

## NIOB-2RC

### 2" Iolite Round Adjustable Cone Reflector

Source: 14W to 28W LED  
800lm to 2500lm

#### PRODUCT DESCRIPTION

2" Iolite reflectors can be specified for use with Iolite new construction or remodel housings. Die-cast adjustable cone reflectors optimize visual cut-off and adjustable to aim the light source in desired direction.

#### FEATURES

- 800lm, 1000lm, 1500lm, 2000lm or 2500lm LED packages
- 2700K, 3000K, 3500K, 4000K, 5000K @ 90+ CRI
- Cree® LED COB or Comfort Dim Technology
- Flood optic, narrow flood and spot optics (included)
- 5-Year limited warranty

#### SPECIFICATION

**Construction:** Reflectors are constructed of heat dissipating, die-cast aluminum. The aluminum die-cast LED heat sink is threaded to fit the reflector and transfer heat.

**Mounting:** Reflector includes friction blades to mount securely to housing.

#### OPTICS

**800-1000lm:** Each reflector includes field changeable optics (25° spot, 35° narrow flood and 46° flood - preinstalled). Premium 15° and 25° TIR optics are also available.

**1500-2500lm:** Each reflector includes field changeable TIR optics (39° spot, 49° narrow flood - preinstalled and 61° flood).

#### ELECTRICAL

**Lumens / Wattage:** 800lm / 14W, 1000lm / 14W, 1500lm / 20W, 2000lm / 24W, 2500lm / 28W

**Color Temperature:** 2700K, 3000K, 3500K, 4000K, 5000K

**CRI:** 90+ CRI

**Operating Temp.:** 0°C to 40°C ambient temperature

**Lifetime:** 50,000 hours @ L70

**Comfort Dim:** Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 800lm only.

**Dimming:** Specified by housing

#### COMPATIBLE HOUSINGS

Reflectors are compatible with respective Iolite housings manufactured by Nora Lighting.

| CATALOG NO.   | DESCRIPTION           | LUMENS / WATTAGE |
|---------------|-----------------------|------------------|
| NHIOICD-28    | ICAT New Construction | 800-1000lm / 14W |
| NHIOICDCP-28  | Chicago Plenum        | 800-1000lm / 14W |
| NHRIIC-28     | ICAT Remodel          | 800-1000lm / 14W |
| NHIOICD-215   | ICAT New Construction | 1500lm / 20W     |
| NHIOICDCP-215 | Chicago Plenum        | 1500lm / 20W     |
| NHIOICD-220   | ICAT New Construction | 2000lm / 24W     |
| NHIOICDCP-220 | Chicago Plenum        | 2000lm / 24W     |
| NHIOICD-225   | ICAT New Construction | 2500lm / 28W     |
| NHIOICDCP-225 | Chicago Plenum        | 2500lm / 28W     |

**Accessories:** Reflectors will accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see accessories page. Flush mount mud ring is available to give the appearance of a trimless reflector, compatible with new construction housings only.

#### LABELS AND LISTINGS

- cULus Listed for Damp Locations
- ENERGY STAR certified
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2019



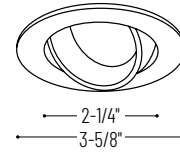
Type

Project

Catalog No.

Notes

#### PRODUCT IMAGES & DIMENSIONS



#### NIOB-2RC

Round Adjustable Cone Regressed Reflector

Adjustability:

New Construction: 30° (800-1000lm) / 25° (1500-2500lm)  
Remodel: 15° (800-1000lm)



#### BB

Black Reflector  
Black Flange



#### BW

Black Reflector  
White Flange



#### BZ

Bronze Reflector  
Bronze Flange



#### HW

Haze Reflector  
White Flange



#### HZMPW

Haze Reflector  
Matte Powder White Flange



#### MPW

Matte Powder White Reflector  
Matte Powder White Flange



#### NN

Natural Metal Reflector  
Natural Metal Flange



#### WW

White Reflector  
White Flange

#### 2" Iolite Round Adjustable Cone Reflector - Dedicated Housing Required

| Reflector Type                   | Color Temp.        | Finish                             | Lumens / Wattage      |
|----------------------------------|--------------------|------------------------------------|-----------------------|
| NIOB-2RC = Round Adjustable Cone | 27X = 2700K        | BB = Black / Black                 | (blank) = 800lm / 14W |
|                                  | 30X = 3000K        | BW = Black / White                 | /10 = 1000lm / 14W    |
|                                  | 35X = 3500K        | BZ = Bronze / Bronze               | /HL = 1500-2500lm     |
|                                  | 40X = 4000K        | HW = Haze / White                  | (varies by housing)   |
|                                  | 50X = 5000K        | HZMPW = Haze / Matte Powder White  |                       |
|                                  | CDX = Comfort Dim† | MPW = Matte Powder White           |                       |
|                                  |                    | NN = Natural Metal / Natural Metal |                       |
|                                  |                    | WW = White / White                 |                       |

† Comfort Dim technology available in 800lm & uses non-Cree COB modules. 1" & 2" Iolite uses a different dimming curve than 4" Comfort Dim

#### Compatible Housings

| Housing Type                                         |
|------------------------------------------------------|
| NHIOICD-28 = ICAT New Construction / 800-100lm / 14W |
| NHIOICDCP-28 = Chicago Plenum / 800-100lm / 14W      |
| NHRIIC-28 = ICAT Remodel / 800-100lm / 14W           |
| NHIOICD-215 = ICAT New Construction / 1500lm / 20W   |
| NHIOICDCP-215 = Chicago Plenum / 1500lm / 20W        |
| NHIOICD-220 = ICAT New Construction / 2000lm / 24W   |
| NHIOICDCP-220 = Chicago Plenum / 2000lm / 24W        |
| NHIOICD-225 = ICAT New Construction / 2500lm / 28W   |
| NHIOICDCP-225 = Chicago Plenum / 2500lm / 28W        |

Example: NIOB-2RC27XWW = 2" Iolite Round Adjustable Cone Reflector, 2700K, White finish, 800lm / 14W

## 2" Iolite Accessories

### 2" Iolite Round Adjustable Cone Reflector

Type

Project

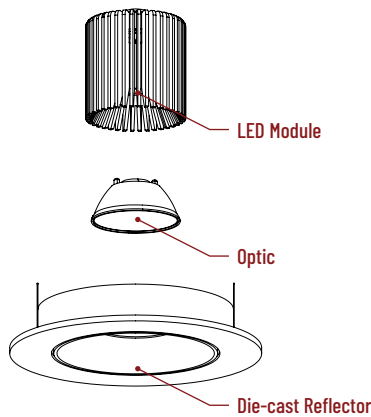
Catalog No.

Notes

#### FIELD CHANGEABLE OPTICS

Iolite reflectors include spot, narrow flood and flood optics. Optics can be changed in the field by removing LED module from die-cast reflector. Replacement optics include an optional frosted lens.

**Note:** Frosted filter-optics and Premium TIR optics are not compatible with /HL LED modules.



Frosted Filter-Optic

NIO-REFL15FR  
NIO-REFL25FR  
NIO-REFL38FR  
NIO-REFL60FR

15° Optic  
25° Optic  
35° Optic  
46° Optic

Optic assembly includes optional frosted lens. 25°, 35° and 46° optics are included with 800lm and 1000lm reflector.  
**Not compatible with /HL LED module.**



Premium TIR Optics

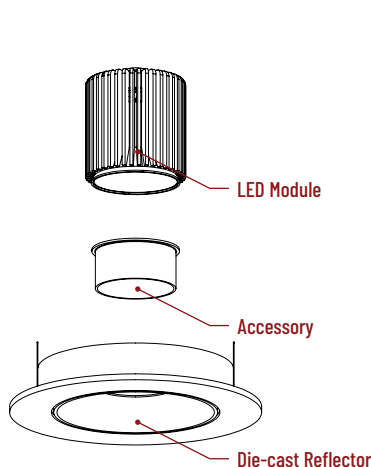
NIO-REFLTIR15  
NIO-REFLTIR25

15° Optic  
25° Optic

**Not compatible with /HL LED module or Comfort Dim (CDX) technology**

#### ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between LED module and die-cast reflector. Luminaire will accommodate (1) hex louver and (1) collar accessory, no accessory holder required.



Translucent Decorative Collar

NIO-AS14(color) 5/8" length  
NIO-AS19(color) 3/4" length  
NIO-AS26(color) 1" length  
**Color:**  
AM (amber), BLU (blue), FR (frosted), R (red)

Translucent collars color the aperture with the specified color while producing white general light. Collars are available in different lengths. Use to add interest, create a theme, match a theme or define a space.



Opaque Collar Snoot

NIO-AS14(color) 5/8" length  
NIO-AS19(color) 3/4" length  
NIO-AS26(color) 1" length  
**Color:**  
BLK (black), MPW (matte powder white), WH (white)

Opaque snoot greatly reduces aperture brightness while preserving light output. (Note: Black snoot will reduce light)

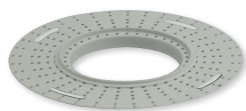


Hex Cell Louver

NIO-HC Black  
Hex cell louver subtly reduces aperture brightness by reducing light output by about 20%.

#### FLUSH MOUNT

2" Iolite reflectors can be installed flush with the drywall for a flush mount appearance. A flush mount mud ring is installed after the drywall and a professional drywall finisher floats the ceiling to blend in the mud ring.



Flush Mount Mud Ring

NIO-FMMR-2R

Round Mud Ring

Mounts trim flush to ceiling with reflector flange visible. **Mud ring attaches to drywall. Requires and only for use with NH10ICD-28 or NH10ICDCP-28 new construction housings and NIOB-2R reflectors.**  
Dimensions: 7-7/8" diameter 1/2" thick

# PHOTOMETRICS

## 2" Iolite Round Adjustable Cone Reflector

800 lumens

Type

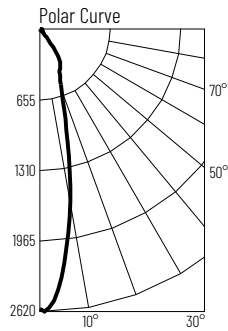
Project

Catalog No.

Notes

### Test Information

Test Number: NTR11264  
Part Number: NIOB-2RC30XWW  
Beam Spread: 24° Spot  
Lumens: 947lm  
Wattage: 14.2W  
Efficacy: 67lpw  
CCT / CRI: 3000K / 90 CRI  
Spacing Criteria (0°-180): 0.42  
Spacing Criteria (90°-270): 0.42



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 162fc       | 1'-8"         |
| 6'                      | 72.1fc      | 2'-7"         |
| 8'                      | 40.5fc      | 3'-6"         |
| 10'                     | 25.9fc      | 4'-5"         |
| 12'                     | 18fc        | 5'-2"         |

### Zonal Lumen Summary

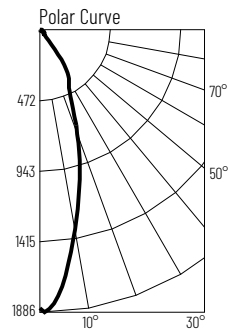
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 675    | 71.2        |
| 0-40   | 839    | 88.6        |
| 0-60   | 906    | 95.7        |
| 0-90   | 945    | 99.8        |
| 90-180 | 2      | 0.2         |
| 0-180  | 947    | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 2594    |
| 5               | 2302    |
| 15              | 967     |
| 25              | 443     |
| 35              | 291     |
| 45              | 45      |

### Test Information

Test Number: NTR11265  
Part Number: NIOB-2RC30XWW  
Beam Spread: 33° Narrow Flood  
Lumens: 936lm  
Wattage: 14.2W  
Efficacy: 66lpw  
CCT / CRI: 3000K / 90 CRI  
Spacing Criteria (0°-180): 0.54  
Spacing Criteria (90°-270): 0.54



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 116fc       | 2'-5"         |
| 6'                      | 51.6fc      | 3'-7"         |
| 8'                      | 29fc        | 4'-10"        |
| 10'                     | 18.6fc      | 5'-11"        |
| 12'                     | 12.9fc      | 7'-1"         |

### Zonal Lumen Summary

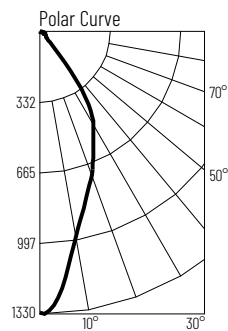
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 623    | 70.8        |
| 0-40   | 824    | 88.1        |
| 0-60   | 892    | 95.3        |
| 0-90   | 934    | 99.8        |
| 90-180 | 2      | 0.2         |
| 0-180  | 936    | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 1858    |
| 5               | 1677    |
| 15              | 1021    |
| 25              | 480     |
| 35              | 279     |
| 45              | 45      |

### Test Information

Test Number: NTR11263  
Part Number: NIOB-2RC30XWW  
Beam Spread: 44° Flood  
Lumens: 962lm  
Wattage: 14.2W  
Efficacy: 68lpw  
CCT / CRI: 3000K / 90 CRI  
Spacing Criteria (0°-180): 0.64  
Spacing Criteria (90°-270): 0.66



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 82.8fc      | 3'-4"         |
| 6'                      | 36.8fc      | 4'-11"        |
| 8'                      | 20.7fc      | 6'-6"         |
| 10'                     | 13.2fc      | 8'-1"         |
| 12'                     | 9.2fc       | 9'-10"        |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 614    | 63.8        |
| 0-40   | 831    | 86.3        |
| 0-60   | 913    | 94.9        |
| 0-90   | 960    | 99.8        |
| 90-180 | 2      | 0.2         |
| 0-180  | 962    | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 1324    |
| 5               | 1199    |
| 15              | 826     |
| 25              | 594     |
| 35              | 371     |
| 45              | 56      |

### Lumen Output Multipliers

Color Temperature: 2700K (0.97), 3000K (1.00), 3500K (1.04), 4000K (1.16), 5000K (1.17)

# PHOTOMETRICS

## 2" Iolite Round Adjustable Cone Reflector

1000 lumens

Type

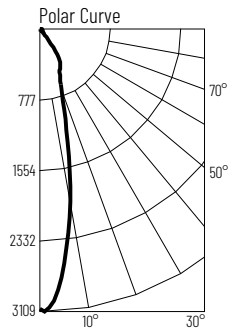
Project

Catalog No.

Notes

### Test Information

Test Number: NTR11264  
Part Number: NIOB-2RC30XWW/10  
Beam Spread: 28° Spot  
Lumens: 1253lm  
Wattage: 13.2W  
Efficacy: 95lpw  
CCT / CRI: 3000K / 90 CRI  
Spacing Criteria (0°-180): 0.44  
Spacing Criteria (90°-270): 0.5



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 185fc       | 1'-11"        |
| 6'                      | 82.3fc      | 2'-10"        |
| 8'                      | 46.3fc      | 3'-8"         |
| 10'                     | 29.6fc      | 4'-7"         |
| 12'                     | 20.6fc      | 5'-7"         |

### Zonal Lumen Summary

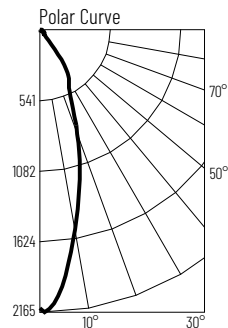
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 881    | 70.4        |
| 0-40   | 1089   | 87          |
| 0-60   | 1193   | 95.3        |
| 0-90   | 1248   | 99.7        |
| 90-180 | 4      | 0.3         |
| 0-180  | 1253   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 2964    |
| 5               | 2708    |
| 15              | 1198    |
| 25              | 558     |
| 35              | 367     |
| 45              | 60      |

### Test Information

Test Number: NTR11272  
Part Number: NIOB-2RC30XWW/10  
Beam Spread: 36° Narrow Flood  
Lumens: 1206lm  
Wattage: 13W  
Efficacy: 93lpw  
CCT / CRI: 3000K / 90 CRI  
Spacing Criteria (0°-180): 0.58  
Spacing Criteria (90°-270): 0.6



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 132fc       | 2'-7"         |
| 6'                      | 58.9fc      | 3'-11"        |
| 8'                      | 33.1fc      | 5'-2"         |
| 10'                     | 21.2fc      | 6'-5"         |
| 12'                     | 14.7fc      | 7'-8"         |

### Zonal Lumen Summary

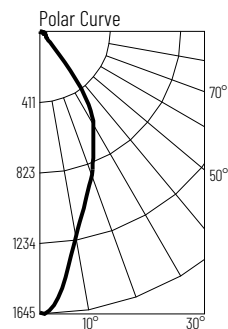
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 840    | 69.6        |
| 0-40   | 1044   | 86.5        |
| 0-60   | 1146   | 95          |
| 0-90   | 1203   | 99.8        |
| 90-180 | 3      | 0.2         |
| 0-180  | 1206   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 2119    |
| 5               | 1972    |
| 15              | 1264    |
| 25              | 605     |
| 35              | 357     |
| 45              | 57      |

### Test Information

Test Number: NTR11274  
Part Number: NIOB-2RC30XWW/10  
Beam Spread: 47° Flood  
Lumens: 1246lm  
Wattage: 13.2W  
Efficacy: 94lpw  
CCT / CRI: 3000K / 90 CRI  
Spacing Criteria (0°-180): 0.68  
Spacing Criteria (90°-270): 0.68



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 102fc       | 3'-6"         |
| 6'                      | 45.4fc      | 5'-2"         |
| 8'                      | 25.5fc      | 6'-11"        |
| 10'                     | 16.4fc      | 8'-8"         |
| 12'                     | 11.4fc      | 10'-5"        |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 793    | 63.7        |
| 0-40   | 1071   | 86          |
| 0-60   | 1180   | 94.7        |
| 0-90   | 1243   | 99.8        |
| 90-180 | 3      | 0.2         |
| 0-180  | 1246   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 1635    |
| 5               | 1525    |
| 15              | 1070    |
| 25              | 768     |
| 35              | 474     |
| 45              | 74      |

### Lumen Output Multipliers

Color Temperature: 2700K (0.98), 3000K (1.00), 3500K (1.09), 4000K (1.19), 5000K (1.16)

# PHOTOMETRICS

## 2" Iolite Round Adjustable Cone Reflector

1500 lumens

Type

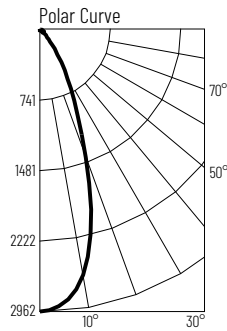
Project

Catalog No.

Notes

### Test Information

Test Number: NTR1270  
Part Number: NIOB-2RC40XWW/HL  
Beam Spread: 39° Spot  
Lumens: 1709lm  
Wattage: 19.51W  
Efficacy: 88lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.66  
Spacing Criteria (90°-270): 0.66



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 6'                      | 82.3fc      | 4'-4"         |
| 8'                      | 46.3fc      | 5'-8"         |
| 10'                     | 29.6fc      | 7'-1"         |
| 12'                     | 20.6fc      | 8'-6"         |
| 14'                     | 15.1fc      | 9'-11"        |

### Zonal Lumen Summary

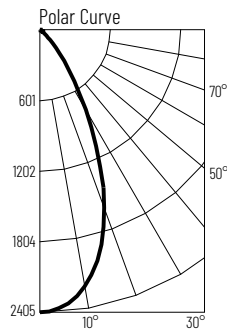
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 1255   | 73.4        |
| 0-40   | 1469   | 85.9        |
| 0-60   | 1638   | 95.8        |
| 0-90   | 1698   | 99.3        |
| 90-180 | 12     | 0.7         |
| 0-180  | 1709   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 2962    |
| 5               | 2880    |
| 15              | 2088    |
| 25              | 900     |
| 35              | 358     |
| 45              | 124     |

### Test Information

Test Number: NTR1253  
Part Number: NIOB-2RC40XWW/HL  
Beam Spread: 49° Narrow Flood  
Lumens: 1833lm  
Wattage: 19.34W  
Efficacy: 95lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.8  
Spacing Criteria (90°-270): 0.8



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 6'                      | 66.8fc      | 5'-7"         |
| 8'                      | 37.6fc      | 7'-5"         |
| 10'                     | 24fc        | 9'-4"         |
| 12'                     | 16.7fc      | 11'-1"        |
| 14'                     | 12.3fc      | 13'           |

### Zonal Lumen Summary

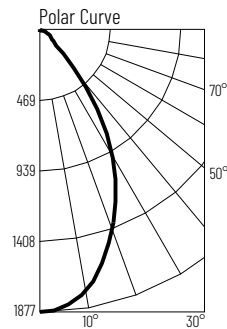
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 1308   | 71.4        |
| 0-40   | 1617   | 88.2        |
| 0-60   | 1783   | 97.3        |
| 0-90   | 1824   | 99.5        |
| 90-180 | 9      | 0.5         |
| 0-180  | 1833   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 2405    |
| 5               | 2360    |
| 15              | 1966    |
| 25              | 1189    |
| 35              | 479     |
| 45              | 142     |

### Test Information

Test Number: NTR1276  
Part Number: NIOB-2RC40XWW/HL  
Beam Spread: 61° Flood  
Lumens: 1570lm  
Wattage: 19.46W  
Efficacy: 81lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.92  
Spacing Criteria (90°-270): 0.92



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 6'                      | 40.6fc      | 7'-1"         |
| 8'                      | 22.8fc      | 9'-6"         |
| 10'                     | 14.6fc      | 11'-11"       |
| 12'                     | 10.1fc      | 14'-4"        |
| 14'                     | 7.5fc       | 16'-8"        |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 915    | 58.3        |
| 0-40   | 1231   | 78.4        |
| 0-60   | 1471   | 93.6        |
| 0-90   | 1560   | 99.3        |
| 90-180 | 11     | 0.7         |
| 0-180  | 1570   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 1460    |
| 5               | 1439    |
| 15              | 1251    |
| 25              | 938     |
| 35              | 551     |
| 45              | 175     |

### Lumen Output Multipliers

Color Temperature: 2700K (0.83), 3000K (0.89), 3500K (1.00), 4000K (1.00), 5000K (1.06)

# PHOTOMETRICS

## 2" Iolite Round Adjustable Cone Reflector

2000 lumens

Type

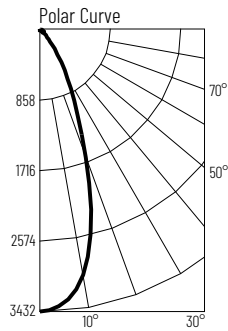
Project

Catalog No.

Notes

### Test Information

Test Number: NTR1271  
Part Number: NIOB-2RC40XWW/HL  
Beam Spread: 39° Spot  
Lumens: 1988lm  
Wattage: 24.16W  
Efficacy: 82lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.66  
Spacing Criteria (90°-270): 0.66



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 6'                      | 95.3fc      | 4'-4"         |
| 8'                      | 53.6fc      | 5'-8"         |
| 10'                     | 34.3fc      | 7'-1"         |
| 12'                     | 23.8fc      | 8'-6"         |
| 14'                     | 17.5fc      | 10'           |

### Zonal Lumen Summary

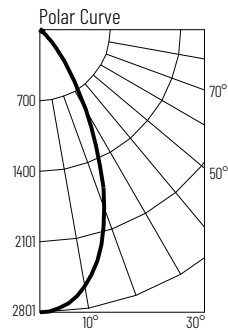
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 1458   | 73.3        |
| 0-40   | 1724   | 86.7        |
| 0-60   | 1904   | 95.8        |
| 0-90   | 1974   | 99.3        |
| 90-180 | 14     | 0.7         |
| 0-180  | 1988   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 3432    |
| 5               | 3336    |
| 15              | 2418    |
| 25              | 1051    |
| 35              | 418     |
| 45              | 145     |

### Test Information

Test Number: NTR1254  
Part Number: NIOB-2RC40XWW/HL  
Beam Spread: 49° Narrow Flood  
Lumens: 2133lm  
Wattage: 23.34W  
Efficacy: 91lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.8  
Spacing Criteria (90°-270): 0.8



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 6'                      | 77.8fc      | 5'-7"         |
| 8'                      | 43.8fc      | 7'-5"         |
| 10'                     | 28fc        | 9'-4"         |
| 12'                     | 19.5fc      | 11'-1"        |
| 14'                     | 14.3fc      | 13'           |

### Zonal Lumen Summary

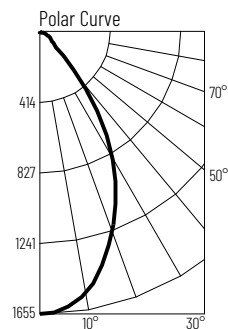
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 1523   | 71.4        |
| 0-40   | 1883   | 88.2        |
| 0-60   | 2075   | 97.3        |
| 0-90   | 2123   | 99.5        |
| 90-180 | 10     | 0.5         |
| 0-180  | 2133   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 2801    |
| 5               | 2749    |
| 15              | 2290    |
| 25              | 1385    |
| 35              | 556     |
| 45              | 165     |

### Test Information

Test Number: NTR1277  
Part Number: NIOB-2RC40XWW/HL  
Beam Spread: 61° Flood  
Lumens: 1781lm  
Wattage: 23.98W  
Efficacy: 74lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.92  
Spacing Criteria (90°-270): 0.92



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 6'                      | 46fc        | 7'-1"         |
| 8'                      | 25.9fc      | 9'-6"         |
| 10'                     | 16.5fc      | 11'-11"       |
| 12'                     | 11.5fc      | 14'-4"        |
| 14'                     | 8.4fc       | 16'-8"        |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 1037   | 58.2        |
| 0-40   | 1394   | 78.3        |
| 0-60   | 1667   | 93.6        |
| 0-90   | 1769   | 99.3        |
| 90-180 | 13     | 0.7         |
| 0-180  | 1781   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 1655    |
| 5               | 1631    |
| 15              | 1417    |
| 25              | 1063    |
| 35              | 624     |
| 45              | 197     |

### Lumen Output Multipliers

Color Temperature: 2700K (0.84), 3000K (0.87), 3500K (0.99), 4000K (1.00), 5000K (1.07)

# PHOTOMETRICS

## 2" Iolite Round Adjustable Cone Reflector 2500 lumens

Type

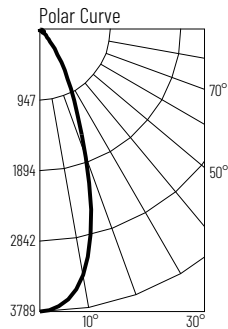
Project

Catalog No.

Notes

### Test Information

Test Number: NTR1272  
Part Number: NIOB-2RC40XWW/HL  
Beam Spread: 39° Spot  
Lumens: 2199lm  
Wattage: 28.37W  
Efficacy: 78lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.66  
Spacing Criteria (90°-270): 0.66



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 6'                      | 105fc       | 4'-4"         |
| 8'                      | 59.2fc      | 5'-8"         |
| 10'                     | 37.9fc      | 7'-1"         |
| 12'                     | 26.3fc      | 8'-6"         |
| 14'                     | 19.3fc      | 10'           |

### Zonal Lumen Summary

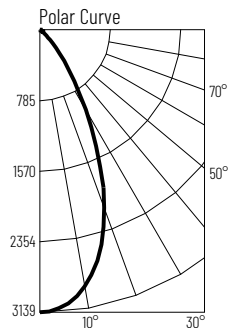
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 1611   | 73.20       |
| 0-40   | 1906   | 86.6        |
| 0-60   | 2106   | 95.8        |
| 0-90   | 2184   | 99.3        |
| 90-180 | 16     | 0.7         |
| 0-180  | 2199   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 3789    |
| 5               | 3685    |
| 15              | 2671    |
| 25              | 1159    |
| 35              | 463     |
| 45              | 162     |

### Test Information

Test Number: NTR1255  
Part Number: NIOB-2RC40XWW/HL  
Beam Spread: 49° Narrow Flood  
Lumens: 2389lm  
Wattage: 27.85W  
Efficacy: 86lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.8  
Spacing Criteria (90°-270): 0.8



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 6'                      | 87.2fc      | 5'-7"         |
| 8'                      | 49fc        | 7'-5"         |
| 10'                     | 31.4fc      | 9'-4"         |
| 12'                     | 21.8fc      | 11'-1"        |
| 14'                     | 16fc        | 13'           |

### Zonal Lumen Summary

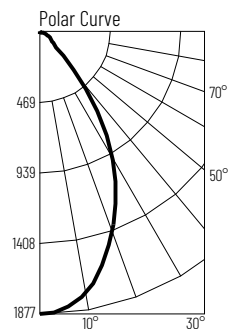
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 1707   | 71.4        |
| 0-40   | 2109   | 88.3        |
| 0-60   | 2325   | 97.3        |
| 0-90   | 2378   | 99.5        |
| 90-180 | 11     | 0.5         |
| 0-180  | 2389   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 3139    |
| 5               | 3081    |
| 15              | 2565    |
| 25              | 1552    |
| 35              | 623     |
| 45              | 185     |

### Test Information

Test Number: NTR1278  
Part Number: NIOB-2RC40XWW/HL  
Beam Spread: 61° Flood  
Lumens: 2021lm  
Wattage: 28.26W  
Efficacy: 72lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.92  
Spacing Criteria (90°-270): 0.92



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 6'                      | 52.1fc      | 7'-1"         |
| 8'                      | 29.3fc      | 9'-6"         |
| 10'                     | 18.8fc      | 11'-11"       |
| 12'                     | 13fc        | 14'-4"        |
| 14'                     | 9.6fc       | 16'-8"        |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 1176   | 58.2        |
| 0-40   | 1582   | 78.3        |
| 0-60   | 1891   | 93.6        |
| 0-90   | 2006   | 99.3        |
| 90-180 | 15     | 0.7         |
| 0-180  | 2021   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 1877    |
| 5               | 1849    |
| 15              | 1606    |
| 25              | 1205    |
| 35              | 708     |
| 45              | 224     |

### Lumen Output Multipliers

Color Temperature: 2700K (0.82), 3000K (0.89), 3500K (0.99), 4000K (1.00), 5000K (1.05)