

## DESCRIPTION

Recessed 8 inch aperture lens downlight for vertical 100W maximum A19, PAR20, PAR30L, PAR38 or BR40 lamp. Fixture is suitable for commercial construction and wet location listed. 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 adjust 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

One piece aluminum reflector secures lens in place with integrated spring clips for a visually comfortable optic and allows for tool-less lens exchange from below the ceiling. Available with clear, diffuse, prismatic, fresnel or drop opal glass lens. 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 wet locations.
- IP44 rated for lens trims.



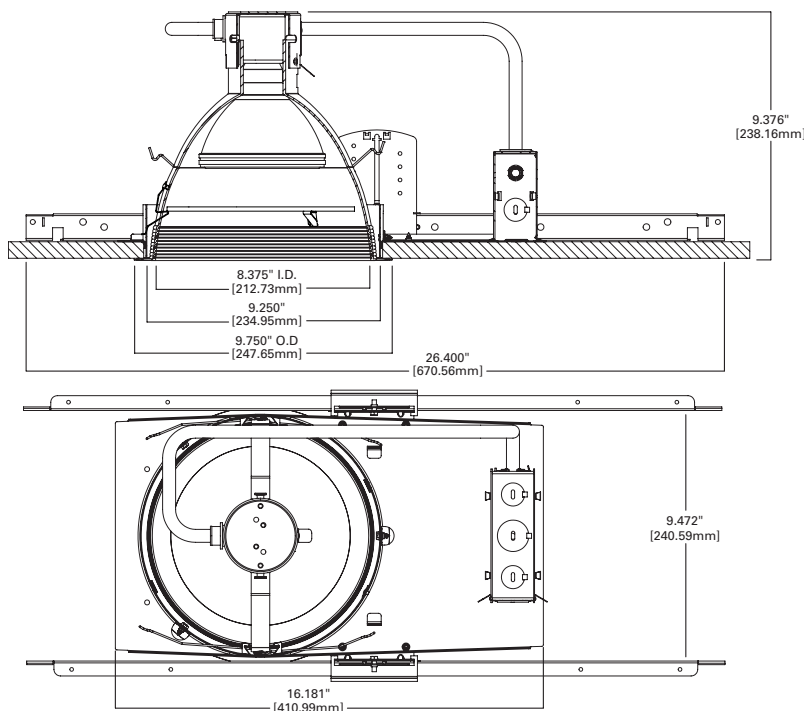
**PD8V120  
80V**

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

**8-Inch Aperture  
Lens Downlight**

**New Construction or  
Remodel  
Non-IC**

## DIMENSIONS



## ORDERING INFORMATION

SAMPLE NUMBER: PD8V120 80VL2C

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

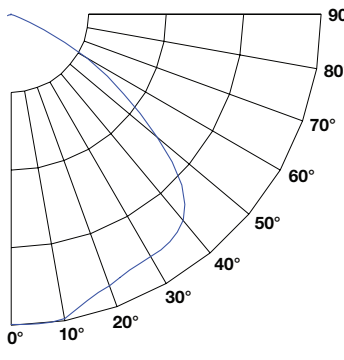
<b>Housing</b> <b>PD8V120</b> = 8 Inch vertical, E26, 120V <b>PD8CPV120</b> = 8 Inch vertical E26, 120V CCEA listed (Chicago Plenum)	<b>Lens Option</b> <b>1G</b> =Prismatic Glass <b>2G</b> =Diffuse Glass <b>3G</b> =Clear Glass <b>4G</b> =Fresnel Glass	<b>Finish Option</b> <b>C</b> =Specular Clear <b>G</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

PD8V120-80V1GC\_150A21INC

Spacing Criteria = 1.38  
Lumens per Watt = 12 LpW  
Test No. P21686\_R2  
Test Model: PD8V120-80V1GC\_150A21INC

Candlepower Distribution Curve



Candela Distribution	
Degrees Vertical	Candela
0*	721
5	721
15	688
25	655
35	645
45	561
55	321
65	85
75	4
85	1
90	0

\*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	19392
55	12821
65	4170
75	265
85	107

Cone of Light Footcandles

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5'	24	7.6	7.6
7'	15	9.7	9.7
8'	11	11	11
9'	9	12.4	12.4
10'	7	13.8	13.8
12'	5	16.5	16.5
14'	4	19.3	19.3

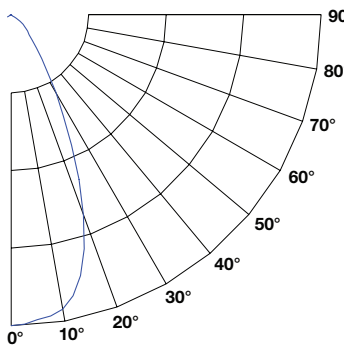
Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.  
Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	567.67	20.40	31.80
0-40	970.41	34.90	54.40
0-60	1682.07	60.50	94.20
0-90	1785.09	64.20	100.00

PD8V120-80V1GC\_16PAR38LED

Spacing Criteria = 0.80  
Lumens per Watt = 41 LpW  
Test No. P21680  
Test Model: PD8V120-80V1GC\_16PAR38LED

Candlepower Distribution Curve



Candela Distribution	
Degrees Vertical	Candela
0*	814
5	801
15	708
25	377
35	140
45	61
55	29
65	3
75	0
85	0
90	0

\*CBCP

Luminance

(Average Candela/M²)

Degree	Avg. 0° Luminance
45	2109
55	1158
65	147
75	0
85	0

Cone of Light Footcandles

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5'	27	4.3	4.3
7'	17	5.5	5.5
8'	13	6.3	6.3
9'	10	7.1	7.1
10'	8	7.9	7.9
12'	6	9.4	9.4
14'	4	11	11

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	442.94	N.A.	72.30
0-40	534.06	N.A.	87.20
0-60	608.39	N.A.	99.30
0-90	612.57	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)