



Ordering Information: PAR38 Series B

Cat. No.	Lamp	Ceiling Trim	Aperture Finish
PB4P3810BL	(4) 100W PAR38	Overlap	Black with White Flange
PB4P3810WL	(4) 100W PAR38	Overlap	White with White Flange
PB4P3810BTL	(4) 100W PAR38	Trimless	Black
PB4P3810WTL	(4) 100W PAR38	Trimless	White

Features

- 1. Aperture Frame:** Provides clean support for lamp holders and overlapping flange or trimless installation. Extruded aluminum. Rigidly welded together on all corners.
- 2. Media Cartridge:** Allows convenient loading and removal of up to one accessory. Easily installed and removed for lamping with a simple twisting motion. Constructed of die-formed aluminum.
- 3. Adjustable Ring:** Allows 360° horizontal and 35°, max. 45° (on length); 40° (on width) vertical adjustment.
- 4. Tortiontite Spring:** For easy installation of aperture frame.
- 5. Housing:** Die-formed 22 ga. steel. Finish: Black
- 6. Mounting Brackets:** Adjustable vertically from inside or outside of housing.
- 7. Thermal Protector:** Meets NEC and UL requirements.
- 8. Lampholder:** Porcelain medium based; nickel plated screw shell. Prewired with #18 SF-1 leads to junction box.
- 9. Junction Box:** 14 ga. steel, 4" x 3-1/2" x 2" box. Allows inspection from below.
- 10. Lamp and Accessory Support:** .032" steel, flared for easy entry of Media Cartridge.
- 11. Lens Retaining Ring:** .093" spring steel rod. Holds accessories in place.

Electrical

UL listed for through branch circuit wiring with maximum of (8) no. 12 AWG, 90°C.

Finish

All painted finishes are powder coated baked enamel.

Options and Accessories

Accessories: 4 3/4" dia. series, filters, lenses, screens, and louvers. (1) max.

Label

UL/cUL (Suitable for Damp Location), I.B.E.W.

US Patent Pending.

Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

Lightolier a Genlyte Thomas Company www.lightolier.com
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LIGHTOLIER®



Lighting Performance Data

		Narrow																			
		45W PAR38 NSP (T-H)				45W PAR38 SP (T-H)				75W PAR38 SP		90W PAR38 NSP (T-H)		90W PAR38 SP (T-H)							
DISTANCE 0' 1' 2' 3' 4' 5' 6'																					
	FOOTCANDLES (On Beam Center At 6')	236				131				144		528		333							
	BEAM SPREAD (To 50% Max. CP)	6°				14°				12°		7°		12°							
	MAX. CANDLEPOWER (Candelas)	8,500				4,700				5,200		19,000		12,000							
	RATED LIFE (Hours)	2,000				2,000				2,000		2,000		2,000							
0° AIMING ANGLE Illumination on Horizontal Plane 		D	FC	L	W	D	FC	L	W	D	FC	L	W	D	FC	L	W				
		7'	173	0.7'	0.7'	6'	131	1.5'	1.5'	6'	144	1.3'	1.3'	10'	190	1.2'	1.2'	8'	188	1.7'	1.7'
30° AIMING ANGLE Illumination on Horizontal Plane 		10'	85	1.0'	1.0'	8'	73	2.0'	2.0'	8'	81	1.7'	1.7'	15'	84	1.8'	1.8'	12'	83	2.5'	2.5'
		13'	50	1.4'	1.4'	10'	47	2.5'	2.5'	10'	52	2.1'	2.1'	20'	47	2.4'	2.4'	16'	47	3.4'	3.4'
30° AIMING ANGLE Illumination on Vertical Plane 		16'	33	1.7'	1.7'	12'	33	2.9'	2.9'	12'	36	2.5'	2.5'	25'	30	3.1'	3.1'	20'	30	4.2'	4.2'
		D	FC	L	W	D	FC	L	W	D	FC	L	W	D	FC	L	W	D	FC	L	W
0° AIMING ANGLE Illumination on Horizontal Plane 		6'	153	0.8'	0.7'	5'	122	1.6'	1.4'	5'	135	1.4'	1.2'	8'	193	1.3'	1.1'	7'	159	2.0'	1.7'
		9'	68	1.3'	1.1'	7'	62	2.3'	2.0'	7'	69	2.0'	1.7'	12'	86	2.0'	1.7'	10'	78	2.8'	2.4'
30° AIMING ANGLE Illumination on Horizontal Plane 		12'	38	1.7'	1.5'	9'	38	3.0'	2.6'	9'	42	2.5'	2.2'	16'	48	2.6'	2.3'	13'	46	3.7'	3.2'
		15'	25	2.1'	1.8'	11'	25	3.6'	3.1'	11'	28	3.1'	2.7'	20'	31	3.3'	2.8'	16'	30	4.5'	3.9'
30° AIMING ANGLE Illumination on Vertical Plane 		D	FC	L	W	D	FC	L	W	D	FC	L	W	D	FC	L	W	D	FC	L	W
		2'	266	0.8'	0.4'	2'	147	2.1'	1.0'	2'	163	1.7'	0.8'	4'	148	2.0'	1.0'	3'	167	2.6'	1.3'
30° AIMING ANGLE Illumination on Horizontal Plane 		3'	118	1.3'	0.6'	3'	65	3.1'	1.5'	3'	72	2.6'	1.3'	6'	66	3.0'	1.5'	4'	94	3.5'	1.7'
		4'	66	1.7'	0.8'	4'	37	4.1'	2.0'	4'	41	3.5'	1.7'	8'	37	4.0'	2.0'	5'	60	4.3'	2.1'
30° AIMING ANGLE Illumination on Vertical Plane 		5'	43	2.1'	1.0'	5'	24	5.1'	2.5'	5'	26	4.3'	2.1'	10'	24	4.9'	2.4'	6'	42	5.2'	2.5'

		Medium											
		45W PAR38 FL (T-H)				75W PAR38 FL				90W PAR38 FL (T-H)			
DISTANCE 0' 1' 2' 3' 4' 5'													
	FOOTCANDLES (On Beam Center At 6')	47				52				111			
	BEAM SPREAD (To 50% Max. CP)	28°				30°				30°			
	MAX. CANDLEPOWER (Candelas)	1,700				1,860				4,000			
	RATED LIFE (Hours)	2,000				2,000				2,000			
0° AIMING ANGLE Illumination on Horizontal Plane 		D	FC	L	W	D	FC	L	W	D	FC	L	W
		3'	189	1.5'	1.5'	4'	116	2.1'	2.1'	6'	111	3.2'	3.2'
30° AIMING ANGLE Illumination on Horizontal Plane 		5'	68	2.5'	2.5'	6'	52	3.2'	3.2'	8'	63	4.3'	4.3'
		7'	35	3.5'	3.5'	8'	29	4.3'	4.3'	10'	40	5.4'	5.4'
30° AIMING ANGLE Illumination on Vertical Plane 		9'	21	4.5'	4.5'	10'	19	5.4'	5.4'	12'	28	6.4'	6.4'
		D	FC	L	W	D	FC	L	W	D	FC	L	W
0° AIMING ANGLE Illumination on Horizontal Plane 		3'	123	2.0'	1.7'	5'	134	2.2'	1.9'	5'	104	3.7'	3.1'
		5'	44	3.4'	2.9'	7'	48	3.7'	3.1'	7'	53	5.1'	4.3'
30° AIMING ANGLE Illumination on Horizontal Plane 		7'	23	4.8'	4.0'	9'	25	5.1'	4.3'	9'	32	6.6'	5.6'
		9'	14	6.1'	5.2'	11'	15	6.6'	5.6'	11'	21	8.1'	6.8'
30° AIMING ANGLE Illumination on Vertical Plane 		D	FC	L	W	D	FC	L	W	D	FC	L	W
		1'	213	2.5'	1.0'	1'	233	2.7'	1.1'	2'	125	5.5'	2.1'
30° AIMING ANGLE Illumination on Horizontal Plane 		2'	53	4.9'	2.0'	2'	58	5.5'	2.1'	3'	56	8.2'	3.2'
		3'	24	7.4'	3.0'	3'	26	8.2'	3.2'	4'	31	10.9'	4.3'
30° AIMING ANGLE Illumination on Vertical Plane 		4'	13	9.8'	4.0'	4'	15	10.9'	4.3'	5'	20	13.7'	5.4'

Data are based on bare lamp photometrics.
FC is initial footcandles at center of beam. L and W are to the point that the candlepower drops 50% of maximum.

The diagram shows a lamp at the top left, emitting a light beam towards a vertical wall on the right. A dashed vertical line from the lamp to the wall indicates the 30-degree angle of the beam. The horizontal distance from the lamp to the wall is labeled 'D'. The vertical distance from the wall to the center of the light beam is labeled 'C'. The beam is shown as a cone of light hitting the wall.

Beam Center Location

Distance D (ft.)	1	2	3	4	5	6	7	8	9	10
Distance C (ft.)	1.7	3.5	5.2	6.9	8.7	10.4	12.1	13.8	15.6	17.3

This chart locates the distance (C) to the center of the light beam for various distances (D) when the lamp is aimed 30° from vertical, the preferred aiming angle for lighting pictures on a wall.

Job Information

Type:

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