

P909

Sloped Ceilings
Two 26-32-42W Triple Tube Lamps
8 3/8" Conoid Aperture

Optics and Applications

The primary reflector produces a medium beam and maintains constant focal position in ceiling slopes. Output is directed through a parabolic low brightness shielding cone contoured for sloped ceilings. Use in flat or sloped ceilings to 30° for vertical downlighting.

Design Features

Fixture accepts Philips, Osram Sylvania, GE or other compatible lamps despite the variance in lamp base dimensions. 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 ranges from 120V through 277V. Operates 26W, 32W or 42W triple tube lamps interchangeably. 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.

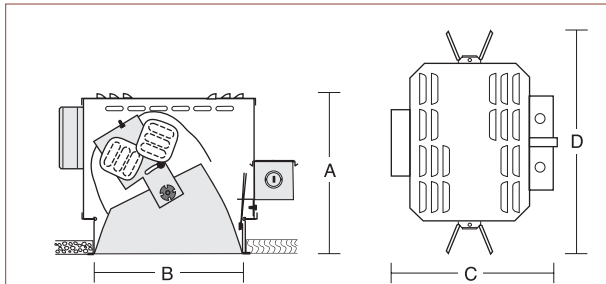
General

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 directional fixtures.

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.
- DM Dimming ballast, 26 or 32W. Specify watts and volts.
- DM2 Dimming ballasts, two 42W. Specify volts.
- EM Emergency power includes integral charger light and test switch visible through aperture. Single lamp operation for 90 minutes. Specify volts.
- WRL Wattage restriction label, specify wattage.

Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length	Lamps
P909	9 1/4" 235mm	8 3/8" 213mm	14" 356mm	19" 483mm	Two 26-32-42W Triple Tube

Brightness

Number	Lamps	Plane	85°	75°	65°	55°	45°
P909	Two 32W Philips Triple Tube	0°	25	63	153	8534	10563
		90°	25	64	156	8710	10632
	Two 42W Philips Triple Tube	0°	32	83	203	11162	13815
		90°	33	89	204	11392	13918

Data in footlamberts. Photometer readings, Maximum Brightness Method. See note 5 on the other side.

Matching Units

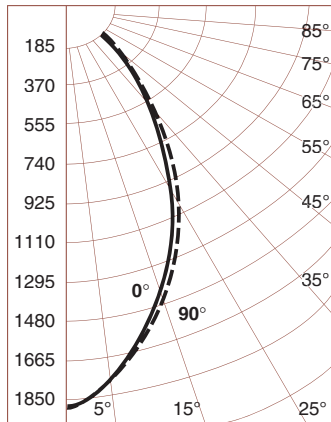
- Wide beam downlights [Pages P56, P57](#)
- Wall washer [Page P67](#)
- Surface mount [Pages P42, P43](#)

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Footcandle Values at Nadir

Distance	8'			10'			12'			14'		
	Nadir	10°	20°	Nadir	10°	20°	Nadir	10°	20°	Nadir	10°	20°
Lamps	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam
P909 Two 32W Philips	29	25	3'	15	16	4'	10	11	4'	7	8	5'
P909 Two 32W Osram	27	22	3'	14	14	4'	9	10	4'	6	7	5'
P909 Two 42W Philips	36	31	3'	19	20	4'	12	14	4'	8	10	5'
P909 Two 42W Osram	32	27	3'	17	18	4'	11	12	4'	7	9	5'

Candlepower Distribution

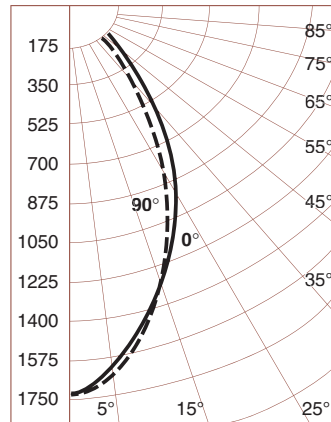


P909 Two 32W Triple Tube Philips
Eff. 33% S/M 0° .74 S/M 90° .76

Candelas

o	0°	90°
	4800*	4800*
0	1867	1867
5	1790	1806
10	1654	1691
15	1407	1465
20	1155	1181
25	973	983
30	729	706
35	552	434
40	397	253
45	263	142
50	150	82
55	87	56
60	31	14
65	3	5
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

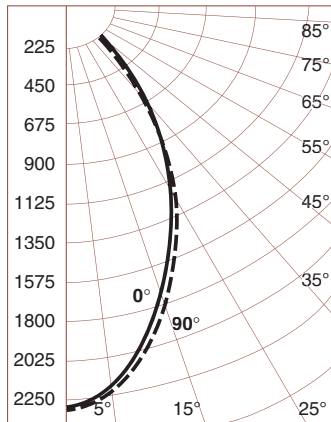
o Vertical Angles
* Initial Lamp Lumens



P909 Two 32W Triple Tube Osram Sylvania
Eff. 29% S/M 0° .76 S/M 90° .71

o	0°	90°
	4800*	4800*
0	1731	1731
5	1608	1661
10	1491	1486
15	1283	1283
20	1091	1018
25	932	836
30	689	610
35	521	372
40	376	229
45	258	147
50	159	54
55	109	13
60	33	5
65	3	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

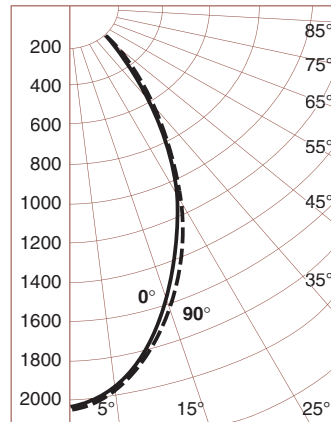
o Vertical Angles
* Initial Lamp Lumens



P909 Two 42W Triple Tube Philips
Eff. 30% S/M 0° .74 S/M 90° .76

o	0°	90°
	6400*	6400*
0	2307	2307
5	2185	2230
10	2050	2091
15	1715	1828
20	1421	1463
25	1185	1210
30	899	871
35	683	537
40	490	314
45	351	176
50	206	99
55	107	69
60	38	16
65	3	6
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

o Vertical Angles
* Initial Lamp Lumens



P909 Two 42W Triple Tube Osram Sylvania
Eff. 28% S/M 0° .74 S/M 90° .76

o	0°	90°
	6400*	6400*
0	2037	2037
5	1937	1979
10	1817	1848
15	1533	1617
20	1265	1288
25	1066	1082
30	796	773
35	605	478
40	432	280
45	312	152
50	182	87
55	94	62
60	33	14
65	2	5
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

o Vertical Angles
* Initial Lamp Lumens

Notes

- Data on all charts calculated with a clear specular cone finish.
- Specular cone multipliers: Gold x .98, Wheat x .97, Pewter x .86, Mocha x .86, Graphite x .83, Titanium x .83, Bronze x .80.
- Softglow® cone multipliers: Gold x .90, Wheat x .87, Pewter x .73, Mocha x .75, Graphite x .70, Titanium x .70, Bronze x .68.
- 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.

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	.37	.36	.35	.34	.35	.34	.34	.33	.33	.32	.30
2	.35	.33	.32	.31	.33	.30	.32	.30	.31	.29	.28
3	.33	.31	.29	.28	.30	.27	.29	.27	.29	.27	.26
4	.31	.29	.27	.25	.28	.25	.27	.25	.27	.24	.24
5	.29	.27	.25	.23	.26	.23	.26	.23	.25	.23	.22
6	.28	.25	.23	.21	.25	.21	.24	.21	.24	.21	.20
7	.26	.23	.21	.20	.23	.20	.23	.20	.22	.19	.19
8	.25	.22	.20	.18	.22	.18	.21	.18	.21	.18	.18
9	.24	.21	.19	.17	.20	.17	.20	.17	.20	.17	.16
10	.23	.19	.17	.16	.19	.16	.19	.16	.19	.16	.15

P909 Two 32W Triple Tube Philips x .92 P909 Two 32W Triple Tube Osram x .92
P909 Two 42W Triple Tube Philips x .92 P909 Two 42W Triple Tube Osram x .81