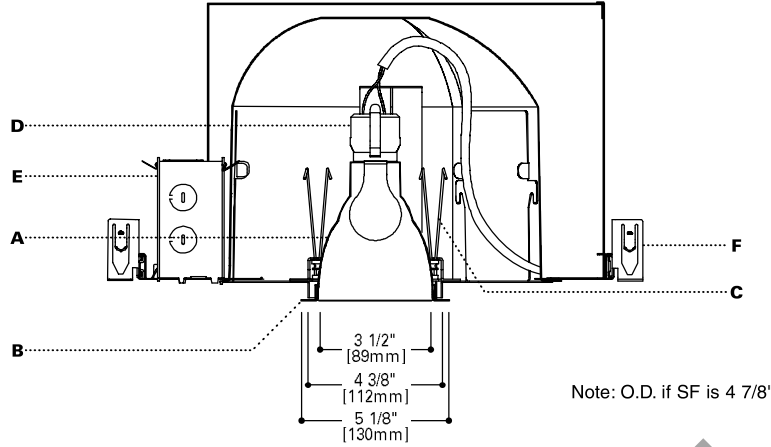


**DESCRIPTION**

Specification grade A lamp fixture rated for direct contact with insulation. The 50° cutoff to lamp and lamp image provides a glare free, smooth distribu-

tion of light. **Optical element can be changed after installation to provide a variety of distributions. e.g. into a Wall Wash.**



**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. 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**

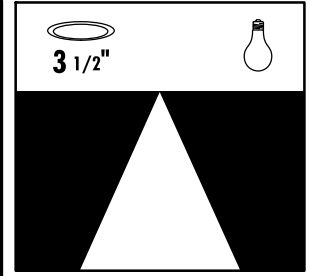
No Flex® bar hangers with positive locking, for use with wood, engineered wood and steel frame joists spaced up to 24" O.C. ship with platform. For use in T-bar ceilings order accessory MBCLP. Nailless barb and locator lip provide consistent installation height.

**Codes**

Thermally protected, IP labeled, meets Air tight requirements of 1995 CABO Model Energy Code.

**Labels**

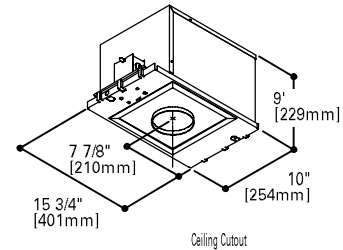
UL and cUL listed, standard damp label, IBEW union made.



**P3120  
E3A19**

- 60 W A 19
- 60 W MB 19
- 60 W BT 15
- 50 W TB 19

**3" DOWNLIGHT**



Ceiling Cutout

**ORDERING INFORMATION**

Complete unit consists of a platform, and element

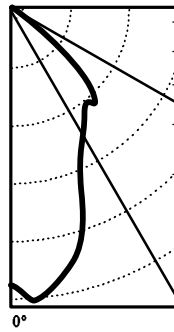
Platform	Optical Element	Finish	Flange	Accessories
<b>P3120</b>				
P3120= 3" Airtight IC Rated Housing	E3A19 = A Lamp Downlight Reflector	<b>Standard</b> B=Black C=Clear H=Haze G=Gold WMH=Warm Haze W=Gloss White MW= Matte White <b>Custom</b> K=Cognac KH=Cognac Haze	<b>Custom Cont.</b> CC=Chocolate CCH=Chocolate 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

**P3120-E3A19C**

Test No. H21301  
 Lamp: 60A19/IF  
 Lumens: 890  
 Cutoff: 50°  
 Spacing: 1.0  
 Efficiency: 48.2%

Candelas	
Vertical Angle	CD
90	0
85	0
75	1
65	2
55	49
45	86
35	139
25	240
15	313
5	328
0	316

**Distribution**



**Luminance**

Degree	cd/m²
85°	739
75°	373
65°	762
55°	13730
45°	19518

**Cone of Light**

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4'0"	20	4'0"
6'0"	9	6'0"
7'7"	7	7'0"
8'0"	5	8'0"
9'0"	4	9'0"
10'0"	3	10'0"

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Luminaire
0-30	229	25.7	53.3
0-40	316	35.5	73.7
0-60	425	47.8	99.0
0-90	429	48.2	100.0
90-180	0	0.0	0.0
0-180	429	48.2	100.0

**Coefficient of Utilization**

Ceiling Reflectance	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall Reflectance	70	50	30	10	50	10	50	10	50	10	0	
Room Cavity Ratio	0	57	57	57	57	56	56	54	54	51	51	48
1	54	53	51	50	52	49	50	48	48	46	44	
2	51	48	46	44	47	44	46	43	44	42	40	
3	48	44	41	39	43	39	42	38	41	38	36	
4	45	41	37	35	40	35	39	34	38	34	33	
5	42	37	34	32	37	31	36	31	35	31	30	
6	39	34	31	29	34	29	33	28	33	28	27	
7	37	32	29	26	32	26	31	26	30	26	25	
8	35	30	26	24	29	24	29	24	28	24	23	
9	33	28	24	22	27	22	27	22	26	22	21	
10	31	26	23	21	26	21	25	20	25	20	20	

**P3120-E3A19C**

Test No. H21302  
 Lamp: BC60BT15/HALW-120  
 Lumens: 840  
 Cutoff: 50°  
 Spacing: 1.0  
 Efficiency: 40.5%

Candelas	
Vertical Angle	CD
90	0
85	0
75	0
65	1
55	25
45	109
35	129
25	157
15	205
5	226
0	212

**Distribution**



**Luminance**

Degree	cd/m²
85°	554
75°	249
65°	419
55°	7047
45°	24825

**Cone of Light**

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4'0"	14	3'9"
6'0"	6	5'8"
7'0"	5	6'8"
8'0"	3	7'8"
9'0"	3	8'7"
10'0"	2	9'7"

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Luminaire
0-30	152	18.1	44.6
0-40	233	27.7	68.4
0-60	338	40.3	99.3
0-90	340	40.5	100.0
90-180	0	0.0	0.0
0-180	340	40.5	100.0

**Coefficient of Utilization**

Ceiling Reflectance	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall Reflectance	70	50	30	10	50	10	50	10	50	10	0	
Room Cavity Ratio	0	48	48	48	48	47	47	45	45	43	43	41
1	46	44	43	42	43	41	42	40	40	39	37	
2	43	40	38	37	40	36	38	36	37	35	33	
3	40	37	34	32	36	32	35	32	34	31	30	
4	37	34	31	29	33	29	32	28	31	28	27	
5	35	31	28	26	30	26	30	25	29	25	24	
6	33	28	25	23	28	23	27	23	27	23	22	
7	31	26	23	21	26	21	25	21	25	21	20	
8	29	24	21	19	24	19	23	19	23	19	18	
9	27	22	19	17	22	17	22	17	21	17	17	
10	25	21	18	16	21	16	20	16	20	16	15	

**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:**

- $\text{maintained illuminance} = \frac{\text{lamp lumens} \times \text{CU} \times \text{light loss factors}}{\text{room area}}$
- $\text{total number of luminaires} = \frac{\text{total room area} \times \text{maintained illuminance}}{\text{lamp lumens} \times \text{CU} \times \text{light loss factors}}$
- 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](http://www.cooperlighting.com)