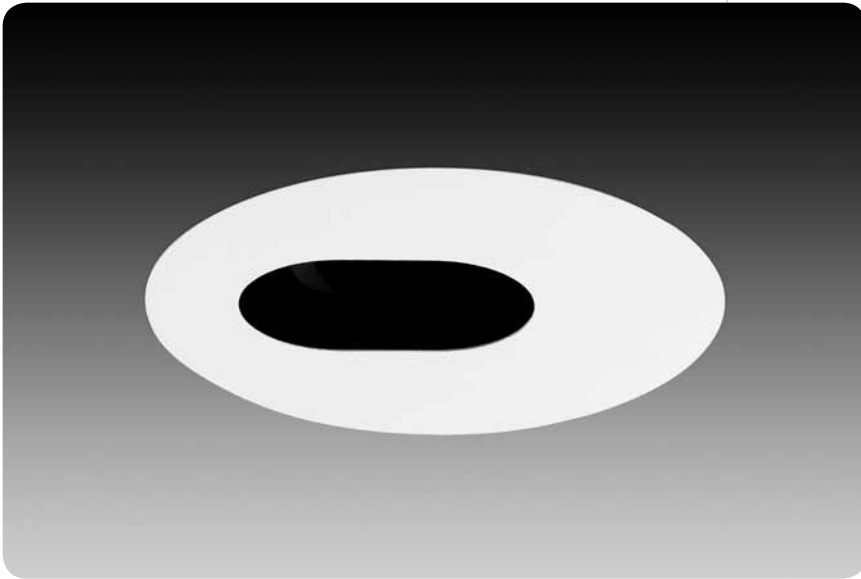


0-45° accent – slot aperture

id®



Covered by US Patent: 7,748,868

features

Trims available in Overlap flange or Flush mud-in for a seamless appearance.

Gloves Off™ hot aiming made simple with gear drive for both 45° vertical and 363° horizontal adjustment; Self locking.

Auto Memory remembers original lamp position after relamping. Lenses are independent of lamp, and remain undisturbed during relamping.

Adjustment mechanism provides for:

- easy relamping
- locking of both vertical and horizontal aiming
- lowers for easy lamp and lens access.

Perfect Fit™ installation process 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.

Standard white finish is field paintable.

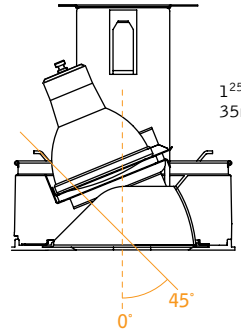
Interchangeable lamp and trim mechanisms allow for maximum flexibility, even after luminaire is installed.

lens accessories

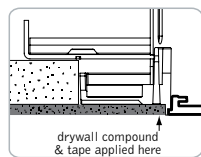
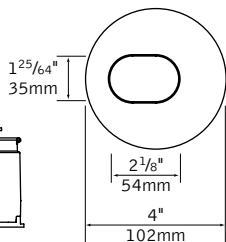


trim assembly

trim with adjustment mechanism

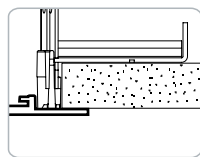
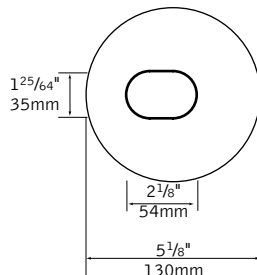


flush trim (drywall only)



ceiling cutout dimensions: 6 3/16"

overlap trim

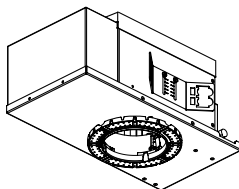


ceiling cutout dimensions: 4 11/16"

housing

T/IC

14" x 7.625" x 6"h

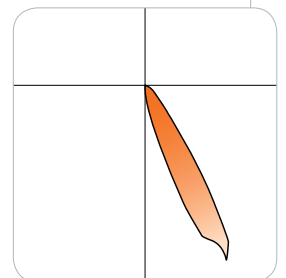


performance

Accent Slot Aperture
CMH20MR16/830/SP12
2171 cd @ 30° (30° tilt)



Use 20W Ceramic Metal Halide in place of 50W Halogen.



Visit focalpointlights.com for complete photometric data.

fixture:

project:

housing specifications

lamp

Ceramic Metal Halide 20W MR16 Lamp provides a crisp white light source, 3000K and 80CRI, with UV stop. It is a protected lamp for use in open fixture designs.

construction

(IC) Thermally protected for Insulated Ceiling housing for new construction applications with direct insulation contact. Unit is enclosed in a 20ga black painted CRS housing, which eliminates stray light into the plenum, on a 20Ga CRS frame. IC housing ships standard with butterfly brackets which mount to ½ emt or channel, vertically adjusts 2 inches. Bar hangers are an option and must be specified when ordering thermally protected housing. Transformer is accessible from below ceiling. Unit may be relamped from above. Fixture will not exceed 7.5 lbs.

electrical

Ceramic Socket GX10 for Metal Halide lamp, with permanently joined socket wires. Lamp is held by twist and lock 5KVA socket, ensuring simple lamp insertion and removal.

Large junction box 2x4x5.5" with ½" and ¼" pryouts. UL listed for thru branch wiring, 4#12 90°C conductors.

Thermally isolated electronic ballast, replaceable from below, is mounted outside of the housing to ensure cool operation. Wiring compartment mounting provides additional thermal break from the lamp. 120 or 277V, M156 ANSI spec ballast consumes 26 watts and provides >90% PF, 20% THD and end of life shut down circuitry.

installation

Adjustable throat allows infinite adjustment for ½" to 1½" thick ceilings. Shipped in ½" ceiling position. For thicker ceilings consult factory.

Ceiling thickness adjustment sleeve locks with supplied ⅜" hex driver.

Sleeve allows fine tuning of the housing for a perfect fit. Comes with laser/string alignment guides.

Housing ships with dust cover.

trim specifications

aesthetics

Diminutive knife edge minimizes brightness. Truncated specular black reflector cone ensures glare free optics. Reflector is .040 spun aluminum.

Smart Lock™ ring allows disassembly of trim components for field painting of faceplate. Matte white finish may be used as a primer coat.

adjustment mechanism

Auto Memory for relamping, lamp returns to preset aiming position

Mechanism is matte black finish and holds lamp and lenses independently.

Hot aiming with Philips 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.

Tempered soft focus lens and spacer plate supplied as standard.

Lens tray can hold up to two accessories, up to ¼" thick. Lenses remain undisturbed during relamping.

optics

50° cutoff to the lamp and the lamp image.

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 on overlap versions.

Aperture bevels back for reduction of aperture brightness.

labels

UL listed, Damp label standard.

No visible labels when trim is installed.

housing ordering

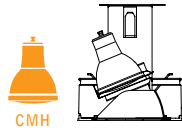
housing series		<u>FM4</u>
Metal Halide Housing	FM4	
lamp		<u>MR</u>
20W CMH MR16	MR	
ballast type		<u>M156U</u>
M156 20W Electronic (120V and 277V)	M156U	
faceplate type		_____
Round Flush	RF	
Round Overlap	RO	
housing type		_____
Combined T and IC Rated, up to 1½" ceilings	IC	
Combined T and IC Rated, 1½" to 2½" ceilings	IC2	
Combined T and IC Rated, 2½" to 3½" ceilings	IC3	
factory options		
Bar Hangers	BH	_____
Chicago Plenum	CP	_____
3000K Lamp 12" Spot	LSP	_____
3000K Lamp 25" Spot	LFL	_____
3000K Lamp 40" Wide Flood	LWF	_____

trim ordering

trim aperture		<u>D1</u>
1½" Aperture	D1	
faceplate type		_____
Round Flush (drywall only)	RF	
Round Overlap	RO	
optic		<u>SLOT</u>
Slot Aperture	SLOT	
faceplate finish		_____
White	WH	
Black	BK	
Titanium Silver	TS	
Aluminum Raw	AL	
lens accessories		
(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	_____

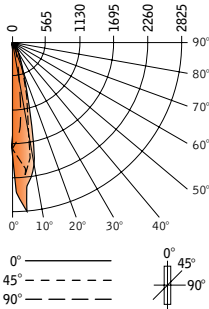
a complete unit consists of two line items, housing and trim
example: FM4-MR-M156U-FR-IC
D1-RF-SLOT-WH

rnd accent – slot
id®



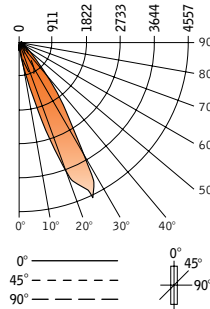
Luminaire: 20W CMH slot accent, spot distribution with soft focus lens
 Filename: D1RXSL0TMH20SP12_0.ies and D1RXSL0TMH20SP12_30.ies
 Catalog #: D2-RX-SLOT-WH
 Efficiency: 35% (0° tilt), and 36% (30° tilt)
 Photometric Report #: 13549.1 and 13550.1

CANDLEPOWER DISTRIBUTION - 0° TILT



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	1753	1753	1753	1753	1753
5°	2825	2672	2255	1796	1449
15°	1070	979	849	555	330
25°	169	166	148	102	58
35°	45	43	42	36	31
45°	2	1	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

CANDLEPOWER DISTRIBUTION - 30° TILT

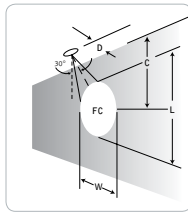
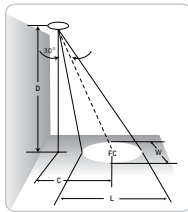


Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	92	92	92	92	92
5°	178	164	133	103	85
15°	931	730	281	98	60
25°	2171	1314	259	52	40
35°	770	586	100	33	14
45°	114	108	37	12	0
55°	30	24	3	0	0
65°	0	0	0	0	0
75°	0	0	0	0	0
85°	0	0	0	0	0
90°	0	0	0	0	0

FOOTCANDLE VALUES

0° aiming angle - horizontal surface

D	C	FC	L	W
6'	0	49	1.3'	1.3'
8'	0	27	1.7'	1.7'
10'	0	18	2.1'	2.1'
12'	0	12	2.5'	2.5'
14'	0	9	2.9'	2.9'



FOOTCANDLE VALUES

30° aiming angle - horizontal surface

D	C	FC	L	W
6'	3.5'	25	1.7'	1.5'
8'	4.6'	15	2.3'	1.9'
10'	5.8'	9	2.8'	2.4'
12'	6.9'	7	3.2'	2.9'
14'	8.1'	5	3.9'	3.4'

FOOTCANDLE VALUES

30° aiming angle - vertical surface

D	C	FC	L	W
2'	3.5'	79	1.7'	0.8'
3'	5.2'	35	1.6'	1.3'
4'	6.9'	20	3.5'	1.7'
5'	8.7'	13	4.3'	2.1'
6'	10.4'	9	5.2'	2.5'

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

Go to www.focalpointlights.com for additional photometric data.