



PRODUCT DESCRIPTION

Recessed adjustable MR16 luminaire with 3 1/4" square aperture, angle-cut die cast reflector and precision geared hot-aiming. Fixture has 50° visual cutoff to lamp and lamp image. Sealed Air-Loc housing eliminates leak-paths to ensure maximum energy savings and controls plenum sound transmission. IC rated housing for use in direct contact with insulation.

PRODUCT SPECIFICATIONS

Reflector Die cast, angle-cut, parabolic reflector maintains low glare, tight corners, and 50° lamp and lamp image cut-off

- Available in haze, black haze, wheat haze, or white finishes
- Specular clear kicker reflector directs light toward wall surface.

Trims Style Die Cast Self Flanged and Flush Mount reflectors utilize precision wound double torsion springs for tight, secure fit to ceiling

- Flange is same finish as reflector unless optional painted white flange is specified
- For flush mount installations in drywall ceilings use the FMASQ4 flush mount adapter
- For flush mount installations in wood, stone, or tile ceilings the FMASQ4-SC*** must be used (specify ceiling thickness and adapter finish).

Lens Lampholder accommodates up to three (3) 2" captive accessory lenses • Supplied with stippled clear uniformity lens.

Socket Ceramic bi-pin socket with double blade nickel alloy contacts

- Quick disconnect for simplified maintenance.

Lamp One 50W MR16 lamp.

Transformer 120V High efficiency (>90%) dual tap magnetic, toroidal transformer has a boost tap to compensate for dimmer losses, improving color temperature and lumen output • Potted to eliminate noise and vibration • High efficiency (>94%), high power factor electronic transformer also available.

Dimming May be dimmed using dimmers specifically designed for low voltage magnetic or electronic transformers; consult factory or dimmer manufacturer for additional information.

Codes/Labels UL and cUL listed for direct contact with insulation, through branch wiring, wet locations • Meets energy code Air Leakage requirements per ASTM E283 • Product thermally protected against improper use of lamps • Union made.

Proprietary Bar Hanger System Patent pending Pro-VI™, telescoping bar hanger system with locking set screws, permits quick placement of housing within 24" O.C. joists or suspended ceilings

- Robust bar eliminates flexing regardless of fixture position
- Integral T-bar notch with locking tabs secures housing to suspended ceiling grid
- Captive bugle-headed ring shank nail for quick one-step installation
- Bar Hanger foot aligns to bottom of construction joist and breaks away for use in suspended ceilings.

Junction Box Rated for 4 No. 12 AWG 90° C through branch circuit conductors and includes (6) 1/2", (1) 3/4", and (4) Non-metallic sheathed cable knock-outs • Push-In electrical connectors for field connections.

Housing/Mounting Frame Steel plaster frame and aluminum housing painted black for visually dark interior • V-Notch in plaster frame aids fixture alignment during installation • Patent Pending Tru-Line™ Adjustment Mechanism featuring +/- 1/2" translation and +/- 45° aperture rotation aids fixture alignment after installation, prior to drywall.

Ceiling Thickness 1/2" – 7/8" ceiling standard • For thicker ceilings, order CTA4SQ-125 (7/8"-1 1/4"), CTA4SQ-163 (1 1/4"-1 5/8") or CTA4SQ-200 (1 5/8" – 2") • CTA4SQ not required for wood, stone, or tile flush mount applications.

RECESSED WALL WASH
3-1/4" LENSED WALL WASH
 IC Rated, 50W MR16
IC43SQ, 439SQ TRIM

Project: _____

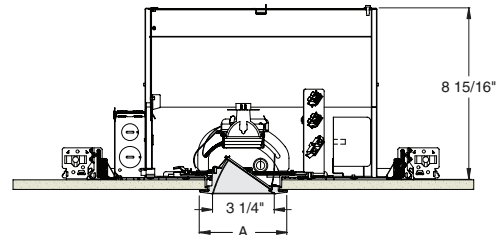
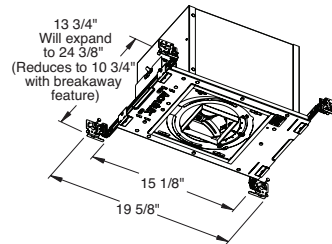
Fixture Type: _____

Location: _____

Contact/Phone: _____



DIMENSIONS



4 1/8" CEILING CUTOUT
 (REFER TO INSTRUCTION SHEET FOR FLUSH MOUNT CEILING CUTOUT)

	A
Self Flanged	4 1/2"
Flush Mount	3 5/8"

RECESSED WALL WASH

3-1/4" LENSED WALL WASH

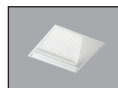
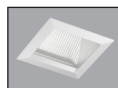
IC Rated, 50W MR16

IC43SQ, 439SQ TRIM

Housings

Catalog #	Description
IC43SQ	Low Voltage Recessed Magnetic Transformer, 120V
IC43SQ-E1	Low Voltage Recessed Electronic Transformer, 120V

Lensed Angle Cut Wall Wash



Self Flanged ¹	Flush Mount ²	Description
439SQBHZ-SF	439SQBHZ-FM	Black Haze Reflector
439SQHZ-SF	439SQHZ-FM	Haze Reflector
439SQW-SF	439SQW-FM	White Reflector
439SQWHZ-SF	439SQWHZ-FM	Wheat Haze Reflector

¹For self flanged reflector with optional white painted flange, replace "-SF" suffix with "-SFWH".

²Flush Mount trims must be used with Flush Mount Adapter, ordered separately.

Product specifications subject to change without notice.

Flush Mount Adapters

Cat. #	Description
FMASQ4	Drywall Ceiling Adapter
FMASQ4-SC100-WH	Wood, Stone, Tile, 1/2"-1" Thick Ceiling, Adapter, White
FMASQ4-SC100-BL	Wood, Stone, Tile, 1/2"-1" Thick Ceiling, Adapter, Black
FMASQ4-SC138-WH	Wood, Stone, Tile, 1"-1 3/8" Thick Ceiling, Adapter, White
FMASQ4-SC138-BL	Wood, Stone, Tile, 1"-1 3/8" Thick Ceiling, Adapter, Black
FMASQ4-SC175-WH	Wood, Stone, Tile, 1 3/8"-1 3/4" Thick Ceiling, Adapter, White
FMASQ4-SC175-BL	Wood, Stone, Tile, 1 3/8"-1 3/4" Thick Ceiling, Adapter, Black

Optical Accessories

Cat. #	Description	Cat. #	Description
T741	Med. Pink Color Filter	T7405	Yellow Dichroic Lens
T742	Warm Red Color Filter	T7406	Magenta Dichroic Lens
T743	Daylight Blue Color Filter	T7411	Blue Green Dichroic Lens
T744	Med. Blue Color Filter	T7416	Daylight Blue Correction Lens
T745	Med. Amber Color Filter	T7420	Diffuse Spread Lens
T746	Med. Green Color Filter	T7422	UV Filter Lens
T7401	Red Dichroic Lens	T7477	Prismatic Lens
T7403	Med. Green Dichroic Lens	T7478	Linear Spread Lens
T7404	Med. Blue Dichroic Lens	T7459BL	Hexcell Louver

Misc. Accessories

CTA45Q-125	1 1/4" Thick Ceiling Adapter
CTA45Q-163	1 5/8" Thick Ceiling Adapter
CTA45Q-200	2" Thick Ceiling Adapter

To order, specify catalog number.



PHOTOMETRIC REPORT

Catalog Number: IC43SQ (439SQHZ-SF)

Test Number: PT01102003

Total Luminaire Efficiency: 53.2%

Luminaire Spacing Criteria: 0.76

Luminaire: Haze finish, lensed wall wash.

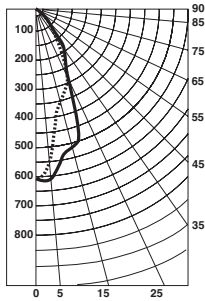
Lamps: One 37MR/1R/FL35

Luminance Data

Ang in Deg	Footlamberts	Candela/M ²
45	2556	8756
55	568	1947
65	237	812
75	0	0
85	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	291	36.4	68.4
0-40°	359	44.9	84.5
0-60°	417	52.1	97.9
0-90°	426	53.2	100.0
90-180°	0	0	0
0-180°	426	53.2	100.0



Candlepower Distribution (Candelas)

Degrees Vertical	0° Wall Wash	180° Downlight
0°	580	580
5°	579	543
15°	482	331
25°	247	215
35°	142	79
45°	80	42
55°	41	8
65°	22	2
75°	10	0
85°	0	0

Footcandles on Wall from Multiple Fixtures

Fixture Distance to Wall	18"						24"					
	18"		24"		18"		24"		18"		24"	
Fixture Centers (spacing)	18"	24"	18"	24"	18"	24"	18"	24"	18"	24"	18"	24"
1'	13	12	13	11	7	11	7	6	7	5	4	5
2'	20	17	20	16	13	16	13	13	13	10	10	10
3'	17	18	17	13	12	13	14	14	14	11	10	11
4'	15	16	15	12	12	12	13	14	13	9	10	9
5'	13	12	13	9	9	9	12	12	12	9	9	9
6'	10	10	10	7	7	7	11	11	11	8	8	8
7'	7	8	7	6	6	6	9	9	9	7	7	7
8'	6	6	6	5	5	5	7	7	7	6	5	6
9'	5	5	5	4	4	4	6	6	6	5	5	5

*Multipliers: Gold - 0.9, Black - 0.7, Haze - 0.95

*Note: Multipliers are provided for estimating purposes only. Use IES photometric files for precise photometric information.

PHOTOMETRIC REPORT

Catalog Number: IC43SQ (439SQHZ-SF)

Test Number: PT01102201

Total Luminaire Efficiency: 54.3%

Luminaire Spacing Criteria: 0.84

Luminaire: Haze finish, lensed wall wash.

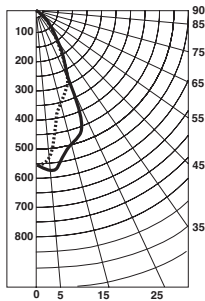
Lamps: One 50MR16C/FL40

Luminance Data

Ang in Deg	Footlamberts	Candela/M ²
45	3035	10399
55	566	1939
65	564	906
75	0	0
85	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	293	36.6	67.4
0-40°	368	46.0	84.7
0-60°	425	53.2	98.0
0-90°	434	54.3	100.0
90-180°	0	0	0
0-180°	434	54.3	100.0



Candlepower Distribution (Candelas)

Degrees Vertical	0° Wall Wash	180° Downlight
0°	535	535
5°	554	489
15°	473	325
25°	301	207
35°	126	90
45°	79	50
55°	40	8
65°	23	3
75°	11	0
85°	0	0

Footcandles on Wall from Multiple Fixtures

Fixture Distance to Wall	18"						24"					
	18"		24"		18"		24"		18"		24"	
Fixture Centers (spacing)	18"	24"	18"	24"	18"	24"	18"	24"	18"	24"	18"	24"
1'	12	11	12	11	6	11	7	6	7	6	4	6
2'	19	16	19	14	13	14	12	11	12	9	8	9
3'	19	21	19	15	14	15	14	15	14	11	10	11
4'	17	18	17	13	13	13	15	16	15	11	12	11
5'	14	13	14	10	10	10	14	14	14	10	11	10
6'	10	10	10	8	8	8	12	12	12	9	9	9
7'	8	8	8	6	6	6	10	10	10	7	7	7
8'	6	6	6	5	5	5	8	8	8	6	6	6
9'	5	5	5	4	4	4	6	7	6	5	5	5

*Multipliers: Gold - 0.9, Black - 0.7, Haze - 0.95

*Note: Multipliers are provided for estimating purposes only. Use IES photometric files for precise photometric information.

