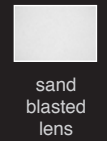
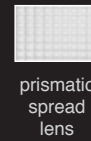
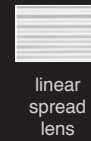
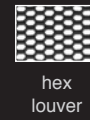
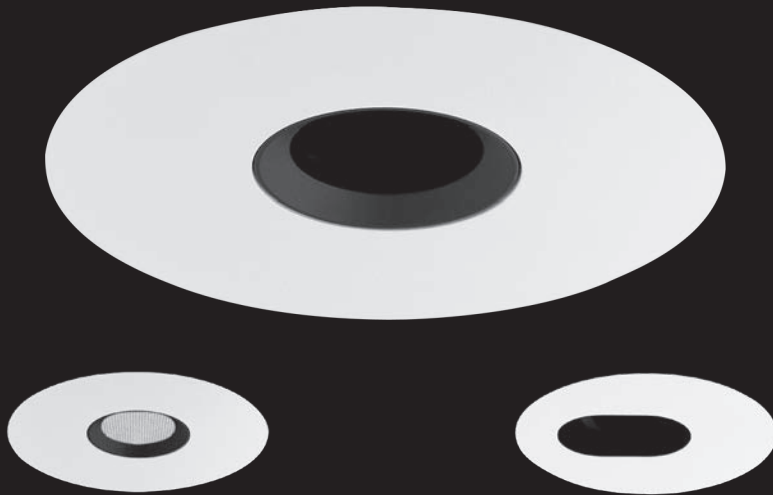


# id<sup>®</sup> 1" Round

HALOGEN MR16 PINHOLE/SLOT, WOOD/NON-DRYWALL HARD CEILING



## DIMENSIONAL DATA

**0-45° accent pinhole/slot**  
trim with adjustment mechanism

**downlight pinhole**  
trim with fixed lamp tray

1 1/8"  
28mm

4 9/16"  
102mm

2 1/8"  
54mm

1 25/64"  
35mm

4 9/16"  
102mm

1 1/8"  
28mm

4 9/16"  
102mm

**IC (air-tight)**  
16 1/2" x 10" x 9" h

ceiling cutout  
dimensions: 4 11/16"

location template  
and depth guide

## FEATURES

Trims designed to integrate flush with wood or other non-drywall solid ceilings for a seamless appearance. Template available for precision cutting of ceiling material.

Gloves Off™ hot aiming made simple with 45° vertical and 363° horizontal adjustment.

Auto Memory remembers original lamp position after relamping.

Perfect Fit™ installation provides seamless integration in plaster, drywall and acoustical tiles, while maintaining optics in any ceiling thickness.

Smart Lock™ ring allows quick removal and re-assembly of trim components for field painting.

## PERFORMANCE

**PRODUCT OVERVIEW**

Lumen Output: 94-590lm

Wattage: 20-50W

Lamping: MR16

Accent Pinhole with Black Bevel

Q71MR16/C/NSP15

**3018 cd @ 30° (30° tilt)**

Visit [focalpointlights.com](http://focalpointlights.com) for complete photometric data.

fixture:

project:

## HOUSING SPECIFICATIONS

### Lamp

Halogen MR16 lamp provides numerous beam options from 10° to 40° (60° not recommended).

### Construction

(IC) Insulated ceiling housing for new construction applications with direct insulation contact. Unit is constructed of double wall 18ga. aluminum housing on a 20ga. CRS frame. Housing ships standard with locking bar hangers. Transformers and thermal protectors are accessible from below ceiling. Housing is gasketed and complies with ASTM E-283, air-tight energy codes. Fixture will not exceed 11lbs.

### Electrical

Porcelain bi-pin socket with #18 Teflon leads with keyed quick connection. Acoustically isolated transformer, replaceable from below, mounted outside of housing to ensure cool operation and minimize hum. Transformers available in either electronic or magnetic 120V or 277V. For residential dimming applications, toroidal magnetic transformer is available. Large junction box with pryouts. UL & cUL listed for thru branch wiring and two #14 90°C conductors for IC housing.

### Installation

Adjustable throat allows infinite adjustment within specified range and locks with supplied 9/64" hex driver. Housing ships with laser/string alignment guides, dust cover and trim location template. Installation Kit: 1/2" thick UHMW template, depth guide and location templates for wood ceiling installations

## TRIM SPECIFICATIONS

### Aesthetics

Diminutive black knife edge baffle minimizes brightness. Truncated Specular black reflector cone above ensures glare free optics. Reflector is .040" spun aluminum. Matte white finish may be used as a primer coat for field painting. Smart Lock™ ring allows disassembly for custom field painting.

### Adjustment Mechanism

Mechanism is matte black finish and holds lamp and lenses independently. Tempered soft focus lens supplied as standard. Hot aiming with Phillips screwdriver allows for 45° vertical tilt, and 363° rotation and locks into position. Mechanism pulls down for quick and easy relamping. Vertical angle and horizontal rotation indicators display positioning (PIN, PL, SLOT). Auto Memory returns lamp to preset aiming position (PIN, PL, SLOT) or keeps lamp in a straight down aiming position (PINF). Lens tray can hold up to two (PINF) or three (PIN, PL, SLOT) accessories, up to 3/8" thick. Lenses remain undisturbed during relamping.

### Optics

50° cutoff to the lamp and the lamp image. Tempered 2" diameter Solite lens held over aperture via radial spring (PL). Aperture bevels back for reduction of aperture brightness (SLOT).

### Construction

Trim stays captive to housing during relamping via torsion springs. Torsion springs pull trim tight to the ceiling. No visible fasteners within the trim. Mechanical light traps eliminate light leaks. Warp free die-cast aluminum faceplate, .040" thick flange.

### Labels

UL & cUL listed, Damp label standard (PIN, SLOT). Wet label standard (PL). No visible labels when trim is installed.

## HOUSING ORDERING

<b>Housing Series</b>		<b>FD4</b>
Halogen Housing	FD4	
<b>Lamp</b>		<b>MR</b>
MR16 Lamp	MR	
<b>Transformer Type</b>		
Electronic Dimming 120V, 11.7V	E1	
Electronic Dimming 277V, 11.7V	E2	
Toroidal Dimming 120V	M1T	
<b>Faceplate Type</b>		<b>RFN</b>
Round—Non—Drywall Hard Ceiling (Ex. wood, stone)	RFN	
<b>Housing Type</b> (50W max.)		
New Construction IC Rated, up to 1-5/8" ceilings	IC	
New Construction IC Rated, 1-1/2" to 2-1/2" ceilings	IC2	
New Construction IC Rated, 2-1/2" to 3-1/2" ceilings	IC3	
<b>Factory Options</b>		
Wattage Restriction Label (XX=wattage)	WRXX	
Installation Kit (1/2" thick UHMW template, depth guide and location templates for wood ceiling installations; order one per project)	FD4-WK	
<b>TRIM ORDERING</b>		
<b>Trim Aperture</b>		<b>D1</b>
1-1/8" Aperture	D1	
<b>Faceplate Type</b>		<b>RFN</b>
Round—Non—Drywall Hard Ceiling	RFN	
<b>Optic</b>		
Fixed Downlight Pinhole with Black Bevel	PINF	
Fixed Downlight Pinhole without Bevel	PINXF	
Accent Pinhole with Black Bevel	PIN	
Accent Pinhole without Bevel	PINX	
Accent Pinhole Lens with Black Bevel	PL	
Slot Oval Aperture	SLOT	
<b>Faceplate Finish</b>		
White	WH	
Black	BK	
Titanium Silver	TS	
Aluminum Raw	AL	
<b>Lens Accessories</b> (Soft focus lens supplied as standard)		
Hex Louver	HL	
Linear Spread Lens	LSL	
Prismatic Spread Lens	PSL	
Sand Blasted Lens	SBL	
Clear Lens	CL	
UV Lens	UVL	

A complete unit consists of two line items, housing and trim.  
Focal Point recommends one Installation Kit per project.  
Eexample: FD4-MR-E1-RFN-IC-FD4-WK | D1-RFN-PIN-WH

# id<sup>®</sup> 1" Round

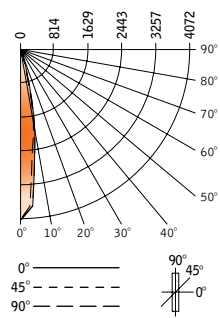
HALOGEN MR16 PINHOLE - 71W, NARROW SPOT

## FD4-MR / D1-RO-PIN-WH

0° Filename: D1RXPINHA71NS15\_0.ies  
 0° Test #: 13547.0  
 0° Efficiency: 48%

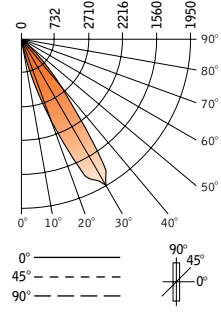
30° Filename: D1RXPINHA71NS15\_30.ies  
 30° Test #: 13548.0  
 30° Efficiency: 37%

### CANDLEPOWER DISTRIBUTION - 0° TILT



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	4072	4072	4072	4072	4072
5°	3691	3702	3744	3698	3670
15°	645	770	797	792	636
25°	81	112	107	77	47
35°	10	14	13	8	6
45°	2	3	2	0	0
55°	0	0	0	0	0
65°	0	0	0	0	0
75°	0	0	0	0	0
85°	0	0	0	0	0
90°	0	0	0	0	0

### CANDLEPOWER DISTRIBUTION - 30° TILT

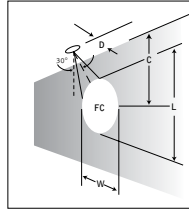
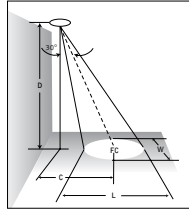


Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	22	22	22	22	22
5°	72	61	42	30	20
15°	732	574	206	41	11
25°	2710	1501	267	29	7
35°	2216	790	83	9	2
45°	322	165	11	2	0
55°	29	13	3	0	0
65°	2	0	0	0	0
75°	0	0	0	0	0
85°	0	0	0	0	0
90°	0	0	0	0	0

### FOOTCANDLE VALUES

0° aiming angle - horizontal surface

D	C	FC	L	W
6'	0	114	1.6'	1.6'
8'	0	64	2.1'	2.1'
10'	0	41	2.6'	2.6'
12'	0	28	3.2'	3.2'
14'	0	21	3.7'	3.7'



### FOOTCANDLE VALUES

30° aiming angle - horizontal surface

D	C	FC	L	W
6'	3.5'	53	2.1'	1.8'
8'	4.6'	31	2.8'	2.4'
10'	5.8'	19	3.5'	3.0'
12'	6.9'	14	4.2'	3.6'
14'	8.1'	10	4.9'	4.3'

### FOOTCANDLE VALUES

30° aiming angle - vertical surface

D	C	FC	L	W
2'	3.5'	162	2.2'	1.1'
3'	5.2'	73	3.3'	1.6'
4'	6.9'	41	4.4'	2.1'
5'	8.7'	23	5.6'	2.6'
6'	10.4'	18	6.7'	3.2'

Footcandle results based on AGI32; off the shelf lamp in fixture, with micropismatic lens; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# id<sup>®</sup> 1" Round

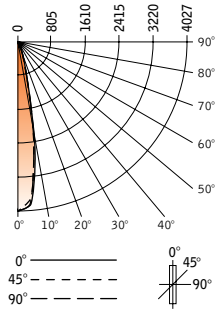
HALOGEN MR16 PINHOLE WITH LENS - 71W, NARROW SPOT

## FD4-MR / D1-RO-PL-WH

Filename: D1RXPLHA71NS15\_0.ies  
 Test #: 13575.0

Lumens: 600lm  
 Efficiency: 53%

### CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	4027	4027	4027	4027	4027
5°	3697	3834	3838	3879	3817
15°	767	803	871	998	850
25°	74	90	132	136	107
35°	16	18	22	16	9
45°	10	12	10	8	4
55°	1	2	1	0	0
65°	0	0	0	0	0
75°	0	0	0	0	0
85°	0	0	0	0	0
90°	1	0	0	0	0

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	588	51.5	97.9
0-40°	595	52.2	99.1
0-60°	600	52.6	100
0-90°	600	52.6	100
<b>Total Luminaire 0-180°</b>	<b>600</b>	<b>52.6</b>	<b>100</b>

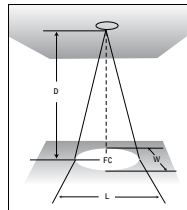
### LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	4037	4037	1615
55°	498	498	0
65°	0	0	0
75°	0	0	0
85°	0	0	0

### FOOTCANDLE VALUES

0° aiming angle - horizontal surface

D	FC	L	W
6'	112	1.6'	1.6'
8'	63	2.1'	2.1'
10'	40	2.6'	2.6'
12'	48	3.2'	3.2'
14'	21	3.7'	3.7'



Footcandle results based on AGI32; off the shelf lamp in fixture, with micropismatic lens; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# id<sup>®</sup> 1" Round

HALOGEN MR16 SLOT - 71W, NARROW SPOT

## D1RXSLOTHA71NS15\_30.IES

0° Filename: D1RXSLOTHA71NS15\_0.ies

30° Filename: D1RXSLOTHA71NS15\_30.ies

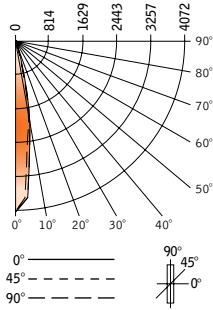
0° Test #: 13547.1

30° Test #: 13548.1

0° Efficiency: 48%

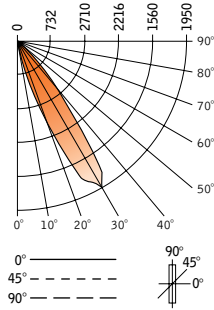
30° Efficiency: 37%

### CANDLEPOWER DISTRIBUTION - 0° TILT



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	4072	4072	4072	4072	4072
5°	3691	3702	3744	3698	3670
15°	645	770	797	792	636
25°	81	112	107	77	47
35°	10	14	13	8	6
45°	2	3	2	0	0
55°	0	0	0	0	0
65°	0	0	0	0	0
75°	0	0	0	0	0
85°	0	0	0	0	0
90°	0	0	0	0	0

### CANDLEPOWER DISTRIBUTION - 30° TILT

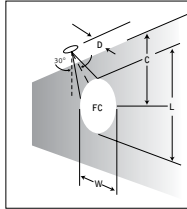
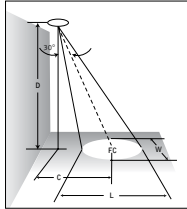


Vertical Angle	Horizontal Angle				
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0°	22	22	22	22	22
5°	72	61	42	30	20
15°	732	574	206	41	11
25°	2710	1501	267	29	7
35°	2216	790	83	9	2
45°	322	165	11	2	0
55°	29	13	3	0	0
65°	2	0	0	0	0
75°	0	0	0	0	0
85°	0	0	0	0	0
90°	0	0	0	0	0

### FOOTCANDLE VALUES

0° aiming angle - horizontal surface

D	C	FC	L	W
6'	0	114	1.6'	1.6'
8'	0	64	2.1'	2.1'
10'	0	41	2.6'	2.6'
12'	0	28	3.2'	3.2'
14'	0	21	3.7'	3.7'



### FOOTCANDLE VALUES

30° aiming angle - horizontal surface

D	C	FC	L	W
6'	3.5'	53	2.1'	1.8'
8'	4.6'	31	2.8'	2.4'
10'	5.8'	19	3.5'	3.0'
12'	6.9'	14	4.2'	3.6'
14'	8.1'	10	4.9'	4.3'

### FOOTCANDLE VALUES

30° aiming angle - vertical surface

D	C	FC	L	W
2'	3.5'	162	2.2'	1.1'
3'	5.2'	73	3.3'	1.6'
4'	6.9'	41	4.4'	2.1'
5'	8.7'	23	5.6'	2.6'
6'	10.4'	18	6.7'	3.2'

Footcandle results based on AGI32; off the shelf lamp in fixture, with micropismatic lens; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.