modül
multiple module series

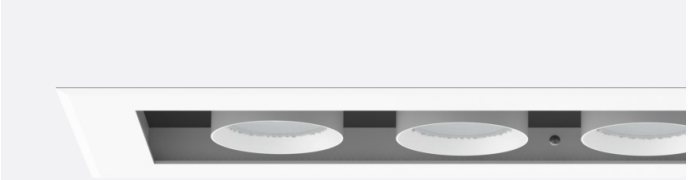
PROJECT:

QUANTITY: TYPE:

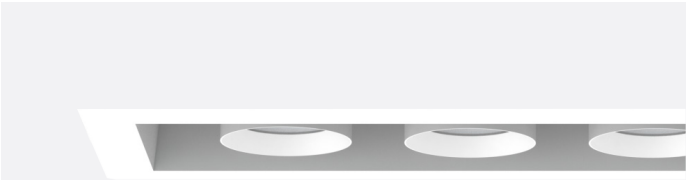
4" MODULAR ACCENT LIGHT

FLUSH FLAT FLANGE / REGRESSED BEVELED FLANGE / REGRESSED RAZOR EDGE FLANGELESS

LED SERIES / MULTI-MODULE / 4 × 2000 LUMENS / 2.5" DIAMETER MODULES



FLUSH FLANGE - RC4_FT2PC



BEVELED FLANGE - RC4_RT2PC

RAZOR EDGE FLANGELESS - RC4_NF2PC

RC4-FT2PC / RT2PC / NF2PC

APPLICATION

RC series modular fixture for retail, residential and commercial accent lighting.

FEATURES

Flush Flat Flanged for all ceiling types. Regressed Beveled Flanged for clean finished appearance. Regressed Razor Edge Flangeless for plaster ceilings install. Fixture available with 1-4 modules. Fixture modules rotate 359°, lock and tilt to 30° aiming. Easy driver and j-box access.

Multi-bar adjustable mounting brackets. Posi-lock trim attachment. Front loading lamp bezel accepts up to two lens/louver options.

TRIM FINISH

A variety of architectural powdercoat finishes for interior of fixture and trim are available.

ELECTRONICS

LED system features state of the art, high efficiency LEDs providing consistent stable color with excellent CCT control over the life of the light engine. Base 80 min CRI with 3-step MacAdam ellipse binning. High CRI of 90 min is also available as a standard option. A variety of electronic 120/277V and dimming options are available.

CONSTRUCTION

Housing constructed of #20 ga. galvanized steel and powdercoated to resist corrosion. Trim fabricated from aluminum extrusion and finished to specification.

CODE COMPLIANCE

BAA Compliant. Non-IC rated. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Manufactured and tested to UL standards No. 1598/8750.

SERIES	LUMENS[1]	CCT	BEAM[2]	DRIVER / VOLTAGE[3]	OPTIONS[4]	INTERIOR
FLANGE	**10L** 550 Lm	80 CRI	**MD** 34°	**D1** 1% 0-10V, 120V	LENS	**MWI** Matte White Interior
RC44FT2PC (1 MODULE)	**20L** 1100 Lm	**27K** 2700K	**WD** 49°	**D2** 1% 0-10V, 277V	**NL** No Lens	**MBI** Matte Black Interior
RC48FT2PC (2 MODULES)		**30K** 3000K			**GL16** Clear Glass Lens	**PTI** Platinum Silver Interior
RC412FT2PC (3 MODULES)		**35K** 3500K			**SO16** Solite Lens	**BZI** Bronze Interior
RC416FT2PC (4 MODULES)		**40K** 4000K			**HL16** Hex Louver	**CCI** Custom Color Interior
BEVELED FLANGE		90 CRI				Reference Color Sheet Located on Product Webpage For Full List of Available Colors.
RC44RT2PC (1 MODULE)		**27HK** 2700K			OPTIONS	
RC48RT2PC (2 MODULES)		**30HK** 3000K			**EM** Emergency Battery	
RC412RT2PC (3 MODULES)		**35HK** 3500K				
RC416RT2PC (4 MODULES)		**40HK** 4000K				
FLANGELESS						
RC44NF2PC (1 MODULE)						
RC48NF2PC (2 MODULES)						
RC412NF2PC (3 MODULES)						
RC416NF2PC (4 MODULES)						

1. Nominal Delivered Lumens 80 CRI at Any CCT with ND, No Lens - Per Module

2. Beam angles represent one module

3. Contact Factory for Additional Options

4. See Product Page for Details - Only 1 option can be combined

TRIM[5]	FINISHES	BAR HANGERS
FLANGED	**MWMF** Matte White	**BH27** 27" Flat Bar
FT044	**MBMF** Matte Black	**CB24** 24" C-Channel
FT048	**PTMF** Platinum Silver	**CB48** 48" C-Channel
FT0412	**BZMF** Bronze	
FT0416	**CC** Custom Color	
BEVELED FLANGE		
RT244		
RT248		
RT2412		
RT2416		
FLANGELESS	**FLANGELESS**	
NF144	**MW** Matte White	
NF148	**MB** Matte Black	
NF1412	**PT** Platinum Silver	
NF1416	**BZ** Bronze	
	CC Custom Color	

5. Inside Trim and Flange Will Match Color Specified

Reference Color Sheet Located on Product Webpage For Full List of Available Colors.

EXAMPLE: RC44FT2PC10L27KMDD1SO16MWIFT044MWMFBH27

5 YEAR WARRANTY · BABA COMPLIANT · MADE IN THE USA

Spectrum Lighting

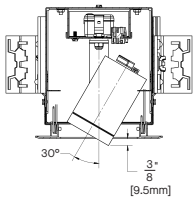
4" MODULAR ACCENT LIGHT

FIXTURE DIMENSIONS

RC4_FT2PC - FLUSH FLAT FLANGE

CUTOUT
5.2 × 5.2
5.2 × 8.8
5.2 × 12.8
5.2 × 16.8

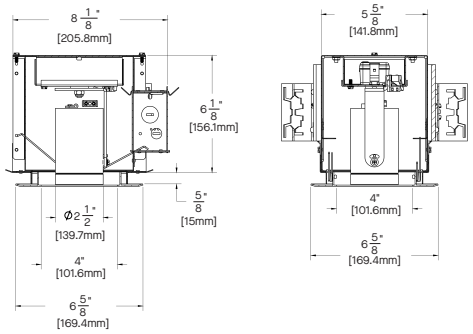
SIDE VIEW WITH PULL DOWN



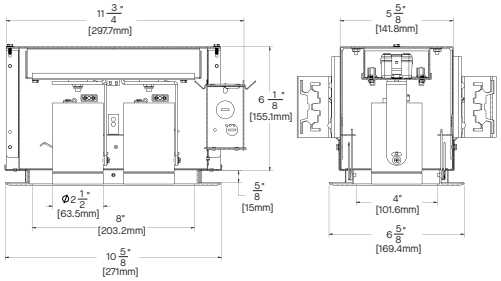
LUMENS / WATTAGE DATA				
PART NUMBER	SOURCE LUMENS[1]	DELIVERED LUMENS[2]	SYSTEM WATTS	LPW
RC44_2PC 10L	1000	550	7.4	74
RC44_2PC 20L	2000	1078	13.4	80

1 Nominal Source Lumens at 35K 2 Nominal Delivered Lumens at 82 CRI with 20L 35K MD XX MW NL

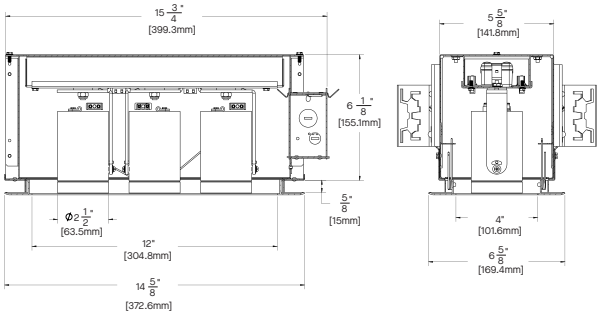
RC44FT2PC (1 MODULE)



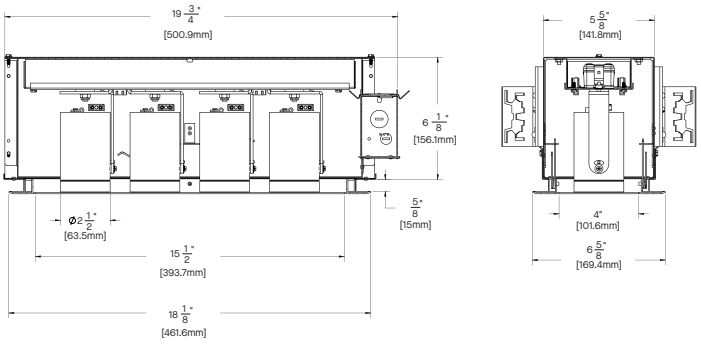
RC48FT2PC (2 MODULE)



RC412FT2PC (3 MODULE)



RC416FT2PC (4 MODULE)



4" MODULAR ACCENT LIGHT

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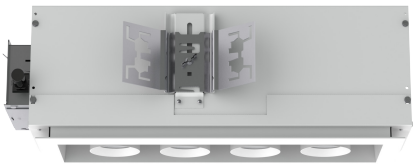
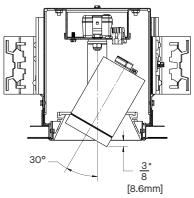
FIXTURE DIMENSIONS

RC4_RT2PC - REGRESSED BEVEL FLANGE

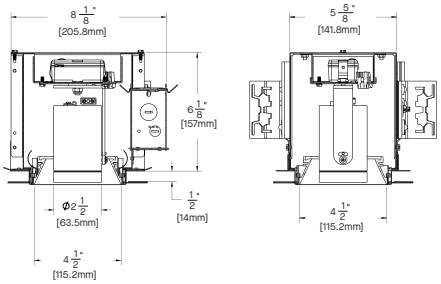


CUTOUT
5.2 × 5.2
5.2 × 8.8
5.2 × 12.8
5.2 × 16.8

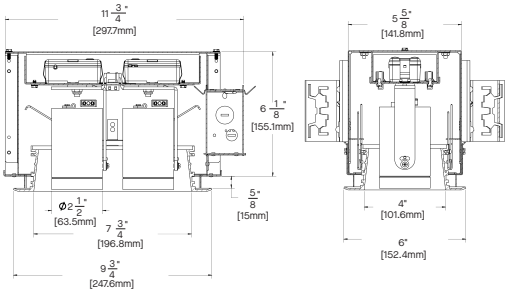
SIDE VIEW WITH PULL DOWN



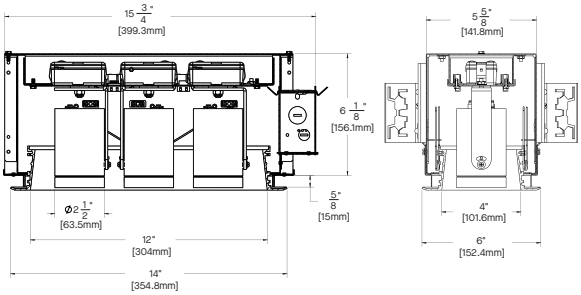
RC44RT2PC (1 MODULE)



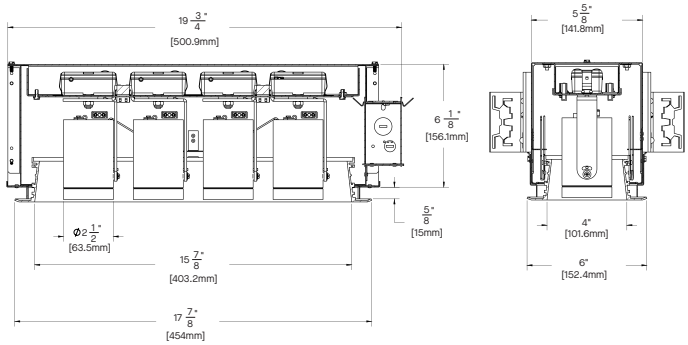
RC48RT2PC (2 MODULE)



RC412RT2PC (3 MODULE)



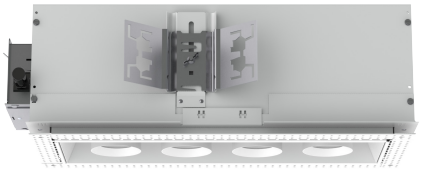
RC416RT2PC (4 MODULE)



4" MODULAR ACCENT LIGHT

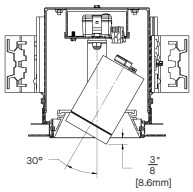
FIXTURE DIMENSIONS

RC4_ NF2PC - REGRESSED RAZOR EDGE FLANGELESS

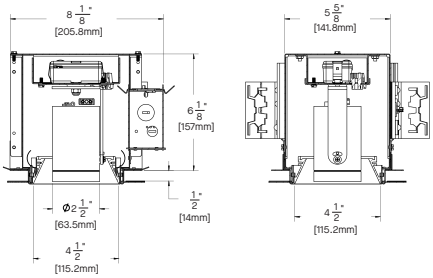


CUTOUT
5.2 × 5.2
5.2 × 8.8
5.2 × 12.8
5.2 × 16.8

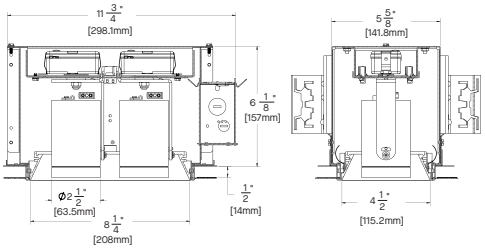
SIDE VIEW WITH PULL DOWN



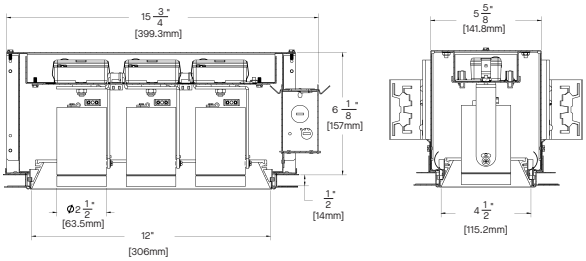
RC44NF2PC (1 MODULE)



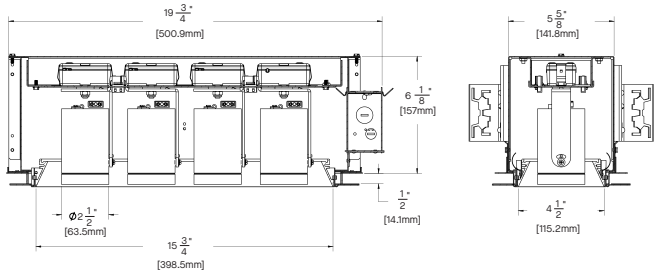
RC48NF2PC (2 MODULE)



RC412NF2PC (3 MODULE)



RC416NF2PC (4 MODULE)



4" MODULAR ACCENT LIGHT

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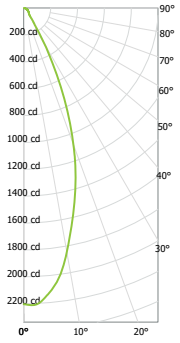
Photometric data shown represents a single module. For multi-module fixtures, use one IES file per module to ensure accurate lighting calculations.

RC44xx-xx2PC 20L 35K MD xx xx NL

CANDLEPOWER CURVE
TEST SP-01056



INTENSITY
CANDELA
0° AZIMUTH

0°	
0°	2205
5°	2132
15°	1465
25°	665
35°	119
45°	54
55°	41
90°	2

ZONAL LUMENS

0° - 10°	193	18%
0° - 20°	591	55%
0° - 30°	882	82%
0° - 40°	966	90%
0° - 60°	1031	96%
0° - 80°	1063	99%
0° - 90°	1066	99%
Total	1078	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge
6.5 '	52 fc	4.7 '	22 fc
7.5 '	39 fc	5.4 '	16 fc
8.5 '	31 fc	6.1 '	13 fc
10.0 '	22 fc	7.2 '	9 fc
12.0 '	15 fc	8.6 '	6 fc
14.0 '	11 fc	10.0 '	5 fc
16.0 '	9 fc	11.5 '	4 fc
20.0 '	6 fc	14.3 '	2 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
HORIZONTAL FOOTCANDLES AND WATTS/SQ FT

Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
14'	4'	54	0.70	52	0.76
18'	6'	28	0.37	27	0.40
22'	8'	13	0.17	11	0.16
Delivered Illuminance Rating: (DIR)		77 FC per W/Sq. Ft.		69 FC per W/Sq. Ft.	

1' Suspension Length to luminous aperture
Square rooms used for multiple units:
RCR 3: Length & Width = Ceiling Ht. - 3.5' x 3.33
RCR 5: Length & Width = Ceiling Ht. - 3.5' x 2.00
+ Average Initial Footcandles at 2.5' Above Floor

Delivered Lumens: 1078
Luminaire Watts: 13.4
LER: 80.45

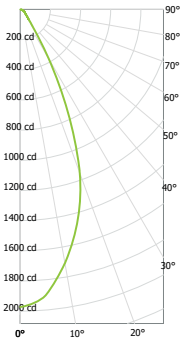
CP at 0° (Nadir): 2205
CRI: 80

Beam Angle: 39°
Spacing Ratio: 0.63

Lumen Multiplier: 10L x 0.51
CCT Multiplier: 27K x 0.96, 30K x 0.98, 40K x 1.03

RC44xx-xx2PC 20L 35K WD xx xx NL

CANDLEPOWER CURVE
TEST SP-01057



INTENSITY
CANDELA
0° AZIMUTH

0°	
0°	1972
5°	1905
15°	1462
25°	743
35°	160
45°	61
55°	37
90°	2

ZONAL LUMENS

0° - 10°	176	15%
0° - 20°	577	51%
0° - 30°	907	80%
0° - 40°	1021	90%
0° - 60°	1091	96%
0° - 80°	1121	99%
0° - 90°	1124	99%
Total	1137	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge
6.5 '	47 fc	5.3 '	19 fc
7.5 '	35 fc	6.1 '	14 fc
8.5 '	27 fc	6.9 '	11 fc
10.0 '	20 fc	8.1 '	8 fc
12.0 '	14 fc	9.7 '	5 fc
14.0 '	10 fc	11.3 '	4 fc
16.0 '	8 fc	12.9 '	3 fc
20.0 '	5 fc	16.2 '	2 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
HORIZONTAL FOOTCANDLES AND WATTS/SQ FT

Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
10'	4'	57	0.72	51	0.71
14'	6'	32	0.39	20	0.27
18'	8'	17	0.21	10	0.14
Delivered Illuminance Rating: (DIR)		80 FC per W/Sq. Ft.		72 FC per W/Sq. Ft.	

1' Suspension Length to luminous aperture
Square rooms used for multiple units:
RCR 3: Length & Width = Ceiling Ht. - 3.5' x 3.33
RCR 5: Length & Width = Ceiling Ht. - 3.5' x 2.00
+ Average Initial Footcandles at 2.5' Above Floor

Delivered Lumens: 1137
Luminaire Watts: 13.4
LER: 84.85

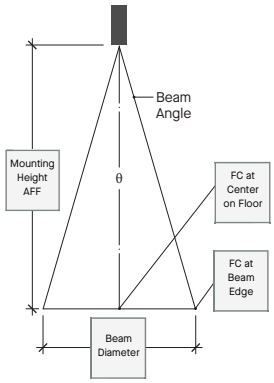
CP at 0° (Nadir): 1972
CRI: 80

Beam Angle: 44°
Spacing Ratio: 0.71

Lumen Multiplier: 10L x 0.51
CCT Multiplier: 27K x 0.96, 30K x 0.98, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT



Cone of Light of a single, symmetrical beam luminaire. Direct initial illumination (FC) and Beam Angle diameter directly beneath fixture; shown at different distances from aperture to horizontal plane. Calculated using Inverse Square Law.

$FC_H = CP \times (\cos \theta) \div D^2$

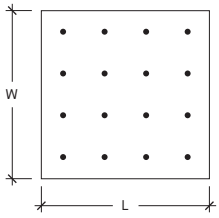
Beam Diam. = ½ Beam Angle (Tan) x 2D

- CP — Candela at 0° (Nadir)
- Cos θ — Cosine of θ Angle
- D — Distance (Mounting Height AFF)
- FC_H — Footcandles, Horizontal
- Beam Angle — Cone of light to 50% max. CP
- Beam Diam. — Pattern of light at Beam Angle

MULTIPLE UNITS

Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 2' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.

Delivered Illuminance Rating (DIR®):
System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.



- To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio):
  FC = Chart Spacing^2 ÷ Different Spacing^2 x Chart FC
- To estimate Sq. Ft. per fixture for a specific target FC:
  Sq. Ft. / Fixture = Chart FC x Chart Spacing^2 ÷ Target FC
- To estimate Fixture Quantity in a room:
  Fixture Qty. = Sq. Ft. of Rm. ÷ Sq. Ft. per fixture
- To estimate Watts/Sq. Ft.:
  W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.