watts or less and non-reflective interior surfaces.
- (8) Tinted <u>or filmed glass</u> shall be installed on all <u>glass</u> windows, <u>walls</u>, <u>balconies</u>, <u>elevator shafts</u>, <u>stairwells</u>, <u>railings</u>, and glass doors of single and multi-story <u>all</u> structures facing or within line-of-sight of the beach. <u>Shade Solar</u> screens can be substituted for this requirement.
- (9) Parking areas and structures shall be designed and located to prevent vehicular headlights from being directly, or indirectly, or cumulatively visible from illuminating the beach. Parking area and parking structure lighting shall be shielded from the beach through the use of shields that direct light away from the beach, and ground-level barriers designed in conformance to the CPTED principals. Such ground-level barriers shall not interfere with marine turtle nesting or hatchling emergence and shall not cause short or long-term damage to the beach/dune system. Entrances and exits to parking structures shall not face the ocean. Surfaces of parking areas shall not contain ground glass or other reflective material.
- (10)Lighting provided for any outdoor recreational feature on or abutting the beach (such as tennis court, swimming pool, etc.) shall <u>utilize low mounted fixtures such as bollards and path lights, be long wavelength only light sources, and be shielded to prevent light from being directly, or cumulatively visible from illuminating the beach.</u>
- (11)Dune crosswalks, if lighted, shall utilize low profile shielded luminaries <u>fitted</u> with long wavelength light sources and only be used landward of the crest of the dune or beachwalk; no lights are authorized seaward of the dune crest or beachwalk.
- (12) No roof top advertising sign that is illuminated in any fashion shall be permitted. All illuminated signage should be sited on the landward side of the structure and mounted such that it is not within line of sight of the beach. Illuminated signage should use low wattage, long wavelength only light sources that are downward directed and fully shielded.
- (13)Temporary security lights at construction sites shall not be mounted more than <u>fifteen</u> (15) feet above the ground. Illumination from the lights shall be the minimum necessary to assure security, shall not spread beyond the

boundary of the property being developed, <u>shall be directed away from the beach</u>, and in no case shall such lights <u>be directly</u>, <u>indirectly</u>, <u>or cumulatively</u> visible from illuminate the beach.

(d)(e) Lighting standards for new development that has already been permitted. The provisions of subsection (d) (e) of this section shall not apply to any structure for which the City of Miami Beach Building Department has issued a building permit prior to the effective date of this division. Such structures shall be governed by the provisions of subsection (f) (e) of this section.

(e)(f) <u>Exterior Lighting standards for existing development</u>. It is the policy of the City of Miami Beach that no artificial <u>outdoor</u> light, shall <u>be directly, indirectly, or cumulatively visible from illuminate</u> any area of the beach. To meet this intent, <u>exterior</u> lighting of existing structures, <u>within line-of-sight of located east of the CCCL and that can be seen from the beach, shall be in compliance with the following:</u>

- (1) Within six (6) months of the effective date of this article, existing artificial light fixtures shall be repositioned, modified, or removed so that the point source of light or any reflective surface is not directly, indirectly or cumulatively visible from the beach.
 - a. The point source of light or any reflective surface of the light fixture is not directly visible from the beach;
 - b. Areas seaward of the frontal dune are not directly or indirectly illuminated; and
 - c. Areas seaward of the frontal dune are not cumulatively illuminated.
- (2) Within one (1) year of the effective date of this article, the following measures shall be taken to reduce or eliminate the negative effects of existing exterior artificial lighting:
 - a. Reposition fixtures so that the point source of light or any reflective surface of the light fixture is no longer directly, indirectly, or cumulatively visible from the beach;
 - b. Replace fixtures having an exposed light source with fixtures containing recessed light sources or shields:;
 - c. Replace traditional light bulbs with <u>low wattage</u>, <u>long wavelength light</u> <u>sources bug type bulbs not exceeding fifty (50) watts</u>;
 - d. Replace non-directional fixtures with directional fixtures that point down and away from the beach;
 - e. Replace fixtures having transparent or translucent coverings with fixtures having opaque shields covering an arc of at least 180 degrees and extending an appropriate distance below the bottom edge of the fixture on the seaward side so that the light source or any reflective surface of the light fixture is not directly, indirectly, or cumulatively visible from the beach;
 - f. Replace pole lamps that are directly or indirectly visible from the beach with low-profile, low-level luminaries fitted with long wavelength light sources or add shielding so that the light source or any reflective

- surface of the light fixture is not directly, indirectly, or cumulatively visible from the beach; If the use of low-level luminaries is not feasible, pole lamps shall be fitted with long wavelength light sources and shall be shielded in such a manner that light shall be contained primarily within the area that is landward of the pole, and light shall not be directly, indirectly, or cumulatively visible from the beach;
- Replace incandescent, florescent, and high intensity lighting with the lowest wattage <u>long wavelength light sources</u> <u>low pressure sodium vapor</u> <u>lighting</u> possible for the specific application;
- h. Plan or improve vegetation buffers between the light source and the beach to screen light from the beach:
- Construct a ground level barrier to shield light sources from the beach. Ground-level barriers must not interfere with marine turtle nesting or hatchling emergence, or cause short- or long-term damage to the beach/dune system;
- j. Permanently remove or permanently disable any fixture that cannot be brought into compliance with the provisions of these standards.
- (g) <u>Interior lighting standards for existing development</u>. It is the policy of the city of miami beach to reduce the negative effects of interior lighting visible from the beach. To meet this intent, the following standard shall apply to interior lighting of existing structures within line-of-sight of the beach:
- (1) Within one year of the effective date of this article, one or more of the following measures shall be taken by hotels and commercial properties to reduce or eliminate the negative effects of existing interior artificial light sources that are directly, indirectly, or cumulatively visible from the beach:
 - a. Apply window tint film that meets the light transmittance standards for tinted glass and/or;
 - b. Rearrange lamps and other moveable fixtures away from windows and/or;
 - c. <u>Use opaque shades or room darkening window treatments (e.g. blinds, curtains, screens)</u> to shield interior light from the beach.
- (2) Residential properties and multi-family properties are encouraged to reduce, minimize, or eliminate the negative effects of existing interior artificial light sources visible from the beach at nighttime through the following measures:
 - a. Turn off or dim all unnecessary lights and/or;
 - b. Apply window tint film that meets the light transmittance standards for tinted glass and/or;
 - c. Rearrange lamps and other moveable fixtures away from windows and/or;
 - d. <u>Use opaque shades or room darkening window treatments (e.g. blinds, curtains, screens)</u> to shield interior light from the beach.

- (3)(3) Commercial signage facing the ocean or in the line-of-sight of the beach, except building identification signs, shall not be illuminated during the hours of 9pm 7am of nesting season within eighteen (18) months of the effective date of this article. Building identification signs within line-of-sight of the beach shall utilize low wattage, long wavelength light sources.
- (4)(4) Buildings located along Ocean Drive that are east of the CCCL line are allowed to maintain current outdoor lighting. Additional special event spotlights or lighting during turtle season should be minimized after 9pm and/or directed away from the beach. When conducting renovations, buildings are encouraged to replace Neon lighting with true red or amber LED lighting.
- (f)(h) Publicly owned lighting. Street lights, existing lighting at parks, publicly owned parking facilities and publicly owned walkways shall be subject to the following:
 - (1) Streetlights. Street lights installed after the effective date of this ordinance shall either be located so that the bulk of illumination will travel away from the beach, and shielding is used to prevent light from being directly, indirectly, or cumulatively visible from illuminating—the beach, or shall be low profile luminaries. Street lights existing prior to the effective date of this ordinance shall be equipped with shields that prevent light from being directly, indirectly, or cumulatively visible minimize backlighting shall not illuminate the beach and shall reduce visibility from the beach.
 (2) Lighting at parks, publicly owned parking facilities and publicly owned
 - (2) Lighting at parks, publicly owned parking facilities and publicly owned walkways shall be shielded or shaded during nighttime hours of nesting season so that such lighting is not directly, indirectly, or cumulatively visible from does not illuminate the beach and visibility is reduced from the beach. Such shielding or shading shall not create a CPTED problem or safety hazard for pedestrians.

Sec. 46-204. Enforcement and Penalties.

Violation of the provisions of this article or failure to comply with any of its requirements shall constitute an offense enforceable pursuant to the enforcement provisions of Section 1-14 and Chapter 30 of this Code. When it has been determined that a violation has occurred, notice of the violation and an opportunity for a hearing shall be served on the property owner. Other person or persons responsible for lighting or management of the property may also be served with notice if determined appropriate by the City administration. Upon refusal, failure or neglect of the person or persons served with a notice of violation to cure the violation with ten (10) days of such notice, or when the violator or the violator's representatives do not appear at the hearing granted pursuant to this Code or as otherwise provided by law, or when an order finding a violation is entered against the violator, the enforcing agency shall notify the property owner, in writing, that an external lighting source causing the violation may be removed by the City within ten (10) business days thereafter. Alternatively, or in addition, at the discretion of the City administration, a daily fine may be assessed against the violator, with such fine to begin

to be assessed within ten (10) business days thereafter, and to be continuously assessed until the conclusion of nesting season or until the violation is corrected. Costs incurred by the City associated with the removal by the City of external lighting sources causing violations shall be recovered from the property owner, or such person or persons causing the violation, and, if not recovered from the person or persons, shall be placed as a lien against the property and reimbursed to the City at time of sale of the property.

SECTION 2. REPEALER.

All ordinances or parts of ordinances and all sections and parts of sections in conflict herewith are hereby repealed.

SECTION 3. CODIFICATION.

It is the intention of the City Commission, and it is hereby ordained that the provisions of this ordinance shall become and be made part of the Code of the City of Miami Beach as amended; that the sections of this ordinance may be renumbered or relettered to accomplish such intention; and that the word "ordinance" may be changed to "section" or other appropriate word.

SECTION 4. SEVERABILITY.

If any section, subsection, clause or provision of this Ordinance is held invalid, the remainder shall not be affected by such invalidity.

SECTION 5. EFFECTIVE DATE.

This	Ord	inance	shall	take	effect	ten	days	following	adoption.
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This Ordinance shall take effect on the _	day of, 2	024.
PASSED AND ADOPTED this	day of, 2	2024.
ATTEST:		
	Steven Meiner Mayor	

Rafael E. Granado, City Clerk

<u>Underline</u> denotes additions

<u>Strikethrough</u> denotes deletions

<u>Double underline</u> denotes additions on second reading

<u>Strikethrough</u> denotes deletions on second reading

(Sponsored by Commissioner David Suarez)

APPROVED AS TO FORM & LANGUAGE & FOR EXECUTION

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