



Pacemaker 2 is a latest generation High Bay luminaire. It has a self cleaning aluminium reflector, which has been designed for use with elliptical lamps for uniform distribution and glare control. Now also available are 2 sizes of high efficiency refractor where a direct/indirect lighting effect is required. The major size is suited to the discharge lamp versions and the minor size more in keeping with the lower mounting heights associated with the low energy CFL models. The die cast housing has a multi finned heat sink construction to dissipate lampholder heat and improve lamp life and is rated to IP65 (IP40 CFL). Supplied with a 1m pre-wired lead and a simple threaded clamp method of attachment location, Pacemaker 2 is quick to install and easy to maintain.

A toughened safety glass attachment is recommended if using standard metal halide lamps and this also seals the aluminum reflector to IP65. To complete the flexibility in Pacemaker 2 all discharge lamp versions can be supplied with an auxiliary run up lamp facility (250w halogen) which strikes immediately and disconnects when 80% of the discharge lamp light output is reached.

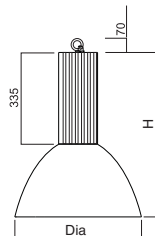
- Attractive die cast aluminium housing with chain suspension facility
- Full range of SON, MBI and CFL options
- Housing pre-wired and IP65 as standard (IP40 CFL types)
- Reflector IP23 with an IP65 safety glass option
- Major and Minor Prismatic Refractor with a conical lens option
- Supplied less lamp

Catalogue Numbers

Lamp Rating	Lamp Options	Std Housing Part Number	Weight (Kg)	Aux Run Up Part Number	Weight (Kg)
Discharge Lamp Housings					
70w	HP Sodium	PM70S	4.5	-	-
150w	HP Sodium	PM150S	5.7	PM150S-ARU	5.7
250w	HP Sodium	PM250S	6.7	PM250S-ARU	6.7
400w	HP Sodium	PM400S	8.1	PM400S-ARU	8.1
70w	Metal Halide	PM70MH	4.5	-	-
150w	Metal Halide	PM150MH	5.7	PM150MH-ARU	7.9
250w	Metal Halide	PM250MH	6.7	PM250MH-ARU	8.9
400w	Metal Halide	PM400MH	8.1	PM400MH-ARU	10.1
Lamp Rating	Lamp Options	Std Housing Part Number	Weight (Kg)	Emergency Part Number	Weight (Kg)
Compact Fluorescent Lamp Housings					
1x57w	High Frequency CFL	PM157Z	3.1	EBPM157Z	3.9
2x57w	High Frequency CFL	PM257Z	3.2	EBPM257Z	4.0
2x42w	High Frequency CFL	PM242Z	3.2	EBPM242Z	4.0
4x42w	High Frequency CFL	PM442Z	3.6	EBPM442Z	4.4
1x57w	Digital Dimming CFL	PM157RD	3.1	EBPM157RD	3.9
2x57w	Digital Dimming CFL	PM257RD	3.2	EBPM257RD	4.0
2x42w	Digital Dimming CFL	PM242RD	3.2	EBPM242RD	4.0
4x42w	Digital Dimming CFL	PM442RD	3.6	EBPM442RD	4.4
Lamp Rating	Lamp Options	Description	Part Number	Weight (Kg)	
Pacemaker 2 Accessories					
Discharge	Any	Pacemaker 2 Aluminium Reflector	PMALR	1.0	
Discharge	Any	Pacemaker 2 IP 65 Safety Glass	PMSG	2.2	
Discharge	Any	Pacemaker 2 Wire Guard	PMWG	0.3	
Discharge	Any	Pacemaker 563 dia Prismatic Refractor & Collar	PMREF563	3.3	
Discharge	Any	Pacemaker 563 dia Prismatic Conical Lens & Band	PMLENS563	1.1	
CFL	Any	Pacemaker 407 dia Prismatic Refractor & Collar	PMREF407	1.8	
CFL	Any	Pacemaker 407 dia Prismatic Conical Lens & Band	PMLENS407	0.7	

Dimensions and Installation

Option	Dia (mm)	H (mm)
With PMALR reflector	485	662
With PMREF407 refractor & collar	407	675
With PMREF563 refractor & collar	563	735



Fastening of the reflector



Safety Glass Installation

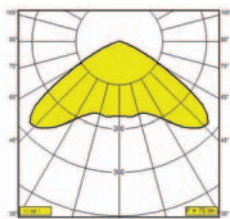


Safety Glass Fastening



Photometric Data & Fast Calculation Tables

Cat No. PM250MH & PMALR



LOR: 0.752
 ULOR: 0.00
 DLOR: 0.752
 SHR nom: 2.0
 SHR max: 2.05

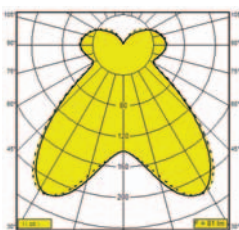
Reflection		Room Index									
C	W	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
70	50	20	N/A	57	62	66	71	74	76	79	80
70	30	20	N/A	53	58	62	67	71	73	76	78
70	10	20	N/A	49	54	58	64	68	71	74	77
50	50	20	N/A	56	60	64	69	72	74	76	77
50	30	20	N/A	52	56	60	66	69	71	74	76
50	10	20	N/A	49	53	57	63	67	69	72	74
30	50	20	N/A	55	59	62	67	69	71	73	75
30	30	20	N/A	51	55	59	64	67	69	72	73
30	10	10	N/A	48	53	57	62	65	67	70	72
0	0	0	N/A	46	51	54	60	63	65	67	69
BZ-class			1	2	2	2	2	2	2	2	2
SHRnom: 2.00						SHRmax: 2.055					

Fast Calculation Table (rfi: 70/30/20)

E	Lph	1x250w MBI/19000 lm							
		In	In	Room size (m ²)					
				50	100	150	200	300	400
200	5.00	2	3	4	4	6	7	9	10
	6.00	3	3	4	5	6	8	9	11
	8.00	3	5	5	6	8	9	11	12
300	5.00	3	4	5	6	9	11	13	15
	6.00	5	5	6	7	9	12	14	16
	8.00	5	7	8	9	11	13	16	18
500	5.00	5	7	9	10	14	18	21	25
	6.00	7	8	10	12	15	19	23	26
	8.00	7	11	13	15	18	22	26	29

Maintenance factor: 1.0

Cat No. PM442Z & PMREF407



LOR: 0.81
 ULOR: 0.22
 DLOR: 0.59
 SHR nom: 1.5
 SHR max: 1.51

Reflection		Room Index									
C	W	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
70	50	20	44	50	55	58	63	66	69	72	74
70	30	20	39	45	49	53	58	62	65	68	71
70	10	20	35	40	45	49	54	58	61	65	68
50	50	20	41	46	50	53	57	60	62	65	67
50	30	20	37	42	46	49	53	56	59	62	64
50	10	20	33	38	42	45	50	53	56	59	62
30	50	20	38	42	46	48	52	54	56	58	60
30	30	20	34	39	42	45	49	51	53	56	58
30	10	20	31	36	39	42	46	49	51	54	56
0	0	0	28	31	34	37	40	42	44	46	48
BZ-class			3	4	4	5	5	5	5	5	5
SHRnom: 1.50						SHRmax: 1.503					

Fast Calculation Table (rfi: 70/50/20)

E	Lph	4x42w TOT/12800 lm							
		In	In	Room size (m ²)					
				40	60	80	100	150	200
200	3.00	2	3	3	4	5	6	7	8
	4.00	3	3	3	4	5	6	8	9
	5.00	3	3	4	4	6	7	8	9
300	3.00	3	4	4	5	7	9	10	12
	4.00	3	4	5	6	8	9	11	13
	5.00	4	5	6	6	8	10	12	14
500	3.00	4	6	7	8	11	14	17	19
	4.00	5	7	8	9	12	15	18	21
	5.00	6	7	9	10	14	17	20	23

Maintenance factor: 1.0

Electronic Data

Part Number	Type of Control Gear	Circuit Current (A)	Lamp Current (A)	Circuit Power (W)
PM150S	SON	0.82	1.80	168
PM250S	SON	1.32	3.00	275
PM400S	SON	2.10	4.40	432
PM150MH	MBF	0.85	1.80	170
PM250MH	MBF	1.30	2.15	275
PM400MH	MBF	1.98	3.50	428
PM442Z	CFL	0.76	-	178
PM257Z	CFL	0.53	-	121

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