

**DESCRIPTION**

A 7-3/8" aperture recessed downlight for slope-ceiling applications uses 150/250 or 400/500 Watt frosted T4 Quartz Halogen lamps provides high efficiency and low aperture brightness. Available in 17740-Narrow, 17750-Medium, or 17760-Wide beam distribution. Performance is free from hot spots, filament images, or striations. Housing is top accessible.

Ideal for applications with high ceilings requiring high levels of illumination with long throws and good optical control.

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

**SPECIFICATION FEATURES**

**A ... Housing**

Full housing protects optics and adjustment mechanism. Removable cover provides top access. Painted optical matte black to minimize stray light. Die cast 1-1/2" deep aluminum collar accommodates extra thick ceiling construction. Housing is top accessible.

**B ... Optical Assembly**

Optical assembly consists of an ellipsoidal primary reflector and parabolic shielding cone. Available in narrow, medium, and wide distribution and sold as an assembly to insure optimum optical performance.

**C ... Upper Reflector**

Spun 0.060" thick high purity aluminum reflector with specular clear Alzak® finish. Reflector is mounted to stamped steel frame allowing rapid field installation. Alignment tabs and collar provides correct focus for all three distributions eliminating installation errors.

**D ... Lower Cone**

Spun 0.060" thick high purity aluminum cone is available in all standard and special cone colors. Lower cone assembly attaches with torsion springs eliminating gaps with the ceiling surface. Angle cut cone is keyed to prevent improper orientation to the lamp. Available with self flanged or molded trim ring.

**E ... Containment Barrier**

Glass lamp shield securely attaches to lower cone assembly allowing easy removal and bottom lamp access.

**F ... Socket Housing**

Socket assembly houses mini-can (E11) socket. Lamp and socket are field replaceable from above or below. Integral die cast aluminum heat sink conducts heat away from lamp base and socket at all aiming angles greatly extending life. Securely attaches to upper reflector mounting bracket providing proper lamp position for all distributions.

**G ... Aiming Mechanism**

Provides 365° rotation and 30° tilt, adjusts smoothly and locks into any aiming position. Translating center beam optics maintains efficiency at all aiming angles.

**H ... Junction Box**

Listed for eight #12 AWG (four in, four out) conductors feed through 90° C branch wiring. Pry-outs for four 1/2" and two 3/4" inch conduits. Junction box can be accessed through aperture by removing cover.

**I ... Insulation Detector**

Self-resetting insulation detector opens circuit if insulation is improperly installed.

**Labels**

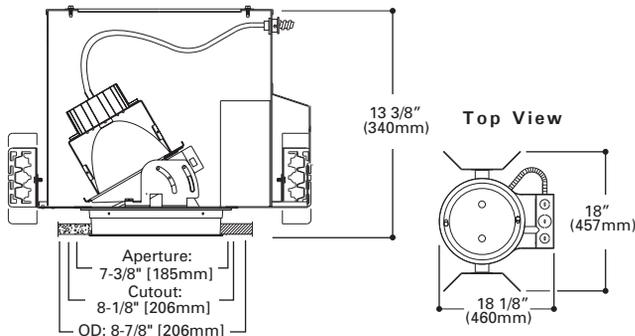
Meets UL1598, cULus listed / certified for damp location. Insulation must be kept 3" from fixture.



**HA7250QT4  
HA7500QT4  
17741/17740  
Narrow Beam**

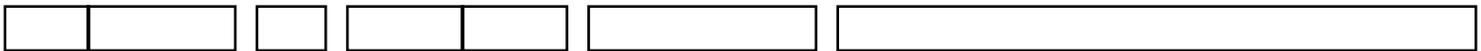
**250W or 500W Quartz  
T4 Lamp**

**7-3/8" APERTURE  
ADJUSTABLE RECESSED  
Top Accessible**



**ORDERING INFORMATION**

Sample Number: Complete unit consists of housing, ballast and trim.



**Housing**  
**HA7:** 7" T4 Quartz Slop/Directional

**Wattage**  
**250QT4:** 150/250W T4 QZ  
**500QT4:** 400/500W T4 QZ

**Options**  
**CP:** Chicago Plenum  
**DR150:** DeRated Wattage Label, 150W Max  
**DR400:** DeRated Wattage Label, 400W Max

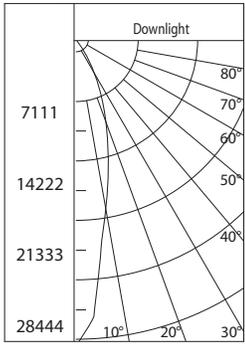
**Trims**  
**17741:** NB Self Flanged Reflector  
**17740:** NB Reflector

**Finish**  
**LI:** Low Iridescent Clear  
**H:** Haze  
**WMH:** Warm Haze  
**G:** Gold  
**WH:** Wheat  
**B:** Specular Black  
**W:** Gloss White  
**GP:** Graphite  
**GPH:** Graphite Haze  
**K:** Cognac  
**KH:** Cognac Haze

**Option**  
**WF:** White Painted Flanged (Self Flanged only)

**Accessories**  
**H277:** Step Down Transformer, 300VA Max  
**HB26:** C Channel Bar Hangers, 26" Long, Pair  
**HB50:** C Channel Bar Hangers, 50" Long, Pair  
**TRM7:** Metal Trim Ring, Specify Finish  
**TRR7:** Rimless Trim Ring, White  
**FK5:** 5 Amp Field Installable Fuse Kit 300V Max  
**RMB-22:** Wood Joist Bar Hanger, 22" Long, Pair

Candlepower Distribution Curve



Spacing Criteria = 0.40  
Efficiency = 68.6%

Test No. H22575  
HA7500QT4 17740LI  
Lamp = 500W QTZ T4  
25° Slope

500W  
QTZ T4

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
20'0"	71	7'6"
25'0"	46	9'0"
30'0"	32	11'0"
40'0"	23	13'0"
50'0"	18	15'0"

Coefficients of Utilization

Ceiling Wall % RCR	80%				70%				50%	
	70	50	30	10	50	30	10	50	10	
Zonal cavity method -- floor reflectance = 20%										
0	82	82	82	82	80	80	80	76	76	
1	79	77	76	74	76	74	73	73	71	
2	76	73	71	69	72	70	68	70	67	
3	73	70	67	65	69	66	64	67	63	
4	71	67	64	61	66	63	61	64	60	
5	68	64	61	58	63	60	58	62	58	
6	66	61	58	56	61	58	56	60	55	
7	64	59	56	54	58	55	53	58	53	
8	62	57	54	51	56	53	51	56	51	
9	60	55	52	50	54	51	49	54	49	
10	58	53	50	48	53	50	48	52	48	