

# DRD2 Retrofit

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

V092123



**High Performance** Produces up to 1500 lumens of 93+ CRI lighting for natural, true-to-life colors without sacrificing stellar efficiency

**Precise Control** Field-changeable light distribution ranging from 15° to 90°+

**Dim to Dark** Smooth, flicker-free dimming down to 1% with centralized or local control

**Fast Install** Integrated driver, plug-and-play connection, and Twist & Lock Trims

**Modular Design** Flexibility during and after installation with interchangeable modules, optics and trims

## INSTALLATION

### Application

Retrofit

### Aperture

4", 5", 6"

## TRIMS

### Shape

Round

### Style

Beveled, Baffle

### Finish

White, Black

## OPTICAL

### Lumens (Power)

750 lm (9.5W), 1000 lm (12.5W),  
1250 lm (14.3W), 1500 lm (16.5W)

### Color Quality

93+ CRI, 2-step SDCM

### Color Temperature

2700K 3000K 3500K  
4000K Warm Dim (3000K–1800K)

### Beam Spread

Narrow Spot (15°) General (90°+)  
Spot (25°) Linear Spread  
Flood (40°) Soft Focus  
Wide Flood (60°)

## ELECTRICAL & CONTROLS

### Input Voltage

120 / 277V

### Dimming

TRIAC/ELV (1%)

## RATINGS

### Module Ratings

UL Listed for Wet Location  
NSF Listed (White and Black Finish Only)

## WARRANTY

5 year limited warranty; 50,000 hours



Declare.



## PRODUCT BUILDER

## DRD2 MODULE

| PRODUCT CODE         |        | LUMENS               |         | CRI                  |         | CCT                  |                       | BEAM SPREAD          |                                | DIMMING              |           |
|----------------------|--------|----------------------|---------|----------------------|---------|----------------------|-----------------------|----------------------|--------------------------------|----------------------|-----------|
| <input type="text"/> |        | <input type="text"/> |         | <input type="text"/> |         | <input type="text"/> |                       | <input type="text"/> |                                | <input type="text"/> |           |
| <b>DRD2M</b>         | Module | <b>07</b>            | 750 lm  | <b>9</b>             | 93+ CRI | <b>27</b>            | 2700K                 | <b>GA</b>            | General Ambient (90°+)         | <b>T</b>             | TRIAC/ELV |
|                      |        | <b>10</b>            | 1000 lm |                      |         | <b>30</b>            | 3000K                 | <b>NS</b>            | Narrow Spot (15°) <sup>2</sup> |                      |           |
|                      |        | <b>12</b>            | 1250 lm |                      |         | <b>35</b>            | 3500K                 | <b>SP</b>            | Spot (25°)                     |                      |           |
|                      |        | <b>15</b>            | 1500 lm |                      |         | <b>40</b>            | 4000K                 | <b>FL</b>            | Flood (40°)                    |                      |           |
|                      |        |                      |         |                      |         | <b>3W</b>            | Warm Dim <sup>1</sup> | <b>WF</b>            | Wide Flood (60°)               |                      |           |
|                      |        |                      |         |                      |         |                      |                       | <b>LS</b>            | Linear Spread (40° x 20°)      |                      |           |
|                      |        |                      |         |                      |         |                      |                       | <b>SF</b>            | Soft Focus                     |                      |           |

## RETROFIT TRIM

| PRODUCT CODE         |               | SIZE                 |             | STYLE                |                     | FINISH               |       |
|----------------------|---------------|----------------------|-------------|----------------------|---------------------|----------------------|-------|
| <input type="text"/> |               | <input type="text"/> |             | <input type="text"/> |                     | <input type="text"/> |       |
| <b>DRD2TR</b>        | Retrofit Trim | <b>4</b>             | 4" Aperture | <b>S</b>             | Beveled             | <b>WH</b>            | White |
|                      |               | <b>5</b>             | 5" Aperture | <b>B</b>             | Baffle <sup>3</sup> | <b>BK</b>            | Black |
|                      |               | <b>6</b>             | 6" Aperture |                      |                     |                      |       |

<sup>1</sup> Only available in 1000 lm<sup>2</sup> Not available in Warm Dim CCT<sup>3</sup> Only available in White Finish

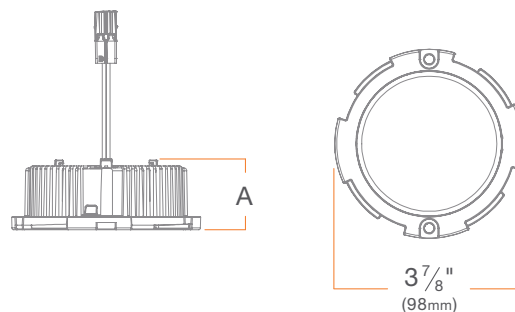
## ADAPTER (OPTIONAL)

| PRODUCT CODE         |                                             |
|----------------------|---------------------------------------------|
| <input type="text"/> |                                             |
| <b>DRD2X-QCM-ED</b>  | Edison Adapter                              |
| <b>DRD2X-QCM-GU</b>  | GU-24 Adapter                               |
| <b>DRD2X-QCM-M</b>   | PowerPlug Luminaire Disconnect Male Adapter |

## OPTIC ACCESSORIES

| PRODUCT CODE         |                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------|
| <input type="text"/> |                                                                                                                 |
| <b>DRD2X-GA</b>      | Conversion Kit: DRD2 Module to General Ambient (90°+)                                                           |
| <b>DRD2X-NS</b>      | Narrow Spot (15°)                                                                                               |
| <b>DRD2X-SP</b>      | Spot (25°)                                                                                                      |
| <b>DRD2X-FL</b>      | Flood (40°)                                                                                                     |
| <b>DRD2X-WF</b>      | Wide Flood (60°)                                                                                                |
| <b>DRD2X-LS</b>      | Linear Spread (40° x 20°)                                                                                       |
| <b>DRD2X-SF</b>      | Soft Focus                                                                                                      |
| <b>DRD2X-OP</b>      | Optics Kit: Narrow Spot (15°), Spot (25°), Flood (40°), Wide Flood (60°), Linear Spread (40° x 20°), Soft Focus |

## DRD2 MODULE



## Measurements

## A

Standard

1 7/16" [37 mm]

1500 lm

2" [50 mm]

## SUMMARY

|                | STATIC CCT                                                                                                                                                                                                               | WARM DIM                                                                                                    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| CCT            | 2700K, 3000K, 3500K, 4000K                                                                                                                                                                                               | 3000K - 1800K                                                                                               |
| LUMENS (POWER) | 750 lm (9.7W), 1000 lm (12.0W),<br>1250 lm (14.3W), 1500lm (16.5W)                                                                                                                                                       | 1000 lm (12.0W)                                                                                             |
| EFFICACY       | 77 lm/W, 83 lm/W,<br>87 lm/W, 91 lm/W                                                                                                                                                                                    | 83 lm/W                                                                                                     |
| COLOR QUALITY  | 93+ CRI <sup>1</sup> , 2-step SDCM                                                                                                                                                                                       | 93+ CRI <sup>1</sup> , 2-step SDCM                                                                          |
| BEAM SPREAD    | General Ambient (90°+), Narrow Spot (15°),<br>Spot (25°), Flood (40°), Wide Flood (60°),<br>Linear Spread (40° x 20°), Soft Focus                                                                                        | General Ambient (90°+), Spot (25°), Flood (40°),<br>Wide Flood (60°), Linear Spread (40° x 20°), Soft Focus |
| DIMMING        | TRIAC/ELV                                                                                                                                                                                                                | TRIAC/ELV                                                                                                   |
| LED CHIP       | Cree                                                                                                                                                                                                                     | Bridgelux                                                                                                   |
| LISTINGS       | ENERGY STAR <sup>®</sup> qualified <sup>2</sup> , California Title 24 2016-2022 JA8-E compliant, UL Listed for Wet Location,<br>UL Certified US-CA, Declare, RoHS compliant, NSF/ANSI 2 listed, suitable for splash-zone |                                                                                                             |

<sup>1</sup> Tested in accordance to IESNA LM-79-2008<sup>2</sup> Refer to ENERGY STAR Certified light fixtures database

## ADDITIONAL

**INPUT VOLTAGE:** 120/277V, 50/60Hz**MAX INPUT CURRENT (120V):** 0.13 amps**MAX INPUT CURRENT (277V):** 0.065 amps**CONNECTOR:** PowerPlug<sup>®</sup> Luminaire Disconnect Model 182**POWER FACTOR:** Greater than 0.9**TOTAL HARMONIC DISTORTION:** Less than 20%**AMBIENT OPERATING TEMPERATURE:** -20°C to 40°C**WARRANTY:** 5 year limited warranty; 50,000 hours at 70% lumen maintenance

## TRIM



## Classic Trims

4", 5", 6" Aperture

**DRD2T**

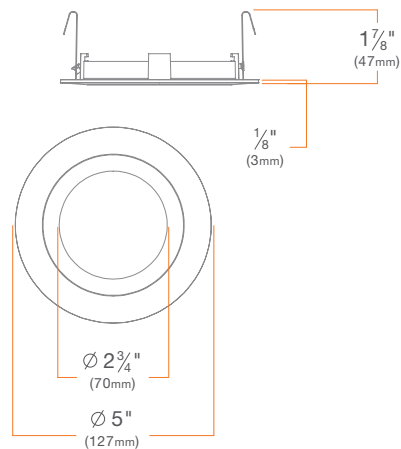
### SUMMARY

**CONSTRUCTION:** Die-cast aluminum

**INSTALLATION:** Twist & Lock

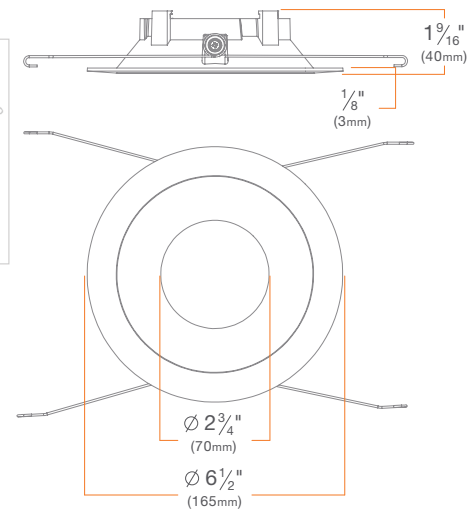
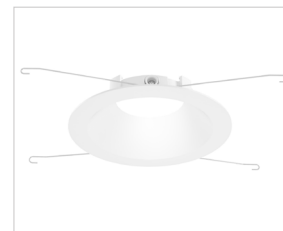
### 4" Round Trim

Beveled **DRD2TR4SWH**, Baffle **DRD2TR4BWH**



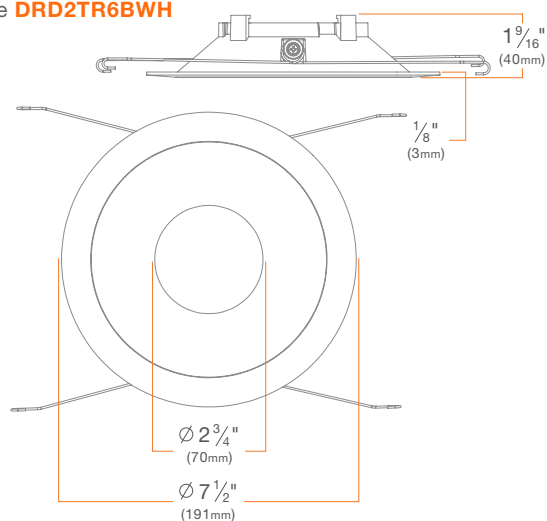
### 5" Round Trim

Beveled **DRD2TR5SWH**, Baffle **DRD2TR5BWH**



### 6" Round Trim

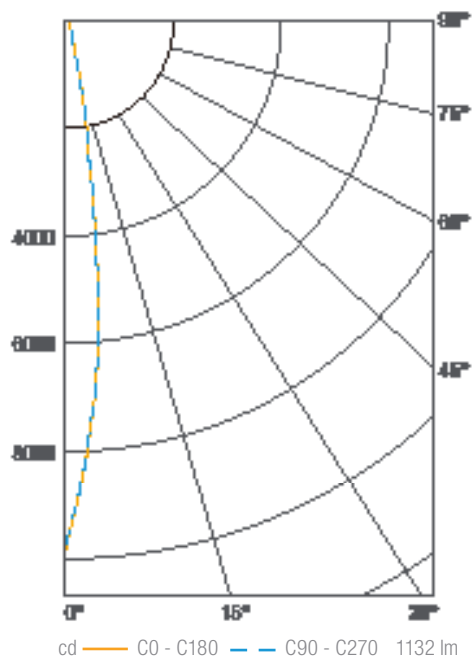
Beveled **DRD2TR6SWH**, Baffle **DRD2TR6BWH**



## PHOTOMETRY

### DRD2 1000 lm, 3000K, Narrow Spot

DRD2M10930NS



#### 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         |

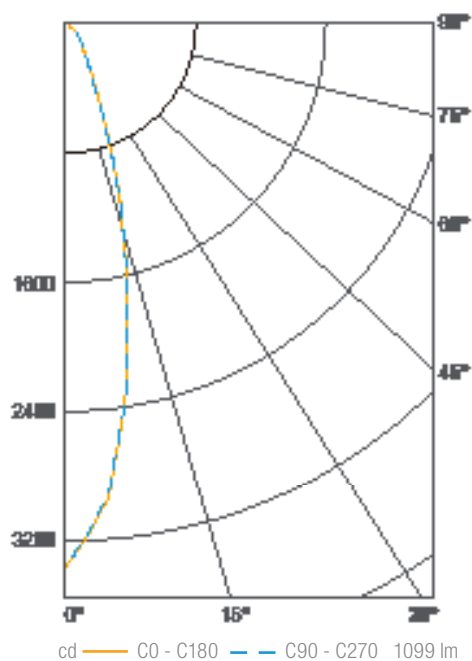
#### Illuminance Chart

| 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°

### DRD2 1000 lm, 3000K, Spot

DRD2M10930SP



#### 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

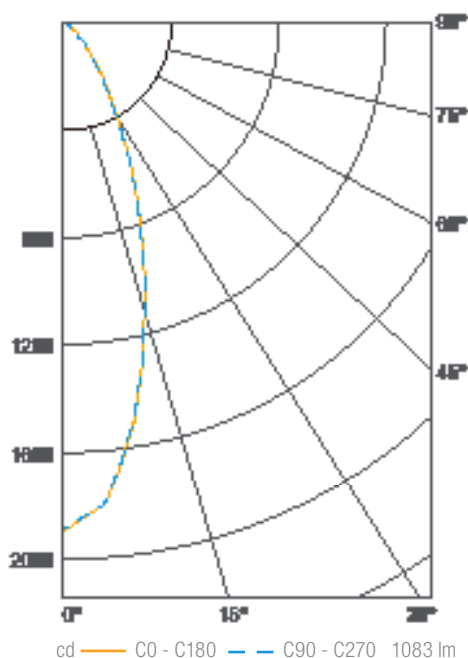
| Distance from LED | Foot Candles | Diameter |
|-------------------|--------------|----------|
| 3'                | 374          | 1.4'     |
| 6'                | 93           | 2.8'     |
| 9'                | 42           | 4.2'     |
| 12'               | 23           | 5.6'     |

Beam Angle: 26°

## PHOTOMETRY

**DRD2** 1000 lm, 3000K, Flood

DRD2M10930FL



## 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         |

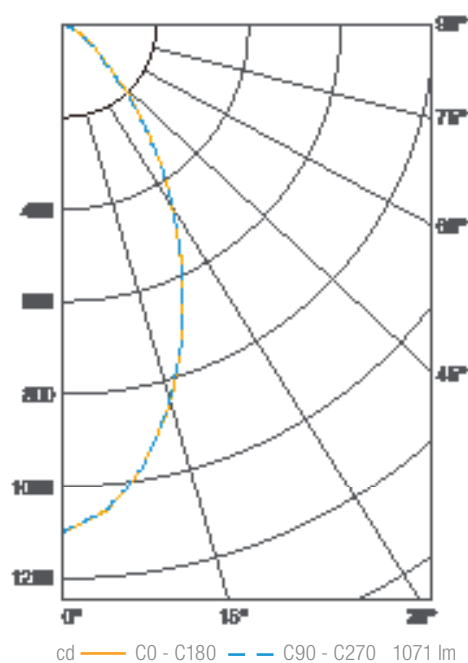
## Illuminance Chart

| 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°

**DRD2** 1000 lm, 3000K, Wide Flood

DRD2M10930WF



## 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

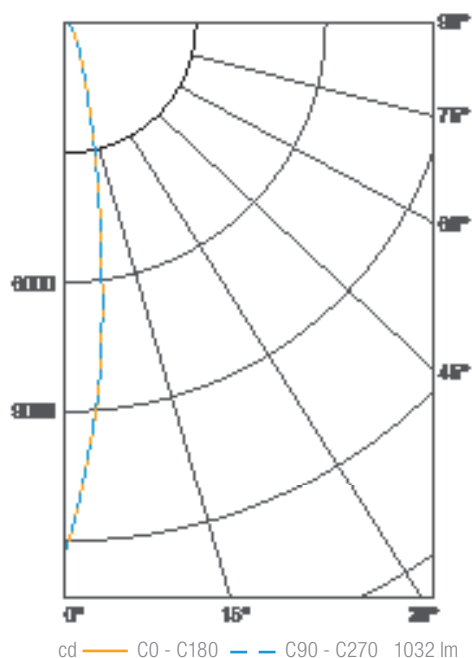
| Distance from LED | Foot Candles | Diameter |
|-------------------|--------------|----------|
| 3'                | 122          | 3.1'     |
| 6'                | 31           | 6.2'     |
| 9'                | 14           | 9.3'     |
| 12'               | 8            | 12.3'    |

Beam Angle: 55°

## PHOTOMETRY

**DRD2** 1000 lm, 3000K, General Ambient

DRD2M10930GA



## 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         |

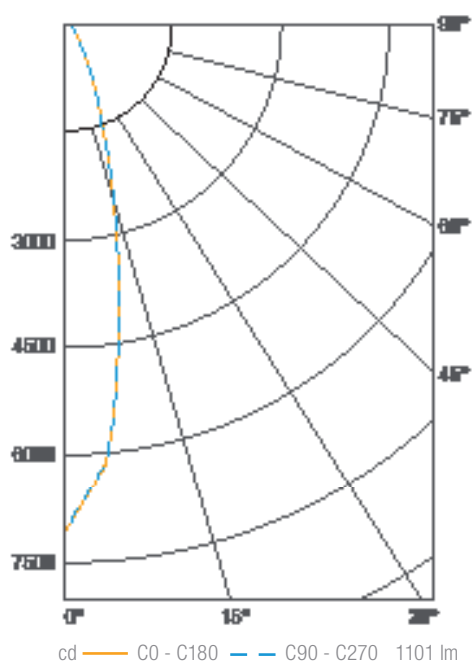
## Illuminance Chart

| 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°

**DRD2** 1000 lm, 3000K, Soft Focus

DRD2M10930SF



## Luminous Intensity

| Gamma | C 0° |
|-------|------|
| 0°    | 7280 |
| 5°    | 5603 |
| 10°   | 2489 |
| 15°   | 875  |
| 20°   | 381  |
| 25°   | 247  |
| 30°   | 194  |
| 35°   | 161  |
| 40°   | 122  |
| 45°   | 90   |
| 50°   | 64   |
| 55°   | 45   |
| 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  | 868    | 79          |
| 0-40  | 968    | 88          |
| 0-60  | 1078   | 98          |
| 0-90  | 1100   | 100         |
| 0-180 | 1101   | 100         |

## Illuminance Chart

| Distance from LED | Foot Candles | Diameter |
|-------------------|--------------|----------|
| 3'                | 809          | 0.9'     |
| 6'                | 202          | 1.7'     |
| 9'                | 90           | 2.6'     |
| 12'               | 51           | 3.4'     |

Beam Angle: 16°