

# 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.

## 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

- Open luminaire - provided with protected, medium-base porcelain socket with nickel-plated screw shell.
- Enclosed luminaire - provided with medium-base porcelain socket with nickel-plated screw shell.
- Removable, pre-wired, 120 to 277V, 50/60Hz electronic ballast module standard. Exception: lensed 150W -- Removable, pre-wired, power module with high power factor, pulse start, core-and-coil ballast standard.

## LISTING

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



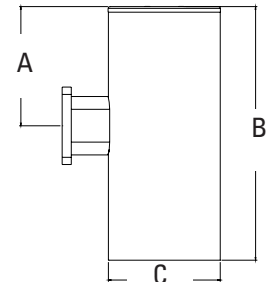
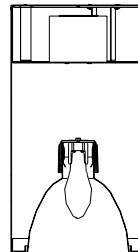
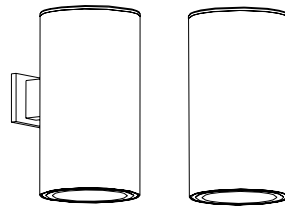
Type Catalog number

## HID Surface Downlights

# 10" CH

## Cylinder

Metal Halide

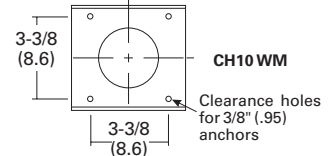


A: 6-5/8 (16.8)  
B: 19-3/8 (49.2)  
C: 10-1/2 (26.7)

Aperture: 7-7/8 (20.1)  
Housing Diameter: 10-1/2 (26.7)  
Housing Height: 19-3/8 (49.2)

All dimensions are inches (centimeters)

### Wall Mount Bracket



# ORDERING INFORMATION

Example: **CH10 100MHC 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		Voltage	Lens Type	Mounting	Options
<b>Series</b>	CH10	<b>8AR</b> Clear		<b>MVOLT<sup>4</sup></b>	(blank) No lens	<b>FCM</b> Ceiling mount	<b>SF<sup>5</sup></b> Single fuse
<b>Wattage/lamp<sup>1</sup></b>		<b>8PR</b> Pewter		<b>120</b>	<b>CGL</b> Clear glass lens	<b>WM</b> Wall mount	<b>QRS<sup>6,7</sup></b> Quartz restrike system
<b>Metal Halide</b>		<b>8WTR</b> Wheat		<b>277</b>	<b>T73</b> Tempered prismatic lens	<b>PM</b> Pendant 3/8" thread mount	<b>QRSTD<sup>6,7,8</sup></b> QRS with time delay
<b>70M</b> MED		<b>Finish</b>		<b>347</b>		<b>Pendant Accessories</b> (Shipped Separately)	<b>EC</b> Emergency circuit
<b>100M</b> MED		(blank) Semi-specular				(Specify length and Color)	<b>WLP</b> Lamp (shipped separately)
<b>150M</b> MED <sup>2</sup>		<b>LD</b> Matte-diffuse				<b>CYS<sup>10</sup></b> 3/8" stem and canopy with 5° "hang straight" swivel	<b>Housing Colors<sup>9</sup></b>
<b>Color-Corrected Metal Halide<sup>3</sup></b>						<b>CRS<sup>10</sup></b> 3/8" stem and canopy with 45° swivel	<b>DWHG</b> Matte white (standard)
<b>70MHC</b> MED							<b>DDB</b> Dark bronze
<b>100MHC</b> MED							<b>DBL</b> Black
<b>150MHC</b> MED <sup>2</sup>							<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> Tennis green
							<b>DBR</b> Bright red
							<b>DSB</b> Steel blue

### NOTES

- Recommended for use with ceramic coated lamps.
- California Title 20 compliant. Not available with 347V.
- Ceramic ARC tube consistent-color lamp. Phillips Mastercolor or GE Constant Color.
- Only available 70W and 100W.
- Must specify 120 or 277 volt.
- Not available with EC or 347 volt.
- Must specify CGL for use with 150M.
- 150M only.
- Additional architectural colors available; please see Architectural Colors brochure 794.3.
- 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. Wires supplied by others.



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CH10 SHID-120

# 10" CH Open Reflector Cylinder

## Distribution curve

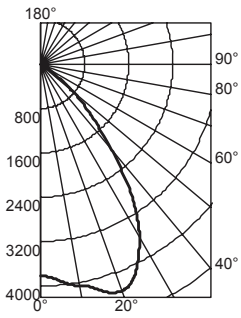
## Distribution data

## Output data

## Coefficient of utilization

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

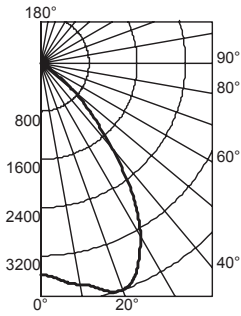
### CH10 100MHC 8AR, MHC100/C/U/M/4K lamp, 1.3 s/mh, 8700 rated lumens, Test No. LTL7958



Ave	Lumens	Zone	Lumens	% Lamp	pf	pc	pw	80%			70%			50%		
								50%	30%	10%	50%	30%	10%	50%	30%	10%
0°	3829	0° - 30°	3446	39.6	0			89	89	89	87	87	87	83	83	83
5°	3920	0° - 40°	5214	59.9	1			82	80	78	81	79	77	78	76	75
15°	4224	0° - 60°	6511	74.8	2			75	72	69	74	71	68	72	69	67
25°	4108	0° - 90°	6525	75.0	3			69	65	62	68	64	61	66	63	60
35°	2885	90° - 180°	0	0.0	4			64	59	55	63	58	55	61	57	54
45°	1291	0° - 180°	6525	75.0	5			59	54	50	58	53	50	56	52	49
55°	278				6			54	49	45	54	49	45	52	48	45
65°	8				7			50	45	41	50	45	41	49	44	41
75°	1				8			46	41	38	46	41	38	45	41	38
85°	0				9			43	38	35	43	38	35	42	38	35
90°	0				10			40	35	32	40	35	32	39	35	32

Mounting Height	Initial Center Beam	50% beam		10% beam	
		Diameter	FC	Diameter	FC
8.0	126.6	7.1	63.3	11.5	12.7
10.0	68.1	9.7	34.0	15.6	6.8
12.0	42.4	12.2	21.2	19.8	4.2
14.0	29.0	14.8	14.5	24.0	2.9
16.0	21.0	17.4	10.5	28.2	2.1

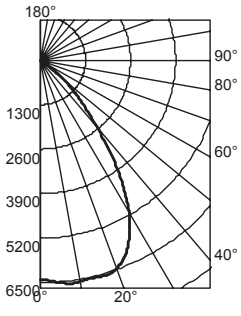
### CH10 100MHC 8AR CGL, MHC100/C/U/M/4K lamp, 1.3 s/mh, 8700 rated lumens, Test No. LTL8011



Ave	Lumens	Zone	Lumens	% Lamp	pf	pc	pw	80%			70%			50%		
								50%	30%	10%	50%	30%	10%	50%	30%	10%
0°	3523	0° - 30°	3170	36.4	0			82	82	82	80	80	80	77	77	77
5°	3606	0° - 40°	4797	55.1	1			76	74	72	74	72	71	71	70	69
15°	3886	0° - 60°	5990	68.8	2			69	66	64	68	65	63	66	64	62
25°	3779	0° - 90°	6003	69.0	3			64	60	57	63	59	56	61	58	55
35°	2654	90° - 180°	0	0.0	4			59	54	51	58	54	51	56	53	50
45°	1188	0° - 180°	6003	69.0	5			54	49	46	53	49	46	52	48	45
55°	256				6			50	45	42	49	45	42	48	44	41
65°	7				7			46	41	38	46	41	38	45	41	38
75°	1				8			43	38	35	42	38	35	42	37	35
85°	0				9			40	35	32	39	35	32	39	35	32
90°	0				10			37	33	30	37	32	29	36	32	29

Mounting Height	Initial Center Beam	50% beam		10% beam	
		Diameter	FC	Diameter	FC
8.0	116.5	7.1	58.2	11.5	11.7
10.0	62.6	9.7	31.3	15.6	6.3
12.0	39.0	12.2	19.5	19.8	3.9
14.0	26.6	14.8	13.3	24.0	2.7
16.0	19.3	17.4	9.7	28.2	1.9

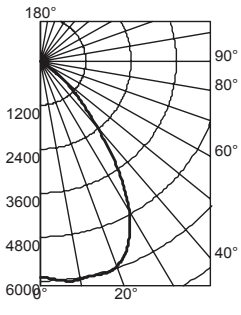
### CH10 150M 8AR, MP150/C/U/MED lamp, 1.2 s/mh, 12000 rated lumens, Test No. LTL7959



Ave	Lumens	Zone	Lumens	% Lamp	pf	pc	pw	80%			70%			50%		
								50%	30%	10%	50%	30%	10%	50%	30%	10%
0°	6416	0° - 30°	5191	43.3	0			91	91	91	89	89	89	85	85	85
5°	6522	0° - 40°	7564	63.0	1			84	82	80	82	80	79	79	78	76
15°	6554	0° - 60°	9134	76.1	2			77	74	71	76	73	70	73	71	69
25°	5982	0° - 90°	9144	76.2	3			71	67	63	70	66	63	68	65	62
35°	3857	90° - 180°	0	0.0	4			66	61	57	65	60	57	63	59	56
45°	1578	0° - 180°	9144	76.2	5			61	56	52	60	55	52	58	54	51
55°	304				6			56	51	47	56	51	47	54	50	47
65°	6				7			52	47	43	52	47	43	51	46	43
75°	0				8			49	43	40	48	43	40	47	43	40
85°	0				9			45	40	37	45	40	37	44	40	37
90°	0				10			42	38	34	42	37	34	41	37	34

Mounting Height	Initial Center Beam	50% beam		10% beam	
		Diameter	FC	Diameter	FC
8.0	212.1	6.5	106.1	10.7	21.2
10.0	114.1	8.8	57.0	14.5	11.4
12.0	71.1	11.2	35.5	18.4	7.1
14.0	48.5	13.5	24.3	22.3	4.9
16.0	35.2	15.9	17.6	26.2	3.5

### CH10 150M 8AR CGL, MP150/C/U/MED lamp, 1.2 s/mh, 12000 rated lumens, Test No. LTL8012



Ave	Lumens	Zone	Lumens	% Lamp	pf	pc	pw	80%			70%			50%		
								50%	30%	10%	50%	30%	10%	50%	30%	10%
0°	5903	0° - 30°	4775	39.8	0			83	83	83	82	82	82	78	78	78
5°	6000	0° - 40°	6959	58.0	1			77	75	73	76	74	72	73	71	70
15°	6030	0° - 60°	8403	70.0	2			71	68	65	70	67	64	67	65	63
25°	5503	0° - 90°	8412	70.1	3			65	61	58	64	61	58	62	59	57
35°	3548	90° - 180°	0	0.0	4			60	56	53	59	55	52	58	54	52
45°	1452	0° - 180°	8412	70.1	5			56	51	48	55	51	48	54	50	47
55°	280				6			52	47	44	51	47	43	50	46	43
65°	6				7			48	43	40	47	43	40	47	43	40
75°	0				8			45	40	37	44	40	37	43	39	37
85°	0				9			42	37	34	41	37	34	41	37	34
90°	0				10			39	35	32	39	34	31	38	34	31

Mounting Height	Initial Center Beam	50% beam		10% beam	
		Diameter	FC	Diameter	FC
8.0	195.1	6.5	97.6	10.7	19.5
10.0	104.9	8.8	52.5	14.5	10.5
12.0	65.4	11.2	32.7	18.4	6.5
14.0	44.6	13.5	22.3	22.3	4.5
16.0	32.4	15.9	16.2	26.2	3.2

#### 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-120

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