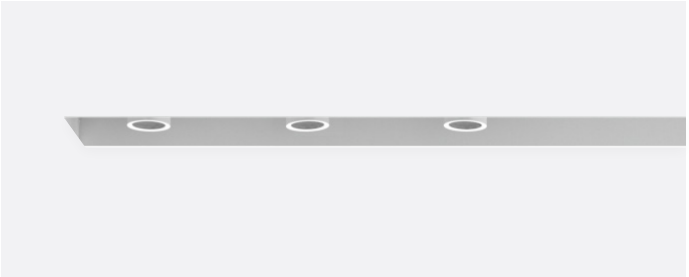
modül
multiple module series

PROJECT:

QUANTITY: TYPE:

8" MODULAR CONTINUOUS SLOT ACCENT LIGHT



GRID CEILING / TRIMLESS

LED SERIES / MULTI-MODULE / 9 × 5000 LUMENS / 4" DIAMETER MODULES

RC8-PC

APPLICATION

RC 8" series continuous slot fixture for runs up to 16'. Designed for automotive and retail applications where crisp focused light and a finished ceiling design is desired.

FEATURES

Fixture available in five lengths with up to 9 moules and choice of 4 beam distributions. Fixture modules rotate 359°, lock and tilt to 20° with 1" pull-down for optimal aiming. Front loading lamp bezel accepts up to two lens/louver options. Designed to fit into Grid Ceiling.

FINISH

A variety of architectural powder-coat finishes for interior of fixture 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 #.046 ga. Galvanized steel and powder-coated to resist corrosion.

CODE COMPLIANCE

BAA Compliant. Non-IC rated. Suitable for dry or damp locations. Manufactured to UL standards No. 1598.

SERIES	LUMENS[1]	CCT	BEAM[2]	DRIVER / VOLTAGE[3]	OPTIONS[4]	INTERIOR
RC896PC 6 Modules	**10L** 700 Lm	80 CRI	**ND** 16°	**D1** 1% 0-10V, 120V	LENS	**MWI** Matte White Interior
	20L 1350 Lm	**27K** 2700K	**MD** 26°	**D2** 1% 0-10V, 277V	**SO34** Solite Diffusion	**MBI** Matte Black Interior
	30L 2050 Lm	**30K** 3000K	**WD** 36°		**GL34** Clear	**PTI** Platinum Silver Interior
RC8120PC 6 Modules	**40L** 2750 Lm	**35K** 3500K	**XW** 56°		**FG34** Frosted	**BZI** Bronze Interior
	50L 3500 Lm	**40K** 4000K			**SK34** Linear	**CCI** Custom Color Interior
RC8144PC 9 Modules					**HL35** Hex Louver	
		90 CRI			**NL** No Lens	
RC8168PC 9 Modules		**27HK** 2700K			**SN34**[5] Snoot	Reference Color Sheet Located on Product Webpage For Full List of Available Colors.
		30HK 3000K			OPTIONS	
RC8192PC 9 Modules		**35HK** 3500K			**EMRM** Emergency Battery	
		40HK 4000K				
	1. Nominal Source Lumens at Any CCT - Per Module		**2.** Beam angles represent one module	**3.** Contact Factory for Additional Options	**4.** See Product Page for Details - Front Loading Lamp Bezel Accepts Up to 2 Lens/ Louver Options **5.** Snoot Always Flat Black	

EXAMPLE: RC896PC10L30KMDD1SO34MWI

5 YEAR WARRANTY · BABA COMPLIANT · MADE IN THE USA

Spectrum Lighting

8" MODULAR CONTINUOUS SLOT ACCENT LIGHT

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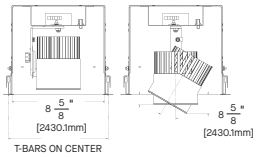
FIXTURE DIMENSIONS

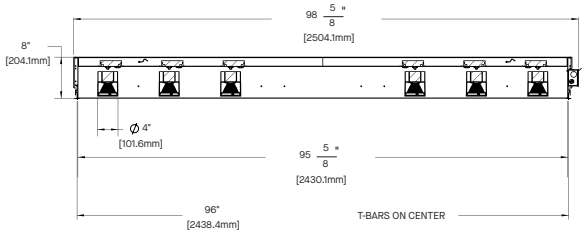
SIDE VIEW WITH PULL DOWN



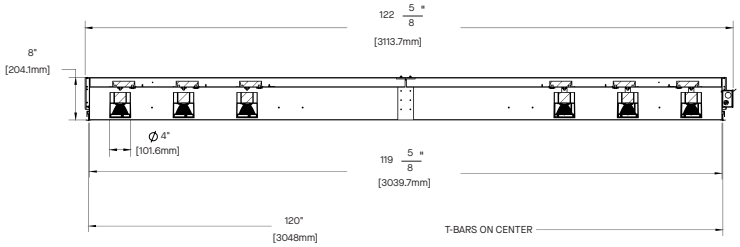
LUMENS / WATTAGE DATA				
PART NUMBER	SOURCE LUMENS[1]	DELIVERED LUMENS[2]	SYSTEM WATTS	LPW
RC8_PC10L	1000	686	7.4	93
RC8_PC20L	2000	1372	13.2	104
RC8_PC30L	3000	2059	20.4	101
RC8_PC40L	4000	2745	28.1	98
RC8_PC50L	5000	3431	35	98

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

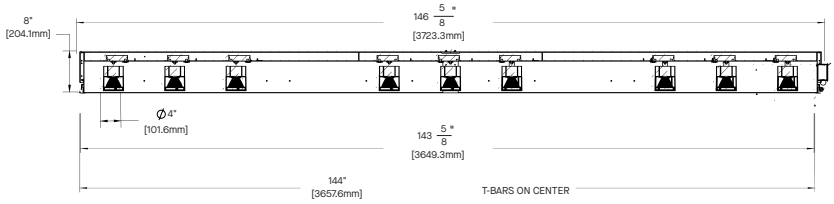
RC896 - 6 LED MODULES



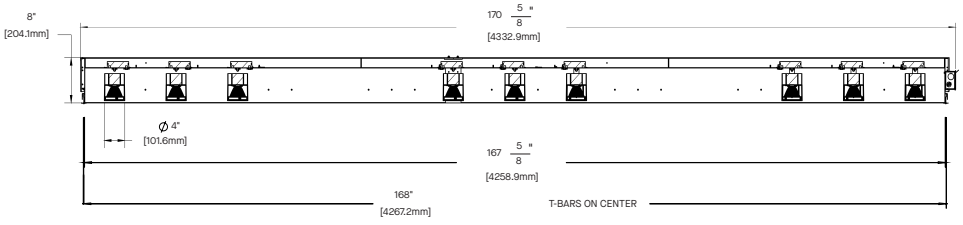
RC8120 - 6 LED MODULES



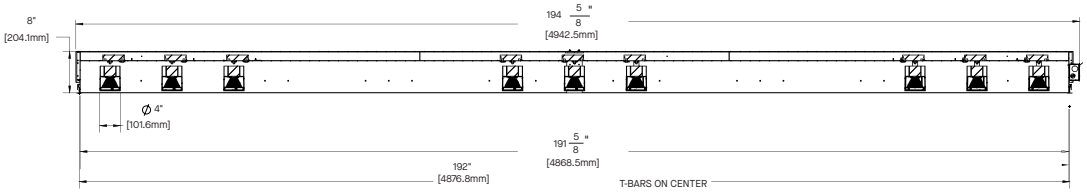
RC8144 - 9 LED MODULES



RC8168 - 9 LED MODULES



RC8192 - 9 LED MODULES



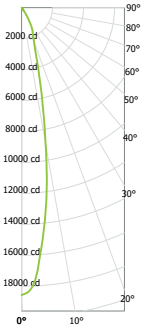
8" MODULAR CONTINUOUS SLOT ACCENT LIGHT

modül multiple module series | Spectrum Lighting

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

RC8-PC 50L 35K ND xx xx NL

CANDLEPOWER CURVE
TEST SP-01364



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	18567
5°	15216
15°	4302
25°	1677
35°	269
45°	41
55°	41
90°	2

ZONAL LUMENS

0° - 10°	1260	35%
0° - 20°	2487	69%
0° - 30°	3208	90%
0° - 40°	3408	95%
0° - 60°	3478	97%
0° - 80°	3559	99%
0° - 90°	3571	100%
Total	3580	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 '	439 fc	2.2 '	210 fc
7.5 '	330 fc	2.6 '	158 fc
8.5 '	257 fc	2.9 '	123 fc
10.0 '	186 fc	3.4 '	89 fc
12.0 '	129 fc	4.1 '	62 fc
14.0 '	95 fc	4.8 '	45 fc
16.0 '	73 fc	5.5 '	35 fc
20.0 '	46 fc	6.9 '	22 fc

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

Ceiling Height	Fixture Spacing	RCR 4		RCR 6	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
18'	4'	210	2.16	196	2.17
22'	5'	129	1.33	120	1.34
26'	6'	87	0.90	81	0.90
Delivered Illuminance Rating: (DIR)		97 FC per W/Sq. Ft.		90 FC per W/Sq. Ft.	

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

Delivered Lumens: 3580
Luminaire Watts: 35
LER: 102.29

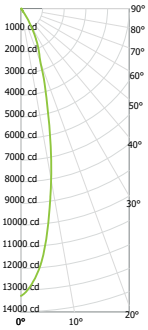
CP at 0° (Nadir): 18567
CRI: 80

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

RC8-PC 50L 35K MD xx xx NL

CANDLEPOWER CURVE
TEST SP-01362



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	13276
5°	11541
15°	4714
25°	1782
35°	205
45°	46
55°	45
90°	1

ZONAL LUMENS

0° - 10°	992	29%
0° - 20°	2321	67%
0° - 30°	3104	89%
0° - 40°	3306	95%
0° - 60°	3382	97%
0° - 80°	3459	99%
0° - 90°	3473	100%
Total	3481	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 '	314 fc	2.8 '	147 fc
7.5 '	236 fc	3.2 '	110 fc
8.5 '	184 fc	3.6 '	86 fc
10.0 '	133 fc	4.3 '	62 fc
12.0 '	92 fc	5.1 '	43 fc
14.0 '	68 fc	6.0 '	32 fc
16.0 '	52 fc	6.8 '	24 fc
20.0 '	33 fc	8.5 '	16 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.
18'	6'*	94	0.96	93	1.04
22'	7'	73	0.75	57	0.64
26'	8'	49	0.51	56	0.62
Delivered Illuminance Rating: (DIR)		98 FC per W/Sq. Ft.		89 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
[*] Exceeds Spacing Ratio by 3%

Delivered Lumens: 3481
Luminaire Watts: 35
LER: 99.46

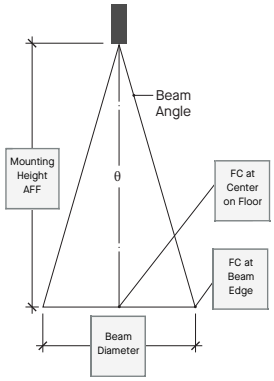
CP at 0° (Nadir): 13276
CRI: 80

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



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

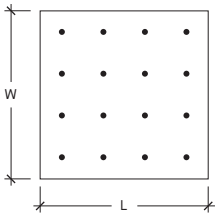
- CP — Candela at 0° (Nadir)
- Cos θ — Cosine of θ Angle
- D — Distance (Mounting Height AFF)
- FC_H — Footcandles, Horizontal
- Beam Angle — Cone of light to 50% max. CP
- Beam Diam. — Pattern of light at Beam Angle

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[e]):
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.

8" MODULAR CONTINUOUS SLOT ACCENT LIGHT

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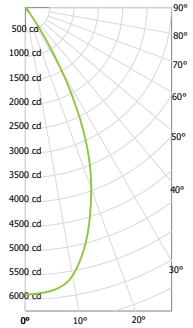
RC8-PC 50L 35K WD xx xx NL

CANDLEPOWER CURVE
TEST SP-01366



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	5899
5°	5851
15°	4892
25°	2855
35°	445
45°	49
55°	42
90°	2

ZONAL LUMENS

0° - 10°	557	15%
0° - 20°	1892	52%
0° - 30°	3128	86%
0° - 40°	3445	95%
0° - 60°	3526	97%
0° - 80°	3597	99%
0° - 90°	3610	100%
Total	3620	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 '	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

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
Delivered Illuminance Rating: (DIR)		105 FC per W/Sq. Ft.		94 FC per W/Sq. Ft.	

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

Delivered Lumens: 3620
Luminaire Watts: 35
LER: 103.43

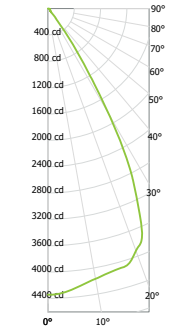
CP at 0° (Nadir): 5899
CRI: 80

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

RC8-PC 50L 35K XW xx xx NL

CANDLEPOWER CURVE
TEST SP-01368



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	4345
5°	4281
15°	4096
25°	3203
35°	661
45°	59
55°	40
90°	2

ZONAL LUMENS

0° - 10°	410	11%
0° - 20°	1559	43%
0° - 30°	2964	82%
0° - 40°	3444	95%
0° - 60°	3541	98%
0° - 80°	3608	99%
0° - 90°	3621	100%
Total	3630	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 '	103 fc	7.2 '	34 fc
7.5 '	77 fc	8.3 '	26 fc
8.5 '	60 fc	9.4 '	20 fc
10.0 '	43 fc	11.1 '	15 fc
12.0 '	30 fc	13.3 '	10 fc
14.0 '	22 fc	15.5 '	7 fc
16.0 '	17 fc	17.7 '	6 fc
20.0 '	11 fc	22.1 '	4 fc

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

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
14'	8'	48	0.46	42	0.46
18'	10'	34	0.33	22	0.24
22'	12'	21	0.20	24	0.26
Delivered Illuminance Rating: (DIR)		105 FC per W/Sq. Ft.		93 FC per W/Sq. Ft.	

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

Delivered Lumens: 3630
Luminaire Watts: 35
LER: 103.71

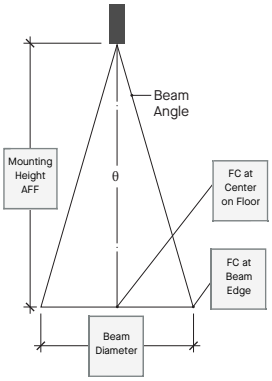
CP at 0° (Nadir): 4345
CRI: 80

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



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Beam Diam. = ½ Beam Angle (Tan) x 2D

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- Beam Angle — Cone of light to 50% max. CP
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- 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
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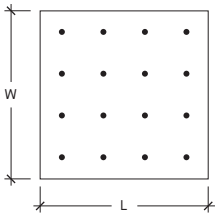

- To estimate Fixture Quantity in a room:
  Fixture Qty. = Sq. Ft. of Rm. ÷ Sq. Ft. per fixture
- To estimate Watts/Sq. Ft.:
  W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.