



PRODUCT DESCRIPTION

Recessed MR16 downlight luminaire with 1 3/4" square regressed pinhole featuring stippled uniformity lens on the aperture. 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 .040" aluminum parabolic reflector in black Alzak finish shields housing interior.

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

- Flush mount trim creates a truly trimless aperture
- 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 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 DOWNLIGHT

1-3/4" LENSED REGRESSED
PINHOLE APERTURE

IC Rated, 50W MR16



IC43SQ, 4302SQ TRIM

Project: _____

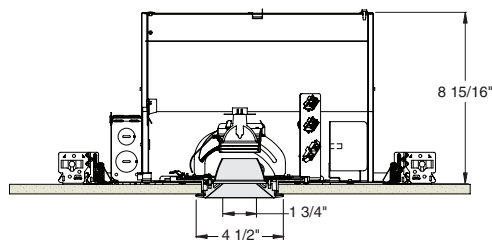
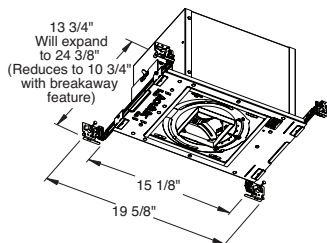
Fixture Type: _____

Location: _____

Contact/Phone: _____



DIMENSIONS



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

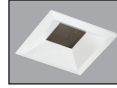
RECESSED DOWNLIGHT

1-3/4" LENSED REGRESSED PINHOLE APERTURE

IC Rated, 50W MR16

IC43SQ, 4302SQ TRIM**Housings**

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

1 3/4" Lensed Regressed Downlight Pinhole

Self Flanged	Flush Mount ¹	Description
4302SQ-WH	4302SQ-WH-FM	White Trim
4302SQ-BL	4302SQ-BL-FM	Black Trim

¹Flush 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.



1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925
 220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064
 Visit us at www.junolightinggroup.com

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PHOTOMETRIC REPORT

Catalog Number: IC43SQ (4302SQ-WH)

Test Number: PT11110801

Total Luminaire Efficiency: 59.1%

Luminaire Spacing Criteria: 0.32

Luminaire: 1 3/4" square regressed pinhole trim. Stippled Uniformity lens.

Lamps: One 37MR16/IR/SP10/C, rated at 800 total lumens.

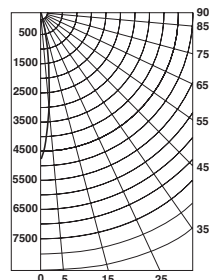
Initial Footcandles

Distance to Illuminated Plane (feet)	Footcandles Beam Center	Footcandles Beam Edge	Beam Diameter
6'	128.6	64.3	1.4'
7'	94.5	47.3	1.7'
8'	72.4	36.2	1.9'
9'	57.2	28.6	2.2'
10'	46.3	23.2	2.4'
11'	38.3	19.1	2.6'
12'	32.2	16.1	2.9'
13'	27.4	13.7	3.1'
14'	23.6	11.8	3.4'
15'	20.6	10.3	3.6'

AVERAGE INITIAL FOOTCANDLES

Reflectances: 80% Ceiling, 50% Walls, 20% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR3	RCR5
4' x 4'	34	32	30
5' x 5'	21	20	19
6' x 6'	15	14	13
7' x 7'	12	11	11
8' x 8'	10	9	8
9' x 9'	7	7	6
10' x 10'	5	5	5
12' x 12'	4	4	3



Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	4631	
5°	3747	290
15°	542	128
25°	91	42
35°	15	11
45°	3	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0

Luminance Data

Ang in Deg	Footlamberts	Candela/M ²
45	158	540
55	0	0
65	0	0
75	0	0
85	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	459	57.4	97.1
0-40°	470	58.7	99.3
0-60°	473	59.1	100.0
0-90°	473	59.1	100.0
90-180°	0	0.0	0.0
0-180°	473	59.1	100.0

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

PCC	80		70		50		30		10		0							
	PW	70	50	30	10	70	50	30	10	50	30	10	0					
0	70	70	70	70	69	69	69	69	66	66	66	63	63	63	60	60	60	59
1	68	67	66	65	67	66	65	64	64	63	62	62	61	61	60	59	59	58
2	67	65	63	62	65	64	62	61	62	61	60	60	60	59	59	58	58	57
3	65	63	61	59	64	62	60	59	61	59	58	58	58	57	58	57	56	56
4	64	61	59	58	63	60	59	57	59	58	57	58	57	56	57	56	55	55
5	62	59	57	56	61	59	57	56	58	56	55	57	56	55	56	55	54	54
6	61	58	56	55	60	58	56	54	57	55	54	56	55	54	56	54	53	53
7	60	57	55	53	59	56	55	53	56	54	53	55	54	53	55	53	53	52
8	59	56	54	52	58	55	54	52	55	53	52	54	53	52	54	53	52	51
9	58	55	53	51	57	54	53	51	54	52	51	54	52	51	53	52	51	50
10	57	54	52	51	56	53	52	51	53	52	50	53	51	50	52	51	50	50

PHOTOMETRIC REPORT

Catalog Number: IC43SQ (4302SQ-WH)

Test Number: PT11110803

Total Luminaire Efficiency: 64.9%

Luminaire Spacing Criteria: 0.32

Luminaire: 1 3/4" square regressed pinhole trim. Stippled Uniformity lens.

Lamps: One Q50MR16C/NSP15, rated at 800 total lumens.

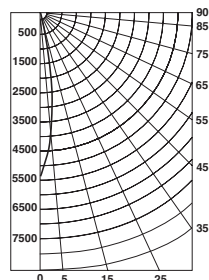
Initial Footcandles

Distance to Illuminated Plane (feet)	Footcandles Beam Center	Footcandles Beam Edge	Beam Diameter
6'	144.1	72.1	1.5'
7'	105.9	52.9	1.7'
8'	81.1	40.5	2.0'
9'	64.0	32.0	2.2'
10'	51.9	25.9	2.5'
11'	42.9	21.4	2.7'
12'	36.0	18.0	3.0'
13'	30.7	15.3	3.2'
14'	26.5	13.2	3.5'
15'	23.1	11.5	3.7'

AVERAGE INITIAL FOOTCANDLES

Reflectances: 80% Ceiling, 50% Walls, 20% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR3	RCR5
4' x 4'	37	35	33
5' x 5'	24	22	21
6' x 6'	16	15	15
7' x 7'	13	12	12
8' x 8'	11	10	9
9' x 9'	8	8	7
10' x 10'	6	6	5
12' x 12'	4	4	4



Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	5188	
5°	4209	335
15°	513	142
25°	51	28
35°	11	8
45°	4	4
55°	0	0
65°	0	0
75°	0	0
85°	0	0

Luminance Data

Ang in Deg	Footlamberts	Candela/M ²
45	204	700
55	0	0
65	0	0
75	0	0
85	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	506	63.3	97.5
0-40°	514	64.3	99.0
0-60°	519	64.9	100.0
0-90°	519	64.9	100.0
90-180°	0	0.0	0.0
0-180°	519	64.9	100.0

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

PCC	80		70		50		30		10		0							
	PW	70	50	30	10	70	50	30	10	50	30	10	0					
0	77	77	77	77	75	75	75	75	72	72	72	69	69	69	66	66	66	65
1	75	74	73	72	74	73	72	71	70	69	69	68	67	67	66	65	65	64
2	73	71	70	68	72	70	69	68	68	67	66	67	66	65	65	64	64	63
3	72	69	67	66	71	68	67	65	67	65	64	65	64	63	64	63	62	62
4	70	67	65	64	69	67	65	63	65	64	63	64	63	62	63	62	61	61
5	69	66	64	62	68	65	63	62	64	63	61	63	62	61	62	61	60	60
6	67	64	62	61	67	64	62	60	63	61	60	62	61	60	62	60	59	59
7	66	63	61	60	66	63	61	59	62	60	59	61	60	59	61	60	59	58
8	65	62	60	58	65	62	60	58	61	59	58	61	59	58	60	59	58	57
9	64	61	59	58	64	61	59	58	60	59	57	60	58	57	59	58	57	57
10	63	60	58	57	63	60	58	57	59	58	57	59	58	56	59	57	56	56

