

P656

Wall Washer
Two 26W Quad Tube Lamps
8 3/8" Conoid Apertures

Optics and Applications

This open aperture wall washer matches the diameters of CB cross baffled downlights. Distribution patterns have wide lateral spread with uniform readings across the illuminated area.

Design Features

A steel housing provides a platform for the optical system and assures alignment of reflectors and lamps. Full 360° kicker reflectors are secured to the shielding cone to prevent pattern variation. Air flow design provides cool fixture temperature for optimal lamp performance. Maximum ceiling thickness 2". Ballast and lamp service from below.

Finish

A specular clear Alzak cone is standard. Optional colors and Softglow® finishes are available. The housing and all structural parts are phosphated for corrosion resistance before being painted optical matte black for control of stray light leaks.

Ballast

Fully electronic, microprocessor controlled with variable starting current for inrush protection to assure rated lamp life. Input voltage range from 120V through 277V. Power factor .98, starting temperature 0°F (-18°C), THD < 10%. Pre-heat start < 1.0 second. End of lamp life protection. Rated for > 50,000 starts.

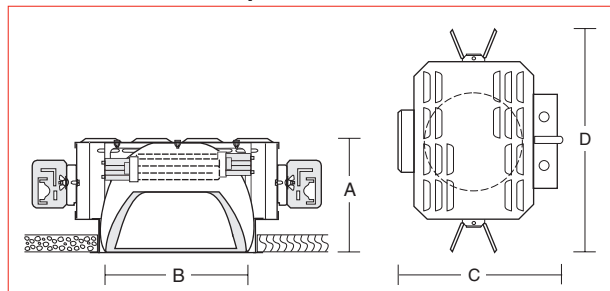
General

Fixtures are pre-wired, UL and C-UL listed for eight wire 75°C branch circuit wiring. Union made IBEW. Luminaire Efficiency Ratings (LER) do not apply to wall washers.

Accessories

- G Gold cone. R2 26" support rails.
- H Mocha cone. R5 52" support rails.
- P Graphite cone. WT White trim flange.
- T Titanium cone. WHT White complete trim.
- W Wheat cone. DCE Double circuiting.
- Y Pewter cone. V347 347 volt ballast.
- Z Bronze cone. F Fuse.
- S Softglow® finishes: add S before color letters. e.g. SW for Softglow® wheat cone, SC for Softglow® clear cone.
- EM Emergency power includes integral charger light and test switch visible through aperture. Single lamp operation for 90 minutes. Specify volts.
- DM Dimming ballast. Specify watts and volts.
- L Limited wall wash.
- D Double wall wash.

Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length*	Lamps
P656	7" 178mm	8 3/8" 213mm	13 1/2" 343mm	19" 483mm	Two 26W Quad Tube

For 18W lamps, add W18 to catalog number.
 *Length increases to 24" with EM accessory.

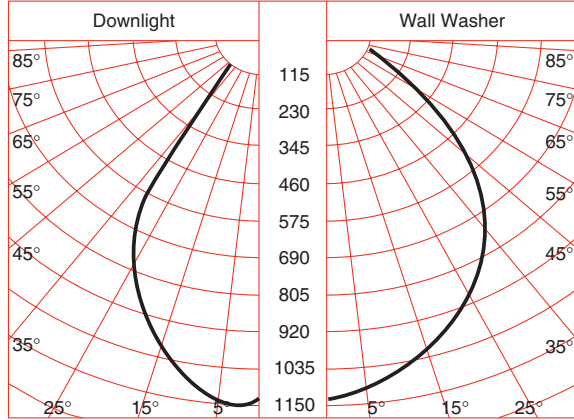
Matching Units

- Downlights [Pages P5, P6](#)
- Cross baffled downlights [Page P22](#)
- Surface cylinders [Pages P42, P43](#)

** Click for link to pages in blue.

P33 P656

Candlepower Distribution Curves



P656 Two 26W Quad Tube lamps

Multiple Units Footcandles

From Ceiling	2' from wall		3' from wall		4' from wall							
	2' Centers		3' Centers		4' Centers		6' Centers					
	CL	Mid	CL	Mid	CL	Mid	CL	Mid				
1'	40	35	34	21	10	9	9	6	4	3	3	2
2'	69	67	52	42	25	23	21	15	10	9	8	5
3'	60	60	42	40	31	31	25	21	16	14	13	8
4'	45	45	30	30	30	30	23	22	18	17	13	10
5'	34	34	22	23	25	25	19	19	17	17	12	11
6'	25	25	17	17	21	21	16	16	16	16	11	10
7'	20	20	13	13	17	17	13	13	14	14	9	9
8'	15	15	10	10	14	14	10	10	12	12	8	8
9'	12	12	8	8	11	11	9	9	10	10	7	7
10'	10	10	7	7	9	9	7	7	9	8	6	6

P656 Two 26W Quad Tube lamps

Notes

- 1 Data by IES methods. Compact fluorescent data vary due to lamp lumen differences, power input, burning position, ambient temperature and ballast characteristics. A modification factor should be applied.
- 2 Above data measures output of the wall washers only. No contribution from adjacent downlights or ceiling, floor or wall reflectances is included. Total illumination on the wall will increase with the contribution from other sources.
- 3 Data is cosine corrected to the plane of the wall. Uncorrected data would be substantially higher and depend upon the angle of incidence to the wall which varies with the mounting distance from the wall.
- 4 Kurt Versen wall washers are designed to minimize hard shadow lines at the ceiling. Light intensity increases gradually to the maximum area, just above eye level. The field is uniform, devoid of hot spots, striations and spikes.
- 5 If colored cones are required, only the downlight cone will be tinted. The kicker reflector is always clear Alzak for maximum output and true color rendition.
- 6 Specular cone multipliers for downlight and brightness data only: Gold x .90, Wheat x .87, Pewter x .81, Mocha x .81, Graphite x .78, Titanium x .78, Bronze x .70.
- 7 Softglow® cone multipliers for downlight and brightness data only: Clear x .98, Gold x .88, Wheat x .82, Pewter x .80, Mocha x .79, Graphite x .77, Titanium x .77, Bronze x .66.
- 8 Control of aperture brightness is just as important as the amount of light on the wall. An illuminated wall expands space, features an architectural element or highlights objects mounted on the wall. If the aperture is too bright or reflects glare, the eye is attracted to it and the effectiveness of the lighted wall is diminished.
- 9 Brightness data from the Average Luminance Method are inaccurate for downlights. They are theoretical calculations for large surfaces such as troffer lenses. We recommend the stricter standard of Maximum Brightness Method point data from direct photometer readings. They approximate what the human eye perceives when evaluating glare. For more information refer to Z section brochure Z1.
- 10 For 18W lamps, multiply all data by .70 or contact the factory for precise data.

Brightness

Number	Lamps	85°	75°	65°	55°	45°
P656	Two 26W Quad Tube	3	8	1283	3939	15407

Data in footlamberts. Photometer readings, Maximum Brightness Method. See note 9.

