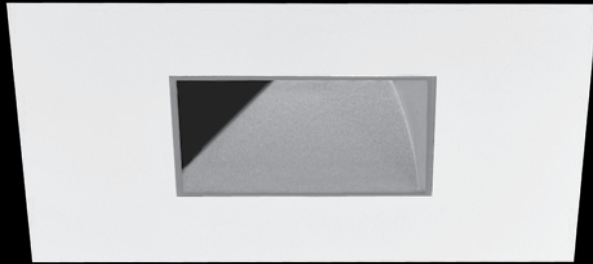


# id<sup>®</sup> 2.5" Square

HALOGEN MR16 ADJUSTABLE ACCENT/DOWNLIGHT/WALL WASH, DRYWALL/GRID



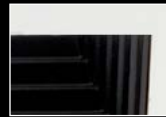
clear specular reflector



clear diffuse reflector



black specular reflector



black baffle



white baffle



hex louver



linear spread lens



prismatic spread lens



sand blasted lens

## DIMENSIONAL DATA

**adjustable accent**  
trim with  
adjustment mechanism

0° 45°

**downlight**  
trim with  
fixed lamp tray

**wall wash**  
trim with  
adjustment mechanism

10°

**flush trim**  
(drywall only)

1 11/16" 43mm  
4" 102mm

**overlap trim**

1 11/16" 43mm  
5 1/8" 130mm

ceiling cutout dimensions: 6 3/16"

ceiling cutout dimensions:  
T & IC Housings - 4 11/16"  
RT Housing - 4 5/8"

**T**  
14" x 7.625" x 5" h

**IC (air-tight)**  
16.5" x 10" x 9" h

**RT**  
12.08" x 6.32" x 5.58" h

overlap faceplate only

## FEATURES

Trims available in Overlap flange or Flush mud-in.

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: 94-1115lm

Wattage: 20-71W

Lamping: MR16

Accent Clear Specular Reflector

Q71MR16/C/NSP15

**4698 cd @ 30° (30° tilt)**

Visit 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

(T) Thermally protected housing for new construction applications without direct contact with insulation. Insulation to be kept 3" away from housing. Unit is enclosed in 20ga. black painted CRS housing, which eliminates stray light into the plenum, on a 20ga. CRS frame. Housing ships standard with butterfly brackets which mount to 1/2 emt or channel and vertically adjust 2". Bar hangers are an option and must be specified. Transformer is accessible from below ceiling. Unit may be relamped from above. Fixture will not exceed 7.5lbs.

(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.

(RT) Thermally protected housing for remodel construction applications without direct contact with insulation. Insulation to be kept 3" away from housing. Unit is 20ga. black painted CRS with contoured top and hinging J-box arm. Housing locks into finished ceiling via 4 removable spring clips. J-box and transformers are accessible by removing housing from ceiling. Fixture will not exceed 4.5lbs.

### Electrical

Porcelain bi-pin socket with 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, four #12 90°C conductors for T housing and two #14 90°C conductors for RT and 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 and dust cover.

## TRIM SPECIFICATIONS

### Aesthetics

Die cast parabolic cone ensures glare free optics. Truncated cone cut allows full tilt of lamp. CS, CD and BS are painted finishes (AA). Reflector is die-cast aluminum for sharp corners. Optional die-cast slope-sided baffle, consists of 1/8" steps. Black and white baffles are painted finishes. Optics sit flush with the front surface of the faceplate (DNF). Specular kicker reflector and patterned glass provide smooth illumination down the wall (WW). 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° (AA) or 10° (WW) 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. Memory returns lamp to preset aiming position (AA, WW) or keeps lamp in a straight down aiming position (DNF). Lens tray can hold up to two (DNF) or three (AA, WW) accessories, up to 3/8" thick. Lenses remain undisturbed during relamping.

### Optics

50° cutoff to the lamp and lamp image. Specular kicker and patterned glass lens with diffuse finish (WW). Lamp tray can hold up to two accessories, up to 1/4" thick (DNF). Wall Wash optics rotate for alignment to walls and lock in position (WW).

### Construction

Trim stays captive to housing during relamping via torsion springs. Torsion springs pull trim tight to the ceiling and install in 90° increments. 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 (AA, DNF). Wet label standard (WW). 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	
Magnetic Dimming 120V, 11.7V <small>(T housings only)</small>	M1	
Magnetic Dimming 277V, 11.7V <small>(T housings only)</small>	M2	
Toroidal Dimming 120V <small>(IC &amp; RT housings only)</small>	M1T	
<b>Faceplate Type</b>		
Square Flush <small>(T &amp; IC housings only)</small>	SF	
Square Overlap	SO	
<b>Housing Type</b> <small>(T Rated: 71W max. IC Rated &amp; Remodel: 50W max.)</small>		
New Construction T Rated, up to 1-5/8" ceilings	T	
New Construction T Rated, 1-1/2" to 2-1/2" ceilings	T2	
New Construction T Rated, 2-1/2" to 3-1/2" ceilings	T3	
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	
Remodel T Rated <small>(Overlap faceplate only)</small>	RT	
<b>Factory Options</b>		
Bar Hangers <small>(T housings only)</small>	BH	
Wattage Restriction Label <small>(XX=wattage)</small>	WRXX	
Chicago Plenum <small>(T housings only)</small>	CP	

## TRIM ORDERING

<b>Trim Aperture</b>		<b>D2</b>
2-5/8" Aperture	D2	
<b>Faceplate Type</b>		
Square Flush <small>(T &amp; IC housings only) (Drywall only)</small>	SF	
Square Overlap	SO	
<b>Optic</b>		
Adjustable Accent	AA	
Downlight	DNF	
Wall Wash	WW	
<b>Reflector Color</b>		
Clear Specular	CS	
Clear Diffuse	CD	
Black Specular	BS	
Black Baffle <small>(DNF only)</small>	BB	
White Baffle <small>(DNF only)</small>	WB	
<b>Faceplate Finish</b>		
White	WH	
Black	BK	
Titanium Silver	TS	
Aluminum Raw	AL	
<b>Lens Accessories</b> <small>(Soft focus lens supplied as standard)</small>		
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  
Example: FD4-MR-E1-SF-IC | D2-SF-AA-CS-WH

# id<sup>®</sup> 2.5" Square

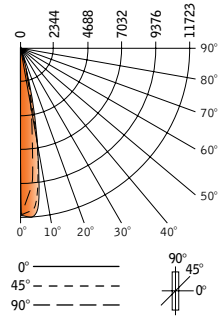
HALOGEN MR16 ADJUSTABLE ACCENT - 71W, NARROW SPOT

## FD4-MR / D2-SX-AA-CS-WH

0° Filename: D2SXAACSHA71NS15\_0.ies  
 0° Test #: 13637.0  
 0° Efficiency: 68%

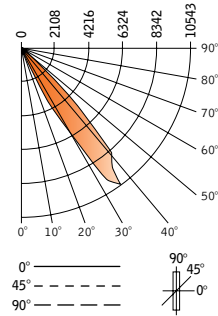
30° Filename: D2SXAACSHA71NS15\_35.ies  
 30° Test #: 13638.0  
 30° Efficiency: 54%

### CANDLEPOWER DISTRIBUTION - 0° TILT



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	6024	6024	6024	6024	6024
5°	6020	5878	5718	5279	4807
15°	1155	1374	1204	1159	812
25°	78	90	143	80	57
35°	19	23	26	19	14
45°	9	9	11	7	3
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

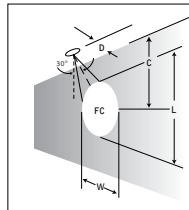
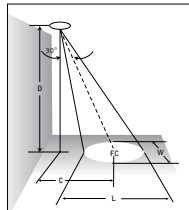


Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	320	320	320	320	320
5°	291	269	225	188	204
15°	404	337	235	142	58
25°	3241	1090	240	108	29
35°	10543	1420	71	16	10
45°	3706	285	29	3	0
55°	79	26	5	0	0
65°	10	0	0	0	0
75°	0	0	0	0	0
85°	0	0	0	0	0
90°	0	0	0	0	0

### FOOTCANDLE VALUES

0° aiming angle - horizontal surface

D	C	FC	L	W
6'	0	168	1.6'	1.6'
8'	0	94	2.1'	2.1'
10'	0	60	2.6'	2.6'
12'	0	42	3.2'	3.2'
14'	0	31	3.7'	3.7'



### FOOTCANDLE VALUES

30° aiming angle - horizontal surface

D	C	FC	L	W
6'	4.2'	134	2.4'	1.9'
8'	5.6'	73	3.2'	2.6'
10'	7'	48	4'	3.2'
12'	8.4'	32	4.8'	3.9'
14'	9.8'	24	5.5'	4.5'

### FOOTCANDLE VALUES

30° aiming angle - vertical surface

D	C	FC	L	W
2'	2.9'	382	1.6'	.9'
3'	4.3'	175	2.5'	1.4'
4'	5.7'	100	3.3'	1.8'
5'	7.1'	62	4.1'	2.3'
6'	8.6'	44	5'	2.8'

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> 2.5" Square

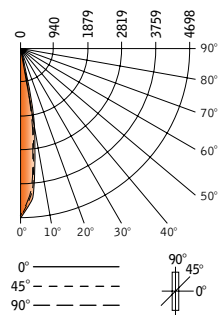
HALOGEN MR16 ADJUSTABLE ACCENT - 71W, NARROW SPOT

## FD4-MR / D2-SX-AA-BS-WH

0° Filename: D2SXAABSHA71NS15\_0.ies  
 0° Test #: 13569.0  
 0° Efficiency: 71%

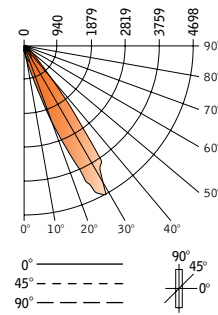
30° Filename: D2SXAABSHA71NS15\_30.ies  
 30° Test #: 13570.0  
 30° Efficiency: 56%

### CANDLEPOWER DISTRIBUTION - 0° TILT



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	5192	5192	5192	5192	5192
5°	4388	4631	4595	4586	4531
15°	1046	1127	1250	1170	1209
25°	154	218	261	186	107
35°	18	25	30	15	12
45°	8	8	8	6	4
55°	1	1	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

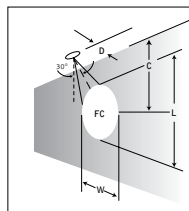
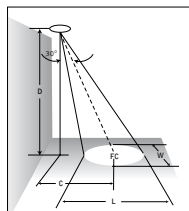


Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	153	153	153	153	153
5°	236	209	191	168	144
15°	844	705	372	183	95
25°	3605	1976	523	126	41
35°	3869	1524	201	26	8
45°	563	256	27	4	0
55°	48	21	6	0	0
65°	4	3	0	0	0
75°	0	0	0	0	0
85°	0	0	0	0	0
90°	0	0	0	0	0

### FOOTCANDLE VALUES

0° aiming angle - horizontal surface

D	C	FC	L	W
6'	0	145	1.6'	1.6'
8'	0	81	2.1'	2.1'
10'	0	52	2.6'	2.6'
12'	0	36	3.2'	3.2'
14'	0	27	3.7'	3.7'



### FOOTCANDLE VALUES

30° aiming angle - horizontal surface

D	C	FC	L	W
6'	3.5'	83	2.1'	1.8'
8'	4.6'	48	2.8'	2.4'
10'	5.8'	30	3.5'	3.0'
12'	6.9'	21	4.2'	3.6'
14'	8.1'	16	4.9'	4.3'

### FOOTCANDLE VALUES

30° aiming angle - vertical surface

D	C	FC	L	W
2'	3.5'	251	2.2'	1.1'
3'	5.2'	13	3.3'	1.6'
4'	6.9'	64	4.4'	2.1'
5'	8.7'	40	5.6'	2.6'
6'	10.4'	28	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> 2.5" Square

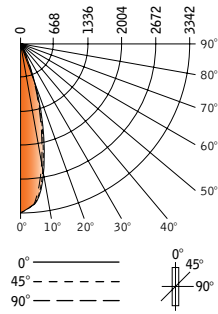
HALOGEN MR16 DOWNLIGHT - 71W, NARROW SPOT

## FD4-MR / D2-SO-DNF-CS-WH

Filename: D2SXDNCSHA71NF25\_0.ies  
Test #: 13639.0

Lumens: 820lm  
Efficiency: 72%

### CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	4163	4163	4163	4163	4163
5°	3838	3893	3954	4055	4047
15°	1175	1252	1405	1577	1561
25°	54	60	128	84	73
35°	9	9	12	8	7
45°	0	0	0	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

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	814	71.4	99.3
0-40°	820	71.9	100
0-60°	820	71.9	100
0-90°	820	71.9	100
<b>Total Luminaire 0-180°</b>	<b>820</b>	<b>71.9</b>	<b>100</b>

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

Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	0	0	0
55°	0	0	0
65°	0	0	0
75°	0	0	0
85°	0	0	0

### CO-EFFICIENTS OF UTILIZATION

	80				70				20				50				30				10				00			
	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR
1	83	82	81	80	82	81	79	78	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60			
2	81	78	77	75	79	77	74	75	73	73	71	71	70	69	68	67	66	65	64	63	62	61	60	59	58			
3	79	76	74	72	78	75	71	73	70	72	69	70	68	67	66	65	64	63	62	61	60	59	58	57	56			
4	77	73	71	69	76	73	69	71	68	70	67	69	67	66	65	64	63	62	61	60	59	58	57	56	55			
5	75	71	69	67	74	71	66	69	66	68	65	67	65	64	63	62	61	60	59	58	57	56	55	54	53			
6	73	70	67	65	73	69	65	68	65	67	64	66	64	63	62	61	60	59	58	57	56	55	54	53	52			
7	72	68	65	64	71	68	64	67	63	66	63	65	63	62	61	60	59	58	57	56	55	54	53	52	51			
8	70	66	64	62	70	66	62	65	62	65	62	64	62	61	60	59	58	57	56	55	54	53	52	51	50			
9	69	65	62	61	68	65	61	64	60	63	60	63	60	62	60	59	58	57	56	55	54	53	52	51	50			
10	67	63	61	59	67	63	59	62	59	62	59	62	59	61	59	58	57	56	55	54	53	52	51	50	49			

Numbers indicate percentage values of reflectivity.

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

# id<sup>®</sup> 2.5" Square

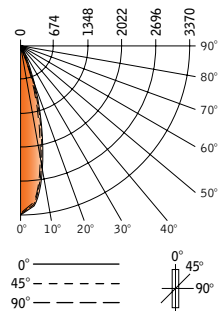
HALOGEN MR16 DOWNLIGHT REGRESSED LENS - 71W, NARROW SPOT

## FD4-MR / D2-SX-RL-CS

Filename: D2SXRLCSHA71NF25\_0.ies  
Test #: 13566.0

Lumens: 796lm  
Efficiency: 70%

### CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	3370	3370	3370	3370	3370
5°	3124	3138	3179	3198	3146
15°	1205	1256	1290	1354	1397
25°	200	230	268	214	208
35°	25	30	38	23	16
45°	3	3	4	2	2
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

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	776	68.1	97.5
0-40°	794	69.6	99.7
0-60°	796	69.8	100
0-90°	796	69.8	100
<b>Total Luminaire 0-180°</b>	<b>796</b>	<b>69.8</b>	<b>100</b>

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

Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	4176	5569	1392
55°	0	0	0
65°	0	0	0
75°	0	0	0
85°	0	0	0

### CO-EFFICIENTS OF UTILIZATION

	80				70				20				50				30				10				00			
	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR	Floor	Ceiling	Wall	RCR
1	81	80	78	77	79	78	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58			
2	78	76	74	72	77	75	71	72	70	70	68	69	67	66	65	64	63	62	61	60	59	58	57	56	55			
3	76	73	71	69	75	72	68	70	67	69	66	67	65	64	63	62	61	60	59	58	57	56	55	54	53			
4	74	70	68	66	73	69	65	68	64	67	64	66	63	62	61	60	59	58	57	56	55	54	53	52	51			
5	72	68	65	63	71	67	63	66	62	65	62	64	61	60	59	58	57	56	55	54	53	52	51	50	49			
6	70	66	63	61	69	65	61	64	61	64	60	63	60	62	60	59	58	57	56	55	54	53	52	51	50			
7	68	64	61	59	67	64	59	63	59	62	59	61	58	57	56	55	54	53	52	51	50	49	48	47	46			
8	66	62	59	58	66	62	57	61	57	60	57	60	57	59	57	56	55	54	53	52	51	50	49	48	47			
9	65	60	58	56	64	60	56	59	55	59	55	58	55	57	55	54	53	52	51	50	49	48	47	46	45			
10	63	58	56	54	62	58	54	57	54	57	53	56	53	55	53	52	51	50	49	48	47	46	45	44	43			

Numbers indicate percentage values of reflectivity.

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

# id<sup>®</sup> 2.5" Square

HALOGEN MR16 WALL WASH - 71W, NARROW SPOT

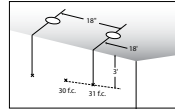
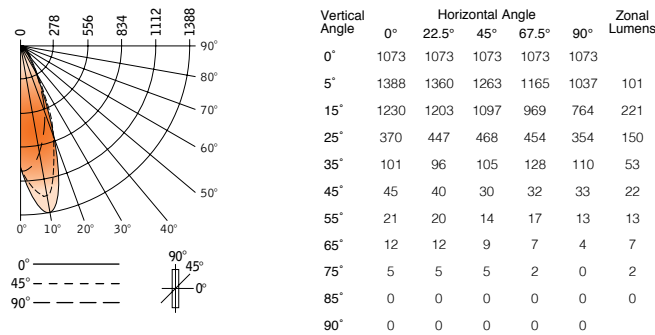
## FD4-MR / D2-SO-WW-CS-WH

Filename: D2SXWWCS71NF25\_0.ies

Test #: 13640.0

Efficiency 50%

### CANDLEPOWER DISTRIBUTION



### FOOTCANDLE VALUES - UNITS 24" FROM WALL

Distance from Ceiling	18"	24"	30"	36"
1'	4 4 4	3 3 3	3 2 3	3 2 3
2'	7 7 7	6 5 6	5 4 5	5 3 5
3'	10 9 10	8 7 8	6 6 6	6 4 6
4'	14 15 14	11 11 11	9 8 9	8 7 8
5'	18 18 18	14 14 14	11 11 11	10 9 10
6'	17 18 17	14 14 14	11 11 11	10 10 10
7'	15 16 15	13 13 13	10 10 10	9 9 9
8'	13 13 13	11 11 11	9 9 9	8 8 8
9'	10 11 10	9 9 9	7 8 7	6 7 6
10'	8 8 8	7 7 7	6 6 6	5 5 5

### FOOTCANDLE VALUES - UNITS 18" FROM WALL

Distance from Ceiling	18"	24"	30"	36"
1'	7 6 7	6 4 6	3 3 3	5 2 5
2'	12 12 12	10 8 10	10 5 10	9 3 9
3'	19 19 19	15 14 15	14 10 14	13 6 13
4'	25 26 25	19 19 19	16 15 16	15 11 15
5'	23 24 23	18 18 18	15 14 15	13 11 13
6'	19 19 19	15 15 15	13 12 13	11 10 11
7'	15 15 15	12 12 12	10 10 10	8 8 8
8'	11 11 11	9 10 9	8 8 8	7 7 7
9'	9 9 9	7 8 7	6 6 6	5 5 5
10'	7 7 7	6 6 6	5 5 5	4 4 4

### FOOTCANDLE VALUES - UNITS 30" FROM WALL

Distance from Ceiling	18"	24"	30"	36"
1'	3 3 3	2 2 2	2 2 2	2 1 2
2'	4 4 4	3 3 3	3 3 3	3 2 3
3'	6 6 6	5 5 5	4 4 4	4 3 4
4'	8 8 8	6 6 6	5 5 5	5 4 5
5'	10 11 10	9 9 9	7 7 7	6 6 6
6'	13 14 13	10 11 10	8 9 8	7 7 7
7'	13 14 13	11 11 11	9 9 9	8 8 8
8'	12 13 12	10 10 10	9 9 9	7 7 7
9'	11 11 11	9 9 9	8 8 8	7 7 7
10'	9 9 9	8 8 8	7 7 7	6 6 6

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> 2.5" Square

HALOGEN MR16 WALL WASH - 71W, NARROW SPOT

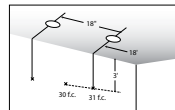
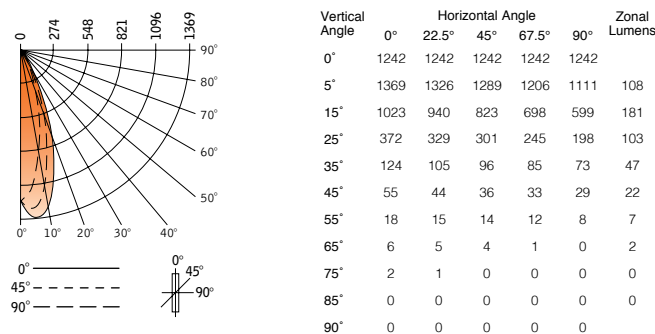
## FD4-MR / D2-SO-WW-BS-WH

Filename: D2SXWWBSHA71NF25\_0.ies

Test #: 13573.0

Efficiency 41%

### CANDLEPOWER DISTRIBUTION



### FOOTCANDLE VALUES - UNITS 24" FROM WALL

Distance from Ceiling	18"	24"	30"	36"
1'	2 2 2	2 1 2	1 1 1	1 1 1
2'	8 7 8	6 5 6	6 4 6	5 3 5
3'	11 10 11	9 8 9	8 6 8	7 4 7
4'	13 13 13	11 10 11	9 7 9	8 6 8
5'	14 14 14	11 10 11	10 8 10	9 7 9
6'	13 13 13	11 10 11	9 8 9	8 7 8
7'	11 12 11	9 9 9	8 8 8	7 6 7
8'	10 10 10	8 8 8	7 7 7	6 6 6
9'	8 8 8	7 7 7	6 6 6	5 5 5
10'	7 7 7	6 6 6	5 5 5	4 4 4

### FOOTCANDLE VALUES - UNITS 18" FROM WALL

Distance from Ceiling	18"	24"	30"	36"
1'	5 4 5	4 3 4	4 2 4	4 1 4
2'	14 13 14	12 9 12	11 6 11	11 4 11
3'	19 17 19	16 12 16	14 9 14	14 6 14
4'	20 19 20	16 14 16	14 10 14	13 7 13
5'	18 17 18	14 13 14	12 10 12	11 8 11
6'	14 14 14	11 11 11	9 9 9	8 7 8
7'	11 11 11	9 9 9	7 7 7	6 6 6
8'	9 9 9	7 7 7	6 6 6	5 5 5
9'	7 7 7	6 6 6	5 5 5	4 4 4
10'	5 6 5	5 5 5	4 4 4	3 3 3

### FOOTCANDLE VALUES - UNITS 30" FROM WALL

Distance from Ceiling	18"	24"	30"	36"
1'	1 1 1	1 0 1	1 0 1	1 0 1
2'	4 4 4	3 3 3	3 2 3	2 2 2
3'	7 7 7	5 5 5	5 4 5	4 3 4
4'	9 8 9	7 6 7	6 5 6	5 4 5
5'	10 10 10	8 8 8	7 6 7	6 5 6
6'	10 10 10	9 8 9	7 7 7	6 5 6
7'	10 10 10	8 8 8	7 7 7	6 6 6
8'	9 9 9	8 8 8	7 6 7	6 5 6
9'	8 8 8	7 7 7	6 6 6	5 5 5
10'	7 7 7	6 6 6	5 5 5	4 4 4

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.