

P622

Two 13W Quad Tube Lamps
5 7/8" Conoid Aperture

Optics and Applications

An ellipsoidal primary reflector and a parabolic shielding cone produce a classic medium-wide distribution pattern. Two lamps deliver excellent performance from a small diameter cone. Shallow recess depth for limited plenums. Use in corridors, entries, and transient spaces in low to medium ceiling heights.

Design Features

Construction allows easy access to all components. A steel housing protects the reflectors and assures their proper relationship for maximum performance. The two reflector system is superior to lower cost single reflector designs. Maximum ceiling thickness 3/4". 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.



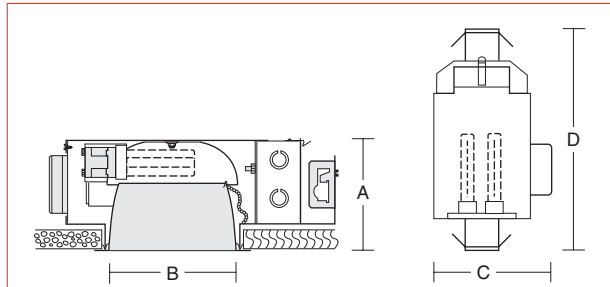
Ballast

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 Rating (LER) data is in the photometric directory located in Section Z.

Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length	Lamps
P622	5" 127mm	5 7/8" 149mm	8" 203mm	17" 432mm	Two 13W Gx23 base Quad Tube

Accessories

- G Gold cone.
- H Mocha cone.
- P Graphite cone.
- T Titanium cone.
- W Wheat cone.
- Y Pewter cone.
- Z Bronze cone.
- S Softglow® finishes: add S before color letters. e.g. SW for Softglow® wheat cone, SC for Softglow® clear cone.
- DM Dimming ballast. Specify watts and volts.
- R2 26" support rails.
- R5 52" support rails.
- WT White trim flange.
- WHT White complete trim.
- DCE Double circuiting.
- V347 347 volt ballast.
- F Fuse.

Matching Units

Narrow beam downlight [Page P2](#)

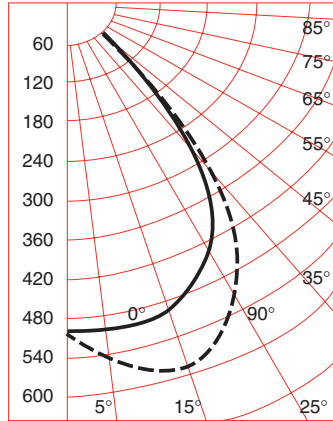
** Click for link to pages in blue.

Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane						Ceiling to Floor		Multiple Units Initial Footcandles, 30" Work Plane				
P622 Two 13W Quad Tube lamps								Ceiling 80% Walls 50% Floor 20%				
Nadir	15°		25°		35°		Spacing is Maximum Over Work Plane					
FC	FC	Diam	FC	Diam	FC	Diam	Spacing	RCR 1	RCR 3	RCR 8		
16	16	3'	12	5'	6	8'	8'	7'	18	16	11	
12	11	3'	8	6'	4	9'	9'	8'	13	11	8	
9	9	4'	6	7'	3	11'	10'	9'	10	8	6	
7	7	5'	5	8'	2	12'	11'	10'	8	7	5	
6	5	5'	4	9'	2	13'	12'	11'	6	5	4	

See notes 4, 5 and 6.

Candlepower Distribution



P622 Two 13W Quad Tube lamps
Eff. 41% S/M 0° 1.2 S/M 90° 1.2

Candelas

	0°	90°
o	1720*	1720*
0	499	499
5	500	543
10	500	579
15	488	592
20	459	553
25	449	503
30	389	431
35	283	333
40	162	191
45	108	118
50	37	40
55	14	25
60	4	6
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

o Vertical Angles
* Initial Lamp Lumens

Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	0
Wall %	Zonal Cavity Method - Floor Reflectance 20%										
RCR	Zonal Cavity Method - Floor Reflectance 20%										
1	.47	.46	.45	.44	.45	.43	.43	.42	.42	.40	.38
2	.44	.42	.40	.39	.41	.38	.40	.38	.39	.37	.35
3	.42	.39	.37	.35	.38	.35	.37	.34	.36	.33	.32
4	.39	.36	.33	.31	.35	.31	.35	.31	.34	.31	.29
5	.37	.33	.31	.29	.33	.28	.32	.28	.31	.28	.27
6	.35	.31	.28	.26	.30	.26	.30	.26	.29	.26	.25
7	.33	.29	.26	.24	.28	.24	.28	.24	.27	.24	.23
8	.31	.27	.24	.22	.26	.22	.26	.22	.25	.22	.21
9	.29	.25	.22	.20	.25	.20	.24	.20	.24	.20	.19
10	.28	.23	.21	.19	.23	.19	.23	.19	.22	.19	.18

P622 Two 13W Quad Tube lamps

Brightness

Number	Lamps	Plane	85°	75°	65°	55°	45°
P622	Two 13W Quad Tube	0°	4	28	59	7906	9820
		90°	5	25	63	5496	9197

Data in footlamberts. Photometer readings, Maximum Brightness Method. See note 7.

Notes

- Data on all charts calculated with a clear specular cone finish.
- Specular cone multipliers: Gold x .90, Wheat x .85, Pewter x .80, Mocha x .79, Graphite x .75, Titanium x .75, Bronze x .69.
- Softglow® cone multipliers: Clear x .98, Gold x .85, Wheat x .80, Pewter x .69, Mocha x .68, Graphite x .66, Titanium x .66, Bronze x .63.
- Single unit Datachart pattern diameters are determined by the number of degrees from each side of nadir. Therefore a 15° diameter represents a total 30° pattern width at the work plane 30" above the floor. Footcandle values are at the edge of that diameter.
- Datachart spacing is rounded off to the nearest foot.
- Data by IES methods. Compact fluorescent data vary due to lamp lumen differences, power input, burning position, ambient temperature and ballast characteristics. Apply a modification factor.
- 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.

Corridor Footcandles

P622 Two 13W Quad Tube lamps												
Ceiling Height	Reflectances: Ceiling 80% Walls 50% Floor 20%											
	8' Centers						12' Centers					
	C/L	2'	4'	6'	C/L	C/L	2'	4'	6'	8'	10'	C/L
8'	12	13	13	12	12	10	10	8	6	8	10	10
9'	10	12	12	10	10	8	9	7	7	7	9	8
10'	9	11	11	9	9	7	7	7	7	7	7	7

Initial footcandles. Readings on the floor. 5' corridor width.