

FEATURES

OPTICAL SYSTEM

- Self-flanged, matte-diffuse high-impact polymer finishing trim with a durable, proprietary vapor deposition finish.
- Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image and smooth transition from top of the reflector to bottom.
- One piece trim eliminates mitered flange corners and inside corner gaps.
- Upper reflector is painted a highly reflective matte white providing diffuse, even light with high efficiency.
- Proprietary Gotham diffusing lens available.

MECHANICAL SYSTEM

- 16-gauge painted steel mounting/plaster frame accommodates up to 1-1/2" thick ceiling materials.
- Patent pending adjustable aperture allows 1/4" adjustments in all directions and up to 5° of rotation allowing post-installation adjustments to ensure trim to trim alignment.
- 16-gauge galvanized steel mounting bars with continuous 4" vertical adjustments are shipped pre-installed. Post installation adjustment possible without the use of tools from above or below ceiling.
- Secondary housing adjustment system for precise, final ceiling to flange alignment.
- Galvanized steel junction box with hinged access covers and spring latch. Three combination 1/2"-3/4" and two 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90°C.

ELECTRICAL SYSTEM

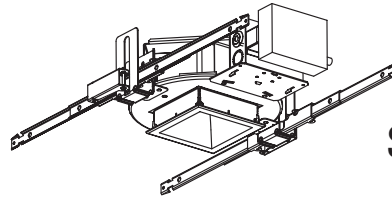
- Medium-base porcelain socket with nickel-plated screw shell.
- Pre-wired, electronic, 120 or 277V ballast module is standard. Module can be attached before or after mounting of mounting/plaster frame.
- Thermally-activated insulation detector.

LISTING

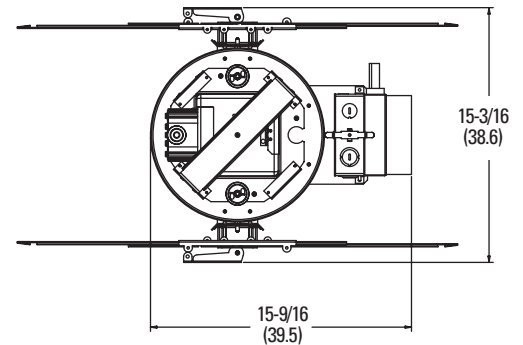
- Fixtures are UL Listed for thru-branch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Type

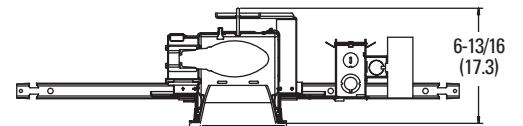
Catalog number



HID Downlights
4" SQHZ
 Square Open Reflector
 ED17 Lamp



Aperture: 4-1/2 (11.4)
 Ceiling Opening: 5-1/8 (13.0)
 Overlap Trim: 5-3/4 (14.6)



All dimensions
 are inches
 (centimeters)

ORDERING INFORMATION

Example: **SQHZ 70M 4AR 120**

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line.

SQHZ

| Series | Wattage/Lamp ¹ | Aperture/Trim color | Finish | Lens type | Voltage | Ballast | Options |
|-------------|--|---|-------------------------|--|--|---|--|
| SQHZ | Metal Halide (ED17) 50M 70M Color-corrected Metal Halide (ED17) 50MHC 70MHC | 4AR Clear 4DSR Stepped | LD Matte-diffuse | (blank) No lens CSL Concentric square lens | 120 277 347² | (blank) Electronic ballast EMB Electro-magnetic ballast | SF Single fuse WLP 3000°K Lamp (shipped separately) LRC³ Provides compatibility with Lithonia Reloc® System. Lithonia Reloc System can be installed less this option with connectors provided by others. Access above ceiling required CP Chicago Plenum |

NOTES

- 1 Recommended for use with coated lamps. Open rated lamps required.
- 2 Available with 70W electro-magnetic ballast only.
- 3 For compatible Reloc systems, refer to Technical Bulletins tab.



GOTHAM ARCHITECTURAL DOWNLIGHTING
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SQHZ 4

DHID-360

4" SQHZ Square Open Reflector

Distribution curve Distribution data Output data Coefficient of utilization Illuminance Data at 30" Above Floor for a Single Luminaire

SQHZ 50M 4AR, (1) MH50/C/U/MED lamp, 0.9 s/mh, 3200 rated lumens, Test No. LTL16149

| From 0° | Ave | Lumens | Zone | Lumens | % Lamp | pf | 20% | | | | 50% beam angle | | 10% beam angle | | | | | |
|---------|-----|--------|------------|--------|--------|----|-----|-----|-----|-----|----------------|-----|----------------|---------------------------|---------------|-----------------|---------------|-----------------|
| | | | | | | | 80% | | 70% | | 49.9° | | 83.9° | | | | | |
| | | | | | | | 50% | 30% | 50% | 30% | 50% | 30% | Mount height | Initial fc at beam center | Beam diameter | fc at beam edge | Beam diameter | fc at beam edge |
| 0 | 914 | | 0° - 30° | 589.4 | 18.4 | pc | | | | | | | | | | | | |
| 5 | 906 | 85 | 0° - 40° | 814.7 | 25.5 | pw | .35 | .34 | .34 | .33 | .33 | .32 | | | | | | |
| 15 | 810 | 226 | 0° - 60° | 993.9 | 31.1 | 2 | .32 | .30 | .31 | .30 | .30 | .29 | 8 | 30.2 | 5.1 | 15.1 | 9.9 | 3.0 |
| 25 | 613 | 278 | 0° - 90° | 1005.7 | 31.4 | 3 | .29 | .28 | .29 | .27 | .28 | .27 | 10 | 16.2 | 7.0 | 8.1 | 13.5 | 1.6 |
| 35 | 360 | 225 | 90° - 180° | 0.0 | 0.0 | 4 | .27 | .25 | .27 | .25 | .26 | .24 | 12 | 10.1 | 8.8 | 5.1 | 17.1 | 1.0 |
| 45 | 170 | 133 | 0° - 180° | 1005.7 | *31.4 | 5 | .25 | .23 | .25 | .23 | .24 | .23 | 14 | 6.9 | 10.7 | 3.5 | 20.7 | 0.7 |
| 55 | 49 | 47 | | | | | | | | | | | | | | | | |
| 65 | 7 | 8 | | | | | | | | | | | | | | | | |
| 75 | 3 | 3 | | | | | | | | | | | | | | | | |
| 85 | 0 | 0 | | | | | | | | | | | | | | | | |
| 90 | 0 | | | | | | | | | | | | | | | | | |

SQHZ 70M 4AR, (1) MHC70/C/U lamp, 1.0 s/mh, 5800 rated lumens, Test No. LTL16144

| From 0° | Ave | Lumens | Zone | Lumens | % Lamp | pf | 20% | | | | 50% beam angle | | 10% beam angle | | | | | |
|---------|------|--------|------------|--------|--------|----|-----|-----|-----|-----|----------------|-----|----------------|---------------------------|---------------|-----------------|---------------|-----------------|
| | | | | | | | 80% | | 70% | | 51.7° | | 84.8° | | | | | |
| | | | | | | | 50% | 30% | 50% | 30% | 50% | 30% | Mount height | Initial fc at beam center | Beam diameter | fc at beam edge | Beam diameter | fc at beam edge |
| 0 | 1698 | | 0° - 30° | 1143.1 | 19.7 | pc | | | | | | | | | | | | |
| 5 | 1694 | 160 | 0° - 40° | 1591.6 | 27.4 | pw | .37 | .36 | .36 | .36 | .35 | .34 | 8 | 56.1 | 5.3 | 28.1 | 10.0 | 5.6 |
| 15 | 1563 | 436 | 0° - 60° | 1939.7 | 33.4 | 2 | .34 | .33 | .34 | .32 | .32 | .31 | 10 | 30.2 | 7.3 | 15.1 | 13.7 | 3.0 |
| 25 | 1207 | 547 | 0° - 90° | 1962.6 | 33.8 | 3 | .32 | .30 | .31 | .29 | .30 | .29 | 12 | 18.8 | 9.2 | 9.4 | 17.3 | 1.9 |
| 35 | 718 | 449 | 90° - 180° | 0.0 | 0.0 | 4 | .29 | .27 | .29 | .27 | .28 | .26 | 14 | 12.8 | 11.2 | 6.4 | 21.0 | 1.3 |
| 45 | 332 | 259 | 0° - 180° | 1962.6 | *33.8 | 5 | .27 | .25 | .27 | .25 | .26 | .24 | 16 | 9.3 | 13.1 | 4.7 | 24.6 | 0.9 |
| 55 | 95 | 90 | | | | | | | | | | | | | | | | |
| 65 | 15 | 16 | | | | | | | | | | | | | | | | |
| 75 | 5 | 5 | | | | | | | | | | | | | | | | |
| 85 | 1 | 1 | | | | | | | | | | | | | | | | |
| 90 | 0 | | | | | | | | | | | | | | | | | |

SQHZ 50M 4DSR, (1) MH50/C/U/MED lamp, 1.2 s/mh, 3200 rated lumens, Test No. LTL16150

| From 0° | Ave | Lumens | Zone | Lumens | % Lamp | pf | 20% | | | | 50% beam angle | | 10% beam angle | | | | | |
|---------|-----|--------|------------|--------|--------|----|-----|-----|-----|-----|----------------|-----|----------------|---------------------------|---------------|-----------------|---------------|-----------------|
| | | | | | | | 80% | | 70% | | 62.0° | | 95.2° | | | | | |
| | | | | | | | 50% | 30% | 50% | 30% | 50% | 30% | Mount height | Initial fc at beam center | Beam diameter | fc at beam edge | Beam diameter | fc at beam edge |
| 0 | 570 | | 0° - 30° | 478.2 | 14.9 | pc | | | | | | | | | | | | |
| 5 | 574 | 55 | 0° - 40° | 711.1 | 22.2 | pw | .35 | .34 | .34 | .33 | .33 | .32 | 8 | 18.8 | 6.6 | 9.4 | 12.0 | 1.9 |
| 15 | 606 | 171 | 0° - 60° | 979.1 | 30.6 | 2 | .31 | .30 | .31 | .29 | .30 | .29 | 10 | 10.1 | 9.0 | 5.1 | 16.4 | 1.0 |
| 25 | 558 | 252 | 0° - 90° | 1023.6 | 32.0 | 3 | .29 | .27 | .28 | .26 | .27 | .26 | 12 | 6.3 | 11.4 | 3.2 | 20.8 | 0.6 |
| 35 | 372 | 233 | 90° - 180° | 0.0 | 0.0 | 4 | .26 | .24 | .26 | .24 | .25 | .23 | 14 | 4.3 | 13.8 | 2.2 | 25.2 | 0.4 |
| 45 | 215 | 167 | 0° - 180° | 1023.6 | *32.0 | 5 | .24 | .21 | .23 | .21 | .23 | .21 | 16 | 3.1 | 16.2 | 1.6 | 29.6 | 0.3 |
| 55 | 113 | 101 | | | | | | | | | | | | | | | | |
| 65 | 32 | 35 | | | | | | | | | | | | | | | | |
| 75 | 7 | 8 | | | | | | | | | | | | | | | | |
| 85 | 1 | 2 | | | | | | | | | | | | | | | | |
| 90 | 0 | | | | | | | | | | | | | | | | | |

SQHZ 70M 4DSR, (1) MHC70/C/U lamp, 1.2 s/mh, 5800 rated lumens, Test No. LTL16143

| From 0° | Ave | Lumens | Zone | Lumens | % Lamp | pf | 20% | | | | 50% beam angle | | 10% beam angle | | | | | |
|---------|------|--------|------------|--------|--------|----|-----|-----|-----|-----|----------------|-----|----------------|---------------------------|---------------|-----------------|---------------|-----------------|
| | | | | | | | 80% | | 70% | | 62.4° | | 95.4° | | | | | |
| | | | | | | | 50% | 30% | 50% | 30% | 50% | 30% | Mount height | Initial fc at beam center | Beam diameter | fc at beam edge | Beam diameter | fc at beam edge |
| 0 | 1101 | | 0° - 30° | 916.1 | 15.8 | pc | | | | | | | | | | | | |
| 5 | 1109 | 107 | 0° - 40° | 1378.8 | 23.8 | pw | .37 | .36 | .36 | .36 | .35 | .34 | 8 | 36.4 | 6.7 | 18.2 | 12.1 | 3.6 |
| 15 | 1161 | 326 | 0° - 60° | 1903.3 | 32.8 | 2 | .34 | .32 | .33 | .32 | .32 | .31 | 10 | 19.6 | 9.1 | 9.8 | 16.5 | 2.0 |
| 25 | 1063 | 483 | 0° - 90° | 1989.4 | 34.3 | 3 | .31 | .28 | .30 | .28 | .29 | .27 | 12 | 12.2 | 11.5 | 6.1 | 20.9 | 1.2 |
| 35 | 743 | 463 | 90° - 180° | 0.0 | 0.0 | 4 | .28 | .25 | .27 | .25 | .27 | .25 | 14 | 8.3 | 13.9 | 4.2 | 25.3 | 0.8 |
| 45 | 424 | 331 | 0° - 180° | 1989.4 | *34.3 | 5 | .25 | .23 | .25 | .23 | .24 | .22 | 16 | 6.0 | 16.4 | 3.0 | 29.7 | 0.6 |
| 55 | 218 | 194 | | | | | | | | | | | | | | | | |
| 65 | 63 | 67 | | | | | | | | | | | | | | | | |
| 75 | 14 | 16 | | | | | | | | | | | | | | | | |
| 85 | 3 | 3 | | | | | | | | | | | | | | | | |
| 90 | 0 | | | | | | | | | | | | | | | | | |

NOTES:
 1. For electrical characteristics consult Technical Bulletins tab.
 2. Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change without notice.