

## DESCRIPTION

The RCG Series is a fully assembled, one-piece recessed lighting system that provides an unobstructed, visually comfortable, ceiling plane with reduced high angle ceiling glare of over 50%. The series produces excellent, uniform, linear illumination. The RCG can be utilized with new generation, high color rendition lamp sources, along with high performance ballasts for system efficiency and performance.

The RCG Recessed Lighting System complements general task and retail merchandising areas. The RCG is ideal for mass merchandising areas where the focus is on a product with visual appeal.

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

## SPECIFICATION FEATURES

### Construction

Channel, Reflector, socket tracks and end plates die formed code gauge prime cold rolled steel. Die formed end plate assures straight rows and channel continuity. Lampholder mounting brackets easily installed with snap-in action. Reflector embossed for rigidity and is attached by quarter-turn fasteners for ease of installation and wireway access. Reflector is ballast access panel for easy ballast replacement.

### Electrical\*

Ballasts are CBM/ETL Class "P" and are positively secured by mounting bolts. Pressure lock lampholders. UL/CUL listed. Suitable for damp locations.

### Finish

Painted after fabrication. Electrostatically applied baked white polyester powder enamel finish. Multistage cleaning cycle, iron phosphate coating with rust inhibitor. Conveyorized application and baking timing accurately controlled at an elevated temperature.

### Application

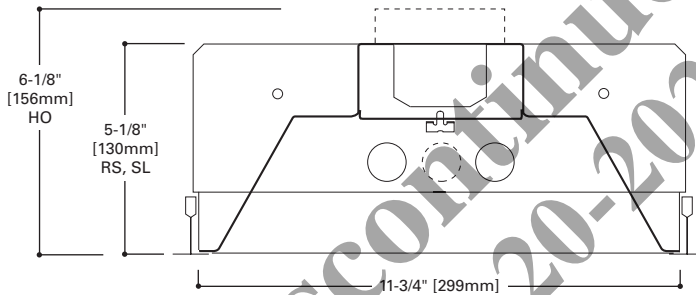
When using RCC/RCE continuous row option, no Cross Tees are required between fixture. The spacing of rows is to be as specified for design illumination levels. Consult applications engineering for layout assistance, if required. The installation utilizes standards readily available for ceiling grid members.



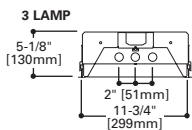
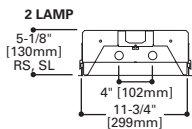
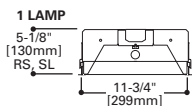
**RCG**  
32, 40,  
48, 48HO,  
48T8HO, 72,  
72HO, 72t8HO,  
96, 96T8,  
96HO, 96T8HO

**4' AND 8' RECESSED  
1 OR 2 LAMP, 3 LAMP T8  
ONLY**

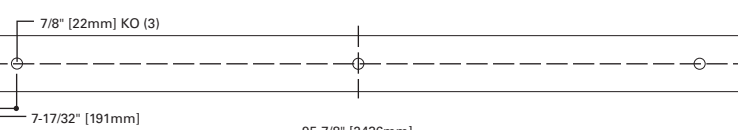
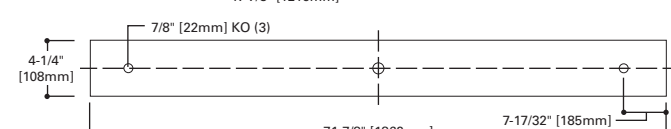
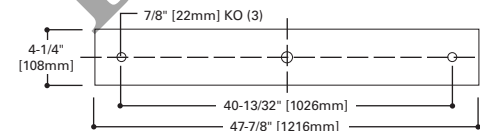
Recessed Industrial



## LAMP CONFIGURATIONS



## MOUNTING DATA

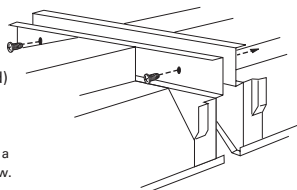


## INSTALLATION DATA

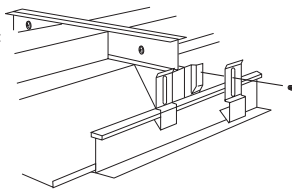
### RCC & RCE

Continuous Row Mounting (No Cross Tees Required)

Fixture end support brackets positively secured together by screws, forming a continuous uninterrupted row.



### T3A End EQ Bracket



## ENERGY DATA

Input Watts:

### EB Ballast & STD Lamps

140 (38), 132 (30), 240 (72), 232 (61)  
148 (46), 172 (67), 196 (85), 196T8 (70)  
248 (74), 172T8HO (80), 248T8HO (99)  
272T8HO (147), 272HO (165),  
148T8HO (57)

296 (136), 296T8 (110), 296HO (208)  
296T8HO (160), 332 (91), 396T8 (180)

### ES Ballast & STD Lamps

140 (38), 132 (30), 232 (71), 296 (158)  
296HO (237), 332 (108)

### STD Ballast & STD Lamps

148 (60), 172 (72), 196 (90), 248 (102)  
148HO (82), 196HO (145), 248HO (145)  
172HO (118)

Luminaire Efficacy Rating

LER = FS-80

Catalog Number: RCG-232

Yearly Cost of 1000 lumens,

3000 hrs at .08 KWH = \$3.00

\*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

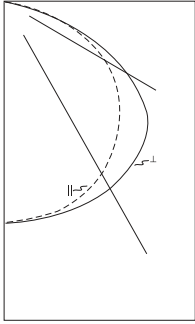
LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

**LINEAR DISCONNECT**

Safe and convenient means of disconnecting power.



PHOTOMETRICS



**RCG-232**  
 Electronic Ballast  
 F32T8/35K Lamps  
 2850 Lumens  
 Spacing criterion:  
 (H) 1.3 x mounting  
 height, (L) 1.4 x  
 mounting height  
 Efficiency 90.0%  
 Test Report:  
 RCG232.IES  
 LER = FS-80  
 Yearly Cost of 1000  
 lumens, 3000 hrs at  
 .08 KWH = \$3.00

**Coefficients of Utilization**

rc	Effective floor cavity reflectance																						
	80%				70%				50%				30%				10%				0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
<b>RCR</b>																							
0	107	107	107	107	105	105	105	105	100	100	100	96	96	96	92	92	92	90	90	90	90		
1	99	95	91	88	96	93	90	87	89	86	84	86	83	81	82	81	79	77	77	77	77		
2	90	83	78	73	88	82	76	72	79	74	70	76	72	69	73	70	67	65	65	65	65		
3	83	74	67	61	81	72	66	61	70	64	60	67	63	59	65	61	58	56	56	56	56		
4	76	65	58	52	74	64	57	51	62	56	51	60	54	50	58	53	49	47	47	47	47		
5	69	57	49	43	67	56	49	43	54	48	43	53	47	42	51	46	42	40	40	40	40		
6	63	51	43	37	61	50	43	37	49	42	37	47	41	36	46	40	36	34	34	34	34		
7	58	46	38	32	56	45	37	32	44	37	32	42	36	31	41	35	31	29	29	29	29		
8	53	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25	25	25	25		
9	49	36	29	24	48	36	28	23	35	28	23	34	28	23	33	27	23	21	21	21	21		
10	45	33	26	21	44	32	25	21	32	25	21	31	25	20	30	24	20	19	19	19	19		

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixture
0-30	1301	22.8	25.4
0-40	2181	38.3	42.5
0-60	4088	71.7	79.7
0-90	5130	90.0	100.0
0-180	5130	90.0	100.0

**Typical VCP Percentages**

Room Size (Ft.)	Height Along		Height Across	
	8.5'	10.0'	8.5'	10.0'
20 x 20	41	47	45	47
30 x 30	39	39	47	46
30 x 60	37	36	49	48
60 x 30	46	46	51	49
60 x 60	44	41	52	50

**Candela**

Angle	Along H	45°	Across L
0	1629	1629	1629
5	1623	1621	1619
10	1605	1604	1608
15	1574	1582	1598
20	1531	1554	1577
25	1475	1514	1549
30	1407	1464	1520
35	1328	1402	1481
40	1238	1337	1444
45	1138	1265	1381
50	1027	1190	1284
55	907	1089	1121
60	777	951	896
65	637	762	655
70	488	525	399
75	332	304	135
80	180	88	76
85	57	37	33
90	0	0	0

**ORDERING INFORMATION**

SAMPLE NUMBER: RCG-A-232-120V-EB81-U

**Tandem**  
Blank=4' Length  
8T=8' Tandem

**Series**  
RC=Recessed  
Lighting System

**Row Configuration**  
G=Single Fixture<sup>(1)</sup>  
C=Continuous Row<sup>(2)</sup>  
(In Row)  
E=Continuous Row End<sup>(2)</sup>  
(End of Row)

**Rails**  
Blank=Open,  
No Lens/Rail  
A=Factory  
Installed Lens  
and Rail

**Number of Lamps<sup>(3)</sup>**  
1=1 Lamp (Not  
Included)  
2=2 Lamps (Not  
Included)  
3=3 Lamps (Not  
Included)

**Wattage**  
32=32W T8 (48")  
40=40W T12 (48")  
48=40W T12 SL (48")  
48HO=60W T12 HO (48")  
48T8HO=44W T8 HO (48")  
72=55W T12 SL (72")  
72HO=85W T12 HO (72")  
72T8HO=65W T8 HO (72")  
96=75W T12 SL (96")<sup>(4)</sup>  
96T8=59W T8 SL (96")  
96HO=110W T12 HO (96")  
96T8HO=86W T8 HO (96")

**Voltage<sup>(5)</sup>**  
120V=120 Volt  
277V=277 Volt  
347V=347 Volt  
UNV=Universal Voltage  
120-277<sup>(6)</sup>

**Options**  
GL=Single Element Fuse  
GM=Double Element Fuse  
EL=Emergency Installed

**Ballast Type<sup>(1)</sup>**  
Blank=Standard Magnetic Ballast  
EB8=T8 Electronic Instant Start.  
Total Harmonic Distortion < 10%  
No. of Ballast  
1, 2 or 3  
EB8 /PLUS=T8 Electronic Instant Start.  
High Ballast Factor >1.13.  
Total Harmonic Distortion < 20%  
No. of Ballast  
1, 2 or 3  
ER8=T8 Electronic Program Rapid Start.  
Total Harmonic Distortion < 10%  
No. of Ballast  
1, 2 or 3  
EB2=T12 Electronic Rapid Start.  
No. of Ballast  
1 or 2

**Options**  
FR=Fire Rated Label  
RLS=Rotor Lock Socket  
(T8 Lamp Only)  
(See options & accessories)

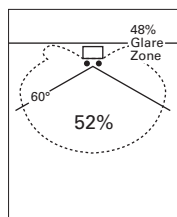
**Packaging**  
U=Unit Pack

**NOTES:** <sup>(1)</sup>RCG fixture requires cross tees. <sup>(2)</sup>RCC and RCE fixtures do not require cross tees. <sup>(3)</sup>3-lamp fixture available with T8 lamps only. <sup>(4)</sup>296 and 296HO with LE3 only available in 120V. <sup>(5)</sup>Products also available in non-US voltages and frequencies for international markets. <sup>(6)</sup>Not available when specifying emergencies, voltage must be specific. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Solutions Representative for availability and ordering information.

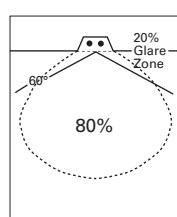
**SHIPPING DATA**

Catalog No.	Wt.
RCG-132	18 lbs.
RCG-232	18 lbs.
RCG-332	18 lbs.
8TRCG-132	36 lbs.
8TRCG-232	36 lbs.
8TRCG-332	36 lbs.
RCG-148	18 lbs.
RCG-172	24 lbs.
RCG-196	28 lbs.
RCG-248	18 lbs.
RCG-272	24 lbs.
RCG-296T8	28 lbs.
RCG-148HO	19 lbs.
RCG-172HO	30 lbs.
RCG-196T8HO	34 lbs.
RCG-248HO	19 lbs.
RCG-272HO	25 lbs.
RCG-296T8HO	30 lbs.

**STRIP SYSTEM**



**RCG SYSTEM**



**ACCESSORIES**

(Order Separately)

**T3 End EQ Bracket=Earthquake Bracket<sup>††</sup>**  
**RCG-A-4FT-LENS-B=4' Prismatic Acrylic Lens<sup>®</sup>**  
**RCG-A-4FT-FRM-U=4' Lens Rail Kit<sup>®</sup>**  
**RCG-A-6FT-LENS-B=6' Prismatic Acrylic Lens<sup>®</sup>**  
**RCG-A-6FT-FRM-U=6' Lens Rail Kit<sup>®</sup>**  
**RCG-A-8FT-LENS-B=8' Prismatic Acrylic Lens<sup>®</sup>**  
**RCG-A-8FT-FRM-U=8' Lens Rail Kit<sup>®</sup>**

(Additional Accessories Available. See Options and Accessories Section.)