

FEATURES

OPTICAL SYSTEM

- Self-flanged semi-specular or matte-diffuse reflector. 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.
- Marine-grade die-cast aluminum bezel, low copper alloy (<1% copper). Matte white (DWHG) standard. Stainless steel Torx® T20 tamper-resistant screws.
- Perimeter lens gasket is one-piece closed-cell silicone "O" ring. Perimeter ceiling gasket is closed-cell silicone that seals bezel to ceiling.

MECHANICAL SYSTEM

- 16-gauge galvanized steel mounting/plaster frame with integral yoke to retain optical system. Maximum 7/8" thick ceiling.
- 16-gauge galvanized steel mounting bars with continuous 4" vertical adjustment are shipped pre-installed. Post-installation adjustment possible from above or below ceiling.
- Galvanized steel junction box with hinged access covers with spring latch. Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90°C.

ELECTRICAL SYSTEM

- Die-cast aluminum lampholder housing.
- Medium-base porcelain socket with nickel-plated screw shell.
- Pre-wired, encased-and-potted, 120/277V or 120/347V ballast tray module. Module can be attached before or after installation of mounting/plaster frame.
- Metal halide: 150W is standard with electronic ballast.
- Thermally-activated insulation detector.

LISTING

- Fixtures are UL Listed for thru-branch wiring, non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian standards.
- IP55 rating (below the mounting surface) is standard. IP65 rating possible with the use of silicone. Refer to TECH-200 for ingress protection ratings.

WARRANTY

- 1-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Type

Catalog number

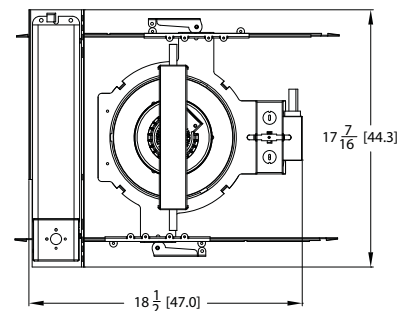


Vandal Resistant HID Downlights

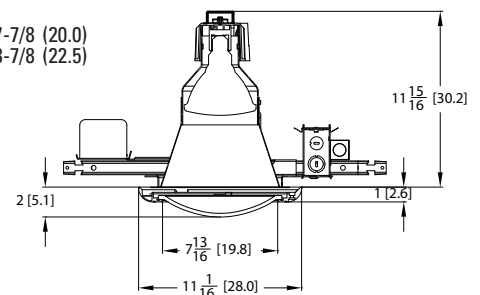
8" VRAPRH

Lightshield™

PAR38 Lamp



Aperture: 7-7/8 (20.0)
Ceiling opening: 8-7/8 (22.5)



All dimensions are inches (centimeters).

ORDERING INFORMATION

Example: **VRAPRH P3870MHC 8AR CGL 120 DWHG**

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog numbers (shipped separately).

VRAPRH

Series	Aperture/Trim color	Finish	Voltage	Options
VRAPRH	8AR Clear 8BR² Black 8PR Pewter 8WTR Wheat 8WR² White painted	(blank) Semi-specular LD Matte-diffuse	120 277 347⁴	HEB⁵ Electronic ballast LRC⁶ Provides compatibility with Lithonia Reloc® System. Lithonia Reloc System can be installed less this option with connectors provided by others. Access above ceiling required SF Single fuse CP Chicago plenum LPFL Flood lamp (shipped separately) LPSP Spot lamp (shipped separately) LPWFL Wide flood lamp (shipped separately) QRS⁷ Quartz restrike system QRSTD⁸ Quartz restrike system with time delay EC⁹ Emergency circuit WG Zinc-plated wire guard
Lamp designation	Lens type			PCU^{10,11} 3/16" clear polycarbonate lens underlay (roomside) Architectural Colors - Powder Paint¹² DWHG Matte white (standard) DDB Dark bronze DBL Black DWH Gloss white DMB Medium bronze DNA Natural aluminum Architectural Colors - Plating PWR Pewter SCH Satin chrome ORB Oil-rubbed bronze
Metal Halide P3870M 70W PAR38 P38100M 100W PAR38 Ceramic Metal Halide P3870MHC 70W PAR38 P38100MHC 100W PAR38 P38150MHC¹ 150W PAR38	CGL³ 1/8" safety glass lens T73³ 3/16" tempered prismatic lens FOL³ 1/8" tempered flush opal glass lens CVX³ 3/16" clear convex glass lens			

NOTES

- California Title 20 compliant.
- Not available with finishes.
- Maximum wattage: 150W.
- Not available with HEB.
- MHC lamps only.
- For compatible Reloc systems, refer to TECH-110.
- Not available with QRSTD or EC.
- Not available with QRS or EC.
- Not available with QRS or QRSTD.
- Maximum wattage: 100W.
- Not available with CVX lens.
- Additional architectural colors available; see www.lithonia.com/archcolors.

8" VRAPRH Lightshield™

Distribution curve	Distribution data			Output data			Coefficient of utilization						Single luminaire data 30" above floor								
VRAPRH 150MHC 8AR CGL, (1) 150W clear PAR38 MH lamp, 9100 rated lumens, 0.4 s/mh Test No. LTL20782																					
		Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%			50% beam -		10% beam -		
							pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	21.5°	42.6°			
	0°	0	33103	0° - 30°	6313.4	69.4	0	87	87	87	85	85	85	81	81	81					
	5°	5	28344	0° - 40°	6551.5	72.0	1	83	81	80	81	80	79	78	77	76					
	15°	15	10084	0° - 60°	6644.2	73.0	2	79	77	75	78	76	74	75	74	72					
	25°	25	2278	0° - 90°	6672.6	73.3	3	75	73	71	74	72	70	73	71	69					
	35°	35	306	90° - 180°	0.0	0.0	4	72	69	67	72	69	67	70	68	66					
	45°	45	88	0° - 180°	6672.6	*73.3	5	70	67	64	69	66	64	68	65	64					
	55°	55	21	*Efficiency			6	67	64	62	67	64	62	66	63	61					
	65°	65	13				7	65	62	60	65	62	60	64	61	59					
	75°	75	10				8	63	60	58	63	60	58	62	59	58					
	85°	85	10				9	61	58	56	61	58	56	60	58	56					
	90°	90	1				10	60	57	55	59	56	55	59	56	54					
															Mounting		Initial FC				
															Height	Center	Beam	Diameter	FC	Diameter	FC
															8.0	1094.3	2.1	547.1	4.3	109.4	
															10.0	588.5	2.8	294.2	5.8	58.8	
															12.0	366.8	3.6	183.4	7.4	36.7	
															14.0	250.3	4.4	125.1	9.0	25.0	
															16.0	181.6	5.1	90.8	10.5	18.2	

VRAPRH 150MHC 8AR T73, (1) 150W clear PAR38 MH lamp, 9100 rated lumens, 0.6 s/mh Test No. LTL20783

	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%			50% beam -		10% beam -		
						pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	33.6°		62.1°		
	0	12313	0° - 30°	4872.7	53.5	0	83	83	83	81	81	81	78	78	78					
	5	11711	0° - 40°	5687.2	62.5	1	77	76	74	76	74	73	73	72	71					
	15	7860	0° - 60°	6164.5	67.7	2	72	69	67	71	68	66	69	67	65					
	25	3589	0° - 90°	6365.0	69.9	3	68	64	61	67	63	61	65	62	60					
	35	1257	90° - 180°	0.0	0.0	4	63	60	57	63	59	57	61	58	56					
	45	408	0° - 180°	6365.0	*69.9	5	60	56	53	59	56	53	58	55	52					
	55	156	*Efficiency			6	57	53	50	56	52	50	55	52	49					
	65	110				7	54	50	47	53	49	47	52	49	47					
	75	70				8	51	47	44	51	47	44	50	47	44					
	85	20				9	49	45	42	48	45	42	48	44	42					
	90	2				10	46	43	40	46	43	40	46	42	40					
														Mounting	Initial FC					
														Height	Center	Beam	Diameter	FC	Diameter	FC
														8.0	407.0	3.3	203.5	6.6	40.7	
														10.0	218.9	4.5	109.5	9.0	21.9	
														12.0	136.4	5.7	68.2	11.4	13.6	
														14.0	93.1	6.9	46.6	13.8	9.3	
														16.0	67.6	8.1	33.8	16.3	6.8	

- 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.
 - Consult factory or IES file for microgroove baffle, black cone and other photometric reports.
 - Actual performance may differ as a result of end-user environment and application.

VHID-690

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