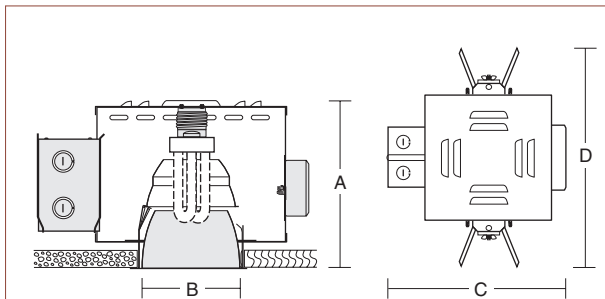


Dimensions and Lamps



Number	A Depth*	B Aperture	C Width	D Length	Lamps
P918	7 1/4" 184mm	4 1/8" 105mm	12" 305mm	14 1/4" 362mm	18W Philips Triple Tube

*Recess depth increases to 8 3/4" with EM and DM accessories.

P918

Medium Beam
One 18W Triple Tube Lamp
4 1/8" Conoid Aperture

Optics and Applications

A two reflector optical system maximizes the output of the vertically mounted Philips triple tube lamp. Small apertures do not perform properly with radically different lamp shapes. Philips is recommended for its photometric characteristics. The pattern is uniform with a soft edge to blend with adjacent units. Use anywhere as a general all purpose unit.

Design Features

The optical system has a multi-sectioned primary reflector and a parabolic low brightness shielding cone. A twist and lock socket prevents the lamp from falling if it is not properly engaged. It is a dependable fail-safe mechanism. Maximum ceiling thickness 1". 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.

Accessories

- G Gold cone.
- H Mocha cone.
- P Graphite cone.
- T Titanium cone.
- W Wheat cone.
- Y Pewter cone.
- Z Bronze cone.
- R2 26" support rails.
- R5 52" support rails.
- WT White trim flange.
- WHT White complete trim.
- V347 347 volt ballast.
- F Fuse.
- 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.
- EM Emergency power includes integral charger light and test switch visible through aperture. Single lamp operation for 90 minutes. Specify volts.

Matching Units

- Wall washers [Pages P60, E1, K4, R31](#)
- Directionals [Pages C21, K3](#)
- HID downlights [Pages R1, R2](#)

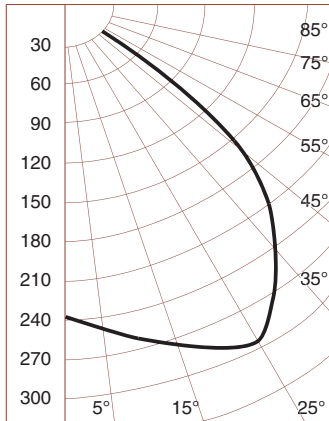
P50 P918

Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane						Ceiling to Floor		Multiple Units Initial Footcandles, 30" Work Plane			
P918 One 18W Philips Triple Tube								Ceiling 80%	Walls 50%	Floor 20%	
Nadir	10°		20°		30°		Spacing is Maximum Over Work Plane				
FC	FC	Diam	FC	Diam	FC	Diam	Spacing	RCR 1	RCR 3	RCR 8	
8	8	2'	8	4'	6	6'	8'	8'	9	7	5
6	6	2'	6	5'	4	8'	9'	10'	6	5	3
4	4	3'	4	5'	3	9'	10'	11'	5	4	2
3	3	3'	3	6'	2	10'	11'	13'	4	3	2
3	3	3'	3	7'	2	11'	12'	14'	3	2	2

See notes 4 and 5.

Candlepower Distribution



P918 One 18W Philips Triple Tube
Eff. 45% S/M 1.49

Candelas

Vertical Angles	Initial Lamp Lumens
0°	1200*
0	239
5	249
10	262
15	275
20	287
25	297
30	275
35	244
40	213
45	167
50	92
55	16
60	4
65	3
70	0
75	0
80	0
85	0
90	0

° 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	.51	.49	.48	.47	.48	.46	.46	.44	.45	.43	.41
2	.47	.45	.43	.41	.44	.40	.43	.39	.41	.39	.37
3	.44	.41	.38	.36	.40	.36	.39	.35	.38	.35	.33
4	.41	.37	.34	.32	.37	.32	.36	.31	.35	.31	.30
5	.39	.34	.31	.29	.34	.28	.33	.28	.32	.28	.27
6	.36	.31	.28	.26	.31	.26	.30	.25	.29	.25	.24
7	.34	.29	.25	.23	.28	.23	.28	.23	.27	.23	.22
8	.32	.26	.23	.21	.26	.21	.26	.21	.25	.21	.20
9	.30	.24	.21	.19	.24	.19	.24	.19	.23	.19	.18
10	.28	.23	.20	.17	.22	.17	.22	.17	.22	.17	.17

P918 One 18W Philips Triple Tube

Notes

- Data on all charts calculated with a clear specular cone finish.
- Specular cone multipliers: Wheat x .97, Pewter x .88, Mocha x .88, Graphite x .85, Titanium x .85, Bronze x .80.
- Softglow® cone multipliers: Clear x .97, Wheat x .87, Pewter x .73, Mocha x .69, Graphite x .68, Titanium x .68, Bronze x .68.
- 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. A modification factor should be applied.
- Brightness data 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.

Brightness

Number	Lamps	85°	75°	65°	55°	45°
P918	One 18W Philips Triple Tube	26	86	158	3605	13321

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

