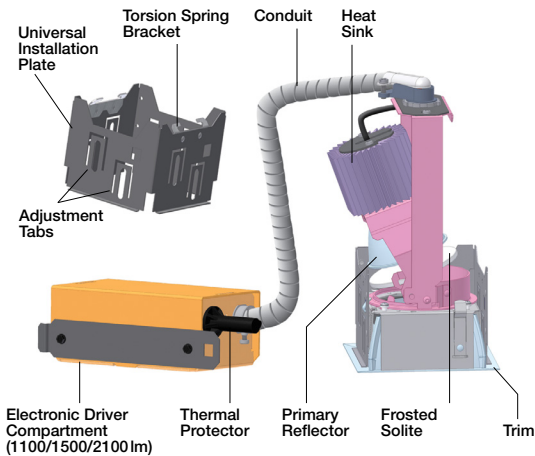




J343 Wide 38°
J345 Medium 29°
J347 Narrow 20°

3 1/2" Square Directional Downlights with Lens
 1100, 1500 and 2100 lumen
 Xicato®



OPTICS and APPLICATIONS

3" directional downlights optimizes output while controlling glare in both directional and downlight applications. The optical assembly is designed with locking capability to rotate 360° and angulate 30° to accommodate architectural aiming and control. Ceiling materials must be rigid to support fixture frame. See ordering guide for tile ceiling mounting tray and flush mount options. Ideal for highlighting merchandise, art objects and points of interest.

DESIGN FEATURES - MultiSource® Capable

An installation plate is provided separate, is the same for downlight and wall wash fixture functions, and installs directly into the ceiling. Tool-less adjustment tabs easily secure and accommodate all hard ceiling types and thickness from 3/8"-1 1/2". The plate allows for installation and serviceability from below the ceiling without jeopardizing the integrity of the ceiling. Products are designed with MultiSource® plug and play connectors allowing field conversion to other sources. Components are Zhaga compatible to accommodate future source options. Proprietary passive heatsinks ensure proper temperatures are maintained.

MODULES and DRIVERS

Xicato® modules provide excellent even, stable color and increased fixture efficiencies. The LED module holds color consistency within 1x2 MacAdam Ellipses. Standard 83 CRI. Dimming is standard 0-10V/10%. Rated life is 50,000 hours at 70% lumen output.

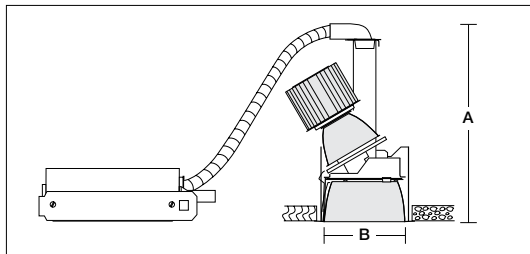
FINISH

Standard trim is anodized Softglow® clear. SoftSheen™ is a new finish that lowers apparent brightness due to remote phosphor sources. Colors available, see options below. Steel parts are phosphate conditioned then painted matte black to suppress light leaks.

GENERAL

Fixture is pre-wired and thermal protected. UL and/or CSA certified to US and Canadian standards. Suitable for damp locations. Approved for eight wire 90°C branch circuit wiring. All products are union made. Designed and manufactured in the USA.

DIMENSIONS and SOURCES



| Number | A Height* | B Aperture | Initial Lumens |
|----------------------|------------------|----------------|--|
| J343 J345 J347 | 8 7/16" 214mm | 3 1/2" 89mm | 1100 lm, 1500 lm or 2100 lm Xicato® |

*Plenum clearance required for installation: 9".

WARRANTY

5 Year Warranty. See www.kurtversen.com for details or select hyperlink.

ENERGY INFORMATION

| Fixture | Module Lumens | Delivered Lumens* | System Watts | lm/W |
|---------|---------------|-------------------|--------------|------|
| J343 | 1100 | 596 | 14 | 43.0 |
| | 1500 | 813 | 18 | 45.2 |
| | 2100 | 1138 | 24 | 47.0 |
| J345 | 1100 | 611 | 14 | 44.0 |
| | 1500 | 833 | 18 | 46.0 |
| | 2100 | 1167 | 24 | 49.0 |
| J347 | 1100 | 562 | 14 | 40.0 |
| | 1500 | 767 | 18 | 43.0 |
| | 2100 | 1072 | 24 | 45.0 |

*Data recorded at nadir.

ORDERING GUIDE

| | |
|--|--------------------|
| Base Specification (required) Example: J345-213012D | Options (optional) |
|--|--------------------|

| Model | Source Lumens | Kelvin | Volts | Dimming | CRI | Trim Finish | Trim Color | Trim Paint | Lens Options | Mounting |
|-----------------------|--------------------|----------------------|--------------------|--|--|---------------------------|--|---|---|---|
| J343 Wide | 11 1100 15 1500 | 27 2700K 30 3000K | 12 120V 27 277V | D Standard 0-10V, to 10%. | Standard 83 CRI AS 98 CRI. | Standard Softglow® (S) | Standard clear B Black G Gold W Wheat Y Pewter | Standard clear WT White Flange. WHT White Cone, complete. | Standard Solite clear LL Linear lens. LLFR Linear lens frosted. LS Clear lens. LSFR Clear lens frosted. SOFR Solite lens frosted. | Standard IFB with flange TC Tile ceiling mounting tray. FMH3 Flush mount drywall. |
| J345 Medium | 21 2100 | 35 3500K 40 4000K | | D1 Hi-lume 1% 3-wire LED driver DE Hi-lume 1% EcoSystem LED driver to 1%. | VS8 Vibrant 83 CRI. VS9 Vibrant 95 CRI. | SS SoftSheen™ | | | | |
| J347 Narrow | | | | DM1 0-10V to 1%. DM01 0-10V to .1%. | | | | | | |

OPTION NOTES

1. Artist Series® 98 +/-3 CRI modules. Contact factory for energy information.
2. Vibrant Series™, 83 CRI, 3000K only. Contact factory for energy information.
3. Vibrant Series™, 95 CRI, 3000K only. Contact factory for energy information.

Rev3 Date 6/14/20118



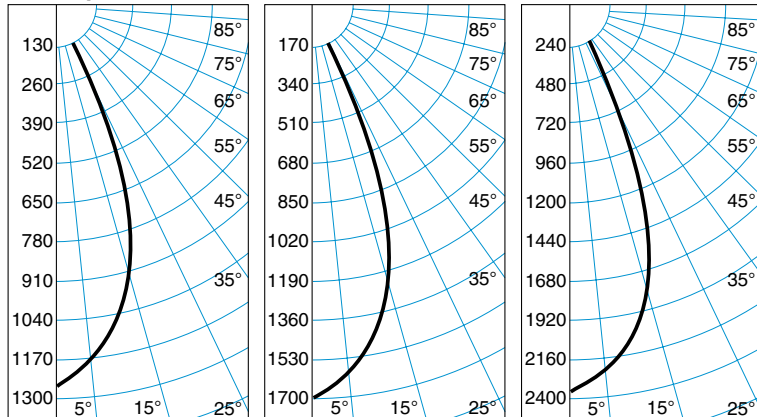
Footcandle Values at 15° Tilt

| Distance | 5' | | | 8' | | | 10' | | | 12' | | | | | | | | | | | | |
|--------------------|-------|----|------|-------|----|------|-------|----|------|-------|----|------|----|----|----|----|----|----|----|----|---|----|
| | Nadir | 5° | 15° | Nadir | 5° | 15° | Nadir | 5° | 15° | Nadir | 5° | 15° | | | | | | | | | | |
| Source | FC | FC | Diam | FC | FC | Diam | FC | FC | Diam | FC | FC | Diam | | | | | | | | | | |
| J343 1100 lm 3000K | 46 | 41 | 1' | 25 | 3' | | 18 | 16 | 1' | 10 | 4' | | 11 | 10 | 2' | 6 | 5' | 8 | 7 | 2' | 4 | 6' |
| J343 1500 lm 3000K | 62 | 56 | 1' | 34 | 3' | | 24 | 22 | 1' | 13 | 4' | | 15 | 14 | 2' | 9 | 5' | 11 | 10 | 2' | 6 | 6' |
| J343 2100 lm 3000K | 87 | 79 | 1' | 48 | 3' | | 34 | 31 | 1' | 19 | 4' | | 22 | 20 | 2' | 12 | 5' | 15 | 14 | 2' | 8 | 6' |

Performance Datachart

| Single Unit Initial Footcandles, 30" Work Plane | | | | | | Ceiling to Floor | | | | Multiple Units Initial Footcandles, 30" Work Plane | | | | | | | | | |
|---|----|------|----|-----|------|------------------|------|-----|--|--|--|---------|--|-------|--|-------|--|-------|--|
| J343 Xicato® 1100 lm 3000K Read Top J343 Xicato® 1500 lm 3000K Read Middle J343 Xicato® 2100 lm 3000K Read Bottom | | | | | | | | | | Ceiling 80% Walls 50% Floor 20% | | | | | | | | | |
| Spacing is Maximum Over Work Plane | | | | | | | | | | | | | | | | | | | |
| Nadir | | 10° | | 20° | | 30° | | | | | | Spacing | | RCR 1 | | RCR 3 | | RCR 8 | |
| FC | FC | Diam | FC | FC | Diam | FC | Diam | | | | | | | | | | | | |
| 41 | 35 | 2' | 17 | 17 | 4' | 3 | 6' | 8' | | | | 4' | | 48 | | 42 | | 33 | |
| 56 | 47 | 2' | 24 | 24 | 4' | 5 | 6' | | | | | 4' | | 65 | | 58 | | 45 | |
| 78 | 66 | 2' | 33 | 33 | 4' | 7 | 6' | | | | | 4' | | 91 | | 81 | | 63 | |
| 29 | 25 | 2' | 13 | 13 | 5' | 2 | 8' | 9' | | | | 4' | | 34 | | 30 | | 24 | |
| 40 | 34 | 2' | 17 | 17 | 5' | 3 | 8' | | | | | 4' | | 47 | | 41 | | 32 | |
| 56 | 47 | 2' | 24 | 24 | 5' | 5 | 8' | 10' | | | | 5' | | 26 | | 23 | | 18 | |
| 22 | 19 | 3' | 9 | 9 | 5' | 2 | 9' | | | | | 5' | | 35 | | 31 | | 24 | |
| 30 | 25 | 3' | 13 | 13 | 5' | 3 | 9' | | | | | 5' | | 49 | | 43 | | 34 | |
| 42 | 36 | 3' | 18 | 18 | 5' | 4 | 9' | 11' | | | | 6' | | 20 | | 18 | | 14 | |
| 17 | 15 | 3' | 7 | 7 | 6' | 1 | 10' | | | | | 6' | | 27 | | 24 | | 19 | |
| 23 | 20 | 3' | 10 | 10 | 6' | 2 | 10' | | | | | 6' | | 38 | | 34 | | 27 | |
| 33 | 28 | 3' | 14 | 14 | 6' | 3 | 10' | 12' | | | | 6' | | 16 | | 14 | | 11 | |
| 14 | 12 | 3' | 6 | 6 | 7' | 1 | 11' | | | | | 6' | | 22 | | 19 | | 15 | |
| 19 | 16 | 3' | 8 | 8 | 7' | 2 | 11' | | | | | 6' | | 31 | | 27 | | 21 | |
| 26 | 22 | 3' | 11 | 11 | 7' | 2 | 11' | | | | | | | | | | | | |

Candlepower Distribution



J343 Xicato® 1100 lm
3000K S/M .68
Luminous efficacy 43.0

J343 Xicato® 1500 lm
3000K S/M .45
Luminous efficacy 45.2

J343 Xicato® 2100 lm
3000K S/M .68
Luminous efficacy 47.0

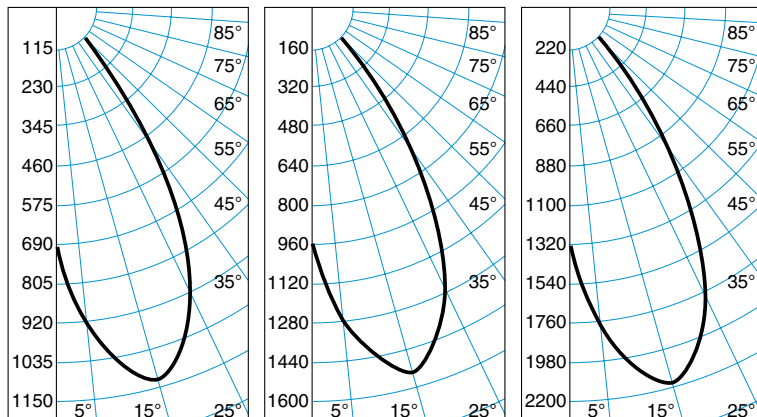
Candelas

| o | 14W | 18W | 24W |
|----|------|------|-------|
| | 596* | 813* | 1138* |
| 0 | 1234 | 1682 | 2355 |
| 5 | 1172 | 1598 | 2238 |
| 10 | 1097 | 1496 | 2094 |
| 15 | 943 | 1286 | 1801 |
| 20 | 637 | 868 | 1216 |
| 25 | 316 | 431 | 603 |
| 30 | 162 | 221 | 310 |
| 35 | 78 | 106 | 148 |
| 40 | 25 | 34 | 48 |
| 45 | 9 | 13 | 18 |
| 50 | 7 | 9 | 13 |
| 55 | 6 | 8 | 11 |
| 60 | 5 | 6 | 9 |
| 65 | 0 | 0 | 0 |
| 70 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 80 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 |

o Vertical Angles
* Luminaire Lumens

Notes

- Photometric Reports:
J343 at Nadir:
1100 lm - 310163N4
1500 lm - 310163N3
2100 lm - 310163N2
J343 with 15 degree tilt:
1100 lm - 310163B
1500 lm - 310163A
2100 lm - 310163
- Datachart degree headings show one side of nadir. Diameter data includes both sides. Therefore the 10° column shows a 20° pattern diameter at the work plane. Footcandle values are at the diameter edge.
- The luminous efficacy (lm/W) refers to the total measured luminous flux (lumens) of the fixture divided by the total measured electrical input power (watts) of the complete fixture.



J343 Xicato® 1100 lm
15° tilt 3000K S/M .60
Luminous efficacy 39.0

J343 Xicato® 1500 lm
15° tilt 3000K S/M .60
Luminous efficacy 41.0

J343 Xicato® 2100 lm
15° tilt 3000K S/M .60
Luminous efficacy 43.0

| o | 14W | 18W | 24W |
|----|------|------|-------|
| | 541* | 734* | 1034* |
| 0 | 1140 | 1545 | 2176 |
| 5 | 1049 | 1421 | 2002 |
| 10 | 951 | 1289 | 1816 |
| 15 | 701 | 951 | 1339 |
| 20 | 518 | 702 | 989 |
| 25 | 344 | 466 | 657 |
| 30 | 142 | 193 | 272 |
| 35 | 65 | 88 | 124 |
| 40 | 38 | 52 | 73 |
| 45 | 25 | 33 | 47 |
| 50 | 16 | 22 | 31 |
| 55 | 11 | 15 | 21 |
| 60 | 10 | 13 | 19 |
| 65 | 8 | 11 | 15 |
| 70 | 6 | 9 | 12 |
| 75 | 4 | 6 | 8 |
| 80 | 3 | 4 | 6 |
| 85 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 |

o Vertical Angles
* Luminaire Lumens

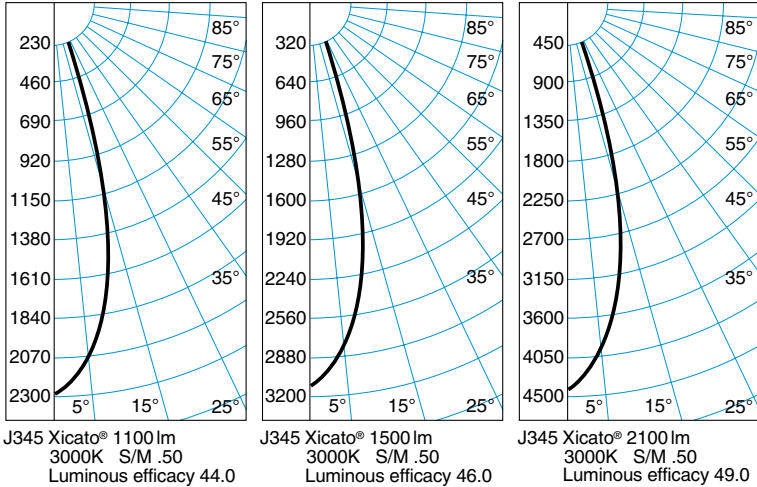
Footcandle Values at 15° Tilt

| Distance | 5' | | | 8' | | | 10' | | | 12' | | | | | | | | | | | | |
|--------------------|-------|-----|------|-------|----|------|-------|----|------|-------|----|------|----|----|------|----|----|----|----|----|----|----|
| | Nadir | 5° | 15° | Nadir | 5° | 15° | Nadir | 5° | 15° | Nadir | 5° | 15° | | | | | | | | | | |
| Source | FC | FC | Diam | FC | FC | Diam | FC | FC | Diam | FC | FC | Diam | FC | FC | Diam | | | | | | | |
| J345 1100 lm 3000K | 82 | 75 | 1' | 34 | 3' | | 32 | 29 | 1' | 13 | 4' | | 21 | 19 | 2' | 8 | 5' | 14 | 13 | 2' | 6 | 6' |
| J345 1500 lm 3000K | 112 | 102 | 1' | 46 | 3' | | 44 | 40 | 1' | 18 | 4' | | 28 | 26 | 2' | 11 | 5' | 20 | 18 | 2' | 8 | 6' |
| J345 2100 lm 3000K | 157 | 143 | 1' | 64 | 3' | | 61 | 56 | 1' | 25 | 4' | | 39 | 36 | 2' | 16 | 5' | 27 | 25 | 2' | 11 | 6' |

Performance Datachart

| Single Unit Initial Footcandles, 30" Work Plane | | | | | Ceiling to Floor | | | | Multiple Units Initial Footcandles, 30" Work Plane | | | |
|---|-----|------|-----|------|------------------|-----|------|----|--|-------|-------|-------|
| J345 Xicato® 1100 lm 3000K Read Top J345 Xicato® 1500 lm 3000K Read Middle J345 Xicato® 2100 lm 3000K Read Bottom | | | | | | | | | Ceiling 80% Walls 50% Floor 20% | | | |
| Spacing is Maximum Over Work Plane | | | | | | | | | | | | |
| Nadir | 10° | | 20° | | | | | | Spacing | RCR 1 | RCR 3 | RCR 8 |
| FC | FC | Diam | FC | Diam | FC | FC | Diam | FC | FC | FC | FC | |
| 76 | 54 | 2' | 14 | 4' | 1 | 6' | | 3' | 91 | 82 | 69 | |
| 103 | 74 | 2' | 19 | 4' | 1 | 6' | 8' | 3' | 124 | 112 | 94 | |
| 144 | 103 | 2' | 27 | 4' | 1 | 6' | | 3' | 173 | 157 | 131 | |
| 54 | 39 | 2' | 10 | 5' | 1 | 8' | 9' | 3' | 65 | 59 | 49 | |
| 74 | 53 | 2' | 14 | 5' | 1 | 8' | | 3' | 89 | 80 | 67 | |
| 103 | 74 | 2' | 19 | 5' | 1 | 8' | | 3' | 124 | 113 | 94 | |
| 41 | 29 | 3' | 7 | 5' | 0 | 9' | 10' | 4' | 49 | 44 | 37 | |
| 55 | 40 | 3' | 10 | 5' | 1 | 9' | | 4' | 67 | 60 | 50 | |
| 78 | 55 | 3' | 14 | 5' | 1 | 9' | | 4' | 93 | 85 | 71 | |
| 32 | 23 | 3' | 6 | 6' | 0 | 10' | 11' | 4' | 38 | 35 | 29 | |
| 43 | 31 | 3' | 8 | 6' | 0 | 10' | | 4' | 52 | 47 | 39 | |
| 60 | 43 | 3' | 11 | 6' | 1 | 10' | | 4' | 72 | 66 | 55 | |
| 25 | 18 | 3' | 5 | 7' | 0 | 11' | 12' | 5' | 31 | 28 | 23 | |
| 35 | 25 | 3' | 6 | 7' | 0 | 11' | | 5' | 42 | 38 | 31 | |
| 48 | 35 | 3' | 9 | 7' | 0 | 11' | | 5' | 58 | 53 | 44 | |

Candlepower Distribution



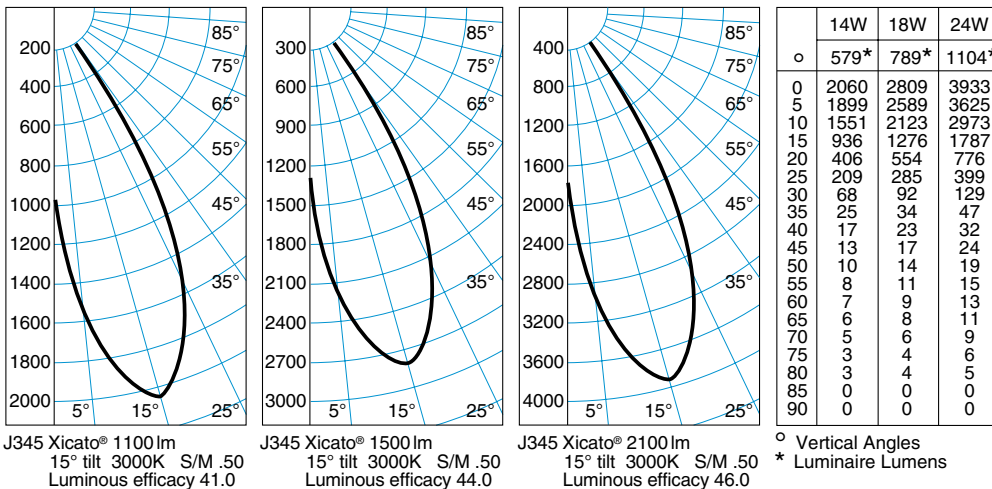
Candelas

| | 14W | 18W | 24W |
|----|------|------|-------|
| o | 611* | 833* | 1167* |
| 0 | 2287 | 3119 | 4367 |
| 5 | 2092 | 2852 | 3993 |
| 10 | 1711 | 2333 | 3267 |
| 15 | 1095 | 1493 | 2091 |
| 20 | 508 | 692 | 969 |
| 25 | 140 | 191 | 268 |
| 30 | 33 | 45 | 63 |
| 35 | 18 | 25 | 35 |
| 40 | 14 | 19 | 27 |
| 45 | 11 | 15 | 21 |
| 50 | 7 | 10 | 14 |
| 55 | 5 | 7 | 10 |
| 60 | 5 | 6 | 9 |
| 65 | 0 | 0 | 0 |
| 70 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 80 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 |

o Vertical Angles
* Luminaire Lumens

Notes

- Photometric Reports:
J345 at Nadir:
1100 lm - 310165N4
1500 lm - 310165N3
2100 lm - 310165N2
J345 with 15 degree tilt:
1100 lm - 310165B
1500 lm - 310165A
2100 lm - 310165
- Datachart degree headings show one side of nadir. Diameter data includes both sides. Therefore the 10° column shows a 20° pattern diameter at the work plane. Footcandle values are at the diameter edge.
- The luminous efficacy (lm/W) refers to the total measured luminous flux (lumens) of the fixture divided by the total measured electrical input power (watts) of the complete fixture.



o Vertical Angles
* Luminaire Lumens

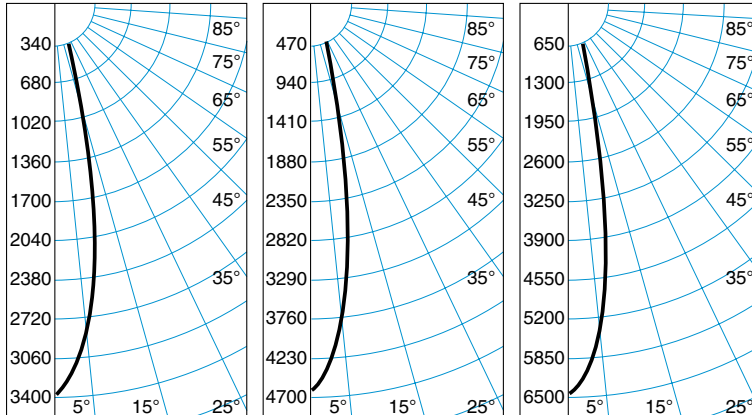
Footcandle Values at 15° Tilt

| Distance | 5' | | | 8' | | | 10' | | | 12' | | | | | | | | | | |
|--------------------|-------|-----|------|-------|----|------|-------|----|------|-------|----|------|----|---|----|----|----|----|---|----|
| | Nadir | 5° | 15° | Nadir | 5° | 15° | Nadir | 5° | 15° | Nadir | 5° | 15° | | | | | | | | |
| Source | FC | FC | Diam | FC | FC | Diam | FC | FC | Diam | FC | FC | Diam | | | | | | | | |
| J347 1100 lm 3000K | 89 | 70 | 1' | 20 | 3' | 35 | 27 | 1' | 8 | 4' | 22 | 17 | 2' | 5 | 5' | 16 | 12 | 2' | 3 | 6' |
| J347 1500 lm 3000K | 122 | 95 | 1' | 27 | 3' | 48 | 37 | 1' | 11 | 4' | 30 | 24 | 2' | 7 | 5' | 21 | 17 | 2' | 5 | 6' |
| J347 2100 lm 3000K | 171 | 134 | 1' | 38 | 3' | 67 | 52 | 1' | 15 | 4' | 43 | 33 | 2' | 9 | 5' | 30 | 23 | 2' | 7 | 6' |

Performance Datachart

| Single Unit Initial Footcandles, 30" Work Plane | | | | | | Ceiling to Floor | | | | Multiple Units Initial Footcandles, 30" Work Plane | | | | | | | |
|---|----|------|----|-----|------|------------------|-----|--|--|--|----|-------|-----|-------|------|-------|----|
| J347 Xicato® 1100 lm 3000K Read Top J347 Xicato® 1500 lm 3000K Read Middle J347 Xicato® 2100 lm 3000K Read Bottom | | | | | | | | | | Ceiling 80% Walls 50% Floor 20% | | | | | | | |
| Nadir | | | | | | | | | | Spacing is Maximum Over Work Plane | | | | | | | |
| 10° | | 20° | | 30° | | | | | | Spacing | | RCR 1 | | RCR 3 | | RCR 8 | |
| FC | FC | Diam | FC | FC | Diam | | | | | FC | FC | Diam | FC | FC | Diam | FC | FC |
| 112 | 51 | 2' | 9 | 4' | 1 | 6' | 8' | | | | 2' | 182 | 166 | 141 | | | |
| 153 | 70 | 2' | 12 | 4' | 1 | 6' | | | | | 2' | 248 | 226 | 193 | | | |
| 214 | 98 | 2' | 17 | 4' | 1 | 6' | | | | | 2' | 346 | 316 | 270 | | | |
| 80 | 37 | 2' | 7 | 5' | 0 | 8' | 9' | | | | 2' | 130 | 119 | 101 | | | |
| 109 | 50 | 2' | 9 | 5' | 1 | 8' | | | | | 2' | 177 | 162 | 138 | | | |
| 153 | 70 | 2' | 12 | 5' | 1 | 8' | | | | | 2' | 248 | 226 | 193 | | | |
| 60 | 28 | 3' | 5 | 5' | 0 | 9' | 10' | | | | 3' | 98 | 89 | 76 | | | |
| 82 | 38 | 3' | 7 | 5' | 0 | 9' | | | | | 3' | 133 | 121 | 104 | | | |
| 115 | 53 | 3' | 9 | 5' | 1 | 9' | | | | | 3' | 186 | 170 | 145 | | | |
| 47 | 21 | 3' | 4 | 6' | 0 | 10' | 11' | | | | 3' | 76 | 69 | 59 | | | |
| 64 | 29 | 3' | 5 | 6' | 0 | 10' | | | | | 3' | 104 | 95 | 81 | | | |
| 89 | 41 | 3' | 7 | 6' | 0 | 10' | | | | | 3' | 145 | 132 | 113 | | | |
| 37 | 17 | 3' | 3 | 7' | 0 | 11' | 12' | | | | 3' | 61 | 55 | 47 | | | |
| 51 | 23 | 3' | 4 | 7' | 0 | 11' | | | | | 3' | 83 | 76 | 65 | | | |
| 72 | 33 | 3' | 6 | 7' | 0 | 11' | | | | | 3' | 116 | 106 | 90 | | | |

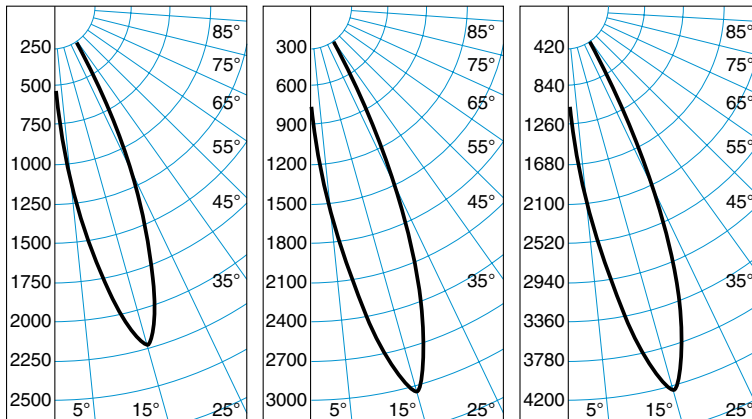
Candelpower Distribution



J347 Xicato® 1100 lm
3000K S/M .34
Luminous efficacy 40.0

J347 Xicato® 1500 lm
3000K S/M .34
Luminous efficacy 43.0

J347 Xicato® 2100 lm
3000K S/M .34
Luminous efficacy 45.0



J347 Xicato® 1100 lm
15° tilt 3000K S/M .34
Luminous efficacy 32.0

J347 Xicato® 1500 lm
15° tilt 3000K S/M .34
Luminous efficacy 34.0

J347 Xicato® 2100 lm
15° tilt 3000K S/M .34
Luminous efficacy 36.0

Candelas

| o | 14W | 18W | 24W |
|----|------|------|-------|
| | 562* | 767* | 1072* |
| 0 | 3384 | 4614 | 6460 |
| 5 | 2816 | 3840 | 5377 |
| 10 | 1624 | 2215 | 3101 |
| 15 | 788 | 1074 | 1504 |
| 20 | 333 | 454 | 636 |
| 25 | 85 | 116 | 163 |
| 30 | 29 | 39 | 55 |
| 35 | 21 | 29 | 41 |
| 40 | 17 | 23 | 32 |
| 45 | 12 | 16 | 22 |
| 50 | 8 | 11 | 15 |
| 55 | 6 | 8 | 11 |
| 60 | 4 | 6 | 8 |
| 65 | 0 | 0 | 0 |
| 70 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 80 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 |

o Vertical Angles
* Luminaire Lumens

Notes

- Photometric Reports:
J347 at Nadir:
1100 lm - 310167N3
1500 lm - 310167N2
2100 lm - 310167N1
J347 with 15 degree tilt:
1100 lm - 310167B
1500 lm - 310167A
2100 lm - 310167
- Datachart degree headings show one side of nadir. Diameter data includes both sides. Therefore the 10° column shows a 20° pattern diameter at the work plane. Footcandle values are at the diameter edge.
- The luminous efficacy (lm/W) refers to the total measured luminous flux (lumens) of the fixture divided by the total measured electrical input power (watts) of the complete fixture.

| o | 14W | 18W | 24W |
|----|------|------|------|
| | 453* | 618* | 865* |
| 0 | 2236 | 3049 | 4269 |
| 5 | 1769 | 2413 | 3378 |
| 10 | 1083 | 1477 | 2068 |
| 15 | 549 | 748 | 1048 |
| 20 | 281 | 383 | 536 |
| 25 | 188 | 256 | 359 |
| 30 | 71 | 97 | 136 |
| 35 | 27 | 36 | 51 |
| 40 | 18 | 25 | 35 |
| 45 | 14 | 19 | 26 |
| 50 | 11 | 15 | 21 |
| 55 | 9 | 12 | 17 |
| 60 | 9 | 12 | 17 |
| 65 | 7 | 10 | 14 |
| 70 | 6 | 9 | 12 |
| 75 | 4 | 5 | 7 |
| 80 | 3 | 4 | 6 |
| 85 | 0 | 5 | 0 |
| 90 | 0 | 0 | 0 |

o Vertical Angles
* Luminaire Lumens