

# FEATURES

## OPTICAL SYSTEM

- Self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image and smooth transition from top of reflector to bottom.
- Patent-pending integrated snoot and optical system minimizes lamp striations normally associated with PAR lamps and creates visually pleasing scallops on vertical surfaces.

## HOUSING

- Heavy gauge, aluminum housing with top deck for clean appearance. Provided with safety chain on ceiling and pendant units allowing hands-free wiring connections. Matte white textured polyester powder paint finish standard.

## MOUNTING

- Ceiling mount provided with mounting pattern for direct installation to 4" octagonal or square junction box.
- Wall mount provided with mounting pattern for direct installation to 4" octagonal or square junction box.
- Pendant mount entry provided for 3/8" National Pipe Thread stem. Additional pendant options available (see accessories). Wires supplied by others.

## ELECTRICAL SYSTEM

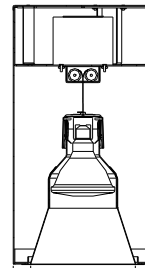
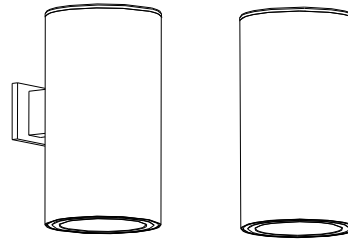
- Medium-base porcelain socket with nickel-plated screw shell.
- Removable, pre-wired, 120 or 277V, 50/60Hz electronic ballast module standard.

## LISTING

- Fixtures are listed and labeled to comply with US and Canadian standards. Wall mount suitable for wet locations. Ceiling and pendant mount suitable for wet locations in covered ceiling installations only.



Type Catalog number



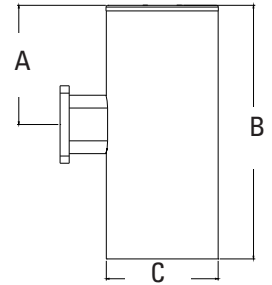
Aperture: 7-7/8 (20.0)  
Housing Diameter: 10-1/2 (26.7)  
Housing Height: 19-3/8 (49.2)

All dimensions are inches (centimeters)

## HID Surface Downlights

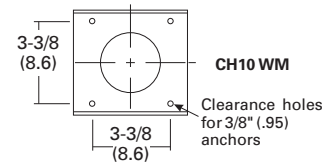
# 10" CH

Cylinder  
PAR Metal Halide



A: 6-5/8 (16.8)  
B: 19-3/8 (49.2)  
C: 10-1/2 (26.7)

## Wall Mount Bracket



# ORDERING INFORMATION

Example: **CH10 P3870MHC 8AR MVOLT FCM DWHG**

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line.

CH10		Aperture/Trim color		Finish	Voltage	Mounting	Options
<b>Series</b>	CH10	<b>8AR</b> Clear		(blank) Semi-specular	<b>MVOLT<sup>3</sup></b>	<b>FCM</b> Ceiling mount	<b>SF<sup>4</sup></b> Single fuse
<b>Wattage/lamp</b>		<b>8PR</b> Pewter		<b>LD</b> Matte-diffuse	<b>120</b>	<b>WM</b> Wall mount	<b>QRS<sup>5</sup></b> Quartz restrike system
<b>Metal Halide</b>		<b>8WTR</b> Wheat			<b>277</b>	<b>PM</b> Pendant 3/8" thread mount	<b>QRSTD<sup>5</sup></b> QRS with time delay
<b>P3870M</b> 70W PAR38		<b>8BR</b> Black			<b>347</b>		<b>EC<sup>5</sup></b> Emergency circuit
<b>P38100M</b> 100W PAR38							<b>LPFL</b> Lamp, Flood (shipped separately)
<b>Color-corrected</b>							<b>LPSP</b> Lamp, Spot (shipped separately)
<b>Metal Halide<sup>1</sup></b>							<b>Housing Colors<sup>6</sup></b>
<b>P3870MHC</b> 70W PAR38						<b>Pendant Accessories</b> (Shipped Separately) (Specify length and Color)	<b>DWHG</b> Matte white (standard)
<b>P38100MHC</b> 100W PAR38						<b>CYS<sup>7</sup></b> 3/8" stem and canopy with 5° "hang straight" swivel	<b>DDB</b> Dark bronze
<b>P38150MHC</b> 150W PAR38 <sup>2</sup>						<b>CRS<sup>7</sup></b> 3/8" stem and canopy with 45° swivel	<b>DBL</b> Black
							<b>DWH</b> Gloss white
							<b>DMB</b> Medium bronze
							<b>DNA</b> Natural aluminum
							<b>DSS</b> Sandstone
							<b>DGC</b> Charcoal gray
							<b>DTG</b> Tarnish green
							<b>DBR</b> Bright red
							<b>DSB</b> Steel blue

## NOTES

- 1 Ceramic ARC tube consistent-color lamp. Phillips Mastercolor or GE Constant Color.
- 2 California Title 20 compliant.
- 3 Not available 150W.
- 4 Must specify 120 or 277V.
- 5 QRS, QRSTD and EC not available in conjunction with each other.
- 6 Additional architectural colors available; please see Architectural Colors brochure 794.3.
- 7 Length of stem must be specified (from 6" to 240" in even increments). Ex. CYS06 DWHG. Ceiling attachment for interior use. Consult factory for exterior use.

# 10" CH Open Reflector Cylinder, PAR Lamp

## Distribution curve

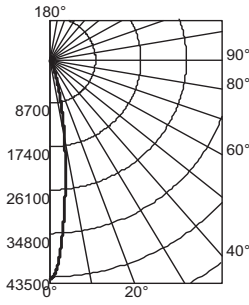
## Distribution data

## Output data

## Coefficient of utilization

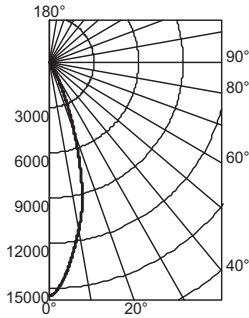
## Illuminance Data at 30" Above Floor for a Single Luminaire

### CH10 P38100MHC/SP20 8AR, MCP100PAR38/U/830/SP lamp, 0.3 s/mh, 6500 rated lumens, Test No. LTL12840



Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			70%			50%			Mounting Height	Initial FC		50% beam		10% beam		
						50%	30%	10%	50%	30%	10%	50%	30%	10%		Center	Beam	Diameter	FC	Diameter	FC	
0°	43914	0° - 30°	5239	80.6	0	99	99	99	97	97	97	92	92	92	8.0	1451.7	1.5	725.9	3.4	145.2		
5°	31077	0° - 40°	5377	82.7	1	94	93	92	93	91	90	89	88	87	10.0	780.7	2.0	390.4	4.6	78.1		
15°	7210	0° - 60°	5405	83.2	2	90	88	86	89	87	85	86	85	83	12.0	486.6	2.5	243.3	5.9	48.7	29.7°	50.6°
25°	1444	0° - 90°	5411	83.2	3	87	84	82	86	83	81	84	82	80	14.0	332.1	3.0	166.0	7.1	33.2		
35°	171	90° - 180°	0	0.0	4	84	81	79	83	80	78	81	79	77	16.0	241.0	3.6	120.5	8.3	24.1		
45°	25	0° - 180°	5411	83.2	5	81	78	76	81	78	75	79	77	75								
55°	1				6	79	76	73	78	75	73	77	75	73								
65°	0				7	77	74	71	76	73	71	75	73	71								
75°	3				8	75	72	69	74	71	69	74	71	69								
85°	4				9	73	70	68	73	70	68	72	69	67								
90°	0				10	71	68	66	71	68	66	70	68	66								

### CH10 MH100PAR38/FL 8AR, MP100PAR38/U/FL35/ECO lamp, 0.5 s/mh, 5800 rated lumens, Test No. LTL12900



Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			70%			50%			Mounting Height	Initial FC		50% beam		10% beam		
						50%	30%	10%	50%	30%	10%	50%	30%	10%		Center	Beam	Diameter	FC	Diameter	FC	
0°	15454	0° - 30°	4557	78.6	0	98	98	98	96	96	96	92	92	92	8.0	510.9	2.9	255.4	5.2	51.1		
5°	13862	0° - 40°	4752	81.9	1	93	91	90	91	90	88	88	87	86	10.0	274.7	4.0	137.3	7.1	27.5		
15°	8436	0° - 60°	4783	82.5	2	88	86	83	87	84	82	84	82	81	12.0	171.2	5.0	85.6	9.0	17.1	29.7°	50.6°
25°	2202	0° - 90°	4786	82.5	3	84	81	78	83	80	78	81	79	77	14.0	116.9	6.1	58.4	10.9	11.7		
35°	251	90° - 180°	0	0.0	4	80	77	74	80	76	74	78	75	73	16.0	84.8	7.2	42.4	12.8	8.5		
45°	28	0° - 180°	4786	82.5	5	77	74	71	76	73	71	75	72	70								
55°	4				6	74	70	68	74	70	68	72	69	67								
65°	1				7	71	68	65	71	67	65	70	67	65								
75°	1				8	69	65	63	68	65	62	68	64	62								
85°	1				9	66	63	60	66	63	60	65	62	60								
90°	0				10	64	61	58	64	60	58	63	60	58								

#### NOTES:

- For electrical characteristics, refer to Technical Bulletins tab.
- Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change without notice.

SHID-130

©2008, 2009 Acuity Brands Lighting, Inc. All Rights Reserved.

**gotham**  
An Acuity Brands Company

GOTHAM ARCHITECTURAL DOWNLIGHTING

1400 Lester Road Conyers Georgia 30012

P 800 315 4982 F 770 860 3129

www.gothamlighting.com