

PROJECT NAME: _____
 NOTES: _____

CAT. #: _____
 FIXTURE SCHEDULE: _____

Commercial Downlights

Architectural RRC Series
Wattage and Color Selectable



Product Description:

With a two-piece design that is quick to install, the architectural RRC Commercial Downlights family is the easy way to upgrade incandescent, fluorescent and metal halide downlight fixtures to LED. The future proof modular system is available as CCT selectable, wattage selectable with adjustable beam angles therefore enabling one product to cover various lighting needs. Suitable for both retrofit and new construction installations, the low glare luminaires can be used to capture energy savings while also gaining the benefit of dimming.

Features:

- Available in 4" (exclude 30W), 6", 8", and 9.5"
- Low glare system with UGR <16
- Adjustable beam angles from 24° to 45°, with a 30° cut off for wattages up to 30W. 30/40/50W model only comes in 40° beam angle
- Simple twist-and-lock mechanism for a quick tool-free fitting of the luminaire unit
- New construction frames available
- Compatible with the CMax Network power pack
- Compatible with the Avi-On XPP Zone controller

Dimming:

- 120-277V option available with 0-10V dimming (1%)

Listings:

- ETL Listed for Damp locations, indoor
- ETL Classified for Damp locations, indoor
- IC Rated (up to 20W)
- Airtight Construction (up to 20W)
- Energy Star Certified

Controls Ready:

Luminaire Level Lighting Control (LLLC), individual addressability and/or grouping, ability to create scenes and high-Trim/ tuning sets is available and enabled on the product family with wireless Bluetooth technology via the field installable c-Max Network power pack and the optional occupancy PIR sensor.



Ordering Information

Step 1 - Select the light engine

FAMILY	SUB FAMILY	OUTPUT	CCT	DIMMING TYPE
RRC= Architectural Retrofit Commercial	X= Light Engine	10W= 10/15/20W Selectable 20W= 20/25/30W Selectable 30W³= 30/40/50W Selectable 15= 15W 25= 25W	CS= 27/30/35/40/50 CCT Selectable	D= 120-277V, 0-10V Dimming

Step 2 - Select the reflector¹

FAMILY	SIZE	SHAPE	REFLECTOR FINISH	FLANGE FINISH
RRC= Architectural Retrofit Commercial	4= 4" reflector 6= 6" reflector 8= 8" reflector 10= 9.5" reflector	R= Round	M= Matte Silver W²= White	W= White

¹These reflectors are only compatible with the light engines shown above
²Stocked in 8", Made to order in 4", 6" and 9.5"
³30W engine is only suitable with RRC6/8/10" reflectors.

Step 3 - Select an optional new construction frame¹

FRAME PART #	DESCRIPTION
RCF-4	4" COMMERCIAL RECESSED FRAME
RCF-6	6" COMMERCIAL RECESSED FRAME
RCF-8	8" COMMERCIAL RECESSED FRAME

¹For new construction projects up to 8"

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ENERGY STAR ID #s

ITEM #	ENERGY STAR ID #	ITEM #	ENERGY STAR ID #	ITEM #	ENERGY STAR ID #	ITEM #	ENERGY STAR ID #
RRCX15CSD(RRC4R**)	2393332	RRCX25CSD(RRC6R**)	2393341	RRCX10WCSD(RRC8R**)	2393330	RRCX20WCSD(RRC10R**)	2393339
RRCX15CSD(RRC6R**)	2393333	RRCX25CSD(RRC8R**)	2393342	RRCX10WCSD(RRC10R**)	2393331	RRCX40CSD(RRC6R**)	2404327
RRCX15CSD(RRC8R**)	2393334	RRCX25CSD(RRC10R**)	2393343	RRCX20WCSD(RRC4R**)	2393336	RRCX40CSD(RRC8R**)	2404325
RRCX15CSD(RRC10R**)	2393335	RRCX10WCSD(RRC4R**)	2393328	RRCX20WCSD(RRC6R**)	2393337	RRCX40CSD(RRC10R**)	2404326
RRCX25CSD(RRC4R**)	2393340	RRCX10WCSD(RRC6R**)	2393329	RRCX20WCSD(RRC8R**)	2393338	RRCX30WCSD(RRC6R**)	2404328






ENERGY STAR ID #s

ITEM #	ENERGY STAR ID #
RRCX30WCSD(RRC8R**)	2404329
RRCX30WCSD(RRC10R**)	2404330

Dimming Compatibility

DIMMER MODELS	
LUTRON	DVSTV-WH
LEVITON	IP710-DLZ

Accessories Table

ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
SD-UNVTEMPLATE	105886	ROUGH IN TEMPLATE, UNIVERSAL 4", 6", 8"	
RCF-XTRIM10	105172	GOOF RING, 9.5" TO 12" COVERAGE	
NPP-300W*	106318	120-277V NETWORK POWER PACK 300W MAX	
NPPSL-PSW**	107788	NETWORK POWER PACK PIR SENSOR, 12V, WHITE	
EBUUP17015N200B	108566	EMERGENCY INVERTER, 15W, 120-347VAC, CEC COMPLIANT, FIELD INSTALLABLE, 0-50°C AMBIENT	

*c-Max compatibility requires the use of NPP-300W accessory

**NPPSL-PSW requires NPP-300W to be installed to the downlight in order to work



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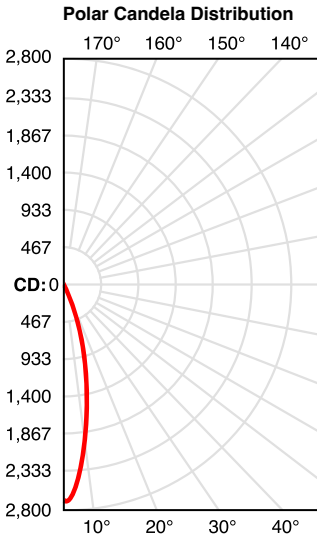
Specifications

		RRCX10WCSD			RRCX20WCSD			RRCX30WCSD			RRCX15CSD	RRCX25CSD
		Wattage Selectable									Fixed Wattage	
NOMINAL WATTAGE (W)		10W	15W	20W	20W	25W	30W	30W	40W	50W	15W	25W
LUMENS (lm)*	25° Beam Angle	1046	1476	1944	1944	2399	2768	-	-	-	1476	2399
Efficacy (lm/W)*		104.6	98.4	99.7	99.7	96.0	92.3	-	-	-	98.4	96.0
LUMENS (lm)*	45° Beam Angle	1065	1550	1960	1940	2300	2680	-	-	-	1550	2300
Efficacy (lm/W)*		106.5	103.3	100.5	99.5	92.0	89.3	-	-	-	103.3	92.0
LUMENS (lm)*	40° Beam Angle	-	-	-	-	-	-	3116	3936	4554	-	-
Efficacy (lm/W)*		-	-	-	-	-	-	103.6	98.4	91.1	-	-
CRI		≥ 80										
CCT (K)		2700K/3000K/3500K/4000K/5000K CCT Selectable (Default CCT: 2700K)										
L70 LIFETIME (hrs)		≥ 50,000										
VOLTAGE		120-277V, 0-10V dimming										
POWER FACTOR		≥ 0.9										
BBU		Available										
LISTINGS		ETL Listed & Classified, ES, Air Tight (up to 20W), IC Rated (up to 20W)										
ENVIRONMENT		Damp locations										
WARRANTY		5 years										

*6" reflector, 4000K

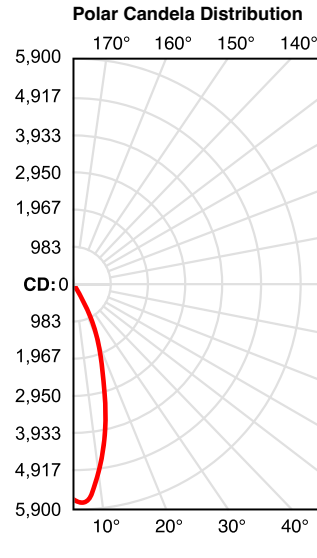
Commercial Downlights

Architectural RRC Series
Wattage and Color Selectable



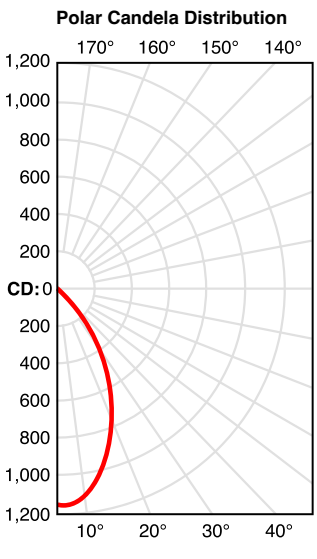
RRCX10WCSW at 10W, 2700K and 25° Beam Angle, 8" Reflector

CP SUMMARY	
ANGLE	CANDELA
0	2699
5	2197
15	1096
25	444
35	169
45	20
55	3
65	1
75	0
85	0
90	0



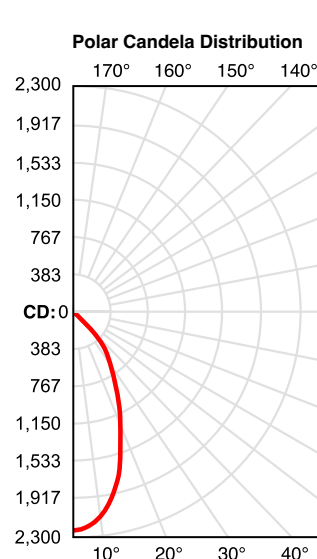
RRCX20WCSW at 20W, 2700K and 25° Beam Angle, 8" Reflector

CP SUMMARY	
ANGLE	CANDELA
0	5884
5	4952
15	2380
25	889
35	339
45	108
55	57
65	36
75	21
85	5
90	0



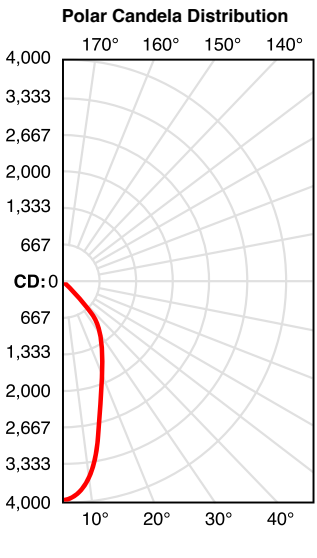
RRCX10WCSW at 10W, 2700K and 45° Beam Angle, 8" Reflector

CP SUMMARY	
ANGLE	CANDELA
0	1210
5	1169
15	905
25	569
35	329
45	64
55	21
65	16
75	10
85	3
90	0



RRCX20WCSW at 20W, 2700K and 45° Beam Angle, 8" Reflector

CP SUMMARY	
ANGLE	CANDELA
0	2265
5	2181
15	1722
25	1089
35	621
45	263
55	44
65	34
75	22
85	7
90	0.06



RRCX30WCSW at 30W, 2700K and 40° Beam Angle, 8" Reflector

CP SUMMARY	
ANGLE	CANDELA
0	3927
5	3714
15	2571
25	1601
35	1040
45	357
55	64
65	48
75	30
85	10
90	0.06

Lumen Multiplier Factor

RRCX10WCSW		RRCX20WCSW		RRCX30WCSW	
WATTAGE	MULTIPLIER	WATTAGE	MULTIPLIER	WATTAGE	MULTIPLIER
10W	1	20W	1	30W	1
15W	1.5	25W	1.5	40W	1.33
20W	2	30W	2	50W	1.66

RRCX10WCSW, RRCX20WCSW, & RRCX30WCSW	
CCT SELECTABLE	MULTIPLIER
2700K	1
3000K	1.01
3500K	1.02
4000K	1.04
5000K	1.07

*Changing reflector size has very minimal effect on the beam pattern of the product.

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Photometric Information:

CCT	MULTIPLIER	REFLECTOR SIZE	MULTIPLIER
2700K	0.92	4"	0.95
3000K	0.95	6"	1.00
3500K	0.97	8"	1.00
4000K	1.00	9.5"	1.00
5000K	1.00		

*Example: Since RRCX10CSD (RRC4R**) at 45 degrees is 1012lm at 2700K, it will be 1002.4*1.07=1072lm at 4000K. If using reflector RRC6R on RRCX10CSD, lumen output will be 1012*1.01=1082lm*

Product Dimensions:

LIGHT ENGINES	REFLECTOR SIZE	FIXTURE HEIGHT (A)	REFLECTOR HEIGHT (B)	INNER DIAMETER (C)	OUTER DIAMETER (D)
RRCX10WCSD RRCX20WCSD	4"	5.38"	2.54"	4.15"	6.86"
	6"	5.87"	3.02"	5.66"	8.46"
	8"	6.67"	3.82"	7.28"	10.32"
	9.5"	7.1"	4.25"	8.22"	11.82"

LIGHT ENGINES	REFLECTOR SIZE	FIXTURE HEIGHT (A)	REFLECTOR HEIGHT (B)	INNER DIAMETER (C)	OUTER DIAMETER (D)
RRCX30WCSD ¹	6"	5.96"	3.02"	5.66"	8.46"
	8"	6.76"	3.82"	7.28"	10.32"
	9.5"	7.18"	4.25"	8.22"	11.82"

¹30W engine is only suitable with RRC6/8/10" reflectors

FRAMES	E
RCF-4	4"
RCF-6	6"
RCF-8	8"

