

# 4" Cylinder

Coastal IP65/Marine Grade

|               |       |
|---------------|-------|
| Project:      | Type: |
| Product Code: | Date: |

V090226



## Surface/Wall Mount

- Designed with an IP65 rating and Marine Grade Powder Coat Finish to withstand harsh coastal environments.
- Powered by DMF's advanced LED downlight technology
- Die-cast aluminum with no visible hardware for a sleek, symmetrical design

### CYLINDER

#### Mount

Surface, Wall

#### Size

Diameter: 4"

Height: 4", 8", 12"

#### Trims

Standard

#### Finish

Marine Grade White, Marine Grade Black

### LIGHT OUTPUT & DISTRIBUTION

#### Lumens (Power)

300 lm (7.7W), 750 lm (9.5W),  
1000 lm (12.5W), 1250 lm (14.3W),  
1500 lm (14.3W), 2000 lm (24.5W)

#### Color Quality

93 CRI, 2-step SDCM

#### Color Temperature

- 2400K 2700K 3000K
- 3500K 4000K Warm Dim (3000K-1800K)
- Tunable White (4000K-1800K)
- Turtle Friendly Cree® Amber LED (no color filter)

#### Beam Spread

- 15° Narrow Spot
- 25° Spot
- 40° Flood
- 60° Wide Flood
- 90°+ General Ambient

#### Lighting Type



Downlight



Up and  
downlight

### POWER & CONTROLS

#### Input Voltage

120 / 277V

#### Dimming

0-10V (120/277V): 1%  
TRIAC/ELV (120V): 1%  
DALI-2 (120/277V): 0.1%

### RATINGS

- Wet Location/IP65 Rated
- RoHS Compliant
- DarkSky Approved (Downlight with CCT less than or equal to 3000K)
- Dark Sky Sea Turtle Sensitive Approved (with 300lm, TF Amber LED)

### WARRANTY

5 year limited warranty; 50,000 hours



Declare.



PRODUCT BUILDER - SURFACE MOUNT

EXAMPLE: 4CSR04WD07NS027MWTS

|                  |     |     |                                |    |                                          |                                                                                           |
|------------------|-----|-----|--------------------------------|----|------------------------------------------|-------------------------------------------------------------------------------------------|
| CYLINDER         | 4CS | 4CS | 4" Surface Mount Cylinder      |    |                                          |                                                                                           |
| SHAPE            | R   | R   | Round                          |    |                                          |                                                                                           |
| SIZE             |     | 04  | 4 Inch                         | 08 | 8 Inch                                   | 12 12 Inch                                                                                |
| MOISTURE RATING  | W   | W   | Wet (IP65 Location)            |    |                                          |                                                                                           |
| LIGHT OPTIONS    | D   | D   | Downlight                      |    |                                          |                                                                                           |
| LUMENS DOWN      |     | 03  | 300 lm <sup>1</sup>            | 07 | 750 lm                                   | 10 1000 lm                                                                                |
|                  |     | 12  | 1250 lm                        | 15 | 1500 lm                                  | 20 2000 lm <sup>2</sup>                                                                   |
| BEAM SPREAD DOWN |     | NS  | Narrow Spot (15°) <sup>3</sup> | SP | Spot (25°)                               | FL Flood (40°)                                                                            |
|                  |     | WF  | Wide Flood (60°)               | GA | General Ambient (90°)                    |                                                                                           |
| SPECIALTY LENS   | 0   | 0   | None                           |    |                                          |                                                                                           |
| CCT              |     | 24  | 2400K <sup>4</sup> ⚡           | 27 | 2700K ⚡                                  | 30 3000K ⚡                                                                                |
|                  |     | 40  | 4000K                          | 3W | Warm Dim <sup>5</sup> ⚡<br>(3000K-1800K) | T1 Tunable White <sup>6</sup><br>(4000K-1800K) TF Turtle & Wildlife Friendly <sup>1</sup> |
| FINISH           |     | MW  | Marine Grade White ●           | MB | Marine Grade Black ●                     |                                                                                           |
| DIMMING          |     | T   | TRIAC/ELV (1%)                 | O  | 0-10V (1%)                               | D DALI-2 (0.1%) <sup>7</sup>                                                              |
| TRIM             | S   | S   | Standard Trim                  |    |                                          |                                                                                           |

⚡ Required for Dark Sky Compliance

<sup>1</sup> Turtle Friendly (300 lm) only available in 300 lm down, TF CCT and 0-10V Dimming  
<sup>2</sup> Only available with 0-10V, not available in 04 4 inch size  
<sup>3</sup> Not available with Warm Dim or Tunable White  
<sup>4</sup> Lumen Range Limited to 750 or 1000lm  
<sup>5</sup> Only available in 1000 lm; not available in Narrow Spot  
<sup>6</sup> Only available in 1000 lm downlight; requires DALI-2; not available in Narrow Spot  
<sup>7</sup> Only available in 1000 lm (Warm Dim/Tunable White) or 1250 lm (Static) for Downlight

PRODUCT BUILDER - WALL MOUNT

EXAMPLE: 4CWR08WD07NS007NS27MWTSS

|                                           |     |         |                                                                                                        |    |                                                                                                                          |    |                                                                                           |    |                                         |
|-------------------------------------------|-----|---------|--------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------|----|-----------------------------------------|
| CYLINDER                                  | 4CW | 4CW     | 4" Wall Mount Cylinder                                                                                 |    |                                                                                                                          |    |                                                                                           |    |                                         |
| SHAPE                                     | R   | R       | Round                                                                                                  |    |                                                                                                                          |    |                                                                                           |    |                                         |
| SIZE                                      |     | 08      | 8 Inch                                                                                                 | 12 | 12 Inch                                                                                                                  |    |                                                                                           |    |                                         |
| BRACKET                                   | W   | W       | Standard (Wet)                                                                                         |    |                                                                                                                          |    |                                                                                           |    |                                         |
| LIGHT OPTIONS                             | D   | D       | Downlight                                                                                              |    |                                                                                                                          |    |                                                                                           |    |                                         |
| LUMENS DOWN                               |     | 03      | 300 lm <sup>1</sup>                                                                                    | 07 | 750 lm                                                                                                                   | 10 | 1000 lm                                                                                   |    |                                         |
|                                           |     | 12      | 1250 lm                                                                                                | 15 | 1500 lm                                                                                                                  | 20 | 2000 lm <sup>2</sup>                                                                      |    |                                         |
| BEAM SPREAD DOWN                          |     | NS      | Narrow Spot (15°) <sup>3</sup>                                                                         | SP | Spot (25°)                                                                                                               | FL | Flood (40°)                                                                               |    |                                         |
|                                           |     | WF      | Wide Flood (60°)                                                                                       | GA | General Ambient (90°+)                                                                                                   |    |                                                                                           |    |                                         |
| SPECIALTY LENS DOWN                       | 0   | 0       | None                                                                                                   |    |                                                                                                                          |    |                                                                                           |    |                                         |
| LUMENS UP <sup>4</sup><br>(12" Only)      |     | 00      | None                  | 07 | 750 lm                                                                                                                   | 10 | 1000 lm                                                                                   | 12 | 1250 lm                                 |
| BEAM SPREAD UP <sup>4</sup><br>(12" Only) |     | 00      | None                                                                                                   | NS | Narrow Spot (15°) <sup>3</sup>                                                                                           | SP | Spot (25°)                                                                                |    |                                         |
|                                           |     | FL      | Flood (40°)                                                                                            | WF | Wide Flood (60°)                                                                                                         | GA | General Ambient (90°)                                                                     |    |                                         |
| CCT                                       |     | 24      | 2400K <sup>5</sup>    | 27 | 2700K                                   | 30 | 3000K  | 35 | 3500K                                   |
|                                           |     | 40      | 4000K                                                                                                  | 3W | Warm Dim <sup>6</sup> <br>(3000K-1800K) | T1 | Tunable White <sup>7</sup><br>(4000K-1800K)                                               | TF | Turtle & Wildlife Friendly <sup>1</sup> |
| STANDARD FINISH                           |     | MW      | Marine Grade White  | MB | Marine Grade Black                    |    |                                                                                           |    |                                         |
| DIMMING                                   |     | T       | TRIAC/ELV (1%)                                                                                         | O  | 0-10V (1%)                                                                                                               | D  | DALI-2 (0.1%) <sup>8</sup>                                                                |    |                                         |
| TRIM DOWN                                 | S   | S       | Standard Trim                                                                                          |    |                                                                                                                          |    |                                                                                           |    |                                         |
| TRIM UP                                   |     | [Blank] | None                                                                                                   | S  | Standard Trim                                                                                                            |    |                                                                                           |    |                                         |

 Required for Dark Sky Compliance

<sup>1</sup> Turtle Friendly (300 lm) only available in 300 lm down, TF CCT and 0-10V Dimming  
<sup>2</sup> Only available with 0-10V  
<sup>3</sup> Not available with Warm Dim or Tunable White  
<sup>4</sup> 12" size only (otherwise, select None)  
<sup>5</sup> Lumen Range Limited to 750 or 1000lm  
<sup>6</sup> Only available in 1000 lm; not available in Narrow Spot  
<sup>7</sup> Only available in 1000 lm downlight; Requires DALI-2; Not available in Narrow Spot  
<sup>8</sup> Only available in 1000 lm (Warm Dim/Tunable White) or 1250 lm (Static) for Downlight



## SUMMARY

|                | STATIC CCT                                                                                                                                                                                                                                                                                                                              | WARM DIM                                                                | TUNABLE WHITE                                                    | TURTLE FRIENDLY                                                                     |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| CCT            | 2400K, 2700K, 3000K, 3500K, 4000K                                                                                                                                                                                                                                                                                                       | 3000K - 1800K                                                           | 4000K - 1800K                                                    | Amber LED > 560 nm                                                                  |
| LUMENS (POWER) | 750 lm (9.5W), 1000 lm (12.5W), 1250 lm (14.3W), 1500lm (14.3W), 2000lm (24.5W)                                                                                                                                                                                                                                                         | 1000 lm (12.5W)                                                         | 1000 lm (14.5W)                                                  | 300 lm (7.7W)                                                                       |
| EFFICACY       | 79 lm/W, 80 lm/W, 87 lm/W, 105 lm/W, 82 lm/W                                                                                                                                                                                                                                                                                            | 80 lm/W                                                                 | 80 lm/W                                                          | 39 lm/W                                                                             |
| COLOR QUALITY  | 93 CRI <sup>1</sup> , 2-step SDCM                                                                                                                                                                                                                                                                                                       | 93 CRI <sup>1</sup> , 3-step SDCM                                       | 93 CRI <sup>1</sup> , 3-step SDCM                                | N/A                                                                                 |
| BEAM SPREAD    | Narrow Spot (20°), Spot (30°), Flood (40°), Wide Flood (50°), General Ambient (90°)                                                                                                                                                                                                                                                     | Spot (30°), Flood (40°), Wide Flood (50°), General Ambient (90°)        | Spot (25°), Flood (40°), Wide Flood (60°), General Ambient (90°) | Narrow Spot (20°), Spot (30°), Flood (40°), Wide Flood (50°), General Ambient (90°) |
| DIMMING        | 0-10V (120/277V): 1%<br>TRIAC/ELV (120V): 1%<br>DALI-2 (120/277V): 0.1%                                                                                                                                                                                                                                                                 | 0-10V (120/277V): 1%<br>TRIAC/ELV (120V): 1%<br>DALI-2 (120/277V): 0.1% | DALI-2 (120/277V): 0.1%                                          | 0-10V (120/277V): 1%                                                                |
| LED CHIP       | Bridgelux (2400K)<br>Cree (All Other CCT)                                                                                                                                                                                                                                                                                               | Bridgelux                                                               | Bridgelux                                                        | Cree Amber LED                                                                      |
| LISTINGS       | ENERGY STAR® qualified <sup>2</sup> , California Title 24 2019 - 2022 JA8-E Compliant, UL Listed for Wet Location, IP65 rated, UL Certified US-CA, DarkSky Approved <sup>3</sup> , Declare, Dark Sky Approved Sea Turtle Sensitive Luminaires (Option), Compliant with FWC Wildlife Lighting Requirements (option), Marine Grade Finish |                                                                         |                                                                  |                                                                                     |

<sup>1</sup> Tested in accordance to IESNA LM-79-2008

<sup>2</sup> Refer to ENERGY STAR Certified light fixtures database

<sup>3</sup> DarkSky Approved only applicable to CCT options less than or equal to 3000K

## ADDITIONAL

**INPUT VOLTAGE:** 120/277V, 50/60Hz

**MAX INPUT CURRENT (120V):** 0.10 amps

**MAX INPUT CURRENT (277V):** 0.04 amps

**POWER FACTOR:** Greater than 0.9

**TOTAL HARMONIC DISTORTION:** Less than 20%

**AMBIENT OPERATING TEMPERATURE:** -20°C to 40°C

**LIFETIME:** 50,000 hours at 70% lumen maintenance

**WARRANTY:** 5 year limited warranty; 50,000 hours at 70% lumen maintenance

**CYLINDER:** Extruded aluminum

### CYLINDER DIMENSIONS:

Diameter: 4"

Height: 4", 8", 12"

**FINISH:** Marine Grade White, Marine Grade Black

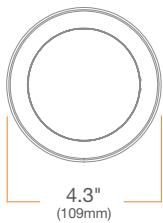
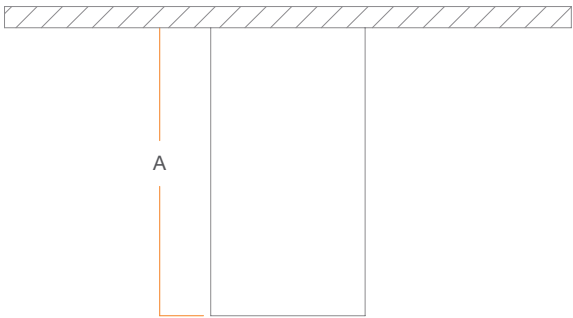
**JUNCTION BOX COVERS:** Allows up to 4 solid metal conduit branches. Compatible with 4" octagonal and 4" square boxes.

**INSTALLATION:** Surface: Installs in most 3" octagonal, 4" octagonal, 3" round and 4" round boxes. Wet Location Wall Mount: Installs in most two-gang switch, 3" octagonal, 4" octagonal, 3" round, 4" round and 4" square boxes.

CYLINDER DIMENSION

Surface Mount

4CSx



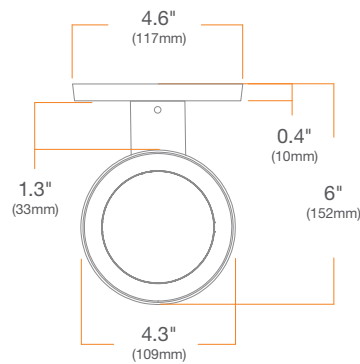
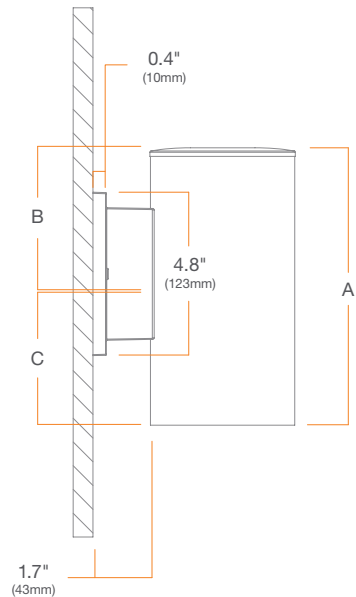
| CYLINDER SIZE | A            |
|---------------|--------------|
| Small         | 4" [102 mm]  |
| Medium        | 8" [203 mm]  |
| Large         | 12" [305 mm] |



CYLINDER DIMENSION

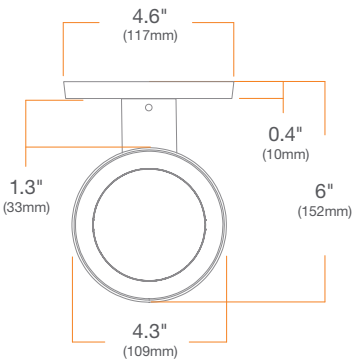
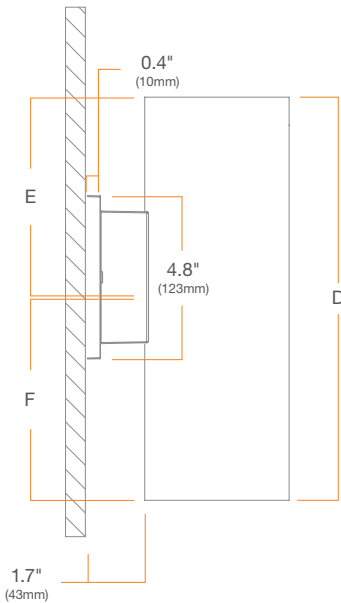
Downlight Only, Wall Mount, Wet Location

4CWRxxW



Uplight & Downlight, Wall Mount, Wet Location

4CWRxxW

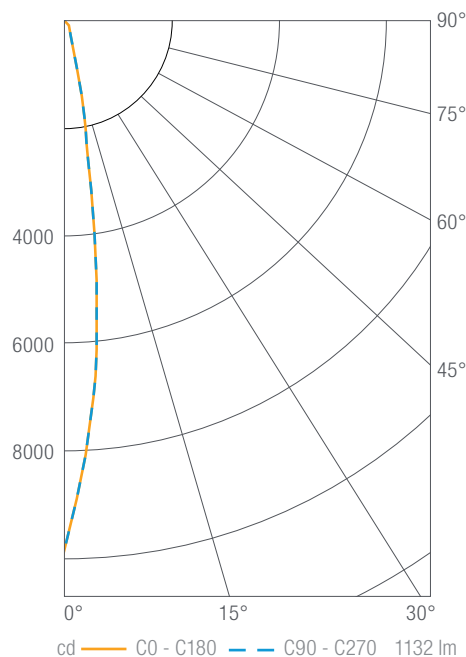


| SIZE | A                | B               | C           | D            | E               | F           |
|------|------------------|-----------------|-------------|--------------|-----------------|-------------|
| 08   | 8 1/4" [210 mm]  | 4 1/2" [114 mm] | 4" [102 mm] | -            | -               | -           |
| 12   | 12 1/4" [311 mm] | 6 1/2" [165 mm] | 6" [152 mm] | 12" [305 mm] | 6 1/2" [165 mm] | 6" [152 mm] |

## PHOTOMETRY

## 4" Coastal Cylinder Fixed, 1000 lm, 3000K, Narrow Spot

4CxRxxxxD10SPxxxx30xxxxR



Luminous Intensity

| Gamma | C 0° |
|-------|------|
| 0°    | 9823 |
| 5°    | 6600 |
| 10°   | 2335 |
| 15°   | 734  |
| 20°   | 357  |
| 25°   | 244  |
| 30°   | 195  |
| 35°   | 159  |
| 40°   | 116  |
| 45°   | 85   |
| 50°   | 61   |
| 55°   | 42   |
| 60°   | 28   |
| 65°   | 16   |
| 70°   | 7    |
| 75°   | 4    |
| 80°   | 2    |
| 85°   | 1    |
| 90°   | 0    |

Values in candela

Zonal Lumen Summary

| Zone  | Lumens | Luminaire % |
|-------|--------|-------------|
| 0-30  | 906    | 80          |
| 0-40  | 1004   | 89          |
| 0-60  | 1110   | 98          |
| 0-90  | 1131   | 100         |
| 0-180 | 1132   | 100         |

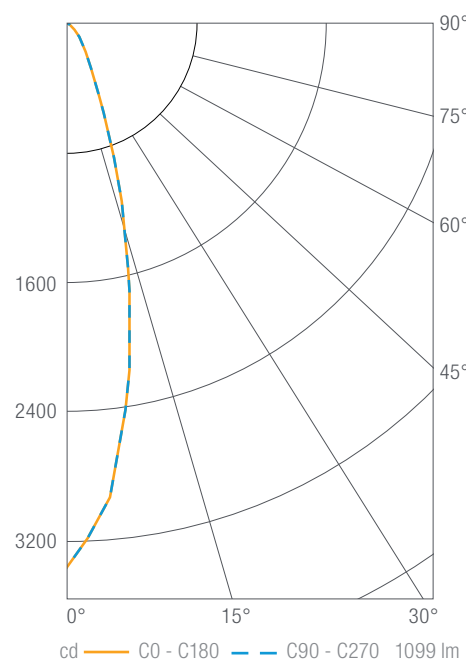
Illuminance Chart

| Distance from LED | Foot Candles | Diameter |
|-------------------|--------------|----------|
| 3'                | 1091         | 0.7'     |
| 6'                | 273          | 1.5'     |
| 9'                | 121          | 2.2'     |
| 12'               | 68           | 2.9'     |

Beam Angle: 14°

## 4" Coastal Cylinder Fixed, 1000 lm, 3000K, Spot

4CxRxxxxD10NSxxxx30xxxxR



Luminous Intensity

| Gamma | C 0° |
|-------|------|
| 0°    | 3366 |
| 5°    | 2967 |
| 10°   | 2203 |
| 15°   | 1391 |
| 20°   | 775  |
| 25°   | 419  |
| 30°   | 248  |
| 35°   | 167  |
| 40°   | 119  |
| 45°   | 87   |
| 50°   | 62   |
| 55°   | 43   |
| 60°   | 26   |
| 65°   | 15   |
| 70°   | 7    |
| 75°   | 4    |
| 80°   | 2    |
| 85°   | 1    |
| 90°   | 0    |

Values in candela

Zonal Lumen Summary

| Zone  | Lumens | Luminaire % |
|-------|--------|-------------|
| 0-30  | 862    | 78          |
| 0-40  | 971    | 88          |
| 0-60  | 1078   | 98          |
| 0-90  | 1098   | 100         |
| 0-180 | 1099   | 100         |

Illuminance Chart

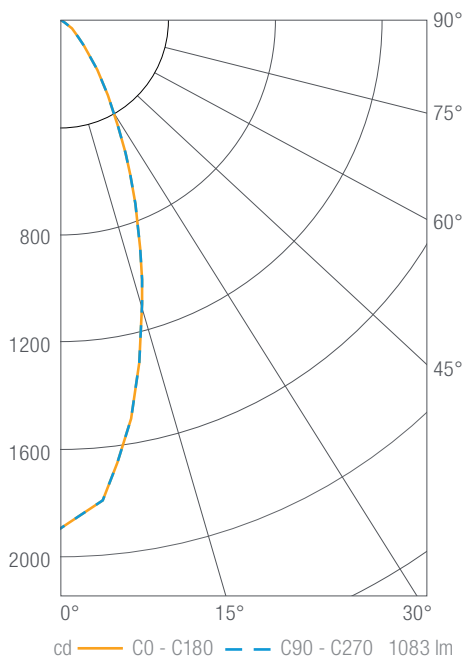
| Distance from LED | Foot Candles | Diameter |
|-------------------|--------------|----------|
| 3'                | 374          | 1.4'     |
| 6'                | 93           | 2.8'     |
| 9'                | 42           | 4.2'     |
| 12'               | 23           | 5.6'     |

Beam Angle: 26°

## PHOTOMETRY

### 4" Coastal Cylinder Fixed, 1000 lm, 3000K, Flood

4CxRxxxxD10FLxxxx30xxxxxR



#### Luminous Intensity

| Gamma | C 0° |
|-------|------|
| 0°    | 1890 |
| 5°    | 1792 |
| 10°   | 1503 |
| 15°   | 1161 |
| 20°   | 849  |
| 25°   | 589  |
| 30°   | 391  |
| 35°   | 256  |
| 40°   | 162  |
| 45°   | 107  |
| 50°   | 74   |
| 55°   | 51   |
| 60°   | 30   |
| 65°   | 18   |
| 70°   | 8    |
| 75°   | 5    |
| 80°   | 3    |
| 85°   | 1    |
| 90°   | 0    |

Values in candela

#### Zonal Lumen Summary

| Zone  | Lumens | Luminaire % |
|-------|--------|-------------|
| 0-30  | 760    | 70          |
| 0-40  | 925    | 85          |
| 0-60  | 1058   | 98          |
| 0-90  | 1081   | 100         |
| 0-180 | 1083   | 100         |

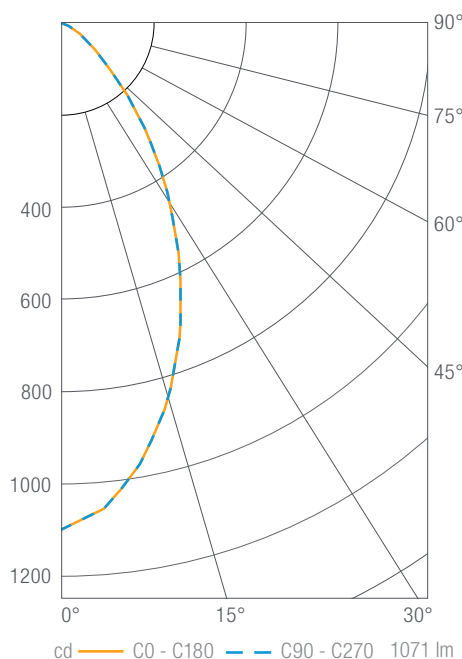
#### Illuminance Chart

| Distance from LED | Foot Candles | Diameter |
|-------------------|--------------|----------|
| 3'                | 210          | 2.0'     |
| 6'                | 52           | 4.0'     |
| 9'                | 23           | 6.0'     |
| 12'               | 13           | 8.0'     |

Beam Angle: 37°

### 4" Coastal Cylinder Fixed, 1000 lm, 3000K, Wide Flood

4CxRxxxxD10WFxxxx30xxxxxR



#### Luminous Intensity

| Gamma | C 0° |
|-------|------|
| 0°    | 1100 |
| 5°    | 1058 |
| 10°   | 973  |
| 15°   | 866  |
| 20°   | 743  |
| 25°   | 609  |
| 30°   | 478  |
| 35°   | 361  |
| 40°   | 252  |
| 45°   | 161  |
| 50°   | 102  |
| 55°   | 68   |
| 60°   | 41   |
| 65°   | 24   |
| 70°   | 11   |
| 75°   | 6    |
| 80°   | 4    |
| 85°   | 2    |
| 90°   | 0    |

Values in candela

#### Zonal Lumen Summary

| Zone  | Lumens | Luminaire % |
|-------|--------|-------------|
| 0-30  | 620    | 58          |
| 0-40  | 845    | 79          |
| 0-60  | 1037   | 97          |
| 0-90  | 1069   | 100         |
| 0-180 | 1071   | 100         |

#### Illuminance Chart

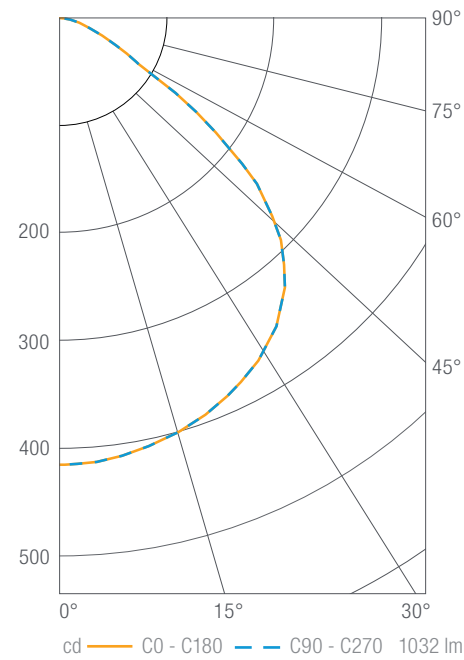
| Distance from LED | Foot Candles | Diameter |
|-------------------|--------------|----------|
| 3'                | 122          | 3.1'     |
| 6'                | 31           | 6.2'     |
| 9'                | 14           | 9.3'     |
| 12'               | 8            | 12.3'    |

Beam Angle: 55°

PHOTOMETRY

4" Coastal Cylinder Fixed, 1000 lm, 3000K, General Ambient

4CxRxxxxD10GAxxxx30xxxxxR



Luminous Intensity

| Gamma | C 0° |
|-------|------|
| 0°    | 416  |
| 5°    | 415  |
| 10°   | 410  |
| 15°   | 403  |
| 20°   | 394  |
| 25°   | 382  |
| 30°   | 369  |
| 35°   | 351  |
| 40°   | 327  |
| 45°   | 291  |
| 50°   | 240  |
| 55°   | 162  |
| 60°   | 84   |
| 65°   | 54   |
| 70°   | 33   |
| 75°   | 21   |
| 80°   | 12   |
| 85°   | 6    |
| 90°   | 1    |

Values in candela

Zonal Lumen Summary

| Zone  | Lumens | Luminaire % |
|-------|--------|-------------|
| 0-30  | 333    | 32          |
| 0-40  | 557    | 54          |
| 0-60  | 942    | 91          |
| 0-90  | 1024   | 99          |
| 0-180 | 1032   | 100         |

Illuminance Chart

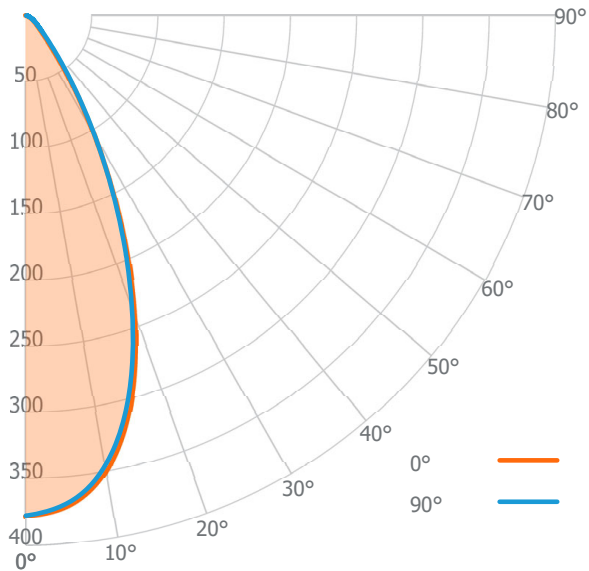
| Distance from LED | Foot Candles | Diameter |
|-------------------|--------------|----------|
| 3'                | 46           | 7.8'     |
| 6'                | 12           | 15.5'    |
| 9'                | 5            | 23.3'    |
| 12'               | 3            | 31.1'    |

Beam Angle: 100°

PRODUCT SUMMARY

4" Coastal Cylinder Turtle & Wildlife Friendly, 300 lm, Wide Flood  
4CxRxxxxD10WFxxxxTFxxxxxR

Candela Distribution



Luminous Intensity

|     | 0°  |
|-----|-----|
| 0°  | 378 |
| 5°  | 372 |
| 10° | 350 |
| 15° | 306 |
| 20° | 242 |
| 25° | 169 |
| 30° | 103 |
| 35° | 55  |
| 40° | 29  |
| 45° | 16  |
| 50° | 11  |
| 55° | 8   |
| 60° | 6   |
| 65° | 4   |
| 70° | 2   |
| 75° | 1   |
| 80° | 1   |
| 85° | 0   |
| 90° | 0   |

Zonal Lumen Summary

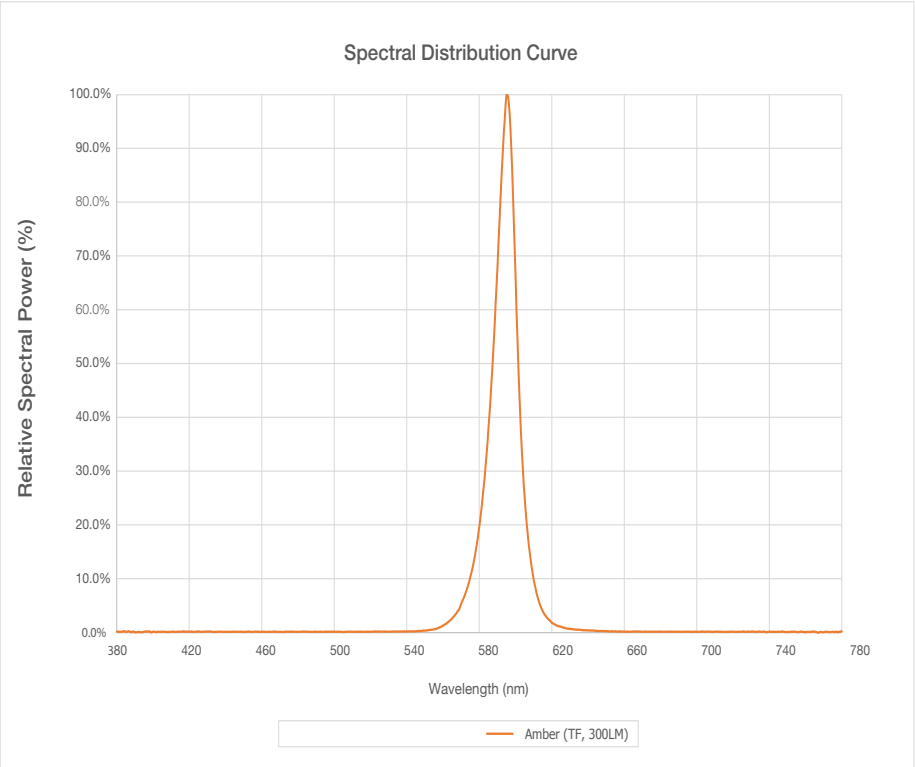
| Zone      | Lumens | Luminaire % |
|-----------|--------|-------------|
| 0° - 30°  | 194    | 75%         |
| 0° - 40°  | 231    | 90%         |
| 0° - 60°  | 252    | 98%         |
| 0° - 90°  | 258    | 100%        |
| 0° - 180° | 258    | 100%        |

Illuminance Chart

| Distance from LED | Foot Candles | Diameter |
|-------------------|--------------|----------|
| 3 ft              | 42.0 fc      | 2.6 ft   |
| 6 ft              | 10.5 fc      | 5.2 ft   |
| 9 ft              | 4.7 fc       | 7.9 ft   |
| 12 ft             | 2.6 fc       | 10.5 ft  |

Input Watts: 7.7 W  
Lumens: 258 lm  
Efficacy: 33.5 lm/W  
Beam Angle: 47° x 46°

Spectrum



BUG Classification

