



PROJECT: _____
QUANTITY: _____ TYPE: _____

12"x 12" MODULAR ACCENT LIGHT

FLUSH FLAT FLANGE

LED SERIES / MULTI-MODULE / 4 × 5000 / 4" DIAMETER MODULES

RC1212FT4PC - FLUSH FLAT FLANGE / NON-IC RATED

APPLICATION

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

FEATURES

Flush Flat Flanged for all ceiling types. Fixture modules rotate 359°, lock and tilt 30° with 1" pull-down for optimal 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.

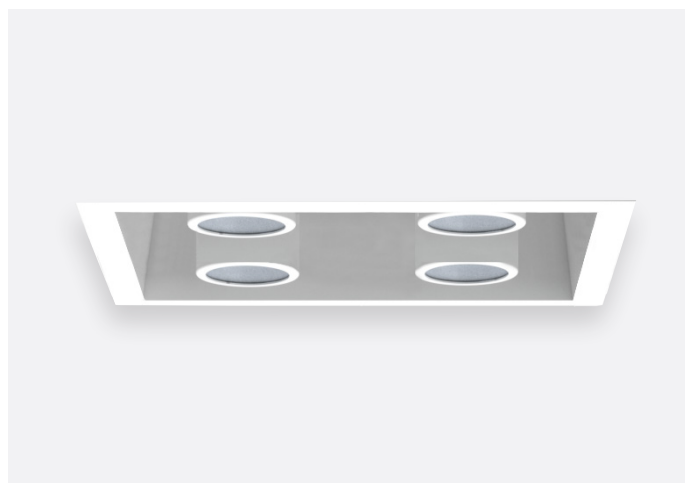
CONSTRUCTION

Housing constructed of #20 ga. Galvanized steel and powder-coated to resist corrosion.

Trim fabrication 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	TRIM	FINISHES	BAR HANGERS
RC1212FT4PC 4 Modules	10L 700 Lm	80 CRI	ND 16°	D1 1% 0-10V, 120V	LENS	MWI Matte White Interior	FT01212 12" x 12"	MWMF Matte White MBMF Matte Black PTMF Platinum Silver BZMF Bronze CC Custom Color	BH27 27" Flat Bar CB24 24" C-Channel CB48 48" C-Channel
	20L 1400 Lm	27K 2700K	MD 26°	D2 1% 0-10V, 277V	NL No Lens	MBI Matte Black Interior			
	30L 2000 Lm	30K 3000K	WD 36°		S035 Solite Diffusion	PTI Platinum Silver Interior			
	40L 2750 Lm	35K 3500K	XW 56°		GL35 Clear	BZI Bronze Interior			
	50L 3500 Lm	40K 4000K			FG35 Frosted	CCI Custom Color Interior			
					SK35 Linear				
					HL35 Hex Louver				
					SN35 ⁵ Snoot				
		90 CRI				Reference Color Sheet Located on Product Webpage For Full List of Available Colors.			
		27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K			OPTIONS				
			2. Beam angles represent one module		EMRM Emergency Battery				
	1. Nominal Delivered Lumens at Any CCT - Per Module			3. Contact Factory for Additional Options	4. See Product Page for Details - Up to 2 options may be combined 5. Snoot Always Flat Black			Reference Color Sheet Located on Product Webpage For Full List of Available Colors.	

EXAMPLE: RC1212FT4PC10L27KNDD1FG35MWIFT01212MWMFBH27

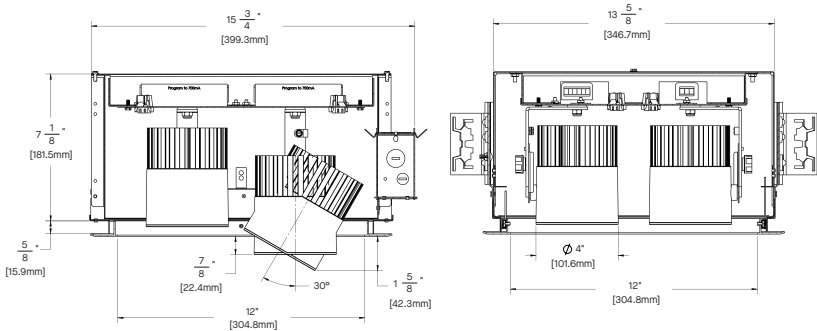
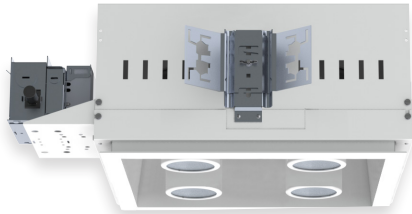


Spectrum Lighting

12"x 12" MODULAR ACCENT LIGHT



FIXTURE DIMENSIONS



LUMENS / WATTAGE DATA				
PART NUMBER	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS	LPW
RC1212FT4PC10L	1000	686	7.4	93
RC1212FT4PC20L	2000	1372	13.2	104
RC1212FT4PC30L	3000	2059	20.4	101
RC1212FT4PC40L	4000	2745	28.1	98
RC1212FT4PC50L	5000	3431	35	98

¹ Nominal Source Lumens at 35K ² Nominal Delivered Lumens at 82 CRI with PC50L 35K WD xxxx LN4AGL

12"x 12" MODULAR ACCENT LIGHT



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

RC1212FT4PC 50L 35K ND xx xx NL

CANDLEPOWER CURVE TEST SP-01364	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT								
	0°		0° - 10°	1260	35%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 4		RCR 6	
	0° 18567	0° - 20°	2487	69%	6.5 ' 439 fc					2.2 ' 210 fc	18' 4'	210 2.16	196 2.17		
	5° 15216	0° - 30°	3208	90%	7.5 ' 330 fc					2.6 ' 158 fc	22' 5'	129 1.33	120 1.34		
	15° 4302	0° - 40°	3408	95%	8.5 ' 257 fc					2.9 ' 123 fc	26' 6'	87 0.90	81 0.90		
	25° 1677	0° - 60°	3478	97%	10.0 ' 186 fc					3.4 ' 89 fc	Delivered Illuminance Rating: (DIR)	97 FC per W/Sq. Ft.	90 FC per W/Sq. Ft.		
	35° 269	0° - 80°	3559	99%	12.0 ' 129 fc					4.1 ' 62 fc					
	45° 41	0° - 90°	3571	100%	14.0 ' 95 fc					4.8 ' 45 fc					
	55° 41	Total	3580	100%	16.0 ' 73 fc					5.5 ' 35 fc	1' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 4: Length & Width = Ceiling Ht. - 3.5' x 2.50 RCR 6: Length & Width = Ceiling Ht. - 3.5' x 1.66 * Average Initial Footcandles at 2.5' Above Floor				
	90° 2				20.0 ' 46 fc					6.9 ' 22 fc					

Delivered Lumens: 3580
Luminaire Watts: 35
LER: 102.29

CP at 0° (Nadir): 18567
CRI: 80

Beam Angle: 20°
Spacing Ratio: 0.33

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

RC1212FT4PC 50L 35K MD xx xx NL

CANDLEPOWER CURVE
TEST SP-01362

INTENSITY CANDELA 0° AZIMUTH		ZONAL LUMENS		SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT													
	0°		0° - 10°	992	29%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5							
			0° - 20°	2321	67%							FC +	W/Sq. Ft.	FC +	W/Sq. Ft.						
0°	13276		0° - 30°	3104	89%							6.5'	314 fc	2.8'	147 fc	18'	6"	94	0.96	93	1.04
5°	11541		0° - 40°	3306	95%							7.5'	236 fc	3.2'	110 fc	22'	7"	73	0.75	57	0.64
15°	4714		0° - 60°	3382	97%							8.5'	184 fc	3.6'	86 fc	26'	8"	49	0.51	56	0.62
25°	1782		0° - 80°	3459	99%					10.0'	133 fc	4.3'	62 fc	Delivered Illuminance Rating: (DIR)		98 FC per W/Sq. Ft.		89 FC per W/Sq. Ft.			
35°	205		0° - 90°	3473	100%					12.0'	92 fc	5.1'	43 fc	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 * Exceeds Spacing Ratio by 3%							
45°	46		Total	3481	100%					14.0'	68 fc	6.0'	32 fc								
55°	45									16.0'	52 fc	6.8'	24 fc								
90°	1									20.0'	33 fc	8.5'	16 fc								

Delivered Lumens: 3481
Luminaire Watts: 35
LER: 99.46

CP at 0° (Nadir): 13276
CRI: 80

Beam Angle: 24°
Spacing Ratio: 0.40

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT		MULTIPLE UNITS	
	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.	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.	
	$FC_H = CP \times (\cos \theta) \div D^2$ Beam Diam. = $\frac{1}{2}$ Beam Angle (Tan) x 2D	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.	
• CP	Candela at 0° (Nadir)	• To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): $FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}$	• To estimate Fixture Quantity in a room: $\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}$
• Cos θ	Cosine of θ Angle	• To estimate Sq. Ft. per fixture for a specific target FC: $\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$	• To estimate Watts/Sq. Ft.: $\text{W/Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$
• 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		

12"x 12" MODULAR ACCENT LIGHT



RC1212FT4PC 50L 35K WD xx xx NL

CANDLEPOWER CURVE TEST SP-01366	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																																						
	0°	0° - 10°	557	15%	<table><tr><th>Mounting Distance</th><th>FC at Beam Center</th><th>Diameter at Beam Angle</th><th>FC at Beam Edge</th></tr><tr><td>6.5 ' </td><td>140 fc</td><td>5.9 ' </td><td>53 fc</td></tr><tr><td>7.5 ' </td><td>105 fc</td><td>6.9 ' </td><td>39 fc</td></tr><tr><td>8.5 ' </td><td>82 fc</td><td>7.8 ' </td><td>31 fc</td></tr><tr><td>10.0 ' </td><td>59 fc</td><td>9.2 ' </td><td>22 fc</td></tr><tr><td>12.0 ' </td><td>41 fc</td><td>11.0 ' </td><td>15 fc</td></tr><tr><td>14.0 ' </td><td>30 fc</td><td>12.8 ' </td><td>11 fc</td></tr><tr><td>16.0 ' </td><td>23 fc</td><td>14.6 ' </td><td>9 fc</td></tr><tr><td>20.0 ' </td><td>15 fc</td><td>18.3 ' </td><td>6 fc</td></tr></table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	6.5 '	140 fc	5.9 '	53 fc	7.5 '	105 fc	6.9 '	39 fc	8.5 '	82 fc	7.8 '	31 fc	10.0 '	59 fc	9.2 '	22 fc	12.0 '	41 fc	11.0 '	15 fc	14.0 '	30 fc	12.8 '	11 fc	16.0 '	23 fc	14.6 '	9 fc	20.0 '	15 fc	18.3 '	6 fc	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT			
	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge																																									
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	12.0 '	41 fc	11.0 '	15 fc																																									
	14.0 '	30 fc	12.8 '	11 fc																																									
	16.0 '	23 fc	14.6 '	9 fc																																									
	20.0 '	15 fc	18.3 '	6 fc																																									
	0°	0° - 20°	1892	52%		<table><tr><th>Ceiling Height</th><th>Fixture Spacing</th><th colspan="2">RCR 2</th><th colspan="2">RCR 4</th></tr><tr><td></td><td></td><th>FC +</th><th>W/Sq. Ft.</th><th>FC +</th><th>W/Sq. Ft.</th></tr><tr><td>14' </td><td>6' </td><td>108</td><td>1.03</td><td>76</td><td>0.81</td></tr><tr><td>18' </td><td>8' </td><td>57</td><td>0.54</td><td>40</td><td>0.43</td></tr><tr><td>22' </td><td>10' </td><td>35</td><td>0.33</td><td>25</td><td>0.26</td></tr></table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4				FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	14'	6'	108	1.03	76	0.81	18'	8'	57	0.54	40	0.43	22'	10'	35	0.33	25	0.26	<table><tr><td>Delivered Illuminance Rating: (DIR)</td><td>105 FC per W/Sq. Ft.</td><td>94 FC per W/Sq. Ft.</td></tr></table>	Delivered Illuminance Rating: (DIR)	105 FC per W/Sq. Ft.	94 FC per W/Sq. Ft.					
	Ceiling Height	Fixture Spacing	RCR 2				RCR 4																																						
			FC +	W/Sq. Ft.			FC +	W/Sq. Ft.																																					
14'	6'	108	1.03	76	0.81																																								
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5°	0° - 30°	3128	86%																																										
15°	0° - 40°	3445	95%																																										
25°	0° - 60°	3526	97%																																										
35°	0° - 80°	3597	99%																																										
45°	0° - 90°	3610	100%																																										
55°	Total	3620	100%																																										
90°																																													

Delivered Lumens: 3620
Luminaire Watts: 35
LER: 103.43

CP at 0° (Nadir): 5899
CRI: 80

Beam Angle: 49°
Spacing Ratio: 0.78

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

RC1212FT4PC 50L 35K XW xx xx NL

CANDLEPOWER CURVE TEST SP-01368	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT												
	0°	0° - 10°	410	11%		Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4					
	0°	0° - 20°	1559	43%		6.5 '	103 fc	7.2 '	34 fc	14'	8'	48	0.46	42	0.46				
	5°	0° - 30°	2964	82%		7.5 '	77 fc	8.3 '	26 fc	18'	10'	34	0.33	22	0.24				
	15°	0° - 40°	3444	95%		8.5 '	60 fc	9.4 '	20 fc	22'	12'	21	0.20	24	0.26				
	25°	0° - 60°	3541	98%		10.0 '	43 fc	11.1 '	15 fc	Delivered Illuminance Rating: (DIR)		105 FC per W/Sq. Ft.		93 FC per W/Sq. Ft.					
	35°	0° - 80°	3608	99%		12.0 '	30 fc	13.3 '	10 fc										
	45°	0° - 90°	3621	100%		14.0 '	22 fc	15.5 '	7 fc	1' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 3.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 3.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor									
	55°	Total	3630	100%		16.0 '	17 fc	17.7 '	6 fc										
	90°																		

Delivered Lumens: 3630
Luminaire Watts: 35
LER: 103.71

CP at 0° (Nadir): 4345
CRI: 80

Beam Angle: 58°
Spacing Ratio: 0.96

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT		MULTIPLE UNITS	
	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.		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.
	$FC_H = CP \times (\cos \theta) \div D^2$ Beam Diam. = $\frac{1}{2}$ Beam Angle (Tan) x 2D		
• CP	Candela at 0° (Nadir)	• To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): $FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}$	• To estimate Fixture Quantity in a room: Fixture Qty. = Sq. Ft. of Rm. $\div$ Sq. Ft. per fixture
• Cos θ	Cosine of θ Angle	• To estimate Sq. Ft. per fixture for a specific target FC: Sq. Ft. / Fixture = Chart FC x Chart Spacing ² $\div$ Target FC	• To estimate Watts/Sq. Ft.: W/ Sq. Ft. = Luminaire Watts x Qty. $\div$ Sq. Ft. of Rm.
• 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		