

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.

Catalog #	Type
Project	
Comments	Date
Prepared by	

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

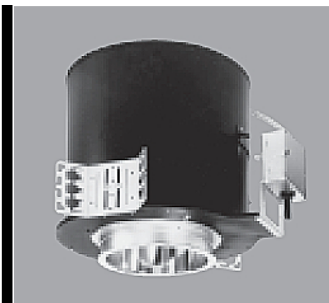
Listed for eight #12 AWG (four in, four out) conductors feed through 90° C branch wiring. Pry-outs for four 1/2" and two 3/4" inch conduits. Junction box can be accessed through aperture by removing cover.

I ... Insulation Detector

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

Labels

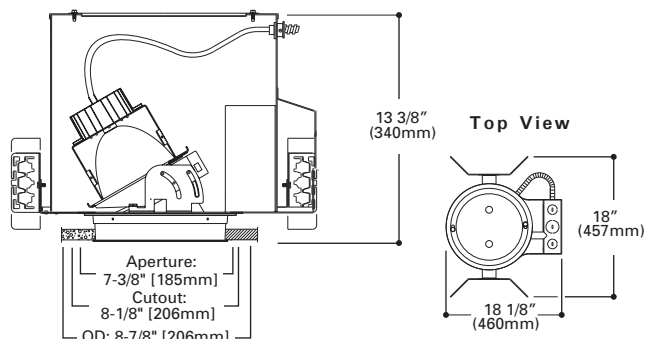
Meets UL1598, cULus listed / certified for damp location. Insulation must be kept 3" from fixture.



HA7250QT4
HA7500QT4
17741/17740
Narrow Beam

250W or 500W Quartz
T4 Lamp

7-3/8" APERTURE
ADJUSTABLE RECESSED
Top Accessible

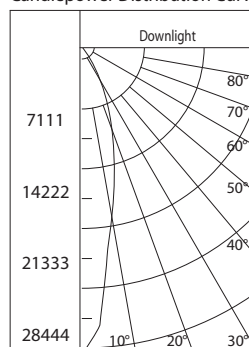


ORDERING INFORMATION

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

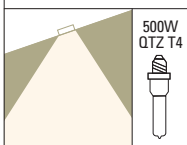
Housing	Options	Trims	Finish	Option	Accessories
HA7: 7" T4 Quartz Slope/Directional	CP: Chicago Plenum DR150: DeRated Wattage Label, 150W Max DR400: DeRated Wattage Label, 400W Max	17741: NB Self Flanged Reflector 17740: NB Reflector	LI: Low Iridescent Clear H: Haze WMH: Warm Haze G: Gold WH: Wheat B: Specular Black W: Gloss White GP: Graphite GPH: Graphite Haze K: Cognac KH: Cognac Haze	WF: White Painted Flanged (Self Flanged only)	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
Wattage 250QT4: 150/250W T4 QZ 500QT4: 400/500W T4 QZ					

Candlepower Distribution Curve



Spacing Criteria = 0.40
Efficiency = 68.6%

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



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