

DESCRIPTION

Recessed 8 inch aperture open downlight for vertical 100W maximum A19, PAR20, PAR30L, PAR38 or BR40 lamp. Fixture is suitable for commercial construction. Insulation must be kept 3" from top and sides of housing. Specify housing and trim separately to complete luminaire.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

MECHANICAL  
Frame

Boat shaped galvanized steel frame with 1/2" plaster lip accommodates ceilings up to 2" thick. May be used for new construction or remodeling installations. Provided with (2) remodel clips to secure frame when installed from below the ceiling.

Mounting Brackets

Bar hanger receivers adjusts 2" vertically from above the ceiling or thru the aperture. Use with No Fuss™ bar hangers or with 1/2" EMT. Removable to facilitate installation from below the ceiling.

No Fuss™ Bar Hangers

Pre-installed and centered bar hanger locks to tee grid with a screwdriver or pliers. Centering marks on the bar hanger mechanism allows consistent positioning of fixtures.

OPTICAL  
Reflector

Highly efficient one piece aluminum reflector provides for lamp and lamp image cutoff for a visually comfortable optic. Self flanged standard.

- **Specular Reflectors** - Polished flange standard with white painted flange option.
- **Baffles and White Reflector** - White painted flange standard.

Trim Retention

Reflector is retained with two torsion springs and held tightly to the finished ceiling surface.

ELECTRICAL  
Junction Box

(6) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (12) #12 AWG (six in, six out) 90°C conductors and feed thru branch wiring.

Lamp Socket

E26 medium base porcelain socket with nickel plated brass screw shell.

Socket Cap

One piece metal cap attached securely to reflector with turn and lock mechanism.

Insulation Detector

Self heating insulation detector opens circuit if insulation is improperly installed.

Code Compliance

- Thermally protected and cULus listed for damp locations.
- IP20 rated for open trims.



**PD8V120  
80V**

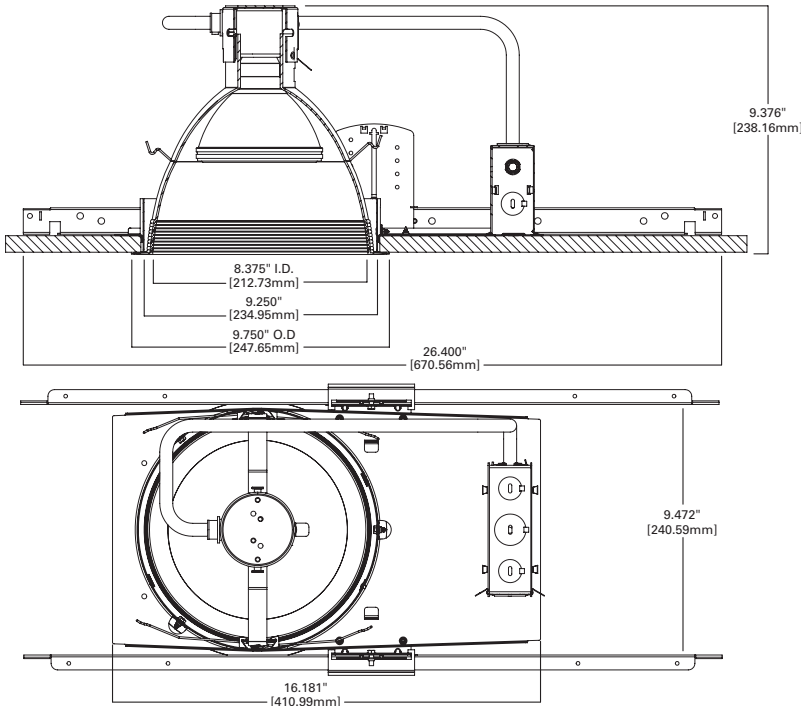
**Incandescent  
Tungsten-Halogen (IR)**  
**100W Max A19,  
PAR20, PAR30L,  
PAR38, BR40**

**LEDi Integrated  
(Self-ballasted)**  
**16W Max PAR38LED  
11W Max PAR30LED  
7W Max PAR20LED  
7W Max A19LED**

**8-Inch Aperture  
Open Downlight**

**New Construction or  
Remodel  
Non-IC**

DIMENSIONS



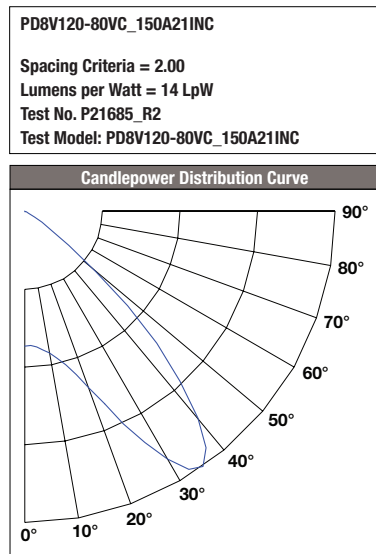
## ORDERING INFORMATION

SAMPLE NUMBER:PD8V120 80VC

Order housing, reflector and lamp separately for a complete luminaire.

<b>Housing</b> <b>PD8V120</b> = 8 Inch vertical, E26, 120V <b>PD8CPV120</b> = 8 Inch vertical E26, 120V CCEA listed (Chicago Plenum)		<b>Finish Option</b> <b>C</b> =Specular Clear <b>G</b> =Specular Gold <b>H</b> =Semi Specular Clear <b>W</b> =White (White Flange) <b>BB</b> =Black Baffle (White Flange) <b>WB</b> =White Baffle (White Flange)	<b>Flange Option</b> <b>Blank</b> =Polished Flange (C, G, H) <b>Blank</b> =White flange (W, BB, WB) <b>WF</b> =White Flange (C, G, H)	<b>Accessories</b> <b>HB128APK</b> = L channel hanger bar, 26", 'No-Fuss', pair (replacement) <b>RMB22</b> = 22" long wood joist mounting bars <b>H277</b> = 277V step down transformer, 300VA <b>H347</b> = 347V step down transformer, 75VA <b>H347200</b> = 347V step down transformer, 200VA
<b>Reflector</b> <b>80V</b> = 8" vertical				

## PHOTOMETRY



Candela Distribution	
Degrees Vertical	Candela
0*	531
5	538
15	628
25	925
35	1228
45	738
55	136
65	6
75	2
85	0
90	0

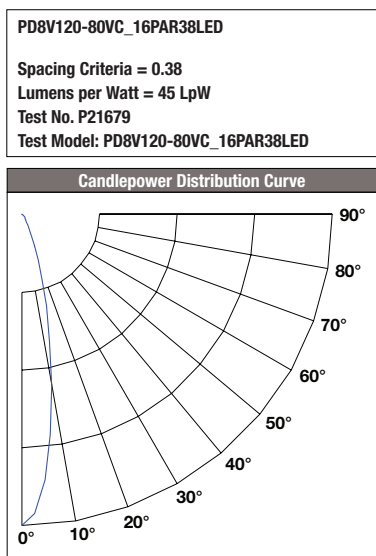
\*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	25510
55	5432
65	294
75	132
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5'	24	10.1	10.1
7'	15	12.8	12.8
8'	11	14.7	14.7
9'	9	16.5	16.5
10'	7	18.3	18.3
12'	5	22	22
14'	4	25.6	25.6

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.  
Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	670.43	24.10	31.60
0-40	1409.39	50.70	66.40
0-60	2108.76	75.90	99.30
0-90	2123.29	76.40	100.00



Candela Distribution	
Degrees Vertical	Candela
0*	2959
5	2536
15	914
25	231
35	66
45	49
55	16
65	0
75	0
85	0
90	0

\*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	1694
55	639
65	0
75	0
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5'	98	2.1	2.1
7'	60	2.6	2.6
8'	46	3	3
9'	37	3.4	3.4
10'	30	3.8	3.8
12'	21	4.5	4.5
14'	15	5.3	5.3

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.  
Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	585.39	N.A.	85.20
0-40	629.88	N.A.	91.70
0-60	686.41	N.A.	99.90
0-90	687.01	N.A.	100.00

Note: Specifications and Dimensions subject to change without notice.

Visit our web site at [www.cooperlighting.com](http://www.cooperlighting.com)