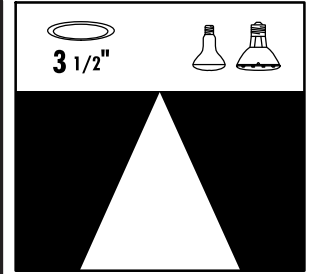
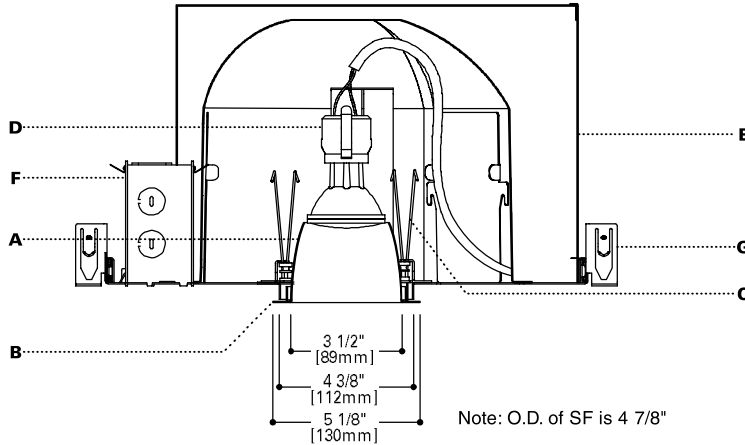


DESCRIPTION

Specification grade fixture rated for direct contact with insulation. The 50° cutoff to lamp and lamp image provides a glare free, smooth distribution of light. Accommodates PAR 20, PAR16, R20, and

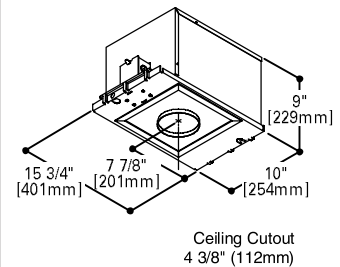
BR19 lamps. Halogen lamps provide excellent color and long life. **Optical element can be changed after installation to provide a variety of distributions. e.g. into an Adjustable**



**P3120
E3P20**

- 50W PAR20
- 60W PAR16
- 50W BR19
- 50W R20

3" DOWNLIGHT



SPECIFICATION FEATURES

A...Reflector

.040 thick aluminum spun parabolic reflector. Reflector is available in iridescent free Black, Clear, Gold, Haze, Warm Haze Alzak®, or painted gloss white finish. Special cone colors listed below.

B...Flange

Self flange reflector or die-cast flange with either matte white or clear coat finish. Die-cast flanges are easily removed for field painting. Elements are keyed for proper insertion.

C...Attachment

Positive torsion springs pull flange tight to ceiling. Mechanical light trap eliminates spill light at edge of flange or reflector.

D...Socket

Nickel plated porcelain socket. Two position socket ensures consistent lamp position.

E...Frame/Housing

Hot dipped galvanized 20 gauge steel frame with built in 1/2 inch plaster lip. Gunsights allow for consistent alignment. Aluminum .032 thick housing allows for heat dissipation and reduces weight. Matte black housing interior.

F...Junction Box

18 cubic inches, listed for 4#12 AWG or 6#14 AWG 90° C additional feed through conductors, has six 1/2 inch pryouts.

G...Bar Hangers

No Flex® bar hangers with positive locking, for use with wood, engineered wood and steel frame joists spaced up to 24" O.C. ship with platform. For use in T-bar ceilings order accessory MBCLP clips. Nailless barb and locator lip provide consistent installation height.

Codes

Thermally protected, IP labeled, for use in direct contact with insulation. Meets Washington State Air tight requirements, 1995 CABO Model Energy Code.

Labels

UL and cUL listed, standard damp label, IBEW union made.

ORDERING INFORMATION

Complete unit consists of a platform, and element

| Platform | Optical Element | Finish | Flange | Accessories |
|------------------------------------|--------------------------------------|--|---|--|
| P3120 | | | | |
| P3120=3" Airtight IC Rated Housing | E3P20= 3" PAR//R Downlight Reflector | Standard B=Black C=Clear H=Haze G=Gold WMH=Warm Haze W=Gloss White MW=Matte White Custom K=Cognac KH=Cognac Haze | Custom Cont. CC=Chocolate CCH=Chocolate Haze BU=Blush BUH=Blush Haze GP=Graphite GPH=Graphite Haze PN=Pine PNH=Pine Haze SK=Sky SKH=Sky Haze | Blank=White Die-cast SF=Self Flange Die-cast RAW=Natural Die-cast SFWF=Self Flange Painted White MBCLP=40 Push On T Bar Clips (for 10 Units) PLE3=Plaster Lip Extension for Max 2" Thick Ceiling FMC3=Flush Mount Collar |

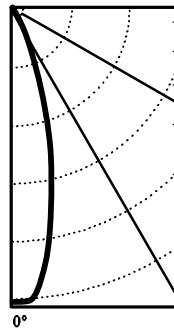
PHOTOMETRICS

P3120-E3P20C

Test No. H21032
 Lamp: 50PAR20NFL
 Lumens: 560
 Cutoff: 50°
 Spacing: 0.5
 Efficiency: 94.9%
 Unit LPW: 10.64

| Candelas | |
|----------------|------|
| Vertical Angle | CD |
| 90 | 0 |
| 85 | 0 |
| 75 | 0 |
| 65 | 0 |
| 55 | 0 |
| 45 | 50 |
| 35 | 37 |
| 25 | 218 |
| 15 | 822 |
| 5 | 1642 |
| 0 | 1699 |

Distribution



| Luminance | |
|-----------|-------------------|
| Degree | cd/m ² |
| 85° | 0 |
| 75° | 0 |
| 65° | 0 |
| 55° | 0 |
| 45° | 11388 |

Cone of Light

| Distance to Illuminated Plane | Initial Nadir Footcandles | Beam Diameter |
|-------------------------------|---------------------------|---------------|
| 4'6" | 83 | 2'0" |
| 5'6" | 56 | 2'6" |
| 6'6" | 40 | 3'0" |
| 8'0" | 26 | 4'0" |
| 10'0" | 17 | 5'0" |
| 12'0" | 12 | 6'0" |

Zonal Lumen Summary

| Zone | Lumens | %Lamp | %Luminaire |
|--------|--------|-------|------------|
| 0-30 | 472 | 84.2 | 88.7 |
| 0-40 | 499 | 89.1 | 93.8 |
| 0-60 | 532 | 95.0 | 100.0 |
| 0-90 | 532 | 95.0 | 100.0 |
| 90-180 | 0 | 0.0 | 0.0 |
| 0-180 | 532 | 95.0 | 100.0 |

Coefficient of Utilization

| Ceiling Reflectance | 80% | | 70% | | 50% | | 30% | | 0% | | | |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 | |
| Room Cavity Ratio | 0 | 113 | 113 | 113 | 113 | 110 | 110 | 106 | 106 | 101 | 101 | 95 |
| 1 | 110 | 108 | 106 | 104 | 106 | 103 | 102 | 100 | 98 | 97 | 92 | 92 |
| 2 | 106 | 103 | 100 | 98 | 102 | 97 | 99 | 95 | 96 | 93 | 90 | 90 |
| 3 | 103 | 99 | 96 | 94 | 98 | 93 | 96 | 92 | 94 | 90 | 88 | 88 |
| 4 | 101 | 96 | 92 | 90 | 95 | 89 | 93 | 88 | 91 | 87 | 85 | 85 |
| 5 | 98 | 93 | 89 | 86 | 92 | 86 | 90 | 85 | 89 | 85 | 83 | 83 |
| 6 | 95 | 90 | 86 | 84 | 89 | 83 | 88 | 83 | 87 | 82 | 81 | 81 |
| 7 | 93 | 87 | 83 | 81 | 86 | 80 | 85 | 80 | 84 | 80 | 78 | 78 |
| 8 | 90 | 84 | 81 | 78 | 84 | 78 | 83 | 78 | 82 | 77 | 76 | 76 |
| 9 | 88 | 82 | 78 | 76 | 81 | 76 | 81 | 75 | 80 | 75 | 74 | 74 |
| 10 | 86 | 80 | 76 | 74 | 79 | 73 | 79 | 73 | 78 | 73 | 72 | 72 |

Discontinued
14-08-2025

Notes and Formulas:

Luminance: To convert cd/m² to footlamberts, multiply by 0.2919

Cone of Light:

- 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. See page 64-65 of catalog.

CU Notes/Formulas:

- maintained illuminance = $\frac{\text{lamp lumens} \times \text{CU} \times \text{light loss factors}}{\text{room area}}$
- total number of luminaires = $\frac{\text{total room area} \times \text{maintained illuminance}}{\text{lamp lumens} \times \text{CU} \times \text{light loss factors}}$
- CU data based on 20% effective floor cavity reflectance.

Note: Specifications and Dimensions subject to change without notice.

Visit our web site at www.cooperlighting.com

