

DESCRIPTION

A 9" diameter open downlight utilizing the QL induction lamp. This lamp is rated for 100,000 hours of life, has color rendering equal to compact fluorescent, and no color shift throughout its life. Lamp color is 3000K. The scale of the luminaire is well suited to large architectural spaces with taller ceiling heights that would normally pose maintenance concerns.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

A ... Reflector

Spun 0.040" aluminum. Available in a variety of Alzak® finishes. Springs pull trim tight to ceiling. Reflector provides 55° cutoff optics to lamp and lamp image.

B ... Trim Ring

Self flanged or molded white trim ring.

C ... Housing

One piece die-cast 1-1/2" deep collar. Housing is painted optical matte black to eliminate stray light.

D ... Mounting Bars

Pre-installed telescoping mounting bars are suitable for T-bar ceilings or wood joists, 24" O.C.

E ... Conduit Fittings

Die-cast screw-tight connectors.

F ... Junction Box

U.L. listed for eight #12 (four in, four out) at 90°C pull through branch wiring. Five 1/2" and two 3/4" knockouts provided. Access to junction box through panel on side of housing.

G ... Electronic System

All items for operation of the induction lamp-generator and antenna can be serviced through the aperture.

H ... Lamp

QL induction lamp is shipped from factory with each fixture.

Labels

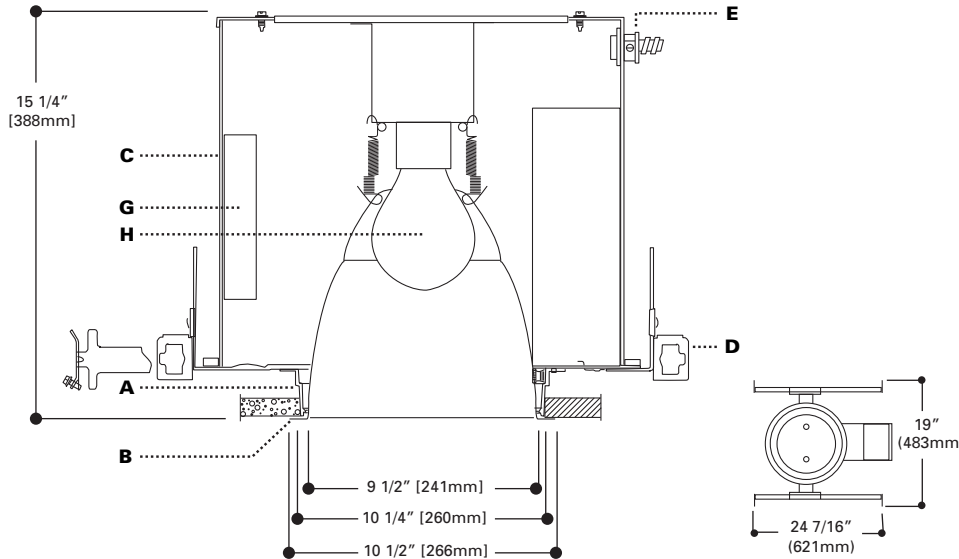
cULus listed, C.S.A. certified, standard damp label, IBEW union made.



QD9
9951/9950

85W QL
Induction lamp

9-1/2" OPEN DOWNLIGHT



ENERGY DATA

Lamp: 120V 85W QL
Input Watts: 87
Operating Current: 0.75:

Lamp: 277V 85W QL
Input Watts: 88
Operating Current: 0.40:

Power Factor 0.9
Sound Rating: A
Min. Starting Temp.: -20°C/-4°F

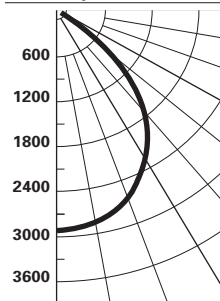
NOTES:

Alzak is a registered trademark of Aluminum Company of America.

ORDERING INFORMATION: Complete unit consists of housing, ballast and trim.

Housing	Lamp	Ballast	Trims	Finish	Options	Accessories
QD9						
QD9=(1) 85W Vertical Induction Lamp	8530=(1) 85W QL Lamp, 3000K (included with fixture) 8540=(1) 85W QL Lamp, 4000K (included with fixture)	1E=120V Electronic Ballast 2E=277V Electronic Ballast	9950=Molded Trim Ring, White 9951=Self-Flanged	LI=Low Iridescent Clear H=Haze G=Gold WH=Wheat WMH=Warm Haze 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 FK5=5 Amp Field Installable Fuse Kit, 300VA Max

Candlepower Distribution



Test No. H44001
QD9 8530-1E-9950
 Lamp=QL 85W
 Lumens=6000
 Spacing
 Criterion=1.1
 Efficiency=59.8%

Candlepower

Deg.	CD
0	2861
5	2830
15	2674
25	2317
35	1576
45	573
55	22
65	5
75	2
85	0
90	0

Average Luminance

Deg.	CD/SQ M
45	17714
55	838
65	259
75	169
85	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
6'6"	79	7'0"
8'0"	52	9'0"
10'0"	33	11'0"
12'0"	23	13'0"
14'0"	17	15'6"
16'0"	13	18'0"

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.

Footcandle values are initial, apply appropriate light loss factors where necessary.

Finish Multiplier:

Haze=0.95
 Straw=0.90
 Wheat=0.90

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	2085	34.8	58.1
0-40	3063	51.0	85.3
0-60	3582	59.7	99.8
0-90	3589	59.8	100.00
90-180	0	0.0	0.0
0-180	3589	59.8	100.00

Coefficient of Utilization

rc	80%				70%				50%		30%		10%		0%	
	70	50	30	10	50	30	10	50	10	50	10	50	10	50	10	0
RCR																
0	71	71	71	71	70	70	70	66	66	64	64	61	61	60		
1	68	66	65	64	65	64	63	63	61	61	59	59	57	56		
2	65	62	60	58	61	59	58	59	56	58	55	56	54	53		
3	62	58	56	53	58	55	53	56	52	55	51	53	51	50		
4	59	55	52	49	54	51	49	53	48	52	48	51	47	46		
5	56	51	48	45	51	48	45	50	45	49	44	48	44	43		
6	53	48	45	42	48	44	42	47	42	46	42	45	41	40		
7	50	45	41	39	44	41	39	44	39	43	38	42	38	37		
8	48	42	38	36	42	38	36	41	36	40	35	40	35	35		
9	45	39	35	33	39	35	33	38	33	38	33	37	33	32		
10	42	36	33	30	36	33	30	36	30	35	30	35	30	29		

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio
 CU Data Based on 20% Effective Floor Cavity Reflectance.