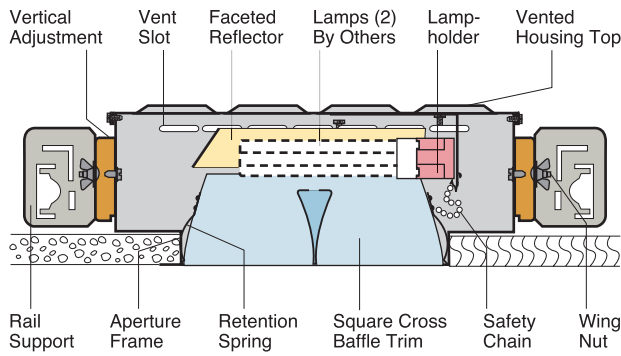


P683CB



Medium Beam
Two 26W Quad Tube Lamps
8³/₈" Cross Baffled Square Aperture

Optics and Applications

The two reflector system features a formed and faceted primary reflector and multi-curved parabolic cross blades in the shielding assembly. Brightness is controlled and minimized. Use in corridors, transit areas, foyers, restrooms, and for general lighting in open spaces.

Design Features

A rigid steel housing protects the reflectors and positions them in proper relationship to each other. Kurt Versen's air flow design vents heat through the side walls and housing top to assure cool fixture temperature for optimal lamp performance. Maximum ceiling thickness 7/8". Service from above or below.

Finish

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

Ballast

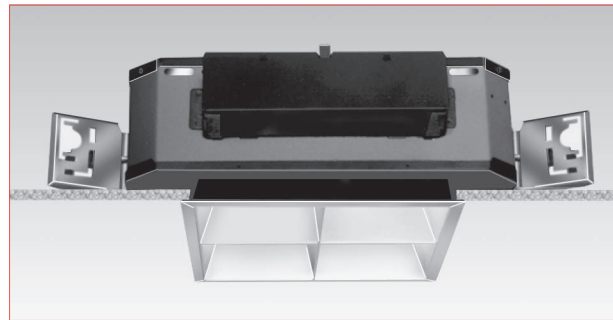
Fully electronic, microprocessor controlled with variable starting current for inrush protection to assure rated lamp life. Input voltage range from 120V through 277V. Power factor .98, starting temperature 0°F (-18°C), THD < 10%. Pre-heat start < 1.0 second. End of lamp life protection. Rated for >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

General

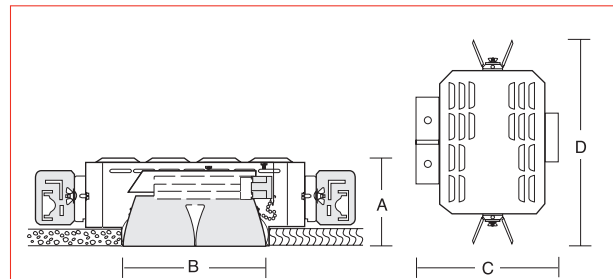
Fixtures are pre-wired, UL and C-UL listed for eight wire 75°C branch circuit wiring. Union made IBEW. Luminaire Efficiency Rating (LER) data is in the photometric directory located in Section Z.

Accessories

- SG Gold cone.
- SH Mocha cone.
- SP Graphite cone.
- ST Titanium cone.
- SW Wheat cone.
- SY Pewter cone.
- SZ Bronze cone.
- DM Dimming ballast. Specify watts and volts.
- EM Emergency power includes integral charger light and test switch visible through aperture. Single lamp operation for 90 minutes. Specify 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.



Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length**	Lamps*
P683CB	5 ³ / ₄ " 146mm	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

Round aperture CB's [Pages P21, P22, P24](#)

*** Click for link to pages in blue.

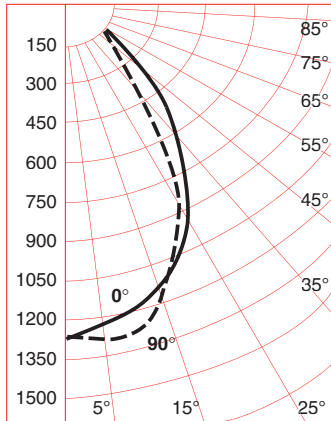
P23 P683CB

Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane						Ceiling to Floor	Multiple Units Initial Footcandles, 30" Work Plane				
P683CB Two 26W 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	
42	35	3'	23	5'	10	8'	8'	6'	51	43	30
30	25	3'	16	6'	7	9'	9'	7'	37	31	22
22	19	4'	12	7'	5	11'	10'	8'	28	23	16
14	12	5'	8	9'	3	13'	12'	10'	17	14	10
10	8	6'	5	11'	2	16'	14'	12'	12	10	7

See notes 3, 4 and 5.

Candlepower Distribution



P683CB Two 26W Quad Tube lamps
Eff. 40% S/M 0° 1.0 S/M 90° .92

Candelas

	0°	90°
o	3600*	3600*
0	1265	1265
5	1221	1287
10	1198	1276
15	1143	1182
20	1060	1104
25	943	838
30	799	621
35	616	410
40	460	277
45	299	133
50	160	61
55	66	22
60	22	11
65	11	5
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	.46	.44	.43	.42	.43	.42	.42	.40	.40	.39	.37
2	.43	.41	.39	.38	.40	.37	.39	.36	.38	.36	.34
3	.41	.38	.36	.34	.37	.34	.36	.33	.35	.33	.31
4	.38	.35	.33	.31	.35	.31	.34	.30	.33	.30	.29
5	.36	.33	.30	.28	.32	.28	.31	.28	.31	.27	.27
6	.34	.30	.28	.26	.30	.26	.29	.26	.29	.25	.25
7	.32	.28	.26	.24	.28	.24	.27	.24	.27	.23	.23
8	.31	.26	.24	.22	.26	.22	.26	.22	.25	.22	.21
9	.29	.25	.22	.20	.25	.20	.24	.20	.24	.20	.20
10	.27	.23	.21	.19	.23	.19	.23	.19	.22	.19	.18

P683CB Two 26W Quad Tube lamps

Brightness

Number	Lamps	Plane	85°	75°	65°	55°	45°
P683CB	Two 26W Quad Tube	0°	63	193	610	3852	15509
		90°	44	206	554	2184	7704

Data in footlamberts. Photometer readings, Maximum Brightness Method. See note 6.

Notes

- 1 Data on all charts calculated with a clear Softglow® finish.
- 2 Softglow® cone multipliers: Wheat x .82, Pewter x .66, Mocha x .74, Graphite x .70, Titanium x .70, Bronze x .63.
- 3 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.
- 4 Datachart spacing is rounded off to the nearest foot.
- 5 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.
- 6 Kurt Versen believes data computed from the Average Luminance Method are inaccurate for small aperture downlights. They are theoretical calculations derived for large surfaces such as troffers. For a complete discussion refer to section Z brochure Z1.
- 7 For 18W lamps, multiply all data by .70 or contact the factory for precise data.

Corridor Footcandles

P683CB Two 26W 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'	27	25	24	25	27	23	20	14	11	14	20	23
9'	23	22	22	22	23	19	17	14	12	14	17	19
10'	21	21	21	21	21	16	15	13	12	13	15	16

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

