

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.

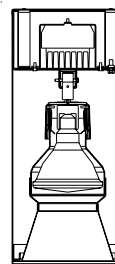
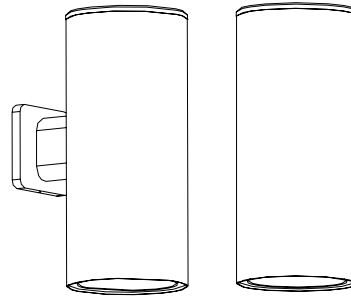
ELECTRICAL SYSTEM

- Medium-base porcelain socket with nickel-plated screw shell.
- Removable, pre-wired, 120 to 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: 6-1/4 (15.9)
Housing Diameter: 7-5/8 (19.4)
Housing Height: 17-3/8 (44.0)

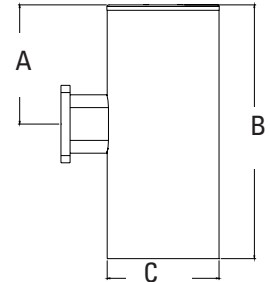
All dimensions are inches (centimeters)

HID Surface Downlights

8" CH

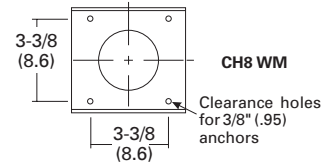
Cylinder

PAR Metal Halide



A: 8-1/8 (20.7)
B: 17-3/8 (44.1)
C: 7-5/8 (19.4)

Wall Mount Bracket



ORDERING INFORMATION

Example: **CH8 P3070MHC 6AR MVOLT FCM DWHG**

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

CH8		Aperture/Trim color		Finish	Voltage	Mounting	Options
Series	Wattage/lamp	6AR	Clear	(blank)	MVOLT	FCM	SF² Single fuse
CH8	Color-Corrected Metal Halide¹	6PR	Pewter	Semi-specular	120	Ceiling mount	QRS³ Quartz restrike system
	P2039MHC 39W PAR20	6WTR	Wheat	LD Matte-diffuse	277	WM Wall mount	EC⁴ Emergency circuit
	P3039MHC 39W PAR30	6BR	Black		347⁴	PM Pendant 3/8" thread mount	LPFL Lamp, Flood (shipped separately)
	P3070MHC 70W PAR30						LPSP Lamp, Spot (shipped separately)
							Housing Colors⁵
							DWHG Matte white (standard)
							DDB Dark bronze
							DBL Black
							DWH Gloss white
							DMB Medium bronze
							DNA Natural aluminum
							DSS Sandstone
							DGC Charcoal gray
							DTG Tennis green
							DBR Bright red
							DSB Steel blue

Pendany Accessories (Shipped Separately)

(Specify length and Color)

CYS⁵ 3/8" stem and canopy with 5° "hang straight" swivel

CRS⁵ 3/8" stem and canopy with 45° swivel

NOTES

- 1 Ceramic ARC tube consistent-color lamp. Phillips Mastercolor or GE Constant Color.
- 2 Must specify 120 or 277 volt.
- 3 Not available with EC.
- 4 Not available with QRS.
- 5 Additional architectural colors available; please see Architectural Colors brochure 794.3.
- 6 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.

8" CH Open Reflector Cylinder, PAR Lamp

Distribution curve

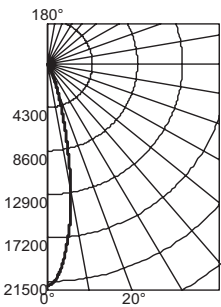
Distribution data

Output data

Coefficient of utilization

Illuminance Data at 30" Above Floor for a Single Luminaire

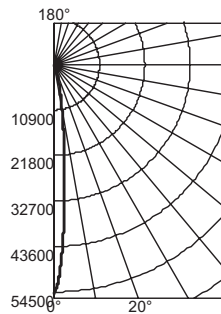
CH8 P3070MHC/FL 6AR, MCP70PAR30LN/U/830/FL lamp, 0.4 s/mh, 4400 rated lumens, Test No. LTL12839



Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%		
						pc	pw	50%	30%	10%	50%	30%	10%	50%
0°	21893	0° - 30°	4010	91.1	0	112	112	112	109	109	109	105	105	105
5°	18944	0° - 40°	4115	93.5	1	106	105	103	104	103	102	101	100	98
15°	6286	0° - 60°	4137	94.0	2	102	99	97	100	98	96	97	95	94
25°	1277	0° - 90°	4141	94.1	3	98	94	92	96	93	91	94	92	90
35°	125	90° - 180°	0	0.0	4	94	90	88	93	90	87	91	88	86
45°	23	0° - 180°	4141	94.1	5	91	87	84	90	87	84	89	86	83
55°	5				6	88	84	81	87	84	81	86	83	81
65°	0				7	85	81	79	85	81	79	84	81	78
75°	1				8	83	79	77	82	79	76	82	78	76
85°	0				9	81	77	74	80	77	74	79	76	74
90°	0				10	78	75	73	78	75	72	78	74	72

Mounting Height	Initial FC Center Beam	50° beam		10° beam	
		Diameter	FC	Diameter	FC
8.0	723.7	2.1	361.9	4.1	72.4
10.0	389.2	2.9	194.6	5.6	38.9
12.0	242.6	3.7	121.3	7.0	24.3
14.0	165.5	4.4	82.8	8.5	16.6
16.0	120.1	5.2	60.1	10.0	12.0

CH8 P3070MHC/FL 6AR SPOT, MCP70PAR30LN/U/830/SP lamp, 0.2 s/mh, 4400 rated lumens, Test No. LTL12838



Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%		
						pc	pw	50%	30%	10%	50%	30%	10%	50%
0°	54877	0° - 30°	3976	90.4	0	110	110	110	107	107	107	103	103	103
5°	29137	0° - 40°	4040	91.8	1	105	103	102	103	102	100	99	98	97
15°	4356	0° - 60°	4055	92.2	2	101	98	96	99	97	95	96	95	93
25°	1009	0° - 90°	4063	92.3	3	97	94	92	96	93	91	94	92	90
35°	73	90° - 180°	0	0.0	4	94	91	89	93	90	88	91	89	87
45°	11	0° - 180°	4063	92.3	5	92	88	86	91	88	85	89	87	85
55°	5				6	89	86	84	89	85	83	87	85	83
65°	2				7	87	84	81	87	83	81	86	83	81
75°	1				8	85	82	80	85	82	80	84	81	79
85°	7				9	83	80	78	83	80	78	82	80	78
90°	0				10	82	79	77	81	78	76	81	78	76

Mounting Height	Initial FC Center Beam	50° beam		10° beam	
		Diameter	FC	Diameter	FC
8.0	1814.1	1.0	907.4	2.6	181.4
10.0	975.6	1.4	488.0	3.5	97.6
12.0	608.1	1.7	304.1	4.5	60.8
14.0	414.9	2.1	207.5	5.4	41.5
16.0	301.1	2.5	150.6	6.3	30.1

NOTES:

1. For electrical characteristics, refer to Technical Bulletins tab.
2. 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-110

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Rev 2/10

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