

PRODUCT SPECIFICATIONS

Lamp One, two or three 39W PAR30L or 70W PAR30L medium base ceramic arc tube metal halide lamps.

Socket Medium base, glazed porcelain • 4kV pulse-rated with nickel-plated copper screw shell.

Lamp Housing Integral accessory holder and metal snoot for improved lamp shielding • Can be combined with accessory louver and/or accessory color filters.

Aiming 34° vertical aiming capability (up to 45° if integral snoot is removed) • 360° horizontal rotation • Each lampholder is individually aimable.

Trim Finish All Black with White Flange (BL) or all White (WH).

Electronic Ballast Premium, high efficiency, constant power electronic ballast provides optimum color and CRI uniformity from fixture to fixture • Offers most consistent lumen output and photometric performance over life of lamp • Controlled starting current and stable normal operation maximizes lamp life • Faster hot restrike and lamp warm-up time compared to magnetic ballast • Automatic resetting thermal protection • MOV transient protection • End-of-life shutdown prevents nuisance cycling and flashing • May be replaced from above or below ceiling • 120/277VAC input voltage.

Labels UL/C-UL listed for through-branch wiring and damp location • Product thermally protected against improper use of lamps or insulation • I.B.E.W. Union made • CSA Certified.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

INSTALLATION

Mounting Bracket Mounting brackets have 2.5" vertical adjustment and accept proprietary Tru-Lock bar hangers, 1 1/2" C-channel and flat linear bars (ordered as accessories) or 1/2" EMT, 3/4" and 1 1/2" C-channel (by others) • One-piece Tru-Lock bar hangers have integral T-bar locking screws and alignment notches for locating and locking fixture in the center or 1/4 tile increments.

Housing 22 gauge die-formed galvanized steel, vented • Electrical connections can be made from below the ceiling in an internal wireway or from above the ceiling through a wireway access cover • Wireway access cover has (2) 1/2" knockouts with pry-out slot for conduit attachment • 1/2" knockouts with pry-out slots are located on each end of fixture for conduit attachment or continuous row, end-to-end fixture installation.

Trim Attaches to housing using torsion springs • Lamps are replaced by removing lampholder insert/snoot assembly but without removing trim section.

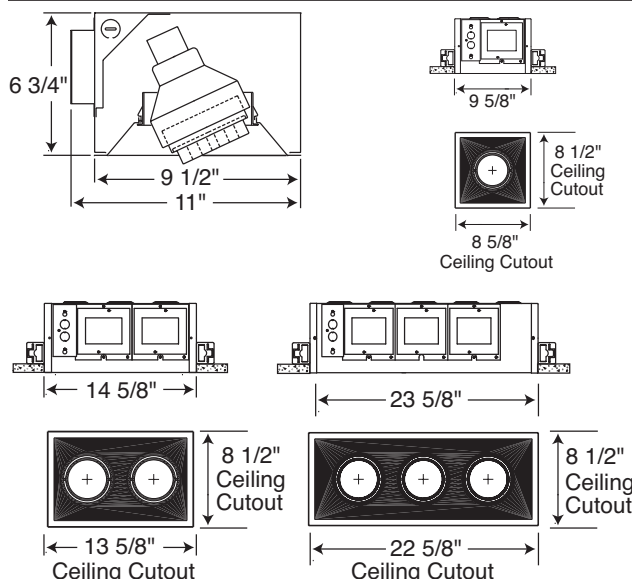
Accessories A maximum of one louver and one color filter may be used simultaneously in each lampholder using integral accessory holder.

PAR30L HID MULTI-SPOTS®

Multi-Lamp Recessed Adjustables
Ceramic Arc Tube 39W or 70W PAR30L
MS301-39EMH, MS301-70EMH
MS302-39EMH, MS302-70EMH
MS303-39EMH, MS303-70EMH

Type	Cat. No.
_____	_____
_____	_____
Project: _____	
Notes: _____	

DIMENSIONS



ORDERING INFORMATION

Example: **MS301-39EMH-BL**

Rough-In	Wattage/Lamp	Finish	Options
MS301 1-Lamp unit	39EMH 39W PAR30L MH 120/277V	WH White BL Black	***F Fuse and Fuse Holder (Where *** = voltage) †CP Chicago Plenum
MS302 2-Lamp unit	Electronic		
MS303 3-Lamp unit	70EMH 70W PAR30L MH 120/277V Electronic		

Example: **HB-TL**

Accessories	
HB-TL	Two 25" Tru-Lock Bar Hangers, Pair
HB-28	Two 28" C-channel Bar Hangers, Pair
HB-52	Two 52" C-channel Bar Hangers, Pair
LB-27	Two 27" linear Bar Hangers, Pair
T561	Med. Pink Color Filter
T562	Warm Red Color Filter
T563	Daylight Blue Color Filter
T564	Med. Blue Color Filter
T565	Med. Amber Color Filter
T566	Med. Green Color Filter
T5621	Uniformity Lens
T5622	UV Filter Lens
T5677	Prismatic Spread Lens
T5678	Linear Spread Lens
T5619	Color Correction Lens/UV Filter
T569BL	Louver 3 3/4" Dia. with 1/2" Sq. Cells

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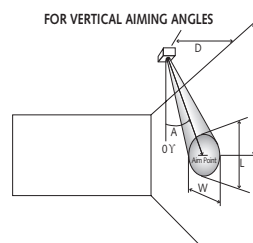
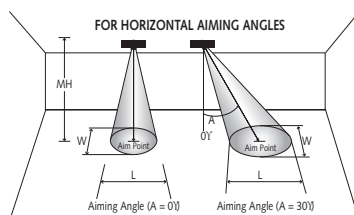
MS301-39EMH, MS301-70EMH

MS302-39EMH, MS302-70EMH

MS303-39EMH, MS303-70EMH

ENGINEERING DATA

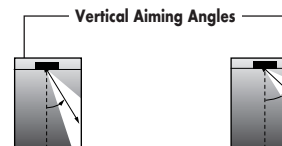
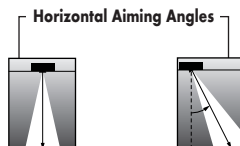
	1-39W		1-70W		2-39W		2-70W		3-39W		3-70W	
ANSI #	M-130	M-130	M-98/M-139/ M-143	M-98/M-139/ M-143	M-130	M-130	M-98/M-139/ M-143	M-98/M-139/ M-143	M-130	M-130	M-98/M-139/ M-143	M-98/M-139/ M-143
Input Voltage	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current	0.37A	0.17A	0.67A	0.29A	0.74A	0.32A	1.34A	0.57A	1.10A	0.48A	1.98A	0.86A
Input Power	44W	44W	79W	79W	88W	88W	158W	158W	132W	132W	237W	237W
Power Factor	>.90	>.90	>.90	>.90	>.90	>.90	>.90	>.90	>.90	>.90	>.90	>.90
T.H.D.	<15%	<15%	<15%	<15%	<15%	<15%	<15%	<15%	<15%	<15%	<15%	<15%
Sound Rating	A	A	A	A	A	A	A	A	A	A	A	A



CBCP • Centerbeam candlepower

FC • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



Lamp	Beam Type	Beam Spread°	Rated Life	CBCP	0°				30°				30°				45°			
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
39W PAR30L Ceramic Arc Metal Halide	SP	10°	9000	44000	10	440	1.7	1.7	286	2.3	2.0	4	344	6.8	2.9	1.4	972	4.0	1.4	1.0
					12	306	2.1	2.1	198	2.8	2.4	5	220	8.7	3.6	1.7	622	5.0	1.8	1.2
					14	224	2.4	2.4	146	3.3	2.8	6	153	10.4	4.3	2.1	432	6.0	2.1	1.5
					16	172	2.8	2.8	112	3.7	3.2	7	112	12.1	5.0	2.4	317	7.0	2.5	1.7
					18	136	3.1	3.1	88	4.2	3.6	8	86	13.9	5.7	2.8	243	8.0	2.8	2.0
					8	116	4.3	4.3	75	5.9	5.0	2	231	3.5	5.5	2.1	654	2.0	2.3	1.5
	FL	30°	9000	7400	10	74	5.4	5.4	48	7.3	6.2	3	103	5.2	8.2	3.2	291	3.0	3.5	2.3
					12	51	6.4	6.4	33	8.8	7.4	4	58	6.9	10.9	4.3	164	4.0	4.6	3.0
					14	38	7.5	7.5	25	10.2	8.7	5	37	8.7	13.7	5.4	105	5.0	5.8	3.8
					16	29	8.6	8.6	19	11.7	9.9	6	26	10.4	16.4	6.4	73	6.0	6.9	4.5
					8	116	4.3	4.3	75	5.9	5.0	2	231	3.5	5.5	2.1	654	2.0	2.3	1.5
					10	74	5.4	5.4	48	7.3	6.2	3	103	5.2	8.2	3.2	291	3.0	3.5	2.3
70W PAR30L Ceramic Arc Metal Halide	SP	10°	9000	68000	10	680	1.7	1.7	442	2.3	2.0	4	531	6.9	2.9	1.4	1503	4.0	1.4	1.0
					12	472	2.1	2.1	307	2.8	2.4	5	340	8.7	3.6	1.7	962	5.0	1.8	1.2
					14	347	2.4	2.4	225	3.3	2.8	6	236	10.4	4.3	2.1	668	6.0	2.1	1.5
					16	266	2.8	2.8	173	3.7	3.2	7	173	12.1	5.0	2.4	491	7.0	2.5	1.7
					18	210	3.1	3.1	136	4.2	3.6	8	133	13.9	5.7	2.8	376	8.0	2.8	2.0
					8	156	5.8	5.8	101	8.1	6.7	2	313	3.5	9.7	2.9	884	2.0	3.4	2.1
	FL	40°	9000	10000	10	100	7.3	7.3	65	10.2	8.4	3	139	5.2	14.5	4.4	393	3.0	5.0	3.1
					12	69	8.7	8.7	45	12.2	10.1	4	78	6.9	19.3	5.8	221	4.0	6.7	4.1
					14	51	10.2	10.2	33	14.2	11.8	5	50	8.7	24.2	7.3	141	5.0	8.4	5.1
					16	39	11.6	11.6	25	16.2	13.4	6	35	10.4	**	8.7	98	6.0	10.1	6.2
					8	156	5.8	5.8	101	8.1	6.7	2	313	3.5	9.7	2.9	884	2.0	3.4	2.1
					10	100	7.3	7.3	65	10.2	8.4	3	139	5.2	14.5	4.4	393	3.0	5.0	3.1

The beam spread in degrees and the beam "L" and "W" in the following tables are computed at 50% of centerbeam candlepower and represent areas of "effective illumination."

**Due to steep aiming angle, length of beam extends beyond 25'.