

Evolution

Calculite



LIGHTOLIER®





E V O L U T I O N

TRANSFORMING RECESSED LIGHTING

Lightolier Calculite... Inspiring Intelligent Expression

Every Calculite product represents Lightolier's highest standards of quality and boldest creative efforts in lighting engineering and luminaire craftsmanship. Calculite features a unique optical apparatus that maintains perfect lamp-reflector alignment, providing essential glare control and outstanding visual comfort. Technologically advanced, Calculite requires fewer luminaires in a configuration, resulting in substantial energy savings and a clean ceiling appearance. Lightolier Calculite... Arguably the most *Inspiring Intelligent Expression* of lighting's capabilities for upscale commercial and residential constructions.





EVOLUTION

Lightolier continues the tradition of perpetual innovation, attention to detail and groundbreaking performance with the next generation of Calculite Evolution recessed downlights, the most comprehensive and architecturally sensitive collection of downlighting tools available.

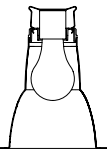
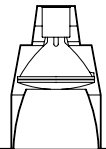
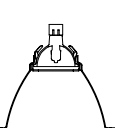
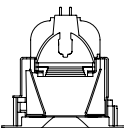
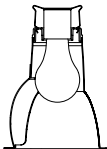
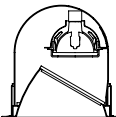

































Like all Calculite products, Evolution luminaires are meticulously engineered to provide consistent visual comfort, unsurpassed optical control and extraordinary mechanical precision. In addition, Evolution offers interchangeable optical assemblies providing flexibility of installation in either commercial or residential construction.



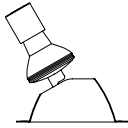
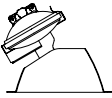
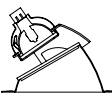


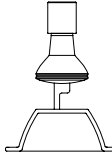
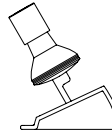


































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EVOLUTION PRODUCT MATRIX

		Downlight				Wall Wash		
		A-Lamp	PAR	MR16	1 1/4" Pinhole	A-Lamp Open	Lensed	
APERTURE	Frame-In Kit							
	Three-inch	C3LV 12V Commercial Non-IC			C3MRD  65W MR16 Page 12	C3MRPD  65W MR16 Page 14		C3MRL  65W MR16 Page 16
		C3ALV 12V Residential Non-IC AirSeal						
C3AICLV 12V Residential IC AirSeal				C3MRD  50W MR16 Page 12	C3MRPD  50W MR16 Page 14		C3MRL  50W MR16 Page 16	
Four-inch	C4120 120V Commercial Non-IC	C4AD  100W A19 Page 30	C4P20D  50W PAR20 Page 32			C4AW  100W A19 Page 31		
	C4A120 120V Residential Non-IC AirSeal		C4P30D  75W PAR30 Page 33					
	C4AIC 120V Residential IC AirSeal	C4AD  75W A19 Page 30	C4P20D  50W PAR20 Page 32			C4AW  75W A19 Page 31		
	C4LV 12V Commercial Non-IC			C4MRD  75W MR16 Page 22			C4MRL  75W MR16 Page 26	
	C4ALV 12V Residential Non-IC AirSeal							
	C4AICLV 12V Residential IC AirSeal			C4MRD  50W MR16 Page 22			C4MRL  50W MR16 Page 26	
Six-inch	C6120 120V Commercial Non-IC	C6AD  100W A19 Page 40	C6P30D  75W PAR30 Page 42			C6AW  100W A19 Page 41	C6P30L  75W PAR30 Page 46	
	C6A120 120V Residential Non-IC AirSeal							
	C6AIC 120V Residential IC AirSeal	C6AD  100W A19 Page 40	C6P30D  75W PAR30 Page 42			C6AW  100W A19 Page 41	C6P30L  75W PAR30 Page 46	
	C6D120 120V Commercial Non-IC	C6AD  200W A21 Page 40	C6P38D  250W PAR38 Page 43			C6AW  200W A21 Page 41	C6P38L  120W PAR38 Page 47	
	C6DA120 120V Residential Non-IC AirSeal							
	C6DAIC 120V Residential IC AirSeal	C6AD  150W A21 Page 40	C6P38D  120W PAR38 Page 43			C6AW  150W A21 Page 41	C6P38L  90W PAR38 Page 47	
	C6LV 12V Commercial Non-IC							
	C6ALV 12V Residential Non-IC AirSeal							
C6AICLV 12V Residential IC AirSeal								

 Reflector/Aperture Finish

Adjustable Accent					Wet Location		APERTURE
PAR	PAR36/AR111	MR16	1 1/4" Pinhole	2" Pinhole	Downlight	Accent	
							Three-inch
		C3MRA  65W MR16 Page 13	C3MRPA  65W MR16 Page 15		C3MRGD  65W MR16 Page 18	C3MRGA  65W MR16 Page 19 C3MRW  65W MR16 Page 17	
		C3MRA  50W MR16 Page 13	C3MRPA  50W MR16 Page 15		C3MRGD  50W MR16 Page 18	C3MRGA  50W MR16 Page 19 C3MRW  50W MR16 Page 17	Four-inch
C4P20A  75W PAR16 Page 34 50W PAR20 Page 34					C4P20GD  75W PAR16 Page 36 50W PAR20 Page 36	C4P20GA  75W PAR16 Page 37 50W PAR20 Page 37	
C4P20A  60W PAR16 Page 34 50W PAR20 Page 34					C4P20GD  60W PAR16 Page 36 50W PAR20 Page 36	C4P20GA  60W PAR16 Page 37 50W PAR20 Page 37	Six-inch
		C4MRA  75W MR16 Page 23	C4MRP  75W MR16 Page 25	C4MR2  75W MR16 Page 24	C4MRGD  75W MR16 Page 28	C4MRGA  75W MR16 Page 29 C4MRW  75W MR16 Page 27	
		C4MRA  50W MR16 Page 23	C4MRP  37W MR16 Page 25	C4MR2  42W MR16 Page 24	C4MRGD  50W MR16 Page 28	C4MRGA  50W MR16 Page 29 C4MRW  50W MR16 Page 27	
C6P30A  75W PAR30 Page 44							
C6P30A  75W PAR30 Page 44							
C6P38A  120W PAR38 Page 45							
C6P38A  90W PAR38 Page 45							
	C6P36A  75W PAR36 Page 48 75W AR111 Page 48						
	C6P36A  50W PAR36 Page 48 50W AR111 Page 48						

 Reflector/Aperture Finish



Matching four-inch aperture MR16 downlights and adjustable luminaires are intermixed in the soffit to provide a seamless blend of accent lighting and smooth ambient illumination.



Photographer: **Michael Dersin Photography**

Lighting Design: Carol Crampton of Crampton Lighting Design

Two-inch aperture adjustable MR16 pinholes in this archway cross beams to dramatically highlight the statues. Custom finished flanges blend gracefully into the rich wood.



Photographer: **Michael Dersin Photography**
Lighting Design: Carol Crampton of Crampton Lighting Design

A mixture of four-inch aperture MR16 downlights and two-inch pinhole accent luminaires collaborate to create a dynamic yet balanced and comfortable visual environment.



Photographer: **Jim Kelley**

Four-inch MR16 Glasslite downlights suitable for outdoor applications also add a subtle decorative glow creating an alluring transition from the outside to the interior space.

FRAME-IN KIT FEATURES

Evolution Frame-In Kits are designed to provide fast, easy installation and maintenance. Rugged, durable construction ensures a lifetime of consistent, reliable performance. Evolution Frame-In Kits are available in three different configurations for each aperture to accommodate commercial or residential construction.

Non-IC frames are suitable for commercial applications; Non-IC Airseal® and IC Airseal® are specifically designed for installation in residential construction. IC or Insulated Ceiling frame-in kits are cULus listed for direct contact with insulation. Evolution trim assemblies are interchangeable between the different frames.

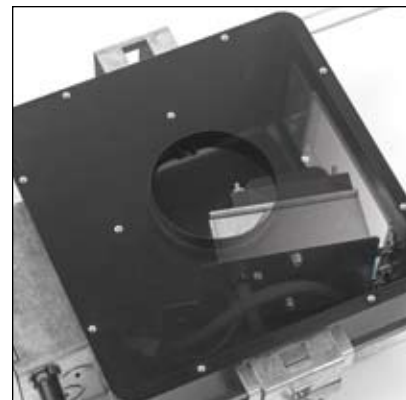


Residential and three-inch commercial frames come complete with pre-installed, telescoping mounting bars.

Matte black housing interior eliminates brightness inside of fixture.

Magnetic transformers are mounted with four bolts for acoustic isolation; three-inch aperture frames are available with electronic transformer.

All low voltage frame-in kits provide access to the transformer from below. The three-inch aperture units feature an innovative hinged transformer assembly to accommodate the reduced size of the opening. The transformer door rotates into the fixture, positioning the transformer directly over the aperture to allow one-handed removal.



T R I M F E A T U R E S

Evolution Trim assemblies feature unitized optics, which maintain proper alignment between the lamp and reflector throughout the range of adjustment providing maximum light output and glare control. The entire optical assembly adjusts to compensate for installation variations and is aligned to the ceiling plane, not the housing.

Precise optical contours are developed using state-of-the-art 3D modeling and photometric simulation software combined with generations of experience. Computer-controlled manufacturing enables Lightolier to achieve tight tolerances and deliver consistent quality and superior performance.

Adjustable trims feature hot aiming and locking with 360° minimum horizontal rotation and up to 45° vertical tilt.

Standard soft focus lens in MR16 adjustable accent trims assures a smooth beam pattern; knurled lampholder assembly accepts up to two filter/lens media.



Matte black rotating aperture shield blocks the view into the fixture.

Keyed optics prevent incorrect installation of reflector.

Advanced mechanical and optical engineering unite to create precision accent lighting instruments delivering unprecedented performance and accuracy. Adjustments are set while the lamp is powered, reducing the time required to aim the fixtures by up to 50% compared to conventional designs. Once locked in place, re-lamping will not disturb the focus.







T H R E E - I N C H

At a miniature 2 7/8" diameter, Evolution offers the smallest aperture MR16 downlight family available with specification-grade performance and glare control. Advanced optical and mechanical engineering deliver sophisticated optical systems designed to maximize usable light output while minimizing the aperture presence for a clean, unobtrusive ceiling appearance.

Exclusive EZ-Aim™ gear-driven adjustment provides hot aiming and locking with unprecedented speed and accuracy. Innovative Push-Lock™ trim retention mechanism accommodates ceilings up to 2" thick while maintaining unitized optics for consistent performance.



Elegant flangeless trim option provides an integrated, flush ceiling transition for a refined, upscale appearance. A complete palette of high-performance optics is available providing the power and performance to enrich virtually any visual environment.

T H R E E - I N C H F E A T U R E S

The revolutionary design of the new three-inch aperture product line defines the state-of-the-art in both lighting performance and mechanical precision. Evolution three-inch incorporates sophisticated trim attachment and adjustment mechanisms to

achieve a new level of versatility in installation and aiming. These features provide the flexibility to alleviate real world variables insuring dependable performance and quality throughout the life of the installation.



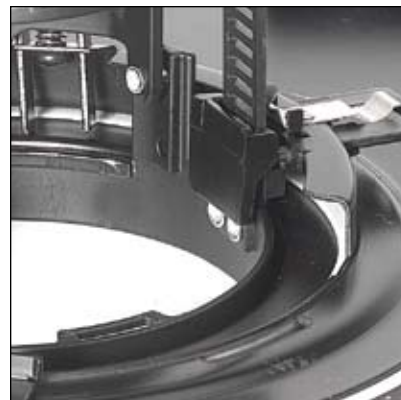
Full 362 degrees of horizontal rotation locks securely in place by dual-contact clamp.

Push-Lock™ trim retention system accommodates ceilings up to 2" thick while maintaining unitized optics.

Self-lubricating teflon gasket reduces friction for smooth, easy rotation.

Full perimeter spin ring retention plate ensures alignment with the aperture.

The innovative new Push Lock™ trim retention system provides fast, tool-less attachment and accommodates a range of ceilings from 0" to 2" thick for maximum installation flexibility. Sliding dual-pin retaining clamp securely locks perforated mounting brackets at variable heights while maintaining unitized optics for optimal performance.



T H R E E - I N C H F E A T U R E S

Optical performance is only part of the Evolution story. In today's demanding visual environments, downlights must not only be functional, but aesthetically pleasing as well. A smaller aperture and a smoother ceiling transition are desired.

Three-inch aperture luminaires achieve the absolute minimal ceiling presence with the ultimate combination of small, low-brightness apertures and a smooth, flangeless ceiling integration.



Image shown - **C3MRPASAFT** trim with **CA3FMR** flangeless trim accessory ring

After the frame is installed, the flangeless ring is inserted into the ceiling opening and the flange is plastered over and finished. The end result is a clean inconspicuous appearance with a flush, virtually seamless transition from aperture to ceiling.

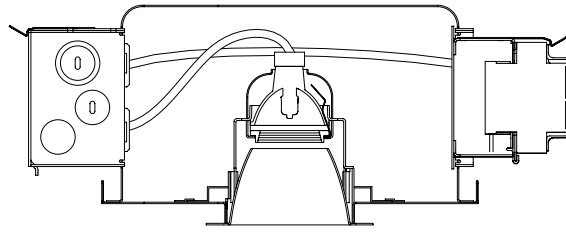
Low profile, machined aluminum flangeless accessory ring provides a raised rib to plaster up to and a flange thickness of only .03". The ring is attached to the ceiling material as opposed to the frame-in kit to avoid conduction of heat and vibration which can cause yellowing or cracking of the plaster. (See page 51)

The three-inch pinhole faceplate is precision-machined from solid aluminum to provide the sharpest possible aperture edge and minimal flange thickness. The solid center section dissipates heat away from the lamp and flange for reliable operation.



CALCULITE

Evolution 3" Aperture Downlight



C3MRD **CLW** Trim with
C3LV Frame-In Kit shown.
Ceiling Cutout: 3 1/2"

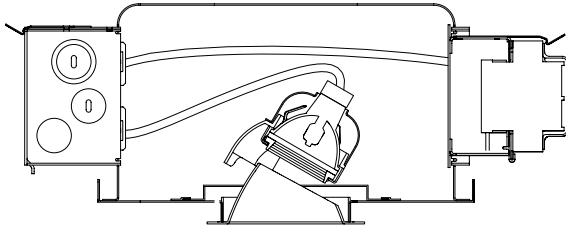
- 50° physical and reflected cutoff
- Precision optics minimize aperture brightness
- Soft diffusion lens for smooth, even beam
- Unitized optics ensure consistent performance
- Push-Lock™ trim retention system accommodates ceilings up to 2" thick while maintaining unitized optics.

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1		+	2		
Trim Kit	Reflector Finish		Frame-In Kit		
			Non-IC	Non-IC AirSeal	IC AirSeal
C3MRD	<input type="checkbox"/>	+ C3	<input type="checkbox"/>	C3A <input type="checkbox"/>	C3AI <input type="checkbox"/>

Evolution 3" Aperture Adjustable Accent



C3MRA **CLW** Trim with
C3LV Frame-In Kit shown.
Ceiling Cutout: 3 1/2"

- EZ-Aim™ gear-driven vertical adjustment
- Matte black shield blocks view into fixture
- Standard soft-focus lens for smooth beam
- Unitized optics ensure consistent performance
- Push-Lock™ trim retention system accommodates ceilings up to 2" thick while maintaining unitized optics.

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

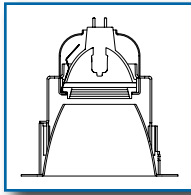
1		+	2		
Trim Kit	Reflector Finish		Frame-In Kit		
			Non-IC	Non-IC AirSeal	IC AirSeal
C3MRA	<input type="checkbox"/>	+ C3	<input type="checkbox"/>	C3A <input type="checkbox"/>	C3AI <input type="checkbox"/>

1				+	2								
Reflector Finish	White Flange	Polished Flange	Flangeless		Frame-In Kits	Type	Transformer	Input Voltage	Lamp	Wattage	Length	Width	Height
Clear	CLW	CLP	CLFT		C3LV	Non-IC	Magnetic	120V/277V	MR16	42W-65W	14 3/8"	12 11/16"	5"
Comfort Clear Diffuse	CCDW	CCDP	CCDFT		C3LVE1	Non-IC	Electronic	120V	MR16	65W Max.	14 1/4"	12 11/16"	5"
White	WHW	N/A	WHFT		C3ALV	Non-IC AirSeal	Magnetic	120V/277V	MR16	42W-65W	14 3/8"	9 9/16"	5"
Black	BKW	BKP	BKFT		C3ALVE1	Non-IC AirSeal	Electronic	120V	MR16	65W Max.	14 3/8"	9 9/16"	5"
					C3AICLV	IC AirSeal	Magnetic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
					C3AICLVE1	IC AirSeal	Electronic	120V	MR16	50W Max.	22 3/8"	10 1/8"	9"

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 3" Aperture Downlight



3" Aperture, 37W MR16 IR – 40° FL

Reflector Trim: **C3MRD** **CLW**

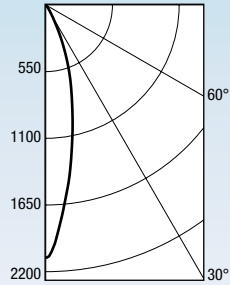
Report No.: 2741FR

Lamp: 37W MR16 IR
40° Flood

Initial Lumens: 840

Efficiency: 68.7%

Spacing: 0.4



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	41
5'	26
6'	18
7'	13
8'	10
10'	7

Based on 60' x 60' Room
80/50/20% Reflectances

3" Aperture, 50W MR16 IR – 40° FL

Reflector Trim: **C3MRD** **CLW**

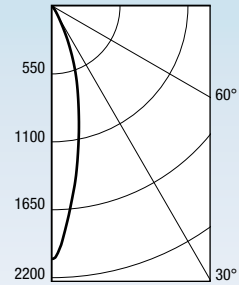
Report No.: 2629FR

Lamp: 50W MR16 IR
40° Flood

Initial Lumens: 1125

Efficiency: 68.8%

Spacing: 0.4

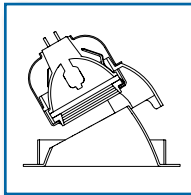


Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	55
5'	35
6'	24
7'	18
8'	14
10'	9

Based on 60' x 60' Room
80/50/20% Reflectances

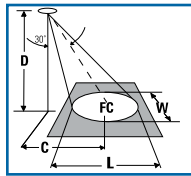
Evolution 3" Aperture Adjustable Accent



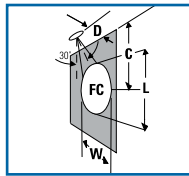
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



3" Aperture, 50W MR16 – 15° SP

Reflector Trim: **C3MRA** **CLW**

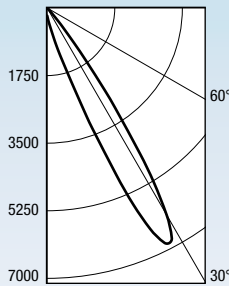
Report No.: 2712FR

Lamp: 50W MR16
15° Spot

Max Tilt: 45°

Initial Lumens: 750

Luminaire Beam: 13°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	133	3.1'	2.7'
8'	4.6'	75	4.2'	3.6'
10'	5.8'	48	5.2'	4.5'
12'	6.9'	33	6.3'	5.4'
15'	8.7'	21	7.9'	6.7'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	260	3.5'	1.6'
3'	5.2'	117	5.3'	2.3'
4'	6.9'	66	7.0'	3.1'
6'	10.4'	29	10.5'	4.7'
8'	13.9'	17	14.0'	6.2'

3" Aperture, 50W MR16 – 25° NFL

Reflector Trim: **C3MRA** **CLW**

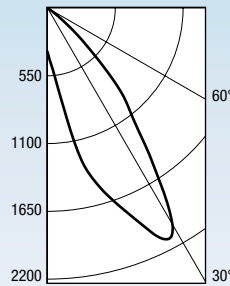
Report No.: 2708FR

Lamp: 50W MR16
25° Narrow Flood

Max Tilt: 45°

Initial Lumens: 800

Luminaire Beam: 28°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	41	4.1'	3.5'
8'	4.6'	23	5.4'	4.6'
10'	5.8'	15	6.8'	5.8'
12'	6.9'	10	8.1'	5.9'
15'	8.7'	7	10.2'	8.6'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	91	4.9'	2.0'
3'	5.2'	40	7.4'	3.0'
4'	6.9'	23	9.8'	4.0'
6'	10.4'	10	14.7'	6.0'
8'	13.9'	6	19.6'	8.0'

3" Aperture, 50W MR16 – 40° FL

Reflector Trim: **C3MRA** **CLW**

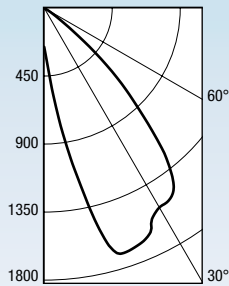
Report No.: 2709FR

Lamp: 50W MR16
40° Flood

Max Tilt: 45°

Initial Lumens: 800

Luminaire Beam: 35°



30° Aiming Angle - Horizontal Surface

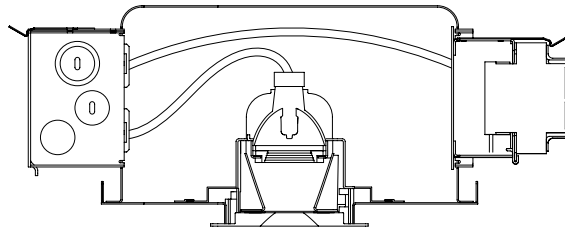
D	C	FC	L	W
6'	3.5'	40	5.2'	4.4'
8'	4.6'	23	7.0'	5.8'
10'	5.8'	15	8.7'	7.3'
12'	6.9'	10	10.4'	8.7'
15'	8.7'	6	13.0'	10.9'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	102	7.2'	2.5'
3'	5.2'	45	10.8'	3.8'
4'	6.9'	25	14.4'	5.0'
6'	10.4'	11	21.6'	7.6'
8'	13.9'	6	28.8'	10.1'

CALCULITE

Evolution 3" Pinhole Downlight



C3MRPD BK Trim with
C3LV Frame-In Kit shown.
Ceiling Cutout: 3 1/2"

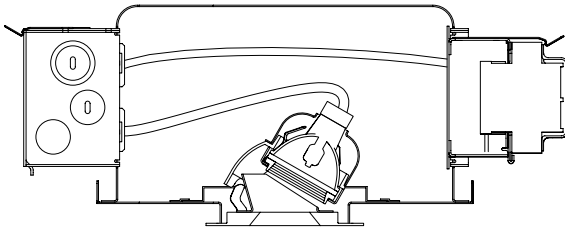
- 1 1/4" machined, knife-edged pinhole aperture
- Deeply regressed lamp position
- Integral matte black glare shield
- Unitized optics ensure consistent performance
- Push-Lock™ trim retention system accommodates ceilings up to 2" thick while maintaining unitized optics

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1		+	2		
Trim Kit	Aperture Finish		Frame-In Kit		
			Non-IC	Non-IC AirSeal	IC AirSeal
C3MRPD	<input type="checkbox"/>	+ C3	<input type="checkbox"/>	C3A <input type="checkbox"/>	C3AI <input type="checkbox"/>

Evolution 3" Pinhole Adjustable Accent



C3MRPA SA Trim with
C3LV Frame-In Kit shown.
Ceiling Cutout: 3 1/2"

- 1 1/4" machined, knife-edged pinhole aperture
- EZ-Aim™ gear-driven vertical adjustment
- Standard soft-focus lens for smooth beam
- Unitized optics ensure consistent performance
- Push-Lock™ trim retention system accommodates ceilings up to 2" thick while maintaining unitized optics

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1		+	2		
Trim Kit	Aperture Finish		Frame-In Kit		
			Non-IC	Non-IC AirSeal	IC AirSeal
C3MRPA	<input type="checkbox"/>	+ C3	<input type="checkbox"/>	C3A <input type="checkbox"/>	C3AI <input type="checkbox"/>

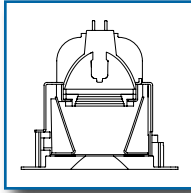
1				+	2								
Aperture Finish	White Flange	Polished Flange	Flangeless		Frame-In Kits	Type	Transformer	Input Voltage	Lamp	Wattage	Length	Width	Height
White	WH	N/A	WHFT		C3LV	Non-IC	Magnetic	120V/277V	MR16	42W-65W	14 3/8"	12 11/16"	5"
Black	BK	N/A	BKFT		C3LVE1	Non-IC	Electronic	120V	MR16	65W Max.	14 1/4"	12 11/16"	5"
Satin Aluminum	N/A	SA	SAFT		C3ALV	Non-IC AirSeal	Magnetic	120V/277V	MR16	42W-65W	14 3/8"	9 9/16"	5"
					C3ALVE1	Non-IC AirSeal	Electronic	120V	MR16	65W Max.	14 3/8"	9 9/16"	5"
					C3AICLV	IC AirSeal	Magnetic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
					C3AICLVE1	IC AirSeal	Electronic	120V	MR16	50W Max.	22 3/8"	10 1/8"	9"

See Pinhole finishes on page 50.

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 3" Pinhole Downlight



1 1/4" Pinhole, 37W MR16 IR – 40° FL

Reflector Trim: **C3MRPD** **BK**

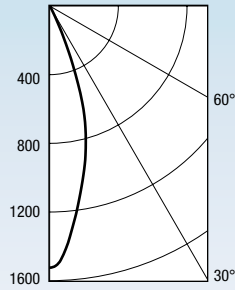
Report No.: 2739FR

Lamp: 37W MR16 IR
40° Flood

Initial Lumens: 840

Efficiency: 53.5%

Spacing: 0.5



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	32
5'	20
6'	14
7'	10
8'	8
10'	5

Based on 60' x 60' Room
80/50/20% Reflectances

1 1/4" Pinhole, 50W MR16 – 40° FL

Reflector Trim: **C3MRPD** **BK**

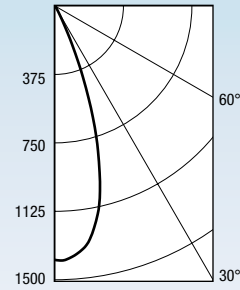
Report No.: 2720FR

Lamp: 50W MR16
40° Flood

Initial Lumens: 800

Efficiency: 62.5%

Spacing: 0.6

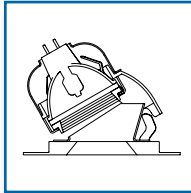


Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	36
5'	23
6'	16
7'	12
8'	9
10'	6

Based on 60' x 60' Room
80/50/20% Reflectances

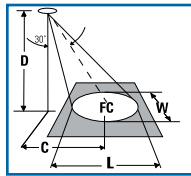
Evolution 3" Pinhole Adjustable Accent



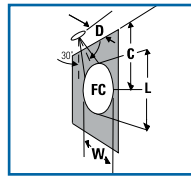
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



1 1/4" Pinhole, 37W MR16 IR – 10° SP

Reflector Trim: **C3MRPA** **BK**

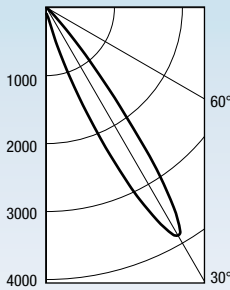
Report No.: 2740FR

Lamp: 37W MR16 IR
10° Spot

Max Tilt: 45°

Initial Lumens: 840

Luminaire Beam: 15°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	70	2.1'	1.8'
8'	4.6'	39	2.8'	2.4'
10'	5.8'	25	3.5'	3.0'
12'	6.9'	17	4.2'	3.6'
15'	8.7'	11	5.3'	4.6'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	146	2.2'	1.1'
3'	5.2'	65	3.3'	1.6'
4'	6.9'	37	4.4'	2.1'
6'	10.4'	16	6.7'	3.2'
8'	13.9'	9	8.9'	4.2'

1 1/4" Pinhole, 50W MR16 – 10° SP

Reflector Trim: **C3MRPA** **BK**

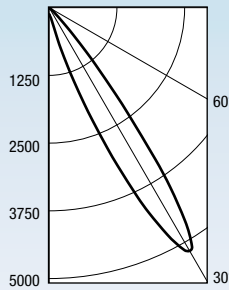
Report No.: 2718FR

Lamp: 50W MR16
10° Spot

Max Tilt: 45°

Initial Lumens: 1125

Luminaire Beam: 15°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	94	2.1'	1.8'
8'	4.6'	53	2.8'	2.4'
10'	5.8'	34	3.5'	3.0'
12'	6.9'	23	4.2'	3.6'
15'	8.7'	15	5.3'	4.6'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	195	2.2'	1.1'
3'	5.2'	88	3.3'	1.6'
4'	6.9'	49	4.4'	2.1'
6'	10.4'	22	6.7'	3.2'
8'	13.9'	12	8.9'	4.2'

1 1/4" Pinhole, 50W MR16 – 25° NFL

Reflector Trim: **C3MRPA** **BK**

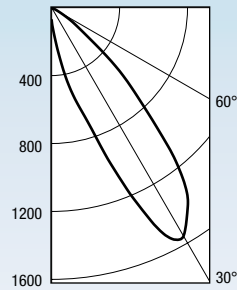
Report No.: 2719FR

Lamp: 50W MR16
25° Narrow Flood

Max Tilt: 45°

Initial Lumens: 800

Luminaire Beam: 26°



30° Aiming Angle - Horizontal Surface

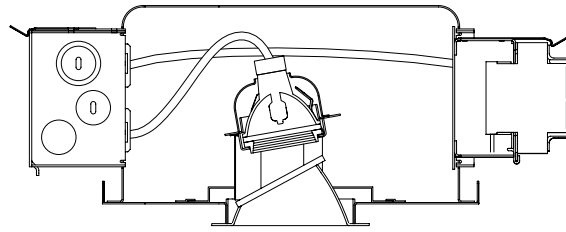
D	C	FC	L	W
6'	3.5'	29	3.8'	3.2'
8'	4.6'	17	5.0'	4.3'
10'	5.8'	11	6.3'	5.3'
12'	6.9'	7	7.5'	6.4'
15'	8.7'	5	9.4'	8.0'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	78	4.4'	1.8'
3'	5.2'	35	6.6'	2.8'
4'	6.9'	20	8.8'	3.7'
6'	10.4'	9	13.2'	5.5'
8'	13.9'	5	17.6'	7.4'

CALCULITE

Evolution 3" Aperture Lensed Wall Wash



C3MRL **CLW** Trim with **C3LV** Frame-In Kit shown.
Ceiling Cutout: 3 1/2"

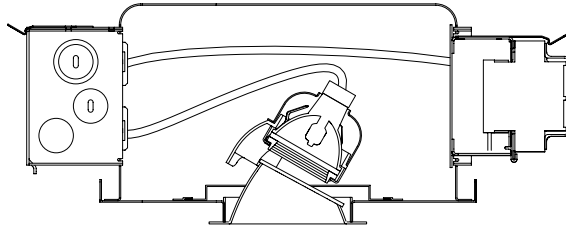
- Highly reflective precision kick reflector
- Tempered, frosted directional spread lens
- cULus listed for use in wet locations
- Unitized optics ensure consistent performance
- Push-Lock™ trim retention system accommodates ceilings up to 2" thick while maintaining unitized optics

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1 +		2	
	Reflector Finish	Non-IC	Frame-In Kit Non-IC AirSeal	IC AirSeal
C3MRL	<input type="checkbox"/>	+ C3 <input type="checkbox"/>	C3A <input type="checkbox"/>	C3AI <input type="checkbox"/>

Evolution 3" Aperture Lensed Adjustable Accent



C3MRW **CLW** Trim with **C3LV** Frame-In Kit shown.
Ceiling Cutout: 3 1/2"

- cULus listed for use in wet locations
- EZ-Aim™ gear-driven vertical adjustment
- Standard soft-focus lens for smooth beam
- Unitized optics ensure consistent performance
- Push-Lock™ trim retention system accommodates ceilings up to 2" thick while maintaining unitized optics

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

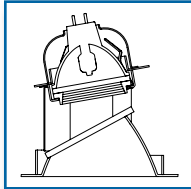
Trim Kit	1 +		2	
	Reflector Finish	Non-IC	Frame-In Kit Non-IC AirSeal	IC AirSeal
C3MRW	<input type="checkbox"/>	+ C3 <input type="checkbox"/>	C3A <input type="checkbox"/>	C3AI <input type="checkbox"/>

1				2								
Reflector Finish	White Flange	Polished Flange	Flangeless	Frame-In Kits	Type	Transformer	Input Voltage	Lamp	Wattage	Length	Width	Height
Clear	CLW	CLP	CLFT	C3LV	Non-IC	Magnetic	120V/277V	MR16	42W-65W	14 3/8"	12 11/16"	5"
Comfort Clear Diffuse	CCDW	CCDP	CCDFT	C3LVE1	Non-IC	Electronic	120V	MR16	65W Max.	14 1/4"	12 11/16"	5"
White	WHW	N/A	WHFT	C3ALV	Non-IC AirSeal	Magnetic	120V/277V	MR16	42W-65W	14 3/8"	9 9/16"	5"
Black	BKW	BKP	BKFT	C3ALVE1	Non-IC AirSeal	Electronic	120V	MR16	65W Max.	14 3/8"	9 9/16"	5"
				C3AICLV	IC AirSeal	Magnetic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
				C3AICLVE1	IC AirSeal	Electronic	120V	MR16	50W Max.	22 3/8"	10 1/8"	9"

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 3" Aperture Lensed Wall Wash



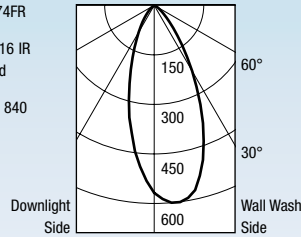
3" Aperture, 37W MR16 IR – 40° FL

Reflector Trim: **C3MRL** **CLW**

Report No.: 2774FR

Lamp: 37W MR16 IR
40° Flood

Initial Lumens: 840



Multiple Unit Data - RCR 1

2' from Wall - 2' On Center

Distance From Ceiling in Feet	2'			
	1	3	3	3
1	3	3	3	3
2	7	7	7	7
3	12	11	12	12
4	13	13	13	13
5	12	12	12	12
6	10	10	10	10
7	9	8	9	9
8	7	7	7	7
9	6	6	6	6
10	5	5	5	5

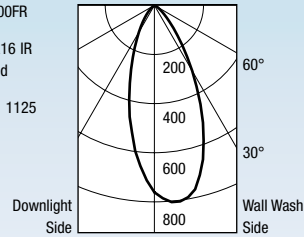
3" Aperture, 50W MR16 IR – 40° FL

Reflector Trim: **C3MRL** **CLW**

Report No.: 2700FR

Lamp: 50W MR16 IR
40° Flood

Initial Lumens: 1125

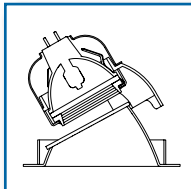


Multiple Unit Data - RCR 1

2' from Wall - 2' On Center

Distance From Ceiling in Feet	2'			
	1	4	3	4
1	4	3	4	4
2	10	9	10	10
3	16	15	16	16
4	18	17	18	18
5	16	16	16	16
6	14	14	14	14
7	12	11	11	11
8	10	10	10	10
9	8	8	8	8
10	7	7	7	7

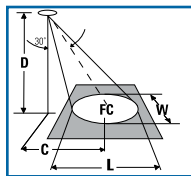
Evolution 3" Aperture Lensed Adjustable Accent



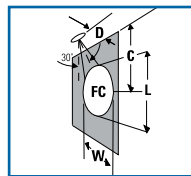
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



3" Aperture, 50W MR16 – 15° SP

Reflector Trim: **C3MRW** **CLW**

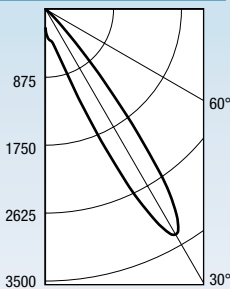
Report No.: 2784FR

Lamp: 50W MR16
15° Spot

Max Tilt: 45°

Initial Lumens: 750

Luminaire Beam: 15°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	61	2.1'	1.8'
8'	4.6'	34	2.8'	2.4'
10'	5.8'	22	3.5'	3.0'
12'	6.9'	15	4.2'	3.6'
15'	8.7'	10	5.3'	4.6'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	135	2.2'	1.1'
3'	5.2'	61	3.3'	1.6'
4'	6.9'	34	4.4'	2.1'
6'	10.4'	15	6.7'	3.2'
8'	13.9'	9	8.9'	4.2'

3" Aperture, 50W MR16 – 25° NFL

Reflector Trim: **C3MRW** **CLW**

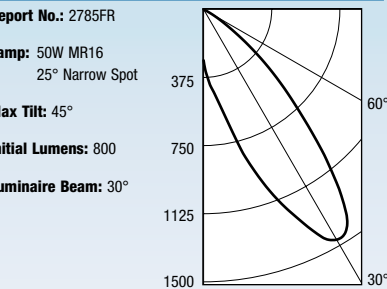
Report No.: 2785FR

Lamp: 50W MR16
25° Narrow Spot

Max Tilt: 45°

Initial Lumens: 800

Luminaire Beam: 30°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	27	4.4'	3.7'
8'	4.6'	15	5.9'	5.0'
10'	5.8'	10	7.3'	6.2'
12'	6.9'	7	8.8'	7.4'
15'	8.7'	4	11.0'	9.3'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	75	5.5'	2.1'
3'	5.2'	33	8.2'	3.2'
4'	6.9'	19	10.9'	4.3'
6'	10.4'	8	16.4'	6.4'
8'	13.9'	5	21.9'	8.6'

3" Aperture, 50W MR16 – 40° FL

Reflector Trim: **C3MRW** **CLW**

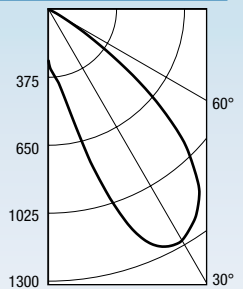
Report No.: 2786FR

Lamp: 50W MR16
40° Flood

Max Tilt: 45°

Initial Lumens: 800

Luminaire Beam: 36°



30° Aiming Angle - Horizontal Surface

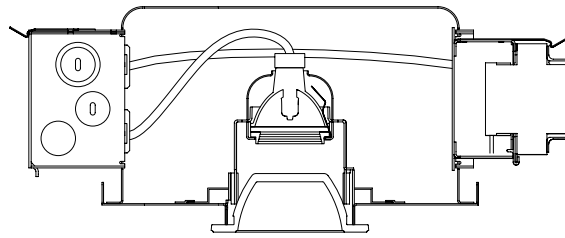
D	C	FC	L	W
6'	3.5'	26	5.4'	4.5'
8'	4.6'	15	7.2'	6.0'
10'	5.8'	9	9.0'	7.5'
12'	6.9'	7	10.8'	9.0'
15'	8.7'	4	13.5'	11.3'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	89	7.6'	2.6'
3'	5.2'	39	11.4'	3.9'
4'	6.9'	22	15.2'	5.2'
6'	10.4'	10	22.8'	7.8'
8'	13.9'	6	30.4'	10.4'

CALCULITE

Evolution 3" Aperture Glasslite Downlight



C3MRGD Trim with
C3LV Frame-In Kit shown.
Ceiling Cutout: 3 1/2"

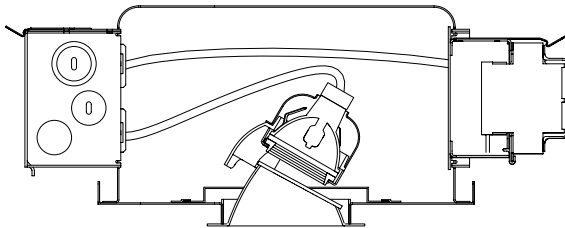
- cULus listed for use in wet locations
- One-piece borosilicate glass construction
- Etched aperture finish emits a soft glow
- Unitized optics ensure consistent performance
- Push-Lock™ trim retention system accommodates ceilings up to 2" thick while maintaining unitized optics

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1	+	2		
Trim Kit	Frame-In Kit			
	Non-IC	Non-IC AirSeal	IC AirSeal	
C3MRGD	+ C3 <input type="checkbox"/>	C3A <input type="checkbox"/>	C3AI <input type="checkbox"/>	

Evolution 3" Aperture Glasslite Adjustable Accent



C3MRGA Trim with
C3LV Frame-In Kit shown.
Ceiling Cutout: 3 1/2"

- cULus listed for use in wet locations
- EZ-Aim™ gear-driven vertical adjustment
- Etched glass aperture emits a soft glow
- Unitized optics ensure consistent performance
- Push-Lock™ trim retention system accommodates ceilings up to 2" thick while maintaining unitized optics

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1	+	2		
Trim Kit	Frame-In Kit			
	Non-IC	Non-IC AirSeal	IC AirSeal	
C3MRGA	+ C3 <input type="checkbox"/>	C3A <input type="checkbox"/>	C3AI <input type="checkbox"/>	

2

Frame-In Kits	Type	Transformer	Input Voltage	Lamp	Wattage	Length	Width	Height
C3LV	Non-IC	Magnetic	120V/277V	MR16	42W-65W	14 3/8"	12 11/16"	5"
C3LVE1	Non-IC	Electronic	120V	MR16	65W Max.	14 1/4"	12 11/16"	5"
C3ALV	Non-IC AirSeal	Magnetic	120V/277V	MR16	42W-65W	14 3/8"	9 9/16"	5"
C3ALVE1	Non-IC AirSeal	Electronic	120V	MR16	65W Max.	14 3/8"	9 9/16"	5"
C3AICLV	IC AirSeal	Magnetic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
C3AICLVE1	IC AirSeal	Electronic	120V	MR16	50W Max.	22 3/8"	10 1/8"	9"

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 3" Aperture Glasslite Downlight

3" Aperture, 50W MR16 – 15° SP

Reflector Trim: **C3MRGD**

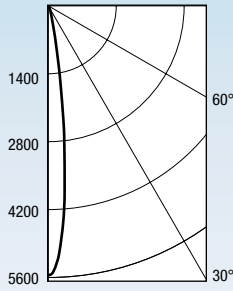
Report No.: 2724FR

Lamp: 50W MR16
15° Spot

Initial Lumens: 750

Efficiency: 69.7%

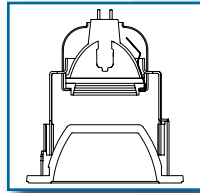
Spacing: 0.2



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	38
5'	24
6'	17
7'	12
8'	9
10'	6

Based on 60' x 60' Room
80/50/20% Reflectances



3" Aperture, 50W MR16 – 25° NFL

Reflector Trim: **C3MRGD**

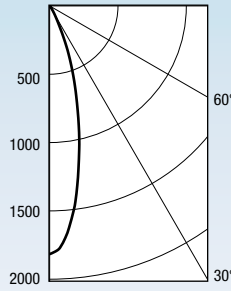
Report No.: 2723FR

Lamp: 50W MR16
25° Narrow Flood

Initial Lumens: 800

Efficiency: 65.1%

Spacing: 0.5



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	37
5'	24
6'	16
7'	12
8'	9
10'	6

Based on 60' x 60' Room
80/50/20% Reflectances

3" Aperture, 50W MR16 – 40° FL

Reflector Trim: **C3MRGD**

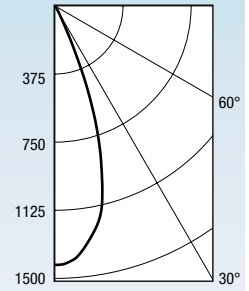
Report No.: 2722FR

Lamp: 50W MR16
40° Flood

Initial Lumens: 800

Efficiency: 68.0%

Spacing: 0.6

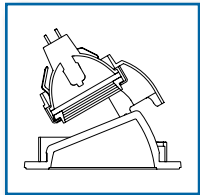


Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	39
5'	25
6'	17
7'	13
8'	10
10'	6

Based on 60' x 60' Room
80/50/20% Reflectances

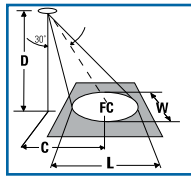
Evolution 3" Aperture Glasslite Adjustable Accent



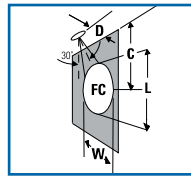
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



3" Aperture, 50W MR16 – 15° SP

Reflector Trim: **C3MRGA**

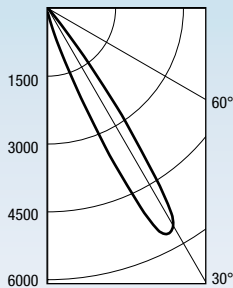
Report No.: 2711FR

Lamp: 50W MR16
15° Spot

Max Tilt: 45°

Initial Lumens: 750

Luminaire Beam: 13°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	107	1.8'	1.6'
8'	4.6'	61	2.4'	2.1'
10'	5.8'	39	3.1'	2.6'
12'	6.9'	27	3.7'	3.2'
15'	8.7'	18	4.6'	3.9'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	235	1.9'	0.9'
3'	5.2'	106	2.8'	1.4'
4'	6.9'	60	3.8'	1.8'
6'	10.4'	27	5.7'	2.7'
8'	13.9'	15	7.6'	3.6'

3" Aperture, 50W MR16 – 25° NFL

Reflector Trim: **C3MRGA**

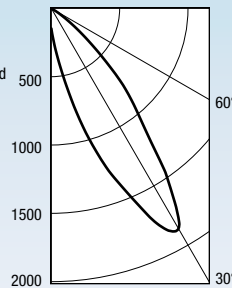
Report No.: 2707FR

Lamp: 50W MR16
25° Narrow Flood

Max Tilt: 45°

Initial Lumens: 800

Luminaire Beam: 25°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	35	3.6'	3.1'
8'	4.6'	20	4.8'	4.1'
10'	5.8'	13	6.0'	5.1'
12'	6.9'	9	7.2'	6.1'
15'	8.7'	6	9.0'	7.7'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	75	4.2'	1.8'
3'	5.2'	33	6.2'	2.7'
4'	6.9'	19	8.3'	3.5'
6'	10.4'	8	12.5'	5.3'
8'	13.9'	5	16.6'	7.1'

3" Aperture, 50W MR16 – 40° FL

Reflector Trim: **C3MRGA**

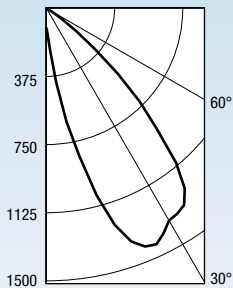
Report No.: 2710FR

Lamp: 50W MR16
40° Flood

Max Tilt: 45°

Initial Lumens: 800

Luminaire Beam: 34°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	31	5.0'	4.2'
8'	4.6'	18	6.7'	5.6'
10'	5.8'	11	8.4'	7.1'
12'	6.9'	8	10.1'	8.5'
15'	8.7'	5	12.6'	10.6'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	79	6.8'	2.4'
3'	5.2'	36	10.2'	3.7'
4'	6.9'	20	13.6'	4.9'
6'	10.4'	9	20.4'	7.3'
8'	13.9'	5	27.2'	9.8'



F O U R - I N C H

The Evolution four-inch product family offers the most comprehensive selection of downlighting tools available within a single aperture size. A complete palette of downlight, wall wash, adjustable accent and wet location optics, along with a variety of lamp choices, provide dynamic lighting effects while maintaining a consistent appearance from below.

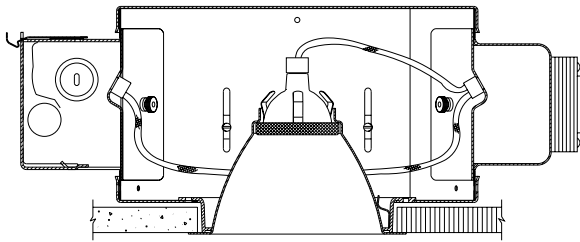
Evolution optical systems are methodically designed around each lamp to assure optimum performance, efficiency and visual comfort. Aperture reflectors are precision-engineered to provide exceptional glare control and reduced aperture brightness with 50° physical and reflected cutoff.



Unitized optical assemblies guarantee precise alignment between the lamp and reflector for consistent, reliable performance and maximum light output regardless of the installation or ceiling thickness. Versatile interchangeable optics allow fast and easy lamp and distribution changes from below, even after the ceiling is finished.

CALCULITE

Evolution 4 1/2" Aperture Downlight



C4MRD **CLW** Trim with
C4LVMU Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

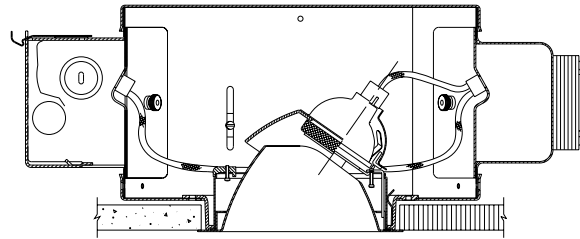
- 50° physical and reflected cutoff
- Re-lampable without removing reflector cone
- Perimeter frost lens for smooth, even beam
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1	+	2					
	Reflector Finish		Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler		
C4MRD	<input type="checkbox"/>	+ C4	<input type="checkbox"/>	C4A	<input type="checkbox"/>	C4AIC	<input type="checkbox"/>	C4LVE1RM

Evolution 4 1/2" Aperture Adjustable Accent



C4MRA **CLW** Trim with
C4LVMU Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

- Locking vertical and horizontal adjustment
- Matte black shield blocks view into fixture
- Standard soft-focus lens for smooth beam
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

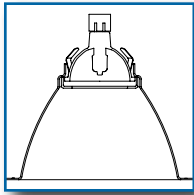
Trim Kit	1	+	2					
	Reflector Finish		Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler		
C4MRA	<input type="checkbox"/>	+ C4	<input type="checkbox"/>	C4A	<input type="checkbox"/>	C4AIC	<input type="checkbox"/>	C4LVE1RM

1			+	2							
Reflector Finish	White Flange	Polished Flange		Frame-In Kits	Type	Transformer	Input Voltage	Lamp	Wattage	Length	Width
Clear	CLW	CLP	C4LVMU	Non-IC	Magnetic	120V/277V	MR16	42W-75W	14 3/8"	12 5/8"	5"
Comfort Clear Diffuse	CCDW	CCDP	C4LVE1	Non-IC	Electronic	120V	MR16	42W-75W	14 3/8"	12 5/8"	5"
White	WHW	N/A	C4ALVMU	Non-IC AirSeal	Magnetic	120V/277V	MR16	42W-75W	14 3/8"	9 5/8"	5"
Black	BKW	BKP	C4ALVE1	Non-IC AirSeal	Electronic	120V	MR16	42W-75W	14 3/8"	9 5/8"	5"
			C4AICLVM1	IC AirSeal	Magnetic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
			C4AICLVE1	IC AirSeal	Electronic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
			C4LVE1RM	Non-IC Remodeler	Electronic	120V	MR16	50W Max.	11 5/8"	7"	5 1/2"

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 4 1/2" Aperture Downlight



4 1/2" Aperture, 73W MR16 – 36° FL

Reflector Trim: **C4MRD** **CLW**

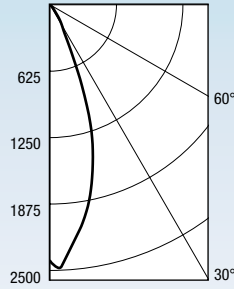
Report No.: 0881FR

Lamp: 73W MR16
36° Flood

Initial Lumens: 1320

Efficiency: 74.4 %

Spacing: 0.6



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	70
5'	45
6'	31
7'	23
8'	18
9'	14

Based on 60' x 60' Room
80/50/20% Reflectances

4 1/2" Aperture, 50W MR16 – 40° FL

Reflector Trim: **C4MRD** **CLW**

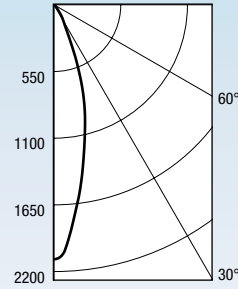
Report No.: 0931FR

Lamp: 50W MR16
40° Flood

Initial Lumens: 800

Efficiency: 84.3%

Spacing: 0.5

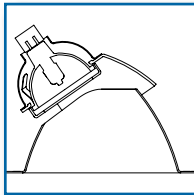


Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	48
5'	31
6'	21
7'	16
8'	12
9'	10

Based on 60' x 60' Room
80/50/20% Reflectances

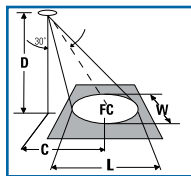
Evolution 4 1/2" Aperture Adjustable Accent



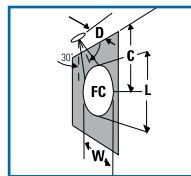
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



4 1/2" Aperture, 50W MR16 – 15° NSP

Reflector Trim: **C4MRA** **CLW**

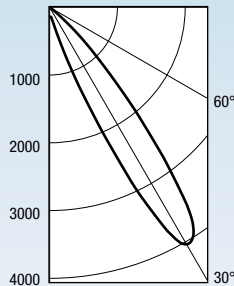
Report No.: 2742FR

Lamp: 50W MR16
15° Narrow Spot

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 750

Luminaire Beam: 17°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	73	2.4'	2.1'
8'	4.6'	41	3.2'	2.8'
10'	5.8'	26	4.0'	3.5'
12'	6.9'	18	4.8'	4.1'
15'	8.7'	12	6.0'	5.2'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	171	2.6'	1.2'
3'	5.2'	78	3.8'	1.8'
4'	6.9'	44	5.1'	2.4'
6'	10.4'	20	7.7'	3.6'
8'	13.9'	11	10.3'	4.8'

4 1/2" Aperture, 50W MR16 – 25° NFL

Reflector Trim: **C4MRA** **CLW**

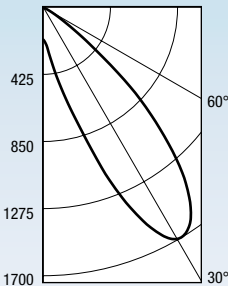
Report No.: 2749FR

Lamp: 50W MR16
25° Narrow Flood

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 800

Luminaire Beam: 29°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	32	4.2'	3.6'
8'	4.6'	18	5.6'	4.8'
10'	5.8'	11	7.1'	6.0'
12'	6.9'	8	8.5'	7.2'
15'	8.7'	5	10.6'	9.0'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	100	5.2'	2.1'
3'	5.2'	44	7.8'	3.1'
4'	6.9'	25	10.4'	4.1'
6'	10.4'	11	15.5'	6.2'
8'	13.9'	6	20.7'	8.3'

4 1/2" Aperture, 50W MR16 – 40° FL

Reflector Trim: **C4MRA** **CLW**

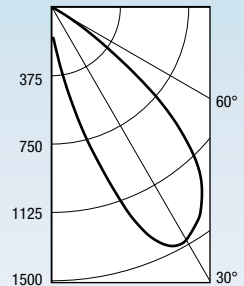
Report No.: 2750FR

Lamp: 50W MR16
40° Flood

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 800

Luminaire Beam: 35°



30° Aiming Angle - Horizontal Surface

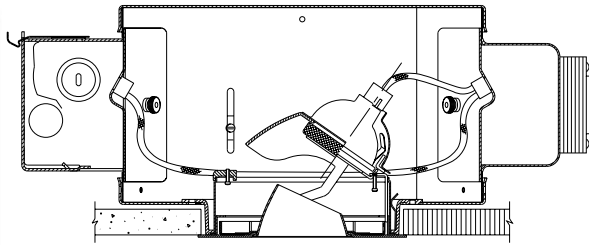
D	C	FC	L	W
6'	3.5'	30	5.2'	4.4'
8'	4.6'	17	7.0'	5.8'
10'	5.8'	11	8.7'	7.3'
12'	6.9'	7	10.4'	8.7'
15'	8.7'	4	13.0'	10.9'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	100	7.2'	2.5'
3'	5.2'	45	10.8'	3.8'
4'	6.9'	25	14.4'	5.0'
6'	10.4'	11	21.6'	7.6'
8'	13.9'	6	28.8'	10.1'

CALCULITE

Evolution 4 1/2" Pinhole Adjustable Accent, 2" Aperture



C4MR2 **CLW** Trim with
C4LVMU Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

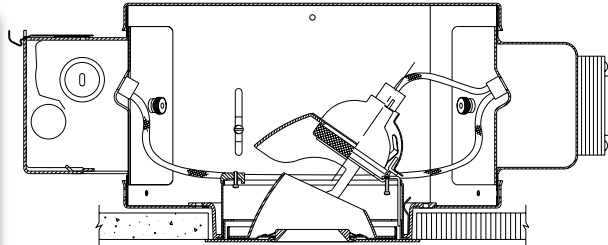
- 2" pinhole reflector matches downlight finishes
- Locking vertical and horizontal adjustment
- Standard soft-focus lens for smooth beam
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1	+	2					
	Reflector Finish		Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler		
C4MR2	<input type="checkbox"/>	+ C4	<input type="checkbox"/>	C4A	<input type="checkbox"/>	C4AIC	<input type="checkbox"/>	C4LVE1RM

Evolution 4 1/2" Pinhole Adjustable Accent, 1 1/4" Aperture



C4MRP **BK** Trim with
C4LVMU Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

- 1 1/4" knife-edged pinhole aperture
- Locking vertical and horizontal adjustment
- Standard soft-focus lens for smooth beam
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1	+	2					
	Reflector Finish		Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler		
C4MRP	<input type="checkbox"/>	+ C4	<input type="checkbox"/>	C4A	<input type="checkbox"/>	C4AIC	<input type="checkbox"/>	C4LVE1RM

1		+	2							
2" Aperture Finish	White Flange		Frame-In Kits	Type	Transformer	Input Voltage	Lamp	Wattage	Length	Width
Clear	CLW	C4LVMU	Non-IC	Magnetic	120V/277V	MR16	42W-75W	14 3/8"	12 5/8"	5"
Comfort Clear Diffuse	CCDW	C4LVE1	Non-IC	Electronic	120V	MR16	42W-75W	14 3/8"	12 5/8"	5"
White	WHW	C4ALVMU	Non-IC AirSeal	Magnetic	120V/277V	MR16	42W-75W	14 3/8"	9 5/8"	5"
Black	BKW	C4ALVE1	Non-IC AirSeal	Electronic	120V	MR16	42W-75W	14 3/8"	9 5/8"	5"
1 1/4" Aperture Finish	White Flange	C4AICLVM1	IC AirSeal	Magnetic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
White	WH	C4AICLVE1	IC AirSeal	Electronic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
Black	BK	C4LVE1RM	Non-IC Remodeler	Electronic	120V	MR16	50W Max.	11 5/8"	7"	5 1/2"

* 37W Max for **C4MRP**

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 4 1/2" Pinhole Adjustable Accent, 2" Aperture

2" Aperture, 50W MR16 IR 10° SP

Reflector Trim: **C4MR2** **CLW**

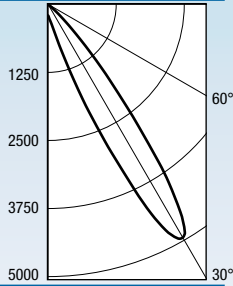
Report No.: 2756FR

Lamp: 50W MR16 IR
10° Spot

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 1125

Luminaire Beam: 16°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	89	2.3'	1.9'
8'	4.6'	50	3.0'	2.6'
10'	5.8'	32	3.8'	3.2'
12'	6.9'	22	4.5'	3.9'
15'	8.7'	14	5.7'	4.9'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	185	2.4'	1.1'
3'	5.2'	84	3.6'	1.7'
4'	6.9'	48	4.8'	2.2'
6'	10.4'	22	7.2'	3.4'
8'	13.9'	12	9.6'	4.5'

2" Aperture, 50W MR16 - 15° SP

Reflector Trim: **C4MR2** **CLW**

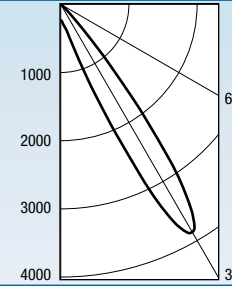
Report No.: 2743FR

Lamp: 50W MR16
15° Spot

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 750

Luminaire Beam: 14°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	70	2.0'	1.7'
8'	4.6'	39	2.6'	2.3'
10'	5.8'	25	3.3'	2.8'
12'	6.9'	17	3.9'	3.4'
15'	8.7'	11	4.9'	4.3'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	121	2.1'	1.0'
3'	5.2'	54	3.1'	1.5'
4'	6.9'	30	4.1'	2.0'
6'	10.4'	13	6.2'	2.9'
8'	13.9'	8	8.2'	3.9'

2" Aperture, 50W MR16 - 25° NFL

Reflector Trim: **C4MR2** **CLW**

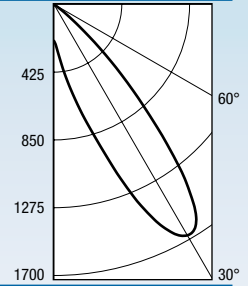
Report No.: 2748FR

Lamp: 50W MR16
25° Narrow Flood

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 800

Luminaire Beam: 25°

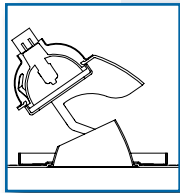


30° Aiming Angle - Horizontal Surface

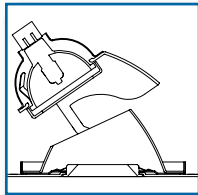
D	C	FC	L	W
6'	3.5'	31	3.6'	3.1'
8'	4.6'	18	4.8'	4.1'
10'	5.8'	11	6.0'	5.1'
12'	6.9'	8	7.2'	6.1'
15'	8.7'	5	9.0'	7.7'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	79	4.2'	1.8'
3'	5.2'	36	6.2'	2.7'
4'	6.9'	20	8.3'	3.5'
6'	10.4'	9	12.5'	5.3'
8'	13.9'	5	16.6'	7.1'



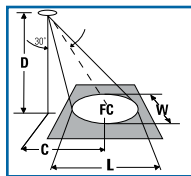
Evolution 4 1/2" Pinhole Adjustable Accent, 1 1/4" Aperture



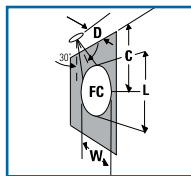
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



1 1/4" Pinhole, 37W MR16 IR 10° SP

Reflector Trim: **C4MRP** **BK**

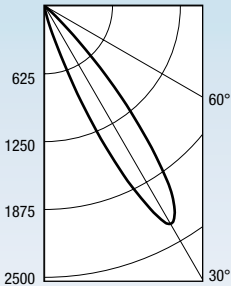
Report No.: 2758FR

Lamp: 37W MR16 IR
10° Spot

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 840

Luminaire Beam: 18°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	42	2.6'	2.2'
8'	4.6'	24	3.4'	2.9'
10'	5.8'	15	4.3'	3.7'
12'	6.9'	10	5.1'	4.4'
15'	8.7'	7	6.4'	5.5'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	98	2.7'	1.3'
3'	5.2'	45	4.1'	1.9'
4'	6.9'	25	5.5'	2.5'
6'	10.4'	11	8.2'	3.8'
8'	13.9'	6	11.0'	5.1'

1 1/4" Pinhole, 50W MR16 IR 10° SP

Reflector Trim: **C4MRP** **BK**

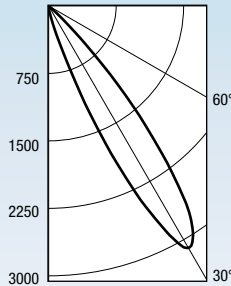
Report No.: 2755FR

Lamp: 50W MR16 IR
10° Spot

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 1125

Luminaire Beam: 18°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	56	2.6'	2.2'
8'	4.6'	32	3.4'	2.9'
10'	5.8'	20	4.3'	3.7'
12'	6.9'	14	5.1'	4.4'
15'	8.7'	9	6.4'	5.5'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	131	2.7'	1.3'
3'	5.2'	60	4.1'	1.9'
4'	6.9'	34	5.5'	2.5'
6'	10.4'	15	8.2'	3.8'
8'	13.9'	9	11.0'	5.1'

1 1/4" Pinhole, 50W MR16 - 25° NFL

Reflector Trim: **C4MRP** **BK**

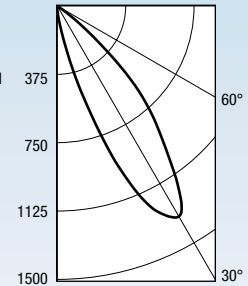
Report No.: 2747FR

Lamp: 50W MR16
25° Narrow Flood

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 800

Luminaire Beam: 22°



30° Aiming Angle - Horizontal Surface

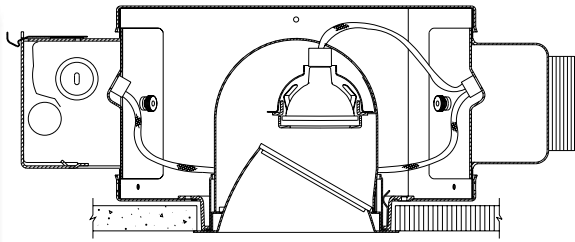
D	C	FC	L	W
6'	3.5'	25	3.1'	2.7'
8'	4.6'	14	4.2'	3.6'
10'	5.8'	9	5.2'	4.5'
12'	6.9'	6	6.3'	5.4'
15'	8.7'	4	7.9'	6.7'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	62	3.5'	1.6'
3'	5.2'	28	5.3'	2.3'
4'	6.9'	16	7.0'	3.1'
6'	10.4'	7	10.5'	4.7'
8'	13.9'	4	14.0'	6.2'

CALCULITE

Evolution 4 1/2" Aperture Lensed Wall Wash



C4MRL **CLW** Trim with
C4LVMU Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

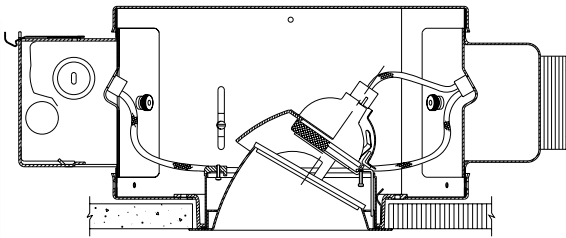
- Full-cone kick reflector for maximum output
- Tempered, frosted directional spread lens
- cULus listed for use in wet locations
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1	+	2					
	Reflector Finish		Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler		
C4MRL	<input type="checkbox"/>	+ C4	<input type="checkbox"/>	C4A	<input type="checkbox"/>	C4AIC	<input type="checkbox"/>	C4LVE1RM

Evolution 4 1/2" Aperture Lensed Adjustable Accent



C4MRW **CLW** Trim with
C4LVMU Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

- cULus listed for use in wet locations
- Locking vertical and horizontal adjustment
- Standard soft-focus lens for smooth beam
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

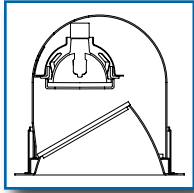
Trim Kit	1	+	2					
	Reflector Finish		Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler		
C4MRW	<input type="checkbox"/>	+ C4	<input type="checkbox"/>	C4A	<input type="checkbox"/>	C4AIC	<input type="checkbox"/>	C4LVE1RM

1			+	2							
Reflector Finish	White Flange	Polished Flange		Frame-In Kits	Type	Transformer	Input Voltage	Lamp	Wattage	Length	Width
Clear	CLW	CLP	C4LVMU	Non-IC	Magnetic	120V/277V	MR16	42W-75W	14 3/8"	12 5/8"	5"
Comfort Clear Diffuse	CCDW	CCDP	C4LVE1	Non-IC	Electronic	120V	MR16	42W-75W	14 3/8"	12 5/8"	5"
White	WHW	N/A	C4ALVMU	Non-IC AirSeal	Magnetic	120V/277V	MR16	42W-75W	14 3/8"	9 5/8"	5"
Black	BKW	BKP	C4ALVE1	Non-IC AirSeal	Electronic	120V	MR16	42W-75W	14 3/8"	9 5/8"	5"
			C4AICLVM1	IC AirSeal	Magnetic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
			C4AICLVE1	IC AirSeal	Electronic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
			C4LVE1RM	Non-IC Remodeler	Electronic	120V	MR16	50W Max.	11 5/8"	7"	5 1/2"

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 4 1/2" Aperture Lensed Wall Wash



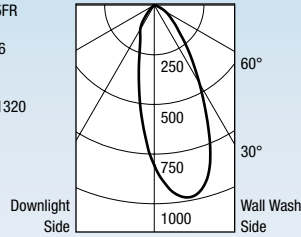
4 1/2" Aperture, 73W MR16 – 36° FL

Reflector Trim: **C4MRL** **CLW**

Report No.: 0825FR

Lamp: 73W MR16
36° Flood

Initial Lumens: 1320



Multiple Unit Data - RCR 1 2' from Wall - 2' On Center

Distance From Ceiling in Feet	1'	10	8	10
2'	21	18	21	
3'	24	23	24	
4'	23	22	23	
5'	19	19	19	
6'	15	15	15	
7'	12	12	12	
8'	10	10	10	
9'	8	8	8	

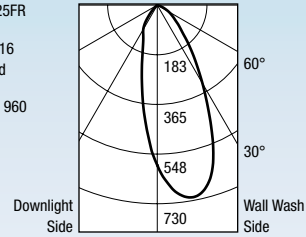
4 1/2" Aperture, 50W MR16 – 36° FL

Reflector Trim: **C4MRL** **CLW**

Report No.: 0825FR

Lamp: 50W MR16
36° Flood

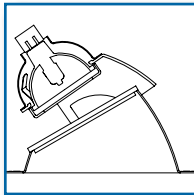
Initial Lumens: 960



Multiple Unit Data - RCR 1 2' from Wall - 2' On Center

Distance From Ceiling in Feet	1'	8	6	8
2'	15	13	15	
3'	17	16	17	
4'	16	16	16	
5'	14	14	14	
6'	11	11	11	
7'	9	9	9	
8'	7	7	7	
9'	6	6	6	

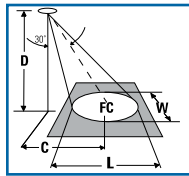
Evolution 4 1/2" Aperture Lensed Adjustable Accent



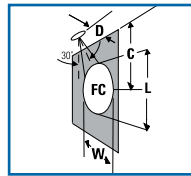
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



4 1/2" Aperture, 50W MR16 – 15° NSP

Reflector Trim: **C4MRW** **CLW**

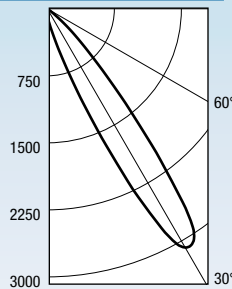
Report No.: 2852FR

Lamp: 50W MR16
15° Narrow Spot

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 750

Luminaire Beam: 16°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	55	2.3'	1.9'
8'	4.6'	31	3.0'	2.6'
10'	5.8'	20	3.8'	3.2'
12'	6.9'	14	4.5'	3.9'
15'	8.7'	9	5.7'	4.9'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	130	2.4'	1.1'
3'	5.2'	60	3.6'	1.7'
4'	6.9'	34	4.8'	2.2'
6'	10.4'	15	7.2'	3.4'
8'	13.9'	8	9.6'	4.5'

4 1/2" Aperture, 50W MR16 – 25° NFL

Reflector Trim: **C4MRW** **CLW**

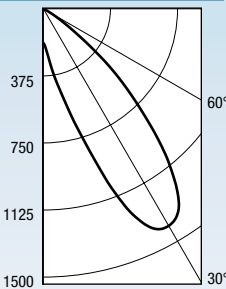
Report No.: 2853FR

Lamp: 50W MR16
25° Narrow Flood

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 800

Luminaire Beam: 29°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	27	4.2'	3.6'
8'	4.6'	15	5.6'	4.8'
10'	5.8'	10	7.1'	6.0'
12'	6.9'	7	8.5'	7.2'
15'	8.7'	4	10.6'	9.0'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	76	5.2'	2.1'
3'	5.2'	34	7.8'	3.1'
4'	6.9'	19	10.4'	4.1'
6'	10.4'	8	15.5'	6.2'
8'	13.9'	5	20.7'	8.3'

4 1/2" Aperture, 50W MR16 – 40° FL

Reflector Trim: **C4MRW** **CLW**

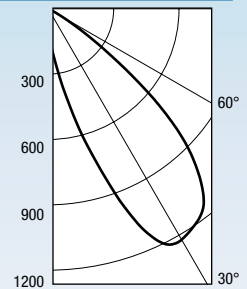
Report No.: 2854FR

Lamp: 50W MR16
40° Flood

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 800

Luminaire Beam: 35°



30° Aiming Angle - Horizontal Surface

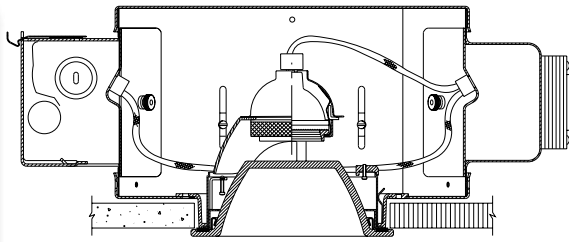
D	C	FC	L	W
6'	3.5'	24	5.2'	4.4'
8'	4.6'	14	7.0'	5.8'
10'	5.8'	9	8.7'	7.3'
12'	6.9'	6	10.4'	8.7'
15'	8.7'	4	13.0'	10.9'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	87	7.2'	2.5'
3'	5.2'	39	10.8'	3.8'
4'	6.9'	22	14.4'	5.0'
6'	10.4'	10	21.6'	7.6'
8'	13.9'	5	28.8'	10.1'

CALCULITE

Evolution 4 1/2" Aperture Glasslite Downlight



C4MRGD Trim with
C4LVMU Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

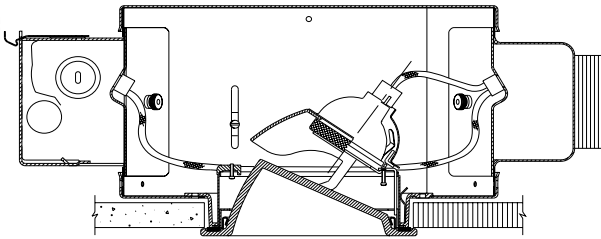
- cULus listed for use in wet locations
- One-piece borosilicate glass construction
- Etched aperture finish emits a soft glow
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1 +		2			
	Reflector Finish	Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler	
C4MRGD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Evolution 4 1/2" Aperture Glasslite Adjustable Accent



C4MRGA Trim with
C4LVMU Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

- cULus listed for use in wet locations
- Locking vertical and horizontal adjustment
- Etched glass aperture emits a soft glow
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1 +		2			
	Reflector Finish	Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler	
C4MRGA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2								
Frame-In Kits	Type	Transformer	Input Voltage	Lamp	Wattage	Length	Width	Height
C4LVMU	Non-IC	Magnetic	120V/277V	MR16	42W-75W	14 3/8"	12 5/8"	5"
C4LVE1	Non-IC	Electronic	120V	MR16	42W-75W	14 3/8"	12 5/8"	5"
C4ALVMU	Non-IC AirSeal	Magnetic	120V/277V	MR16	42W-75W	14 3/8"	9 5/8"	5"
C4ALVE1	Non-IC AirSeal	Electronic	120V	MR16	42W-75W	14 3/8"	9 5/8"	5"
C4AICLVM1	IC AirSeal	Magnetic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
C4AICLVE1	IC AirSeal	Electronic	120V	MR16	20W-50W	22 3/8"	10 1/8"	9"
C4LVE1RM	Non-IC Remodeler	Electronic	120V	MR16	50W Max.	11 5/8"	7"	5 1/2"

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 4 1/2" Aperture Glasslite Downlight

4 1/2" Aperture, 73W MR16 – 36° FL

Reflector Trim: **C4MRGD**

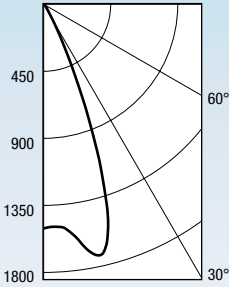
Report No.: 0884FR

Lamp: 73W MR16
36° Flood

Initial Lumens: 1320

Efficiency: 65.9%

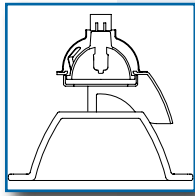
Spacing: 0.6



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	62
5'	40
6'	28
7'	20
8'	15
9'	12

Based on 60' x 60' Room
80/50/20% Reflectances



4 1/2" Aperture, 37W MR16 IR – 40° FL

Reflector Trim: **C4MRGD**

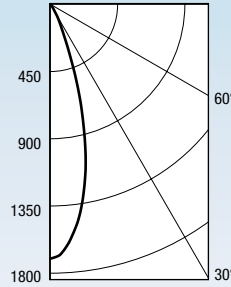
Report No.: 0911FR

Lamp: 37W MR16 IR
40° Flood

Initial Lumens: 800

Efficiency: 65.9%

Spacing: 0.5



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	38
5'	24
6'	17
7'	12
8'	9
9'	7

Based on 60' x 60' Room
80/50/20% Reflectances

4 1/2" Aperture, 65W MR16 – 40° FL

Reflector Trim: **C4MRGD**

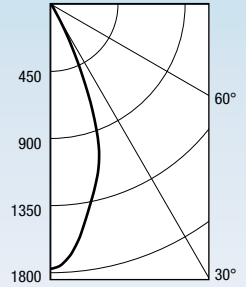
Report No.: 0993FR

Lamp: 65W MR16
40° Flood

Initial Lumens: 1100

Efficiency: 67.8%

Spacing: 0.6

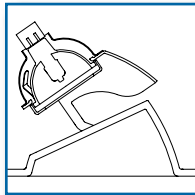


Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	53
5'	34
6'	24
7'	17
8'	13
9'	10

Based on 60' x 60' Room
80/50/20% Reflectances

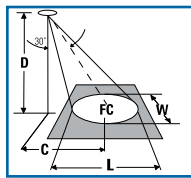
Evolution 4 1/2" Aperture Glasslite Adjustable Accent



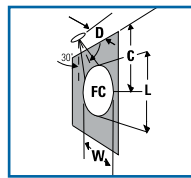
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length L and beam width W are to where the candlepower is reduced to 50% of the center beam candlepower. C is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



4 1/2" Aperture, 50W MR16 – 15° SP

Reflector Trim: **C4MRGA**

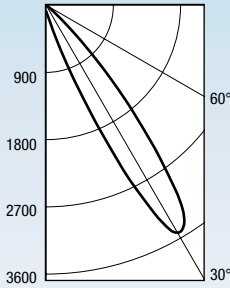
Report No.: 2745FR

Lamp: 50W MR16
15° Spot

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 750

Luminaire Beam: 16°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	63	2.3'	1.9'
8'	4.6'	36	3.0'	2.6'
10'	5.8'	23	3.8'	3.2'
12'	6.9'	16	4.5'	3.9'
15'	8.7'	10	5.7'	4.9'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	151	2.4'	1.1'
3'	5.2'	68	3.6'	1.7'
4'	6.9	39	4.8'	2.2'
6'	10.4'	17	7.2'	3.4'
8'	13.9'	10	9.6'	4.5'

4 1/2" Aperture, 50W MR16 – 25° NFL

Reflector Trim: **C4MRGA**

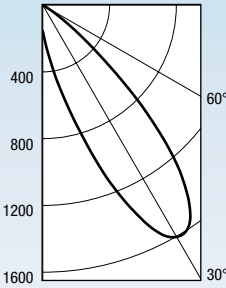
Report No.: 2746FR

Lamp: 50W MR16
25° Narrow Flood

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 800

Luminaire Beam: 28°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	30	4.1'	3.5'
8'	4.6'	17	5.4'	4.6'
10'	5.8'	11	6.8'	5.8'
12'	6.9'	7	8.1'	6.9'
15'	8.7'	5	10.2'	8.6'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	89	4.9'	2.0'
3'	5.2'	40	7.4'	3.0'
4'	6.9'	23	9.8'	4.0'
6'	10.4'	10	14.7'	6.0'
8'	13.9'	6	19.6'	8.0'

4 1/2" Aperture, 50W MR16 – 40° FL

Reflector Trim: **C4MRGA**

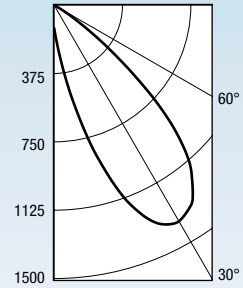
Report No.: 2753FR

Lamp: 50W MR16
40° Flood

Max Tilt: 45°
(35° with Remodeler)

Initial Lumens: 800

Luminaire Beam: 34°



30° Aiming Angle - Horizontal Surface

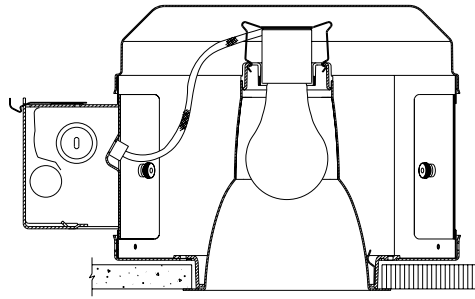
D	C	FC	L	W
6'	3.5'	27	5.0'	4.2'
8'	4.6'	15	6.7'	5.6'
10'	5.8'	10	8.4'	7.1'
12'	6.9'	7	10.1'	8.5'
15'	8.7'	4	12.6'	10.6'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	86	6.8'	2.4'
3'	5.2'	39	10.2'	3.7'
4'	6.9'	22	13.6'	4.9'
6'	10.4'	10	20.4'	7.3'
8'	13.9'	5	27.2'	9.8'

CALCULITE

Evolution 4 1/2" Aperture Downlight



C4AD **CLW** Trim with
C4120 Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

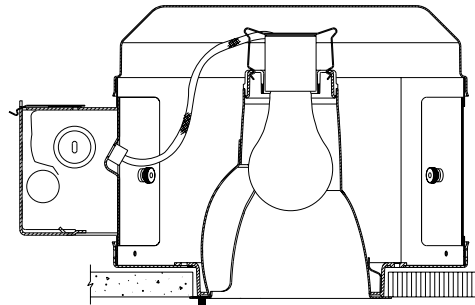
- 50° physical and reflected cutoff
- Die-cast aluminum neck insert dissipates heat
- Full-cone reflector eliminates light leaks
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1		+	2			
Trim Kit	Reflector Finish		Frame-In Kit			
			Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler
C4AD	<input type="checkbox"/>	+ C4120	C4A120	C4AIC	C4120RM	

Evolution 4 1/2" Aperture Wall Wash



C4AW **CLW** Trim with
C4120 Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

- 50° physical and reflected cutoff
- Permanently attached aluminum kick reflector
- Matches appearance of open downlight
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1		+	2			
Trim Kit	Reflector Finish		Frame-In Kit			
			Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler
C4AW	<input type="checkbox"/>	+ C4120	C4A120	C4AIC	C4120RM	

C4AW (single)

C4ACW (corner)

C4ADW (double)

1			+	2							
Reflector Finish	White Flange	Polished Flange		Frame-In Kits	Type	Input Voltage	Lamp	Wattage	Length	Width	Height
Clear	CLW	CLP		C4120	Non-IC	120V	A19, MB19, BT15	100W* Max.	12"	9 1/2"	7"
Comfort Clear Diffuse	CCDW	CCDP		C4A120	Non-IC AirSeal	120V	A19, MB19, BT15	100W* Max.	12"	9 1/2"	7"
White	WHW	N/A		C4AIC	IC AirSeal	120V	A19, MB19, BT15	75W** Max.	19"	10"	9 1/4"
				C4120RM	Non-IC Remodeler	120V	A19, MB19, BT15	100W* Max.	11 3/4"	5 3/4"	7 1/4"

* MB19 75W Max with C4ACW and C4ADW

** MB19 and BT15 60W Max with C4ACW and C4ADW

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 4 1/2" Aperture Downlight

4 1/2" Aperture, 100W A19

Reflector Trim: **C4AD** **CLW**

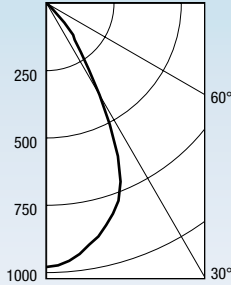
Report No.: 0836FR

Lamp: 100W A19

Initial Lumens: 1600

Efficiency: 50.8%

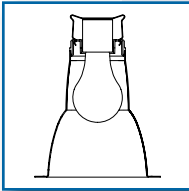
Spacing: 0.8



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	57
5'	36
6'	25
7'	19
8'	14
9'	11

Based on 60' x 60' Room
80/50/20% Reflectances



4 1/2" Aperture, 75W A19

Reflector Trim: **C4AD** **CLW**

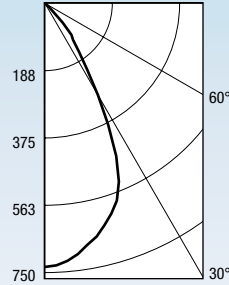
Report No.: 0836FR

Lamp: 75W A19

Initial Lumens: 1200

Efficiency: 50.8%

Spacing: 0.8



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	43
5'	27
6'	19
7'	14
8'	11
9'	8

Based on 60' x 60' Room
80/50/20% Reflectances

4 1/2" Aperture, 100W BT15

Reflector Trim: **C4AD** **CLW**

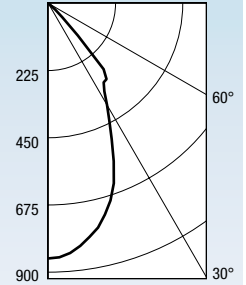
Report No.: 0837FR

Lamp: 100W BT15

Initial Lumens: 1880

Efficiency: 43.3%

Spacing: 0.9

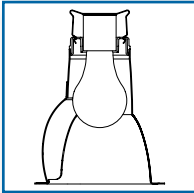


Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	56
5'	36
6'	25
7'	18
8'	14
9'	11

Based on 60' x 60' Room
80/50/20% Reflectances

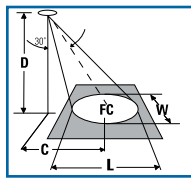
Evolution 4 1/2" Aperture Wall Wash



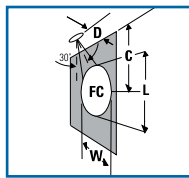
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



4 1/2" Aperture, 100W A19

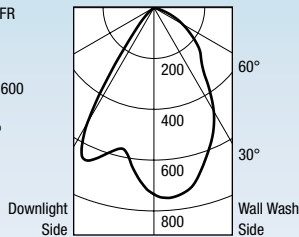
Reflector Trim: **C4AW** **CLW**

Report No.: 0840FR

Lamp: 100W A19

Initial Lumens: 1600

Efficiency: 56.0%



Multiple Unit Data - RCR 1

3' from Wall - 3' On Center

Distance From Ceiling in Feet	1'	2'	3'	4'
1'	5	4	5	
2'	15	14	15	
3'	16	16	16	
4'	14	14	14	
5'	12	12	12	
6'	11	11	11	
7'	10	9	10	
8'	8	8	8	
9'	7	7	7	

4 1/2" Aperture, 75W A19

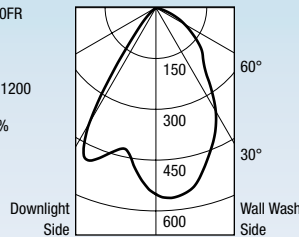
Reflector Trim: **C4AW** **CLW**

Report No.: 0840FR

Lamp: 75W A19

Initial Lumens: 1200

Efficiency: 56.0%



Multiple Unit Data - RCR 1

3' from Wall - 3' On Center

Distance From Ceiling in Feet	1'	2'	3'	4'
1'	3	3	3	
2'	11	10	11	
3'	12	12	12	
4'	10	10	10	
5'	9	9	9	
6'	8	8	8	
7'	7	7	7	
8'	6	6	6	
9'	5	5	5	

4 1/2" Aperture, 100W BT15

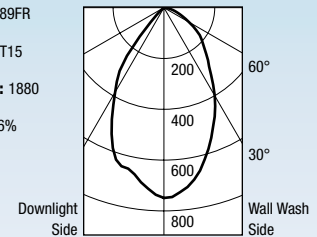
Reflector Trim: **C4AW** **CLW**

Report No.: 0789FR

Lamp: 100W BT15

Initial Lumens: 1880

Efficiency: 42.6%



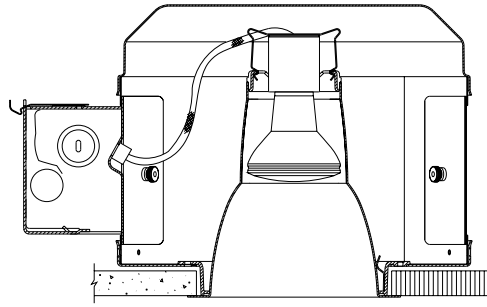
Multiple Unit Data - RCR 1

3' from Wall - 3' On Center

Distance From Ceiling in Feet	1'	2'	3'	4'
1'	7	6	7	
2'	13	12	13	
3'	14	14	14	
4'	13	14	13	
5'	13	13	13	
6'	11	11	11	
7'	10	10	10	
8'	9	9	9	
9'	8	8	8	

CALCULITE

Evolution 4 1/2" Aperture Downlight



C4P20D **CLW** Trim with
C4120 Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

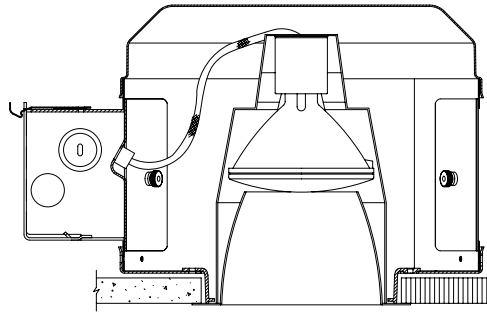
- 50° physical and reflected cutoff
- Precision optics minimize aperture brightness
- Full-cone reflector eliminates light leaks
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1		2			
Trim Kit	Reflector Finish	Frame-In Kit			
		Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler
C4P20D	<input type="checkbox"/>	+ C4120	C4A120	C4AIC	C4120RM

Evolution 4 1/2" Aperture Downlight



C4P30D **CLW** Trim with
C4120 Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

- 50° physical and reflected cutoff
- Precision optics minimize aperture brightness
- Lamp support housing eliminates light leaks
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

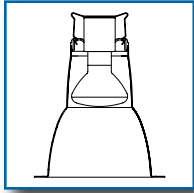
1		2			
Trim Kit	Reflector Finish	Frame-In Kit			
		Non-IC	Non-IC AirSeal	IC AirSeal	Non-IC Remodeler
C4P30D	<input type="checkbox"/>	+ C4120	C4A120	C4AIC	C4120RM

1			2							
Reflector Finish	White Flange	Polished Flange	Frame-In Kits	Type	Input Voltage	Lamp	Wattage	Length	Width	Height
Clear	CLW	CLP	C4120	Non-IC	120V	PAR16, BR19, R20, PAR30 PAR20	75W Max. 50W Max.	12"	9 1/2"	7"
Comfort Clear Diffuse	CCDW	CCDP	C4A120	Non-IC AirSeal	120V	PAR16, BR19, R20, PAR30 PAR20	75W Max. 50W Max.	12"	9 1/2"	7"
White	WHW	N/A	C4AIC	IC AirSeal	120V	PAR16, BR19, R20, PAR30 PAR20	75W Max. 50W Max.	19"	10"	9 1/4"
Black	BKW	BKP	C4120RM	Non-IC Remodeler	120V	PAR16, BR19, R20, PAR30 PAR20	75W Max. 50W Max.	11 3/4"	5 3/4"	7 1/4"

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 4 1/2" Aperture Downlight



4 1/2" Aperture, 75W R20 – FL

Reflector Trim: **C4P20D** **CLW**

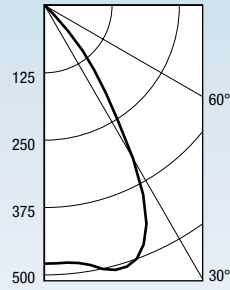
Report No.: 0839FR

Lamp: 75W R20

Initial Lumens: 650

Efficiency: 84.7%

Spacing: 1.1



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	48
5'	30
6'	21
7'	16
8'	12
9'	9

Based on 60' x 60' Room
80/50/20% Reflectances

4 1/2" Aperture, 50W PAR20 – 30° NFL

Reflector Trim: **C4P20D** **CLW**

Report No.: 0838FR

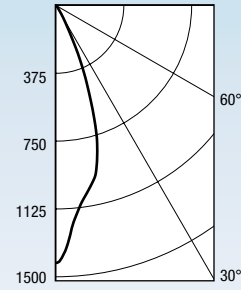
Lamp: 50W PAR20

30° Narrow Flood

Initial Lumens: 530

Efficiency: 97.2%

Spacing: 0.6

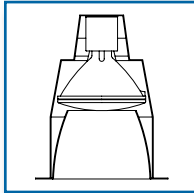


Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	37
5'	24
6'	16
7'	12
8'	9
9'	7

Based on 60' x 60' Room
80/50/20% Reflectances

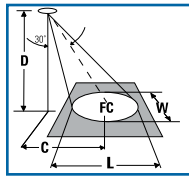
Evolution 4 1/2" Aperture Downlight



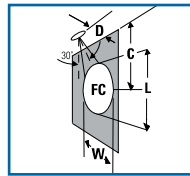
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



4 1/2" Aperture, 75W PAR30 – 40° FL

Reflector Trim: **C4P30D** **CLW**

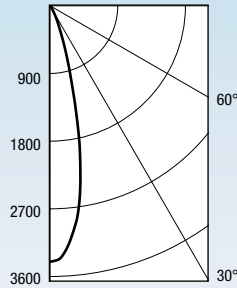
Report No.: 2001FR

Lamp: 75W PAR30
40° Flood

Initial Lumens: 1030

Efficiency: 77.0%

Spacing: 0.4



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	57
5'	36
6'	25
7'	18
8'	14
9'	11

Based on 60' x 60' Room
80/50/20% Reflectances

4 1/2" Aperture, 50W PAR30 – 40° FL

Reflector Trim: **C4P30D** **CLW**

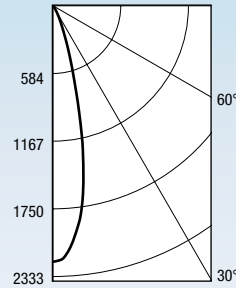
Report No.: 2001FR

Lamp: 50W PAR30
40° Flood

Initial Lumens: 687

Efficiency: 77.0%

Spacing: 0.4



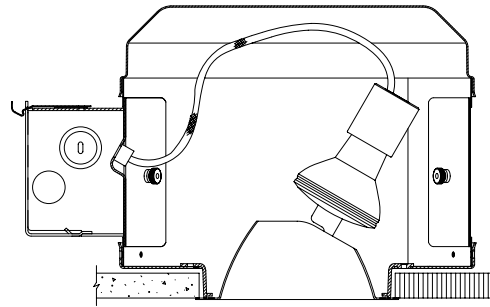
Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	38
5'	24
6'	17
7'	12
8'	9
9'	7

Based on 60' x 60' Room
80/50/20% Reflectances

CALCULITE

Evolution 4 1/2" Aperture Adjustable Accent



C4P20A **CLW** Trim with
C4120 Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

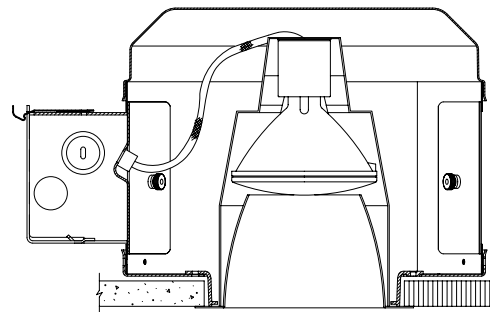
- Locking vertical and horizontal adjustment
- Precision optics minimize aperture brightness
- Slot cut reflector minimizes view into fixture
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1 +		2		
	Reflector Finish	Non-IC	Frame-In Kit		
			Non-IC AirSeal	IC AirSeal	
C4P20A	<input type="checkbox"/>	+ C4120	C4A120	C4AIC	

Evolution 4 1/2" Aperture Lensed Wall Wash



C4P20L **CLW** Trim with
C4120 Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

- Full-cone kick reflector for maximum output
- Tempered, frosted directional spread lens
- cULus listed for use in wet locations
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1 +		2		
	Reflector Finish	Non-IC	Frame-In Kit		
			Non-IC AirSeal	IC AirSeal	
C4P20L	<input type="checkbox"/>	+ C4120	C4A120	C4AIC	

1			+	2							
Reflector Finish	White Flange	Polished Flange		Frame-In Kits	Type	Input Voltage	Lamp	Wattage	Length	Width	Height
Clear	CLW	CLP		C4120	Non-IC	120V	PAR16	75W Max.	12"	9 1/2"	7"
Comfort Clear Diffuse	CCDW	CCDP					PAR20	50W Max.			
White	WHW	N/A		C4A120	Non-IC AirSeal	120V	PAR16	75W Max.	12"	9 1/2"	7"
Black	BKW	BKP					PAR20	50W Max.			
				C4AIC	IC AirSeal	120V	PAR16	75W Max.	19"	10"	9 1/4"
							PAR20	50W Max.			

CALCULITE

Evolution 4 1/2" Aperture Adjustable Accent

4 1/2" Aperture, 50W PAR20 – 10° NSP

Reflector Trim: **C4P20A** **CLW**

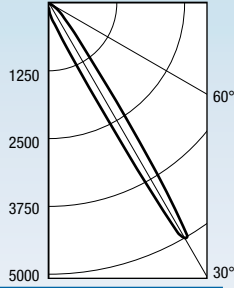
Report No.: 2760FR

Lamp: 50W PAR20
10° Narrow Spot

Max Tilt: 35°

Initial Lumens: 570

Luminaire Beam: 7°

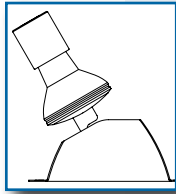


30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	90	1.1'	1.0'
8'	4.6'	51	1.5'	1.3'
10'	5.8'	32	1.9'	1.6'
12'	6.9'	23	2.2'	1.9'
15'	8.7'	14	2.8'	2.4'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	156	1.1'	0.6'
3'	5.2'	69	1.7'	0.8'
4'	6.9'	39	2.3'	1.1'
6'	10.4'	17	3.4'	1.7'
8'	13.9'	10	4.5'	2.2'



4 1/2" Aperture, 50W PAR20 – 30° NFL

Reflector Trim: **C4P20A** **CLW**

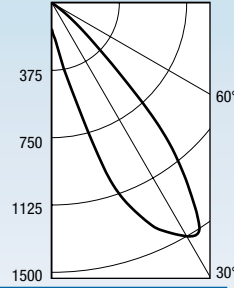
Report No.: 2863FR

Lamp: 50W PAR20
30° Narrow Flood

Max Tilt: 45°

Initial Lumens: 550

Luminaire Beam: 26°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	29	3.8'	3.2'
8'	4.6'	16	5.0'	4.3'
10'	5.8'	10	6.3'	5.3'
12'	6.9'	7	7.5'	6.4'
15'	8.7'	5	9.4'	8.0'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	74	4.4'	1.8'
3'	5.2'	34	6.6'	2.8'
4'	6.9'	19	8.8'	3.7'
6'	10.4'	8	13.2'	5.5'
8'	13.9'	5	17.6'	7.4'

4 1/2" Aperture, 60W PAR16 – 10° NSP

Reflector Trim: **C4P20A** **CLW**

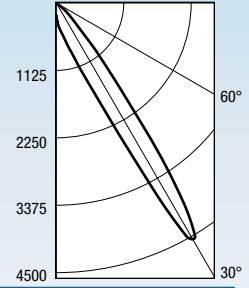
Report No.: 2762FR

Lamp: 60W PAR16
10° Narrow Spot

Max Tilt: 35°

Initial Lumens: 650

Luminaire Beam: 11°



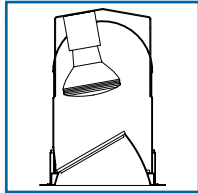
30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	82	1.5'	1.3'
8'	4.6'	46	2.1'	1.8'
10'	5.8'	30	2.6'	2.2'
12'	6.9'	21	3.1'	2.7'
15'	8.7'	13	3.9'	3.3'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
6'	3.5'	157	1.6'	0.8'
8'	4.6'	73	2.4'	1.2'
10'	5.8'	41	3.2'	1.5'
12'	6.9'	19	4.8'	2.3'
15'	8.7'	10	6.3'	3.1'

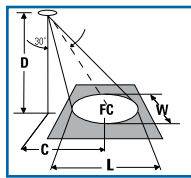
Evolution 4 1/2" Aperture Lensed Wall Wash



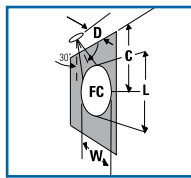
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



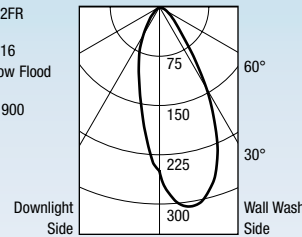
4 1/2" Aperture, 75W PAR16 – 30° NFL

Reflector Trim: **C4P20L** **CLW**

Report No.: 0852FR

Lamp: 75W PAR16
30° Narrow Flood

Initial Lumens: 900



Multiple Unit Data - RCR 1

2' from Wall - 2' On Center

Distance From Ceiling in Feet	2'		
	1'	2'	3'
1'	4	4	4
2'	10	9	10
3'	12	11	12
4'	13	12	13
5'	11	11	11
6'	9	9	9
7'	7	7	7
8'	6	6	6
9'	5	5	5

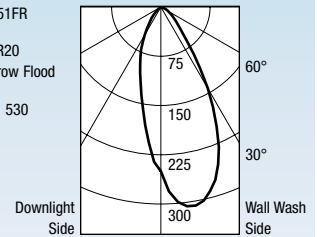
4 1/2" Aperture, 50W PAR20 – 30° NFL

Reflector Trim: **C4P20L** **CLW**

Report No.: 0851FR

Lamp: 50W PAR20
30° Narrow Flood

Initial Lumens: 530



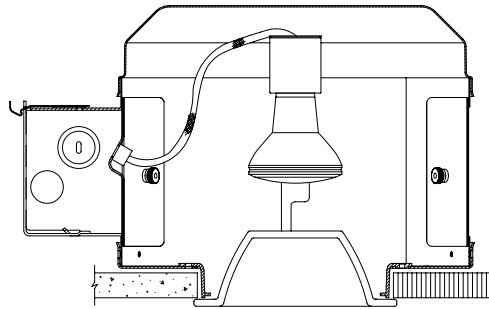
Multiple Unit Data - RCR 1

2' from Wall - 2' On Center

Distance From Ceiling in Feet	2'		
	1'	2'	3'
1'	2	2	2
2'	5	5	5
3'	7	6	7
4'	7	7	7
5'	6	6	6
6'	5	5	5
7'	4	4	4
8'	3	3	3
9'	3	3	3

CALCULITE

Evolution 4 1/2" Aperture Glasslite Downlight



C4P20GD Trim with
C4120 Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

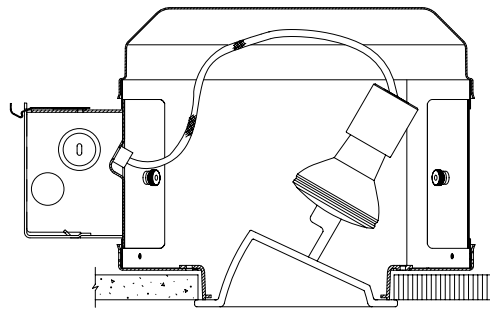
- cULus listed for use in wet locations
- One-piece borosilicate glass construction
- Etched aperture finish emits a soft glow
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1	+	2		
Trim Kit		Frame-In Kit		
	Non-IC	Non-IC AirSeal	IC AirSeal	
C4P20GD	+ C4120	C4A120	C4AIC	

Evolution 4 1/2" Aperture Glasslite Adjustable Accent



C4P20GA Trim with
C4120 Frame-In Kit shown.
Ceiling Cutout: 5 1/16"

- cULus listed for use in wet locations
- Locking vertical and horizontal adjustment
- Etched glass aperture emits a soft glow
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

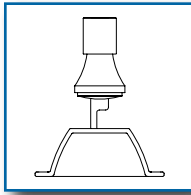
1	+	2		
Trim Kit		Frame-In Kit		
	Non-IC	Non-IC AirSeal	IC AirSeal	
C4P20GA	+ C4120	C4A120	C4AIC	

2							
Frame-In Kits	Type	Input Voltage	Lamp	Wattage	Length	Width	Height
C4120	Non-IC	120V	PAR16	75W Max.	12"	9 1/2"	7"
			PAR20	50W Max.			
C4A120	Non-IC AirSeal	120V	PAR16	75W Max.	12"	9 1/2"	7"
			PAR20	50W Max.			
C4AIC	IC AirSeal	120V	PAR16	75W Max.	19"	10"	9 1/4"
			PAR20	50W Max.			

For additional Frame-In Kit information see pages 52-53.

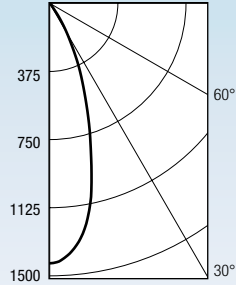
CALCULITE

Evolution 4 1/2" Aperture Glasslite Downlight



4 1/2" Aperture, 75W PAR16 – 30° NFL Reflector Trim: C4P20GD

Report No.: 1567FR
Lamp: 75W PAR16
30° Narrow Flood
Initial Lumens: 900
Efficiency: 70.3%
Spacing: 0.6



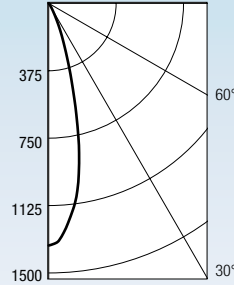
Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	45
5'	29
6'	20
7'	15
8'	11
9'	9

Based on 60' x 60' Room
80/50/20% Reflectances

4 1/2" Aperture, 50W PAR20 – 30° NFL Reflector Trim: C4P20GD

Report No.: 1568FR
Lamp: 50W PAR20
30° Narrow Flood
Initial Lumens: 530
Efficiency: 67.7%
Spacing: 0.4

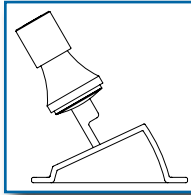


Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	26
5'	16
6'	11
7'	8
8'	6
9'	5

Based on 60' x 60' Room
80/50/20% Reflectances

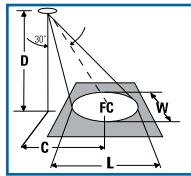
Evolution 4 1/2" Aperture Glasslite Adjustable Accent



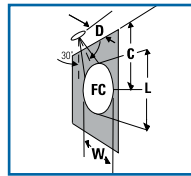
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length L and beam width W are where the candlepower is reduced to 50% of the center beam candlepower. C is the distance to the center of the beam.

Horizontal Surface

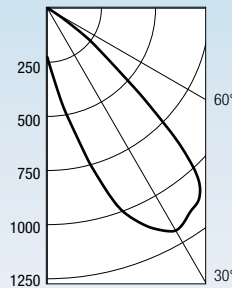


Vertical Surface



4 1/2" Aperture, 75W PAR16 – 30° NFL Reflector Trim: C4P20GA

Report No.: 2835FR
Lamp: 75W PAR16
30° Narrow Flood
Max Tilt: 35°
Initial Lumens: 900
Luminaire Beam: 34°



30° Aiming Angle - Horizontal Surface

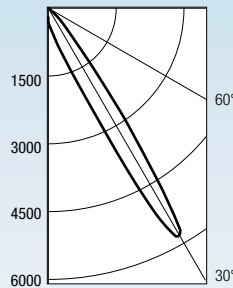
D	C	FC	L	W
6'	3.5'	23	5'	4.2'
8'	4.6'	13	6.7'	5.6'
10'	5.8'	8	8.4'	7.1'
12'	6.9'	6	10.1'	8.5'
15'	8.7'	4	12.6'	10.6'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	82	6.8'	2.4'
3'	5.2'	36	10.2'	3.7'
4'	6.9'	21	13.6'	4.9'
6'	10.4'	9	20.4'	7.3'
8'	13.9'	5	27.2'	9.8'

4 1/2" Aperture, 75W PAR16 – 10° NSP Reflector Trim: C4P20GA

Report No.: 2834FR
Lamp: 75W PAR16
10° Narrow Spot
Max Tilt: 35°
Initial Lumens: 900
Luminaire Beam: 10°



30° Aiming Angle - Horizontal Surface

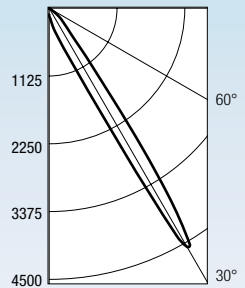
D	C	FC	L	W
6'	3.5'	97	1.4'	1.2'
8'	4.6'	55	1.9'	1.6'
10'	5.8'	36	2.3'	2'
12'	6.9'	25	2.8'	2.4'
15'	8.7'	16	3.5'	3'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	186	1.4'	0.7'
3'	5.2'	86	2.1'	1'
4'	6.9'	49	2.9'	1.4'
6'	10.4'	22	4.3'	2.1'
8'	13.9'	12	5.7'	2.8'

4 1/2" Aperture, 50W PAR20 – 10° NSP Reflector Trim: C4P20GA

Report No.: 2820FR
Lamp: 50W PAR20
10° Narrow Spot
Max Tilt: 35°
Initial Lumens: 570
Luminaire Beam: 8°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	68	1.1'	1'
8'	4.6'	39	1.5'	1.3'
10'	5.8'	25	1.9'	1.6'
12'	6.9'	17	2.2'	1.9'
15'	8.7'	11	2.8'	2.4'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	140	1.1'	0.6'
3'	5.2'	66	1.7'	0.8'
4'	6.9'	37	2.3'	1.1'
6'	10.4'	17	3.4'	1.7'
8'	13.9'	10	4.5'	2.2'



SIX - I N C H

Evolution six-inch aperture downlights are designed to maximize usable light output while maintaining comfortable, glare-free operation. Precise optical control and higher wattage capabilities deliver the intensity necessary for demanding high ceiling applications.

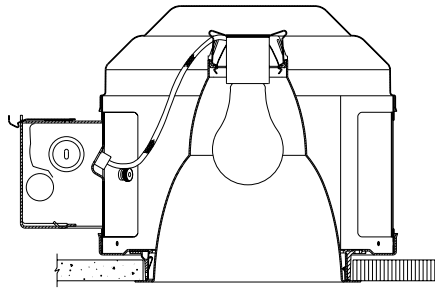
Recessed adjustable accent luminaires offer the versatility, power and control needed to achieve high impact accent lighting. Low voltage AR111 and PAR36 units provide concentrated beams of light combined with minimal source identification. Both the vertical and horizontal aiming are securely locked in a single motion.



Calculite reflectors are formed and finished at our own facilities to exacting tolerances for consistent quality and reliable performance. Evolution downlights provide designers with the finest architectural lighting instruments available today at any price.

CALCULITE

Evolution 6" Aperture Downlight



C6AD **CLW** Trim with
C6120 Frame-In Kit shown.
Ceiling Cutout: 6 11/16"

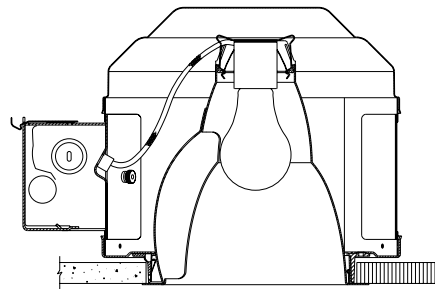
- 50° physical and reflected cutoff
- Die-cast aluminum neck insert dissipates heat
- Full-cone reflector eliminates light leaks
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1 +	2		
	Reflector Finish	Non-IC	Frame-In Kit	
			Non-IC AirSeal	IC AirSeal
C6AD	<input type="checkbox"/>	+ C6120	C6A120	C6AIC

Evolution 6" Aperture Wall Wash



C6AW **CLW** Trim with
C6120 Frame-In Kit shown.
Ceiling Cutout: 6 11/16"

- 50° physical and reflected cutoff
- Permanently attached aluminum kick reflector
- Matches appearance of open downlight
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1 +	2		
	Reflector Finish	Non-IC	Frame-In Kit	
			Non-IC AirSeal	IC AirSeal
C6AW	<input type="checkbox"/>	+ C6120	C6A120	C6AIC

C6AW (single)

C6ACW (corner)

C6ADW (double)

1			+	2							
Reflector Finish	White Flange	Polished Flange		Frame-In Kits	Type	Input Voltage	Lamp	Wattage	Length	Width	Height
Clear	CLW	CLP		C6120	Non-IC	120V	A19, MB19, BT15	100W Max.	12 3/8"	12 1/2"	8"
Comfort Clear Diffuse	CCDW	CCDP		C6A120	Non-IC AirSeal	120V	A19, MB19, BT15	100W Max.	14 3/8"	9 1/2"	8"
White	WHW	N/A		C6AIC	IC AirSeal	120V	A19, MB19, BT15	100W Max.	19"	10"	9 1/4"
				C6D120	Non-IC Deep	120V	A21	200W* Max.	15 3/8"	15 3/4"	10 3/8"
				C6DA120	Non-IC AirSeal Deep	120V	A21	200W* Max.	15 1/2"	12 1/4"	10 3/8"
				C6DAIC	IC AirSeal Deep	120V	A21	150W* Max.	22 3/8"	13 1/2"	11 1/4"

* 135W Max. with double and corner wall wash.

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 6" Aperture Downlight

6" Aperture, 150W A21

Reflector Trim: **C6AD** **CLW**

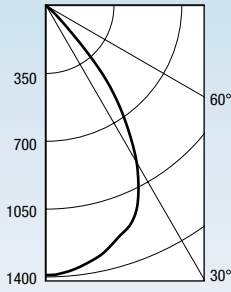
Report No.: 0833FR

Lamp: 150W A21

Initial Lumens: 2780

Efficiency: 56.4%

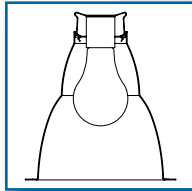
Spacing: 1.0



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	109
5'	70
6'	49
7'	36
8'	27
9'	22

Based on 60" x 60" Room
80/50/20% Reflectances



6" Aperture, 100W A19

Reflector Trim: **C6AD** **CLW**

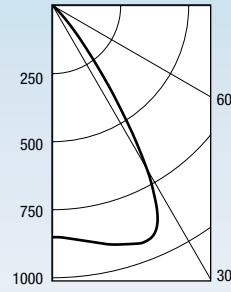
Report No.: 0834FR

Lamp: 100W A19

Initial Lumens: 1600

Efficiency: 64.3%

Spacing: 1.0



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	72
5'	46
6'	32
7'	24
8'	18
9'	14

Based on 60" x 60" Room
80/50/20% Reflectances

6" Aperture, 75W A19

Reflector Trim: **C6AD** **CLW**

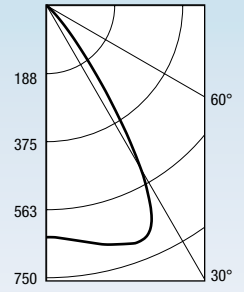
Report No.: 0834FR

Lamp: 75W A19

Initial Lumens: 1200

Efficiency: 64.3%

Spacing: 1.0

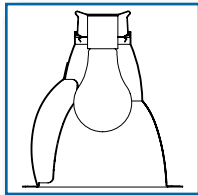


Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	54
5'	35
6'	24
7'	18
8'	14
9'	11

Based on 60" x 60" Room
80/50/20% Reflectances

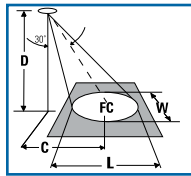
Evolution 6" Aperture Wall Wash



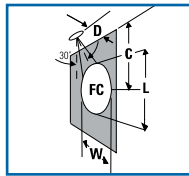
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



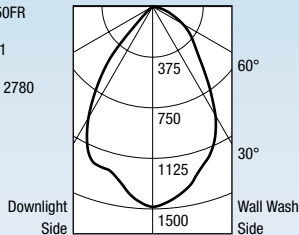
6" Aperture, 150W A21

Reflector Trim: **C6AW** **CLW**

Report No.: 0850FR

Lamp: 150W A21

Initial Lumens: 2780



Multiple Unit Data - RCR 1

3' from Wall - 3' On Center

Distance From Ceiling in Feet	1'	2'	3'	4'
1'	13	12	13	
2'	25	23	25	
3'	25	23	25	
4'	22	22	22	
5'	21	21	21	
6'	19	19	19	
7'	17	16	17	
8'	14	14	14	
9'	12	13	12	

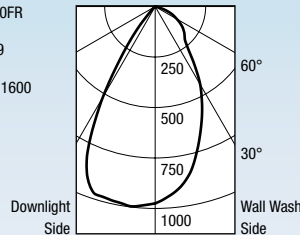
6" Aperture, 100W A19

Reflector Trim: **C6AW** **CLW**

Report No.: 0900FR

Lamp: 100W A19

Initial Lumens: 1600



Multiple Unit Data - RCR 1

3' from Wall - 3' On Center

Distance From Ceiling in Feet	1'	2'	3'	4'
1'	6	5	6	
2'	16	15	16	
3'	16	15	16	
4'	13	12	13	
5'	12	12	12	
6'	11	11	11	
7'	10	9	10	
8'	9	9	9	
9'	8	8	8	

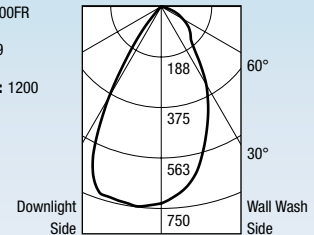
6" Aperture, 75W A19

Reflector Trim: **C6AW** **CLW**

Report No.: 0900FR

Lamp: 75W A19

Initial Lumens: 1200



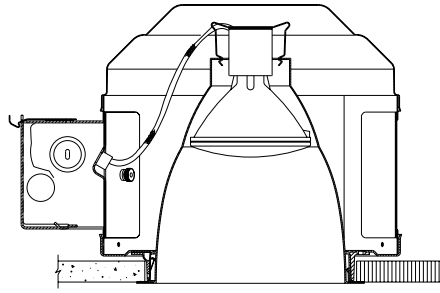
Multiple Unit Data - RCR 1

3' from Wall - 3' On Center

Distance From Ceiling in Feet	1'	2'	3'	4'
1'	5	4	5	
2'	12	11	12	
3'	12	11	12	
4'	10	9	10	
5'	9	9	9	
6'	8	8	8	
7'	8	8	8	
8'	7	7	7	
9'	6	6	6	

CALCULITE

Evolution 6" Aperture Downlight



C6P30D **CLW** Trim with
C6120 Frame-In Kit shown.
Ceiling Cutout: 6 11/16"

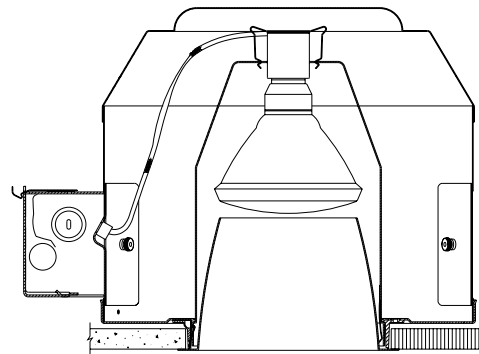
- 50° physical and reflected cutoff
- Precision optics minimize aperture brightness
- Full-cone reflector eliminates light leaks
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1		+	2		
Trim Kit	Reflector Finish		Frame-In Kit		
			Non-IC	Non-IC AirSeal	IC AirSeal
C6P30D	<input type="checkbox"/>	+ C6120	C6A120		C6AIC

Evolution 6" Aperture Downlight



C6P38D **CLW** Trim with
C6D120 Frame-In Kit shown.
Ceiling Cutout: 6 11/16"

- 50° physical and reflected cutoff
- Precision optics minimize aperture brightness
- Up to 250W PAR38 lamping for high ceilings
- Unitized optics ensure consistent performance
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

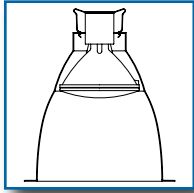
1		+	2		
Trim Kit	Reflector Finish		Frame-In Kit		
			Non-IC	Non-IC AirSeal	IC AirSeal
C6P38D	<input type="checkbox"/>	+ C6D120	C6DA120		C6DAIC

1			+	2							
Reflector Finish	White Flange	Polished Flange		Frame-In Kits	Type	Input Voltage	Lamp	Wattage	Length	Width	Height
Clear	CLW	CLP		C6120	Non-IC	120V	PAR30	75W Max.	12 3/8"	12 1/2"	8"
Comfort Clear Diffuse	CCDW	CCDP		C6A120	Non-IC AirSeal	120V	PAR30	75W Max.	14 3/8"	9 1/2"	8"
White	WHW	N/A		C6AIC	IC AirSeal	120V	PAR30	75W Max.	19"	10"	9 1/4"
Black	BKW	BKP		C6D120	Non-IC Deep	120V	PAR38	250W Max.	15 3/8"	15 3/4"	10 3/8"
				C6DA120	Non-IC AirSeal Deep	120V	PAR38	250W Max.	15 1/2"	12 1/4"	10 3/8"
				C6DAIC	IC AirSeal Deep	120V	PAR38	120W Max.	22 3/8"	13 1/2"	11 1/4"

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 6" Aperture Downlight



6" Aperture, 75W PAR30 – 35° FL

Reflector Trim: **C6P30D** **CLW**

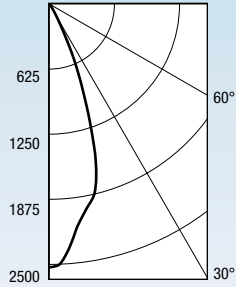
Report No.: 0867FR

Lamp: 75W PAR30
35° Flood

Initial Lumens: 1030

Efficiency: 94.7%

Spacing: 0.6



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	70
5'	44
6'	31
7'	23
8'	17
9'	14

Based on 60" x 60" Room
80/50/20% Reflectances

6" Aperture, 50W PAR30 – 35° FL

Reflector Trim: **C6P30D** **CLW**

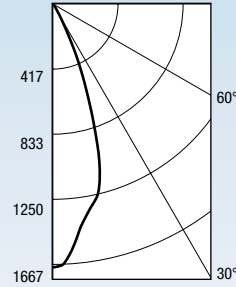
Report No.: 0867FR

Lamp: 50W PAR30
35° Flood

Initial Lumens: 687

Efficiency: 94.7%

Spacing: 0.6

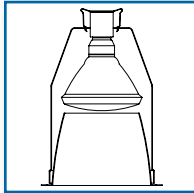


Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	47
5'	29
6'	21
7'	15
8'	11
9'	9

Based on 60" x 60" Room
80/50/20% Reflectances

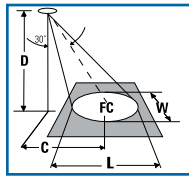
Evolution 6" Aperture Downlight



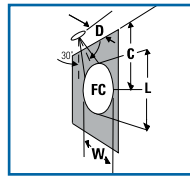
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



6" Aperture, 120W PAR38 – 30° FL

Reflector Trim: **C6P38D** **CLW**

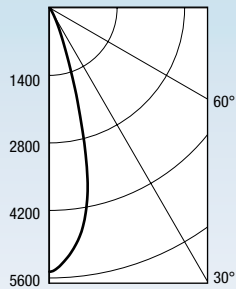
Report No.: 0863FR

Lamp: 120W PAR38
30° Flood

Initial Lumens: 1900

Efficiency: 80.4%

Spacing: 0.5



Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	109
5'	70
6'	49
7'	36
8'	27
9'	22

Based on 60" x 60" Room
80/50/20% Reflectances

6" Aperture, 90W PAR38 – 30° FL

Reflector Trim: **C6P38D** **CLW**

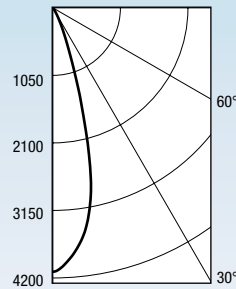
Report No.: 0863FR

Lamp: 90W PAR38
30° Flood

Initial Lumens: 1425

Efficiency: 80.4%

Spacing: 0.5



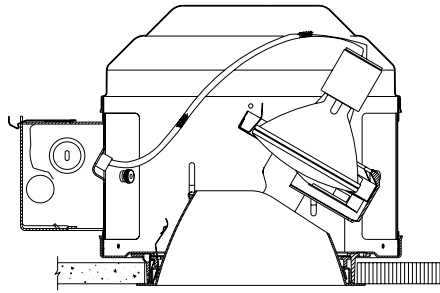
Multiple Unit Data – RCR 1

Spacing on Center	Initial Footcandles
4'	82
5'	53
6'	37
7'	27
8'	20
9'	17

Based on 60" x 60" Room
80/50/20% Reflectances

CALCULITE

Evolution 6" Aperture Adjustable Accent



C6P30A **CLW** Trim with
C6120 Frame-In Kit shown.
Ceiling Cutout: 6 11/16"

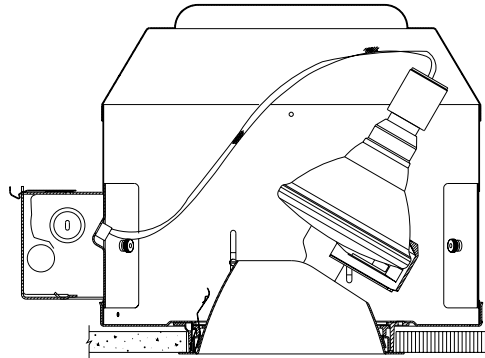
- Locking vertical and horizontal adjustment
- Precision optics minimize aperture brightness
- Snap-in lampholder allows top re-lamping
- Slot cut reflector minimizes view into fixture
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1		+	2		
Trim Kit	Reflector Finish		Frame-In Kit		
			Non-IC	Non-IC AirSeal	IC AirSeal
C6P30A	<input type="checkbox"/>	+ C6120	C6A120		C6AIC

Evolution 6" Aperture Adjustable Accent



C6P38A **CLW** Trim with
C6D120 Frame-In Kit shown.
Ceiling Cutout: 6 11/16"

- Locking vertical and horizontal adjustment
- Precision optics minimize aperture brightness
- Snap-in lampholder allows top re-lamping
- Slot cut reflector minimizes view into fixture
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

1		+	2		
Trim Kit	Reflector Finish		Frame-In Kit		
			Non-IC	Non-IC AirSeal	IC AirSeal
C6P38A	<input type="checkbox"/>	+ C6D120	C6DA120		C6DAIC

1			+	2							
Reflector Finish	White Flange	Polished Flange		Frame-In Kits	Type	Input Voltage	Lamp	Wattage	Length	Width	Height
Clear	CLW	CLP		C6120	Non-IC	120V	PAR30	75W Max.	12 3/8"	12 1/2"	8"
Comfort Clear Diffuse	CCDW	CCDP		C6A120	Non-IC AirSeal	120V	PAR30	75W Max.	14 3/8"	9 1/2"	8"
White	WHW	N/A		C6AIC	IC AirSeal	120V	PAR30	75W Max.	19"	10"	9 1/4"
Black	BKW	BKP		C6D120	Non-IC Deep	120V	PAR38	120W Max.	15 3/8"	15 3/4"	10 3/8"
				C6DA120	Non-IC AirSeal Deep	120V	PAR38	120W Max.	15 1/2"	12 1/4"	10 3/8"
				C6DAIC	IC AirSeal Deep	120V	PAR38	90W Max.	22 3/8"	13 1/2"	11 1/4"

CALCULITE

Evolution 6" Aperture Adjustable Accent

6" Aperture, 50W PAR30 – 11° SP

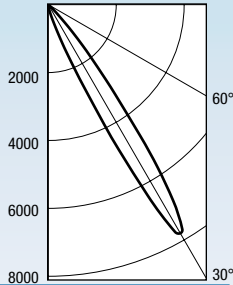
Reflector Trim: **C6P30A** **CLW**

Report No.: 2788FR

Lamp: 50W PAR30
11° Spot

Initial Lumens: 660

Luminaire Beam: 11°

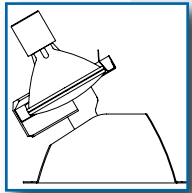


30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	128	1.5'	1.3'
8'	4.6'	74	2.1'	1.8'
10'	5.8'	48	2.9'	2.2'
12'	6.9'	33	2.1'	2.7'
15'	8.7'	21	3.9'	3.3'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	255	1.6'	0.8'
3'	5.2'	123	2.4'	1.2'
4'	6.9'	71	3.2'	1.5'
6'	10.4'	32	4.8'	2.3'
8'	13.9'	18	6.3'	3.1'



6" Aperture, 75W PAR30 – 25° NFL

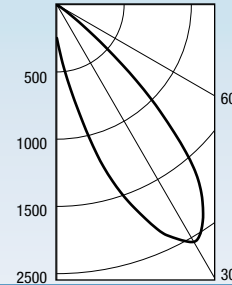
Reflector Trim: **C6P30A** **CLW**

Report No.: 2766FR

Lamp: 75W PAR30
25° Narrow Flood

Initial Lumens: 1130

Luminaire Beam: 31°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	38	4.6'	3.8'
8'	4.6'	22	6.1'	5.1'
10'	5.8'	14	7.6'	6.4'
12'	6.9'	10	9.1'	7.7'
15'	8.7'	6	11.4'	9.6'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	109	5.8'	2.2'
3'	5.2'	50	8.7'	3.3'
4'	6.9'	28	11.5'	4.4'
6'	10.4'	13	17.3'	6.7'
8'	13.9'	7	23.1'	8.9'

6" Aperture, 60W PAR30 – 25° NFL

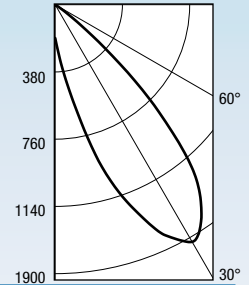
Reflector Trim: **C6P30A** **CLW**

Report No.: 2766FR

Lamp: 60W PAR30
25° Narrow Flood

Initial Lumens: 860

Luminaire Beam: 31°



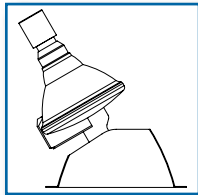
30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	29	4.6'	3.8'
8'	4.6'	17	6.1'	5.1'
10'	5.8'	11	7.6'	6.4'
12'	6.9'	8	9.1'	7.7'
15'	8.7'	5	11.4'	9.6'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	83	5.8'	2.2'
3'	5.2'	38	8.7'	3.3'
4'	6.9'	21	11.5'	4.4'
6'	10.4'	10	17.3'	6.7'
8'	13.9'	5	23.1'	8.9'

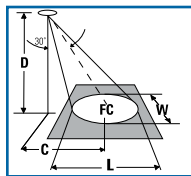
Evolution 6" Aperture Adjustable Accent



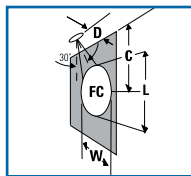
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



6" Aperture, 100W PAR38 IR – 10° NSP

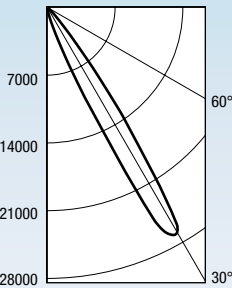
Reflector Trim: **C6P38A** **CLW**

Report No.: 2790FR

Lamp: 100W PAR38 IR
10° Narrow Spot

Initial Lumens: 2030

Luminaire Beam: 11°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	466	1.5'	1.3'
8'	4.6'	268	2.1'	1.8'
10'	5.8'	173	2.6'	2.2'
12'	6.9'	121	3.1'	2.7'
15'	8.7'	78	3.9'	3.3'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	814	1.6'	0.8'
3'	5.2'	393	2.4'	1.2'
4'	6.9'	227	3.2'	1.5'
6'	10.4'	103	4.8'	2.3'
8'	13.9'	58	6.3'	3.1'

6" Aperture, 100W PAR38 IR – 25° FL

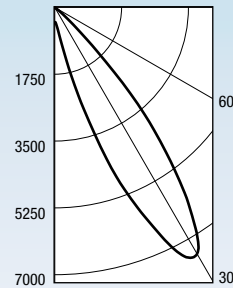
Reflector Trim: **C6P38A** **CLW**

Report No.: 2789FR

Lamp: 100W PAR38 IR
25° Flood

Initial Lumens: 2030

Luminaire Beam: 22°



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	139	3.1'	2.7'
8'	4.6'	79	4.2'	3.6'
10'	5.8'	51	5.2'	4.5'
12'	6.9'	35	6.3'	5.4'
15'	8.7'	23	7.9'	6.7'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	293	3.5'	1.6'
3'	5.2'	135	5.3'	2.3'
4'	6.9'	77	7.0'	3.1'
6'	10.4'	34	10.5'	4.7'
8'	13.9'	19	14.0'	6.2'

6" Aperture, 90W PAR38 – 9° NSP

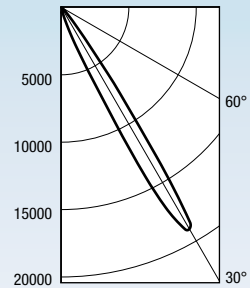
Reflector Trim: **C6P38A** **CLW**

Report No.: 2791FR

Lamp: 90W PAR38
9° Narrow Spot

Initial Lumens: 1310

Luminaire Beam: 9°



30° Aiming Angle - Horizontal Surface

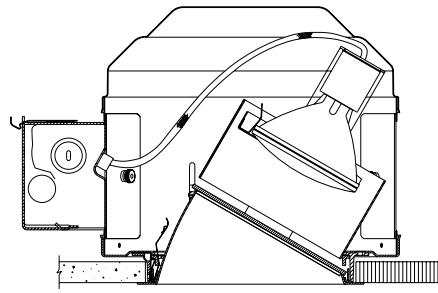
D	C	FC	L	W
6'	3.5'	307	1.3'	1.1'
8'	4.6'	177	1.7'	1.5'
10'	5.8'	115	2.1'	1.8'
12'	6.9'	80	2.5'	2.2'
15'	8.7'	52	3.2'	2.7'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	520	1.3'	0.6'
3'	5.2'	256	1.9'	0.9'
4'	6.9'	149	2.6'	1.3'
6'	10.4'	68	3.8'	1.9'
8'	13.9'	38	5.1'	2.5'

CALCULITE

Evolution 6" Aperture Lensed Wall Wash



C6P30L **CLW** Trim with
C6120 Frame-In Kit shown.
Ceiling Cutout: 6 11/16"

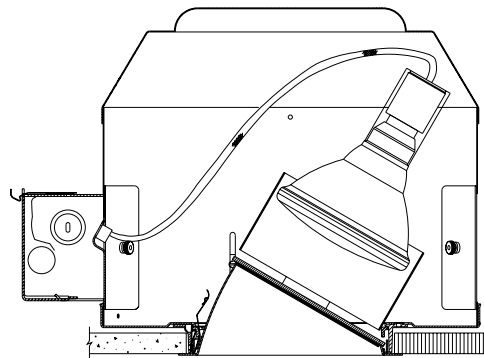
- Full-cone kick reflector for maximum output
- Tempered, frosted directional spread lens
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

Trim Kit	1 +		2		
	Reflector Finish	Non-IC	Frame-In Kit		
			Non-IC AirSeal	IC AirSeal	
C6P30L	<input type="checkbox"/>	+ C6120	C6A120	C6AIC	

Evolution 6" Aperture Lensed Wall Wash



C6P38L **CLW** Trim with
C6D120 Frame-In Kit shown.
Ceiling Cutout: 6 11/16"

- Full-cone kick reflector for maximum output
- Tempered, frosted directional spread lens
- 1 1/4" maximum ceiling thickness

Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

How to Specify:

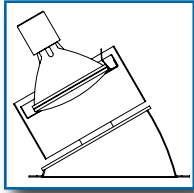
Trim Kit	1 +		2		
	Reflector Finish	Non-IC	Frame-In Kit		
			Non-IC AirSeal	IC AirSeal	
C6P38L	<input type="checkbox"/>	+ C6D120	C6DA120	C6DAIC	

1			2							
Reflector Finish	White Flange	Polished Flange	Frame-In Kits	Type	Input Voltage	Lamp	Wattage	Length	Width	Height
Clear	CLW	CLP	C6120	Non-IC	120V	PAR30	75W Max.	12 3/8"	12 1/2"	8"
Comfort Clear Diffuse	CCDW	CCDP	C6A120	Non-IC AirSeal	120V	PAR30	75W Max.	14 3/8"	9 1/2"	8"
White	WHW	N/A	C6AIC	IC AirSeal	120V	PAR30	75W Max.	19"	10"	9 1/4"
Black	BKW	BKP	C6D120	Non-IC Deep	120V	PAR38	120W Max.	15 3/8"	15 3/4"	10 3/8"
			C6DA120	Non-IC AirSeal Deep	120V	PAR38	120W Max.	15 1/2"	12 1/4"	10 3/8"
			C6DAIC	IC AirSeal Deep	120V	PAR38	90W Max.	22 3/8"	13 1/2"	11 1/4"

For additional Frame-In Kit information see pages 52-53.

CALCULITE

Evolution 6" Aperture Lensed Wall Wash



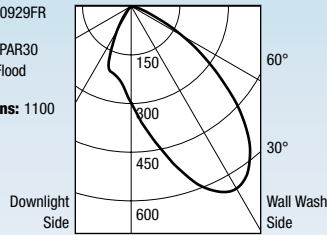
6" Aperture, 75W PAR30 – 40° FL

Reflector Trim: **C6P30L** **CLW**

Report No.: 0929FR

Lamp: 75W PAR30
40° Flood

Initial Lumens: 1100



Multiple Unit Data - RCR 1 3' from Wall - 3' On Center

	3'		
Distance From Ceiling in Feet	1'	2'	3'
1'	4	3	4
2'	10	8	10
3'	15	12	15
4'	17	14	17
5'	15	14	15
6'	12	12	12
7'	10	10	10
8'	8	8	8
9'	6	6	6

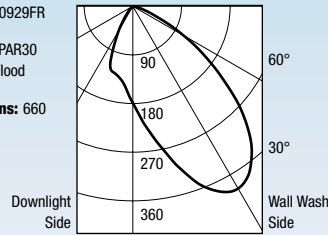
6" Aperture, 50W PAR30 – 40° FL

Reflector Trim: **C6P30L** **CLW**

Report No.: 0929FR

Lamp: 50W PAR30
40° Flood

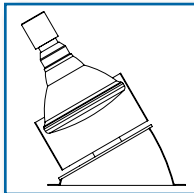
Initial Lumens: 660



Multiple Unit Data - RCR 1 3' from Wall - 3' On Center

	3'		
Distance From Ceiling in Feet	1'	2'	3'
1'	2	2	2
2'	6	5	6
3'	9	7	9
4'	10	8	10
5'	9	8	9
6'	7	7	7
7'	6	6	6
8'	5	5	5
9'	4	2	4

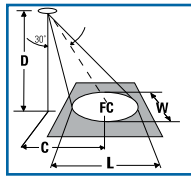
Evolution 6" Aperture Lensed Wall Wash



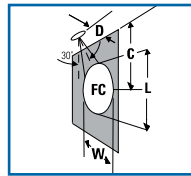
30° Aiming Angle

FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

Horizontal Surface



Vertical Surface



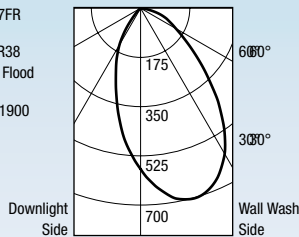
6" Aperture, 120W PAR38 – 50° WFL

Reflector Trim: **C6P38L** **CLW**

Report No.: 0927FR

Lamp: 120W PAR38
50° Wide Flood

Initial Lumens: 1900



Multiple Unit Data - RCR 1 3' from Wall - 3' On Center

	3'		
Distance From Ceiling in Feet	1'	2'	3'
1'	9	7	9
2'	16	14	16
3'	20	18	20
4'	19	19	19
5'	17	16	17
6'	14	14	14
7'	11	11	11
8'	9	9	9
9'	7	7	7

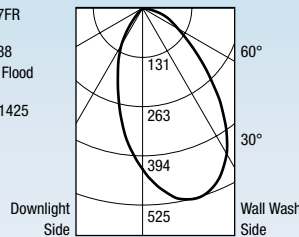
6" Aperture, 90W PAR38 – 50° WFL

Reflector Trim: **C6P38L** **CLW**

Report No.: 0927FR

Lamp: 90W PAR38
50° Wide Flood

Initial Lumens: 1425

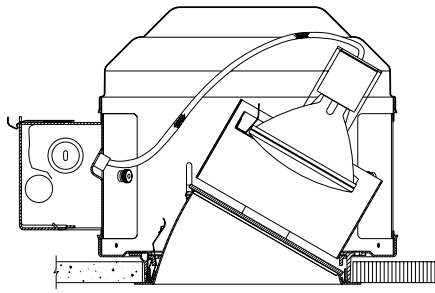


Multiple Unit Data - RCR 1 3' from Wall - 3' On Center

	3'		
Distance From Ceiling in Feet	1'	2'	3'
1'	7	5	7
2'	12	11	12
3'	15	14	15
4'	14	14	14
5'	13	12	13
6'	11	11	11
7'	8	8	8
8'	7	7	7
9'	5	5	5

CALCULITE

Evolution 6" Aperture Adjustable Accent



C6P36A **CLW** Trim with
C6LV Frame-In Kit shown.
Ceiling Cutout: 6 11/16"

How to Specify:

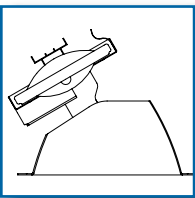
1		2		
Trim Kit	Reflector Finish	Non-IC	Frame-In Kit Non-IC AirSeal	IC AirSeal
C6P36A	<input type="checkbox"/>	+ C6LV	C6ALV	C6AICLV

- Locking vertical and horizontal adjustment
- Precision optics minimize aperture brightness
- Snap-in lampholder allows top re-lamping
- Slot cut reflector minimizes view into fixture
- 1 1/4" maximum ceiling thickness

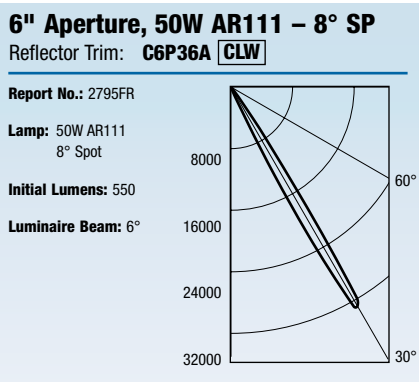
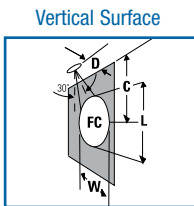
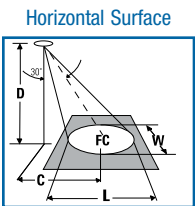
Complete fixture consists of a Frame-In Kit and a Trim Kit (ordered separately).

1			2								
Reflector Finish	White Flange	Polished Flange	Frame-In Kits	Type	Transformer	Input Voltage	Lamp	Wattage	Length	Width	Height
Clear	CLW	CLP	C6LV	Non-IC	Magnetic	120/277V	PAR36 (12V) PAR36 (5.5V) AR111 (12V)	35-75W 25W Max. 35-75W	15 3/4"	9 1/2"	6"
Comfort Clear Diffuse	CCDW	CCDP	C6ALV	Non-IC AirSeal	Magnetic	120V	PAR36 (12V) PAR36 (5.5V) AR111 (12V)	35-75W 25W Max. 35-75W	15 3/4"	9 1/2"	6"
White	WHW	N/A	C6AICLV	IC AirSeal	Magnetic	120V	PAR36 (12V) PAR36 (5.5V) AR111 (12V)	35-75W 25W Max. 35-75W	19"	10"	9 1/4"
Black	BKW	BKP									

For additional Frame-In Kit information see pages 52-53.



30° Aiming Angle
FC is initial footcandles at center of beam. Beam length **L** and beam width **W** are to where the candlepower is reduced to 50% of the center beam candlepower. **C** is the distance to the center of the beam.

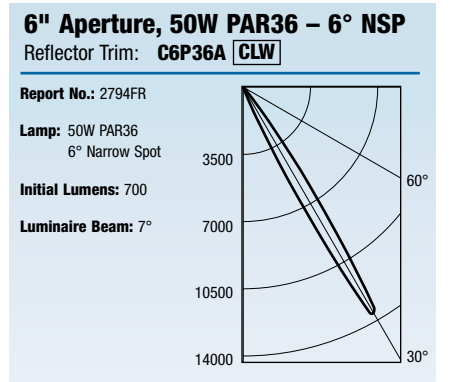


30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	437	0.8'	0.7'
8'	4.6'	253	1.1'	1.0'
10'	5.8'	164	1.4'	1.2'
12'	6.9'	115	1.7'	1.5'
15'	8.7'	74	2.1'	1.8'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	732	0.8'	0.4'
3'	5.2'	371	1.3'	0.6'
4'	6.9'	218	1.7'	0.8'
6'	10.4'	100	2.5'	1.3'
8'	13.9'	57	3.4'	1.7'



30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	197	1.0'	0.8'
8'	4.6'	114	1.3'	1.1'
10'	5.8'	74	1.6'	1.4'
12'	6.9'	52	2.0'	1.7'
15'	8.7'	33	2.4'	2.1'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	353	1.0'	0.5'
3'	5.2'	176	1.5'	0.7'
4'	6.9'	103	2.0'	1.0'
6'	10.4'	47	3.0'	1.5'
8'	13.9'	27	4.0'	2.0'



CALCULITE

Evolution Options and Accessories

Care & Maintenance

If handling of reflectors is required, the use of clean white or plastic film gloves is recommended to avoid fingerprints. Specular surfaces can be cleaned by the following methods: Wipe off with soft clean, dry lint-free cloth; or wipe off with a soft cloth dampened in mild detergent solution, rinse, then wipe dry with lint-free cloth or paper towel; or wipe off with clean cloth dampened with a solution of wetting agent and water (such as 2 oz. per gallon "Pluronic L62-LF" by Wynandotte Products) or liquid such as Glass Wax[®] then wipe dry with a lint-free cloth or paper towel. Avoid gritty cleaning agents.

Trim Options



P Polished Flange

5/8" wide integral flange polished and finished to match the appearance of the interior of the reflector (available option on most reflector types).



W White Painted Flange

5/8" wide integral flange painted matte white. Standard trim detail on all reflectors.

Finish Options



CL Clear

Clear is the most specular and therefore most efficient finish available. Clear reflectors deliver maximum photometric performance but can produce a mirror image of the interior of the space.



WH White

The matte white finish produces the brightest aperture when illuminated but provides the smoothest transition to most ceilings when off. White is available only with a white flange.



BK Black

Black is a specular finish that provides the lowest aperture brightness possible and significantly reduces source identification in a ceiling.



CCD Comfort Clear™ Diffuse

Comfort Clear Diffuse is a semi-specular finish that softens the light at the source of the reflector. The finish creates a subtle, even luminance from the reflector cone.

Pinhole Finish Options



SA Satin Aluminum

Satin Aluminum, knife-edged pinhole aperture with matching flange.



BK Black

Matte Black, knife-edged pinhole aperture with matte white flange.



WH White

Matte White, knife-edged pinhole aperture with matching flange.

Conversion Kits

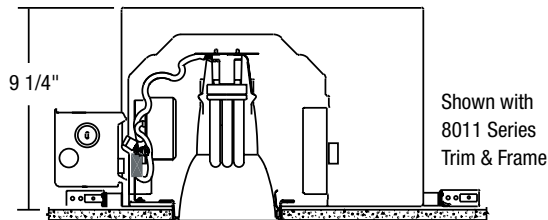
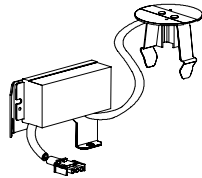
Compact Fluorescent Conversion Kit Converts previously installed incandescent Frame-In Kits to optically correct triple tube compact fluorescent downlights, without the cost of rewiring or reworking the ceiling. Calculite conversion kits properly position the standard (not self ballasted) lamp above the ceiling for effective glare control. Precise optics, thermal engineering and electronic ballasts assure high light output. Construction Screw-shell adaptor fits incandescent socket cup.

Separate ballast compartment attaches to the previously installed frame. Socket cup snaps onto new fluorescent reflectors for correct lamp focus. Electronic Ballast 120 volts only. Soft, non-pulsating starting down to 0°F. Reflector New 6" or 7" triple tube reflector required. For other fixtures, consult your Canlyte representative

For photometric information, see separate trim specification sheets..

4 1/2" Aperture, IC Conversion Kit 120 V

18 Watt Triple Tube



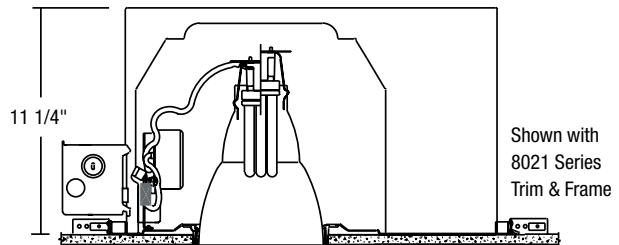
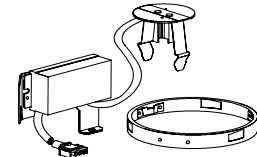
How to Specify:

Frame	Conversion Kit	Trim	Description
C4AIC	C4CFL18	8011	Vertical Triple Tube Downlight
C4AIC	C4CFL18	8011WW	Vertical Triple Tube Wall Washer

*Also compatible with **C4120** (Non-IC) and **C4A120** (Non-IC Airseal[®])

6" Aperture, IC Conversion Kit 120 V

26 or 32 Watt Triple Tube



How to Specify:

Frame	Conversion Kit	Trim	Description
C6DAIC	C6CFL32	8021	Vertical Triple Tube Downlight
C6DAIC	C6CFL32	8021WW	Vertical Triple Tube Wall Washer
C6DAIC	C6CFL32	8091	Lensed Downlight
C6DAIC	C6CFL32	8091CB	Cross Blade Downlight
C6DAIC	C6CFL32	8046	Lensed Wall Washer
C6DAIC	C6CFL32	8031	Horizontal Triple Tube Downlight

*Also compatible with **C6120** (Non-IC) and **C6A120** (Non-IC Airseal[®])

CALCULITE

Evolution Options and Accessories

Calculite Filters and Accessories

Accessories offer additional flexibility to the Calculite family of adjustable accent lights. The Non-diffusing Color Filters and Specialty Filters are rimless tempered glass. Light Frost filters soften beam patterns without washing out intensity. Perimeter Frost filters softly diffuse edge of beam while maintaining center beam candlepower. Rimmed stainless steel screen sets block light from 15 to 64 percent, without changing source color temperature. Matte black hex cell and cube cell louvers and 45° cut-off hood provides additional brightness control.

For appropriate fixtures a maximum of 2 accessories can be used. One color and one specialty filter. Filters can be used simultaneously.

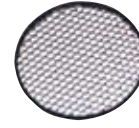
Hex Cell Louvers



AL2HC = 2" dia.
Hex Cell Louver

Series: **AL**

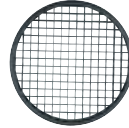
Screen Kits



AS4LS = 4 3/4" dia.
Light Blocking

Each kit contains two 15% Light Blocking Screen and two 40% Light Blocking Screens.

Cube Cell Louvers



AL4CC = 4 3/4" dia.
Cube Cell Louver

Series: **AL**

Provides additional light shielding and reduces lamp glare when needed. Matte black finish.

Diffusion/Special Filters

Series: **AF2** = 2" dia., **AF4** = 4 3/4" dia.



UV Optivex™
UV Reduction*



IR Infra-Red
Reduction**



PF Perimeter Frost



AS Beam
Elongator Lens**



SY Symmetrical
Spread Lens



SF Solite™
Diffusion Lens



FR Frosted
Softening Lens

* Optivex UV
filters by
Bausch & Lomb

** Not for use
on all fixtures.
See fixture
spec sheet

Color Filters

Series: **ADF2** = 2" dia., **ADF4** = 4 3/4" dia.

Primary Colors*:



RD Red



BL Blue



GR Green

Secondary Colors:



MM Medium
Magenta



BG Blue
Green



YG Yellow
Green



MA Medium
Amber

* Primary colors not for
use with MR16 fixtures.

Mixing Colors:*

Daylight Filter (Mired Shift of -137) converts:
2800°K source to 4500°K
3000°K source to 5100°K
3200°K source to 5700°K

* Filters shown together
mix to white.



SP Suprise
Pink



SB Steel
Blue



DA Daylight
Color Correction



LS Light
Straw



BA Bastard
Amber



LP Light
Pink

Evolution 2" Thick Ceiling Adapters

C4TCA

For use with Evolution 4" Aperture fixtures

Frames	Trims
C4LV	C4ARA, C4MRA, C4MR2, C4MRP, C4MRGD, C4MRGA, C4MRW
C4ALV	C4ARA, C4MRA, C4MR2, C4MRP, C4MRGD, C4MRGA, C4MRW
C4AICLV*	C4ARA, C4MRA, C4MR2, C4MRP, C4MRGD, C4MRGA, C4MRW
C4120	C4P20A, C4P20GD, C4P20GA
C4A120	C4P20A, C4P20GD, C4P20GA
C4AIC	C4P20A, C4P20GD, C4P20GA

*No Thru Circuit Wiring

C6TCAA

For use with Evolution 6" aperture
ADJUSTABLE ACCENT fixtures

Compatibility Matrix		Compatibility Matrix	
Frames	Trims	Frames	Trims
C6LV	C6P36A, C6P36A	C6120	C6AD, C6P30D, C6AW
C6ALV	C6P36A, C6P36A	C6A120	C6AD, C6P30D, C6AW
C6AICLV	C6P36A, C6P36A	C6D120	C6AD, C6P38D, C6AW
C6120	C6P30A	C6DA120	C6AD, C6P38D, C6AW
C6A120	C6P30A	C6AIC	C6AD, C6P30D, C6AW
C6D120	C6P38A	C6DAIC	C6AD, C6P38D, C6AW
C6DA120	C6P38A		
C6AIC*	C6P30A		
C6DAIC*	C6P38A		

*No Thru Circuit Wiring

Note: Max Wattage allowed may be restricted with the use of Thick Ceiling Adapters, See specification sheets for details.

Flangeless Trim Accessory Ring

CA3FMR

Machined aluminum accessory ring (ordered separately) is used with 3" aperture flangeless trims (FT suffix) to provide a flush custom installation. After the frame-in kit is installed, the flangeless ring is inserted into the ceiling opening and the flange is plastered over, feathered, sanded and finished.



CALCULITE

Evolution Frame-In Kit Information

IC RATED RECESSED HOUSINGS

Any combustible material (examples include: thermal insulation, wood ceiling joists, wall studs, plywood, particle board, OSB and compressed fiber tiles) surrounding a Type-IC fixture may contact exterior parts of the fixture housing.

Although permitted by NEC to touch the fixture, it should be noted that some materials (including: foam insulation and plastics) may be degraded by 90°C temperature. Questions regarding the effect temperature on these types of materials should be directed to the material manufacturer.

NON-IC RATED RECESSED HOUSINGS

Any combustible material (examples include: wood ceiling joists, wall studs, plywood, particle board and OSB) surrounding a Non-IC recessed fixture must be spaced at least 1/2 in from the fixture. The fixture base and the portion of the trim passing through the ceiling may contact combustible ceiling materials including as woods and compressed fiber tiles. Thermal insulation must be permanently spaced at least 3 inches from the fixture sides and must not be placed above the fixture.

LOW VOLTAGE TRANSFORMER NOISE

Some noise is produced by low voltage lighting systems from both the lamps themselves and the transformers, especially when dimmed.

This noise can be audible depending on the lamp / transformer combination, the level of background noise, the absorpency of the surrounding surfaces and the hearing of the people involved. Whether the noise is objectionable depends largely on how critical the application is.

In general, non-dimmed, magnetic low-voltage transformers will be audible to most observers in most applications. In applications where noise is a critical issue, special care should be taken to examine all design options especially the choice of lighting, surface and furnishing materials.

THERMAL PROTECTION

All recessed incandescent Calculite fixtures are thermally protected in accordance with National Electric Code and UL Requirements.

Incandescent fixtures also carry IP (improper lamping) labels. Secondary voltage on transformers allows voltage to be maintained at 12V or less to assure rated life of lamp or better.

Options

Mounting Clips

T-bar Clips anchor 1950 or 1951 to T-bars.

Set of 4 clips **1956**

Step Down Transformer

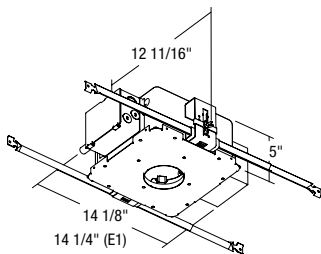
* Please consult your Canlyte representative.

3" NON-IC

C3LV 3" NON-IC 12V Frame

C3LVE1 3" NON-IC 12V Frame

Ceiling Cutout: 3 1/2" Dia.

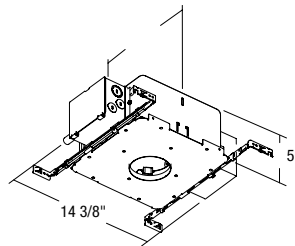


3" NON-IC AIRSEAL

C3ALV 3" NON-IC AirSeal 12V Frame

C3ALVE1 3" NON-IC AirSeal 12V Frame

Ceiling Cutout: 3 1/2" Dia.

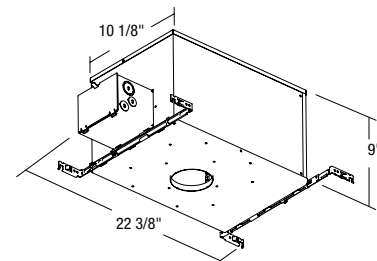


3" IC AIRSEAL

C3AICLV 3" IC AirSeal 12V Frame

C3AICLVE1 3" IC AirSeal 12V Frame

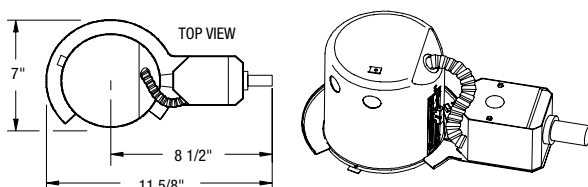
Ceiling Cutout: 3 1/2" Dia.



4" NON-IC REMODELER

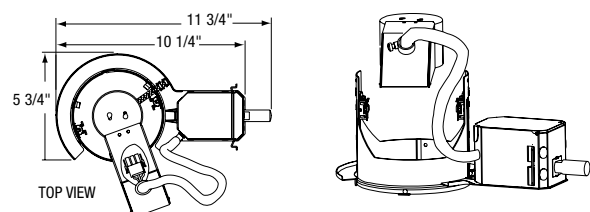
C4LVE1RM 4" NON-IC 12V Remodeler Electronic MR-16

Ceiling Cutout: 5 1/16" Dia.



C4120RM 4" NON-IC 120V Remodeler

Ceiling Cutout: 5" Dia.



CALCULITE

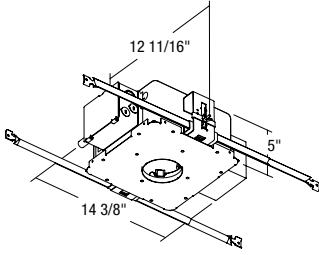
Evolution Frame-In Kit Information

4" NON-IC

C4LVMU 4" NON-IC 12V Frame

C4LVE1 4" NON-IC 12V Frame

Ceiling Cutout: 5 1/16" Dia.

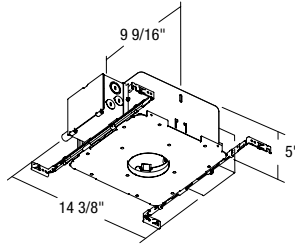


4" NON-IC AIRSEAL

C4ALVMU 4" NON-IC AirSeal 12V Frame

C4ALVE1 4" NON-IC AirSeal 12V Frame

Ceiling Cutout: 5 1/16" Dia.

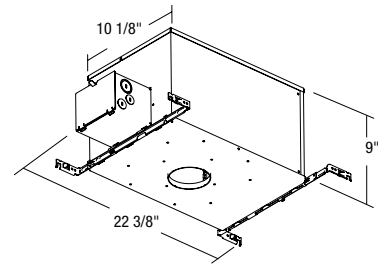


4" IC AIRSEAL

C4AICLVM1 4" IC AirSeal 12V Frame

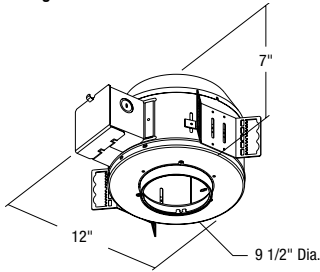
C4AILVE1 4" IC AirSeal 12V Frame

Ceiling Cutout: 5 1/16" Dia.



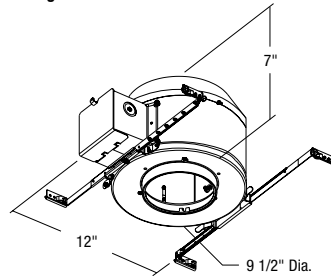
C4120 4" NON-IC 120V Frame

Ceiling Cutout: 5 1/16" Dia.



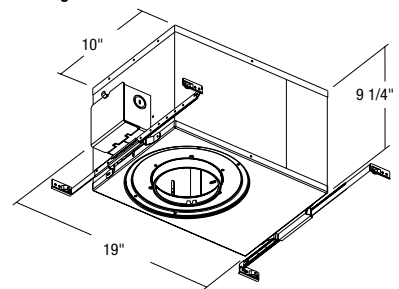
C4A120 4" NON-IC AirSeal 120V Frame

Ceiling Cutout: 5 1/16" Dia.



C4AIC 4" IC AirSeal 120V Frame

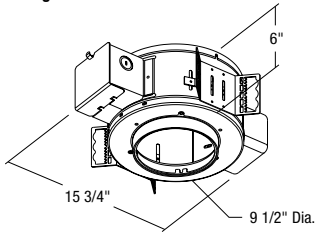
Ceiling Cutout: 5 1/16" Dia.



6" NON-IC

C6LV 6" NON-IC 12V Frame

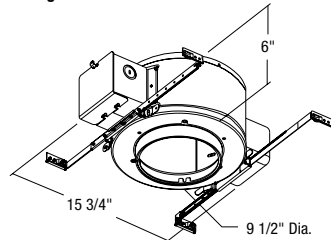
Ceiling Cutout: 6 11/16" Dia.



6" NON-IC AIRSEAL

C6ALV 6" NON-IC AirSeal 12V Frame

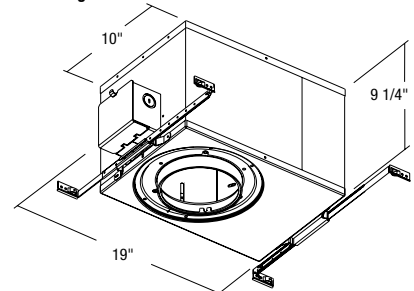
Ceiling Cutout: 6 11/16" Dia.



6" IC AIRSEAL

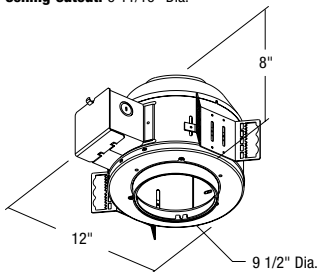
C6AICLV 6" IC AirSeal 12V Frame

Ceiling Cutout: 6 11/16" Dia.



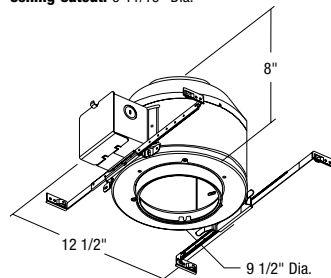
C6120 6" NON-IC 120V Frame

Ceiling Cutout: 6 11/16" Dia.



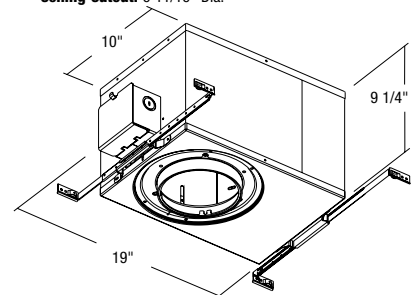
C6A120 6" NON-IC AirSeal 120V Frame

Ceiling Cutout: 6 11/16" Dia.



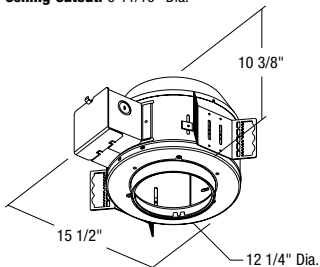
C6AIC 6" IC AirSeal 120V Frame

Ceiling Cutout: 6 11/16" Dia.



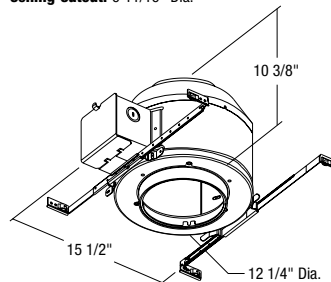
C6D120 6" NON-IC Deep 120V Frame

Ceiling Cutout: 6 11/16" Dia.



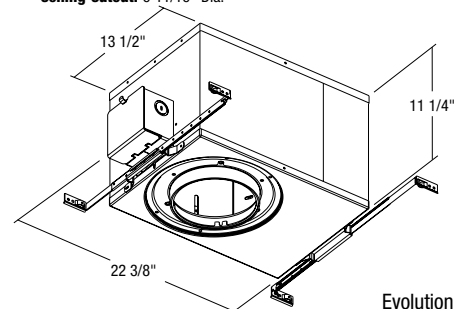
C6DA120 6" NON-IC Deep AirSeal 120V Frame

Ceiling Cutout: 6 11/16" Dia.



C6DAIC 6" IC Deep AirSeal 120V Frame

Ceiling Cutout: 6 11/16" Dia.

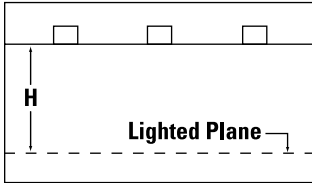


Lumen Method

Also known as the Zonal Cavity Method, the Lumen Method calculates the average illuminance (footcandles) on the lighted plane of a room from a regular array of luminaires. The Lumen Method calculates delivered lumens per square foot and uses two steps.

- (1) Find the Room Cavity Ratio (RCR) to determine the Coefficient of Utilization (CU) of the luminaires in the room.

$$RCR = 5 \times H \times (L + W) / L \times W$$



H = Height to the lighted plane

L = Length of the room

W = Width of the room

- (2) Use the RCR and the room surface reflectances to select the correct value from the CU table. Then apply to the formula below for maintained footcandles.

$$FC = \frac{\text{No. of luminaires} \times \text{lamp lumens} \times \text{CU} \times \text{LLF}}{L \times W}$$

Maintained Footcandles

To determine maintained footcandles from the Application Data, multiply the initial values by appropriate Light Loss Factors (below).

Light Loss Factors (LLF)

Compensate for dirt accumulation and lamp lumen depreciation over time. The factors below apply to Calculite luminaires.

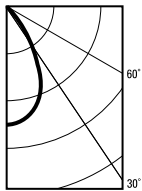
Room Conditions	Luminaire Type	
	Open	Lensed
Clean area, regular maintenance, group relamping	.75	.70
Medium dirty area, regular maintenance, spot relamping	.70	.65
Dirty area, poor maintenance, and spot relamping	.65	.60

Candlepower Curve

Indicates light distribution from the luminaire with the lamp indicated. The initial lumens are the rated lumens of the lamp. The efficiency is the percentage of lamp lumens emitted from the luminaire.

Candlepower Curve

100W A19
1,600 Initial Lumens



Report0836FR
Efficiency = 50.8%

Coefficients of Utilization (CU)

Express the percentage of light from the luminaire that reaches the lighted plane in a specific room. The CU table reflects both the luminaire performance (efficiency and beam spread) and installation (RCR and surface reflectances).

Coefficients of Utilization

% Ceiling 80 (20% Floor)

Room Cavity Ratio	% Wall		
	50	30	10
1	.57	.56	.55
2	.54	.53	.51
3	.51	.49	.48
4	.49	.47	.45
5	.47	.44	.42
6	.45	.42	.40
7	.42	.40	.38
8	.40	.38	.36
9	.38	.36	.34
10	.36	.34	.32

Room Cavity Ratio (RCR)

Expresses the aspect ratio of the room. A higher RCR typically refers to a longer distance to the lighted plane (a taller or narrower space) where more light is absorbed by the walls.

Single Unit

Initial footcandles (illuminances) are directly below the luminaire and are based on inverse-square law calculations. Beam diameter is based on the beam spread of the luminaire at 50% of center beam candlepower.

Multiple Units

Spacing Ratio 0.9
Spacing on Center Initial Footcandles

4'	57
5'	36
6'	25
7'	19
8'	14
9'	11

Based on 60' x 60' room (RCR=1), 80/50/20% reflectances

Single Unit

Height to Lighted Plane	Initial Foot-candles	Beam Dia-meter
4'	61	4.0'
5'	39	5.0'
6'	27	6.0'
7'	20	7.0'
8'	15	9.0'
9'	12	10.0'

56 degree beamspread
To 50% CBCP

Multiple Units

Footcandles are initial and are based on Lumen Method calculations. The average illuminance is shown on a lighted plane 6' (up to 9') below the luminaires in a 60' x 60' room (RCR=1). For other room sizes, multiply the footcandles by:

.90 for a 30' x 30' room
.85 for a 20' x 20' room
.70 for a 12' x 12' room

To find the maximum spacing of luminaires for even lighting multiply the spacing ratio by the distance from the fixture to the lighted plane.

CALCULITE

Evolution Index

Cat. No.	Pg. No.	Cat. No.	Pg. No.
Accessories	50-51	C4MRGD	28
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C3MRA	13	C4P20A	34
C3MRD	12	C4P20D	32
C3MRGA	19	C4P20GA	37
C3MRGD	18	C4P20GD	36
C3MRL	16	C4P20L	35
C3MRPA	15	C4P30D	33
C3MRPD	14	C6ACW	41
C3MRW	17	C6AD	40
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C4AD	30	C6ALV	53
C4ADW	31	C6AW	41
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C4MRGA	29	1956	51

Lightolier... Inspiring Intelligent Expression

Lightolier helps bring lighting ideas to life in residential, commercial and institutional markets with a complete line of stylish, innovative and energy efficient luminaires, including Evolution and other models in the Calculite family of luminaires, engineered in North America.

Lightolier Calculite solutions are backed by a nationwide sales force of trained Canlyte representatives offering a wide range of support services. These include computer assisted Genesys III lighting design workstations, which simulate the lighting options and calculations for a given space, and the Lighting Concept Centre, a 7,500 square foot demonstration facility giving lighting professionals the opportunity to see lighting solutions in action.

For more information, contact:

Lightolier

A Canlyte Brand

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Email: info@canlyte.com

Brochure #CG261E

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We reserve the right to change details of design, materials and finish that will not alter installed appearance or reduce function and performance.

Lightolier is a part of Canlyte, a Canadian lighting manufacturing company committed to empowering the success of its customers through local trusted lighting specialists, resources and solutions.



a Genlyte company

Empowering Success