

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

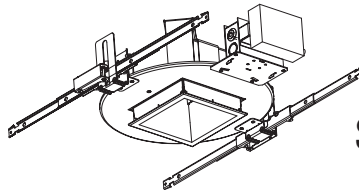
- Fixtures are UL Listed for thru-branch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Type

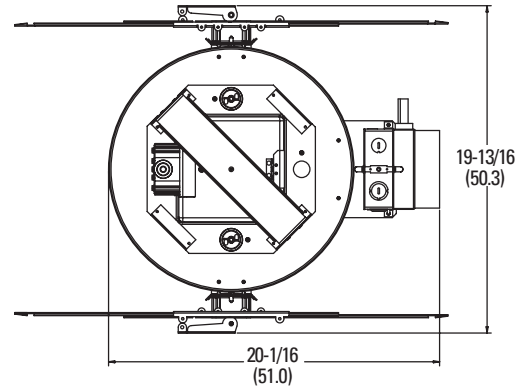
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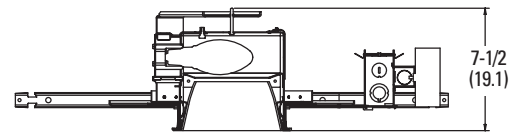
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HID Downlights
6" SQHZ
 Square Open Reflector
 ED17 Lamp



Aperture: 6 (15.2)
 Ceiling Opening: 6-5/8 (16.8)
 Overlap Trim: 7-3/16 (18.3)



All dimensions are inches (centimeters)

ORDERING INFORMATION

Example: **SQHZ 50M 6AR 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 100M Color-corrected Metal Halide (ED17) 50MHC 70MHC 100MHC	6AR Clear 6DSR 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 & 100W electro-magnetic ballast only.
- 3 For compatible Reloc systems, refer to Technical Bulletins tab.



GOTHAM ARCHITECTURAL DOWNLIGHTING
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SQHZ 6

DHID-367

6" SQHZ Square Open Reflector

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

SQHZ 70M 6AR LD, (1) 70W MHC70/C/U lamp, 1.1 s/mh, 5800 rated lumens, Test No. LTL16107

Distribution curve	Distribution data			Output data			Coefficient of utilization						Illuminance Data at 30" Above Floor for a Single Luminaire					
	From 0°	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%		20%		50% beam angle		10% beam angle				
								50%	30%	50%	30%	50%	30%	50%	30%			
	0	2130		0° - 30°	1574.1	27.1	pc											
	5	2147	206	0° - 40°	2229.7	38.4	pw	50%	30%	50%	30%	50%	30%	Initial fc	fc at	fc at		
	15	2121	592	0° - 60°	2671.1	46.1	1	.51	.50	.50	.49	.48	.47	Mount at beam	Beam	Beam		
	25	1709	777	0° - 90°	2687.4	46.3	2	.47	.45	.46	.44	.45	.43	height	center	diameter		
	35	1054	656	90° - 180°	0.0	0.0	3	.43	.41	.43	.40	.41	.39	8	70.4	5.8		
	45	444	348	0° - 180°	2687.4	*46.3	4	.40	.37	.39	.37	.38	.36	10	37.9	7.9		
	55	95	93				5	.37	.34	.37	.34	.36	.33	12	23.6	10.0		
	65	10	12				6	.34	.31	.34	.31	.33	.31	14	16.1	12.1		
	75	3	3				7	.32	.29	.32	.29	.31	.28	16	11.7	14.2		
	85	1	1				8	.30	.27	.30	.27	.29	.26					
	90	0					9	.28	.25	.28	.25	.27	.25					
						10	.26	.23	.26	.23	.26	.23						

SQHZ 100M 6AR LD, (1) 100W MHC100/C/U lamp, 1.1 s/mh, 8800 rated lumens, Test No. LTL16113

Distribution curve	Distribution data			Output data			Coefficient of utilization						Illuminance Data at 30" Above Floor for a Single Luminaire					
	From 0°	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%		20%		50% beam angle		10% beam angle				
								50%	30%	50%	30%	50%	30%	50%	30%			
	0	3427		0° - 30°	2541.0	28.9	pc											
	5	3461	332	0° - 40°	3590.4	40.8	pw	50%	30%	50%	30%	50%	30%	Initial fc	fc at	fc at		
	15	3422	955	0° - 60°	4287.1	48.7	1	.54	.53	.53	.52	.51	.50	Mount at beam	Beam	Beam		
	25	2761	1254	0° - 90°	4312.6	49.0	2	.50	.48	.49	.47	.47	.46	height	center	diameter		
	35	1687	1049	90° - 180°	0.0	0.0	3	.46	.43	.45	.43	.44	.42	8	113.3	5.8		
	45	699	550	0° - 180°	4312.6	*49.0	4	.42	.39	.42	.39	.41	.38	10	60.9	7.9		
	55	149	147				5	.39	.36	.39	.36	.38	.35	12	38.0	10.0		
	65	15	18				6	.36	.33	.36	.33	.35	.33	14	25.9	12.1		
	75	5	6				7	.34	.31	.34	.31	.33	.30	16	18.8	14.2		
	85	1	2				8	.32	.28	.31	.28	.31	.28					
	90	0					9	.30	.26	.29	.26	.29	.26					
						10	.28	.25	.28	.25	.27	.24						

SQHZ 70M 6DSR LD, (1) 70W MHC70/C/U lamp, 1.3 s/mh, 5800 rated lumens, Test No. LTL16109

Distribution curve	Distribution data			Output data			Coefficient of utilization						Illuminance Data at 30" Above Floor for a Single Luminaire					
	From 0°	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%		20%		50% beam angle		10% beam angle				
								50%	30%	50%	30%	50%	30%	50%	30%			
	0	1392		0° - 30°	1203.9	20.8	pc											
	5	1402	135	0° - 40°	1901.7	32.8	pw	50%	30%	50%	30%	50%	30%	Initial fc	fc at	fc at		
	15	1479	417	0° - 60°	2711.1	46.7	1	.53	.51	.52	.50	.50	.49	Mount at beam	Beam	Beam		
	25	1425	651	0° - 90°	2819.3	48.6	2	.48	.45	.47	.45	.45	.43	height	center	diameter		
	35	1127	698	90° - 180°	0.0	0.0	3	.43	.40	.42	.40	.41	.39	8	46.0	7.2		
	45	677	524	0° - 180°	2819.3	*48.6	4	.39	.36	.39	.35	.37	.35	10	24.7	9.9		
	55	317	285				5	.36	.32	.35	.32	.34	.31	12	15.4	12.5		
	65	80	87				6	.33	.29	.32	.29	.31	.28	14	10.5	15.1		
	75	15	18				7	.30	.26	.30	.26	.29	.26	16	7.6	17.8		
	85	3	4				8	.28	.24	.27	.24	.27	.24					
	90	0					9	.26	.22	.25	.22	.25	.22					
						10	.24	.20	.23	.20	.23	.20						

SQHZ 100M 6DSR LD, (1) 100W MHC100/C/U lamp, 1.3 s/mh, 8800 rated lumens, Test No. LTL16114

Distribution curve	Distribution data			Output data			Coefficient of utilization						Illuminance Data at 30" Above Floor for a Single Luminaire					
	From 0°	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%		20%		50% beam angle		10% beam angle				
								50%	30%	50%	30%	50%	30%	50%	30%			
	0	2202		0° - 30°	1920.6	21.8	pc											
	5	2225	214	0° - 40°	3042.2	34.6	pw	50%	30%	50%	30%	50%	30%	Initial fc	fc at	fc at		
	15	2344	662	0° - 60°	4335.0	49.3	1	.56	.54	.54	.53	.52	.51	Mount at beam	Beam	Beam		
	25	2285	1044	0° - 90°	4506.8	51.2	2	.50	.48	.49	.47	.48	.46	height	center	diameter		
	35	1811	1122	90° - 180°	0.0	0.0	3	.45	.42	.45	.42	.43	.41	8	72.8	7.3		
	45	1085	841	0° - 180°	4506.8	*51.2	4	.41	.38	.41	.37	.39	.37	10	39.1	10.0		
	55	502	452				5	.38	.34	.37	.34	.36	.33	12	24.4	12.6		
	65	126	137				6	.34	.31	.34	.30	.33	.30	14	16.7	15.3		
	75	25	29				7	.32	.28	.31	.28	.30	.27	16	12.1	17.9		
	85	5	6				8	.29	.25	.29	.25	.28	.25					
	90	0					9	.27	.23	.27	.23	.26	.23					
						10	.25	.21	.25	.21	.24	.21						

NOTES:

- For electrical characteristics consult Technical Bulletins tab.
- 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.