# PETITE 1" DOWNLIGHT **Z** Lumenwerx ROUND RECESSED WALL WASH





Petite Family (Refer to other spec sheets) Downlight























## ETITE 1" DOWNLIGHT ROUND RECESSED WALL WASH



Project:	
Typo:	

### Order Guide

LUMINAIRE ID 1	TRIM STYLE	BAFFLE FINISH	TRIM FLANGE FINISH	LENS	CEILING THICKNESS
PETIRRWW				ww	
PETIRRWW - Petite 1" Round Recessed Wall Wash  Recessed (fixed) and Recessed Adjustable also available. Consult other spec sheets.	TRM - Flanged trim TRMP - Flush flanged trim drywall mudplate TRMW - Flush flanged trim millwork	FTMW - Textured matte white FTMB - Textured matte black FSPC - Specular FSSPC - Semi-specular FCHP - Champagne CF# - Custom finish, specify RAL#	FTMW - Textured matte white FTMB - Textured matte black FSPC - Specular FSSPC - Semi-specular FCHP - Champagne CF# - Custom finish, specify RAL#	<b>WW</b> - Wall wash diffuser	<b>05IN</b> - Up to 0.5" <b>1IN</b> - 0.5" - 1"

INSTALLATION TYPE <sup>2</sup>	MOUNTING OPTION 5	LIGHT SOURCE	BEAM	COLOR QUALITY
			ww	
IC <sup>3</sup> - Type-IC NIC <sup>4</sup> - Type Non-IC CP <sup>3</sup> - Chicago Plenum Type-IC (CCEA)	ASB - Adjustable standard bar hangers FMB - Flush mount bars ACB - Adjustable commercial bar hangers AHC - Adjustable hat channel bars	SW - Static white	<b>ww</b> - Wall wash	2STP - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse
<sup>2</sup> See page 3 for more details. <sup>3</sup> Up to 10 W with 90 CRI. <sup>4</sup> Up to 14 W with 90 CRI.	<b>NA</b> - None  See page 5 for more details.	SOLA - Dim-to-warm single channel control DUO - Tunable white 2-channel control		<b>3STP</b> - 3 Step MacAdam Ellipse

CRI	COLOR TEMPERATURE	DRIVER	VOLTAGE	WATTAGE	DIMMING <sup>11</sup>	
<b>90CRI</b> - 90 CRI <b>95CRI</b> - 95 CRI <b>80CRI</b> - 80 CRI	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	INTEGRAL <sup>6</sup> <sup>6</sup> Access above the ceiling is required. <sup>7</sup> A remote driver box is provided, see page 4 for details.	120V - 120V 277V - 277V UNV - 120V-277V	7W - 7 W output, up to 243 Im 10W <sup>8</sup> - 10 W output, up to 316 Im 14W <sup>9,10</sup> - 14 W output, up to 422 Im <sup>8</sup> Not available with 95 CRI when specified with IC/CP. <sup>9</sup> Only available with 90 CRI when specified with NIC.	D1 - 1% 0-10V  ELV <sup>12</sup> - ELV 120V  TRI <sup>12</sup> - TRIAC 120V  ELD1 - eldoLED 1% ECOdrive 0-10V  ELD0 - eldoLED 0.1% SOLOdrive 0-10V  PEQ0 <sup>13</sup> - Lutron Hi-lume Premier 0.1% EcoSystem <sup>11</sup> PoE (Power-over-Ethernet) compatible. Consult factory	
<b>90CRI</b> - 90 CRI	SOLA 30K18K - 3000K to 1800K 27K18K - 2700K to 1800K  DUO 65K27K - 6500K to 2700K 50K27K - 5000K to 2700K			SOLA 10W - 10 W output, up to 244 lm 14W <sup>10</sup> - 14 W output, up to 324 lm	for details. <sup>12</sup> Available with 120V only. <sup>13</sup> On-site commissioning is required.  SOLA  SDI - Single 0-10V input  SELV <sup>12</sup> - ELV 120V  STRI <sup>12</sup> - TRIAC 120V	
	2302111 23001110 270011	REMOTE 7	DO NOT SPECIFY FOR REMOTE.  SEE "REMOTE DRIVER BOX" SECTION BELOW.			

Remote Driver Box Ordered separately. Specify each required remote driver box on a separate line.

REMOTE DRIVER 14	LUMINAIRE QTY.	LUMINAIRE ID	VOLTAGE	WATTAGE	DIMMING	
		PETIRRWW				
RDB# - Remote driver box  * Specify an RDB number (#) for each required remote driver box.	1X - 1 luminaire 2X <sup>15</sup> - 2 luminaires 3X <sup>15</sup> - 3 luminaires <sup>15</sup> Not available with RLDE1 or DUO.	PETIRRWW - Petite 1" Round Recessed Wall Wash	120V - 120V 277V - 277V UNV - 120V-277V 347V <sup>16</sup> - 347V <sup>16</sup> Available with RDI driver only, Please consult factory.	7W - 7 W output, up to 243 lm 10W 17 - 10 W output, up to 316 lm 14W 18,19 - 14 W output, up to 422 lm  77 Available with 90 CRI when specified with IC/CP. 180 Only available with 90 CRI when specified with NIC. 180 Not available with IC/CP.	RD1 - 1% 0-10V RELV <sup>20</sup> - ELV 120V RTRI <sup>20</sup> - TRIAC 120V RLDET <sup>21</sup> - Lutron Hi-lume 1% Ecc RDA <sup>21</sup> - DALI RELD1 - eldoLED 1% ECOdrive 0-10V  20 Available with 120V only. 21 On-site commissioning is required. 22 For emergency battery, code will be 1	+EB <sup>22</sup> - Emergency battery
				SOLA 10W - 10 W output, up to 244 lm 14W <sup>19</sup> - 14 W output, up to 324 lm DUO 7W - 7 W output, up to 205 lm	SOLA	for CCT/intensity  RLD2 <sup>21</sup> - Lutron DALI-2

EXAMPLE CODE: LIGHT

PETIRRWW-TRM-FTMW-FTMW-WW-05IN-IC-ASB-SW-WW-2STP-90CRI-35K-REMOTE REMOTE DRIVER

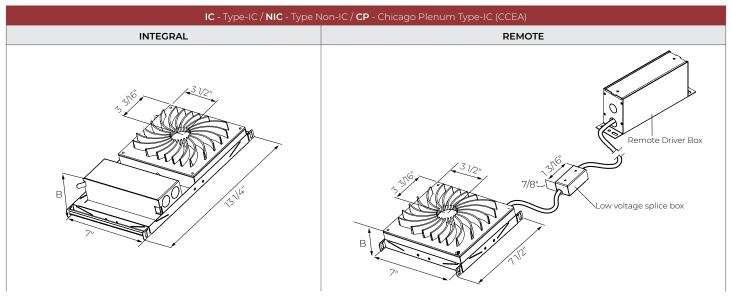
RDB1-2X-PET1RRWW-120V-7W-RD1 RDB2-1X-PET1RRWW-120V-7W-RD1



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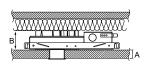


### Installation Types

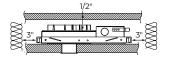


- For integral, access above the ceiling is required.
- For dimension B, see the PLENUM CLEARANCE table below.

#### PLENUM CLEARANCE

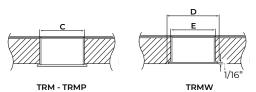


IC/CP - Insulated ceiling



NIC \* - Non-insulated ceiling \* No insulation within 3" of the fixture.

### **CUT-OUT DIMENSIONS**



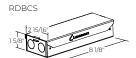
	PLENUM CLEARANCE HEIGHT AND CEILING THICKNESS						
		IC/	CP CP	NIC			
Α	Ceiling thickness	1IN	0.5IN	1IN 0.5IN			
_	Integral	2 1/8" 4" (ASB, A	,	2 5/8" 4" (ASB, A			
В			2 1/8" (FMB) ACB, AHC)	2 1/4" (FMB) 4" (ASB, A	2 5/8" (FMB) CB, AHC)		

	CUT-OUT DIMENSIONS					
		Drywall	Acoustic tile	Millwork		
С	TRM	Ø11	1/16"	N/A		
	TRMP	Ø 1 11/16"	N,	/A		
D				Ø 1 13/16"		
E	TRMW	N,	/A	Ø 1 11/16" with 1/16" lip		

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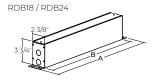
#### REMOTE DRIVER BOX

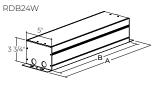




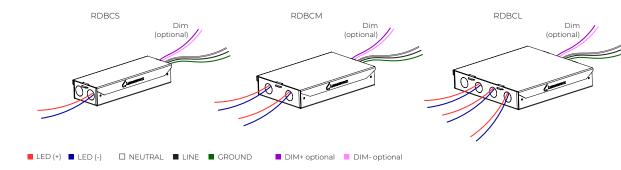


	,	
DRIVER	RDB	# DRIVERS
RD1	RDBCS	1X
RSD1	RDBCM	2X
	RDBCL	3X
RELV RTRI RDA RELDO	RDBCS	٦x
RELDI RPEQO RSELV RSTRI	RDBCM	2X, 3X





DRIVER	RDB	Α	В
RLDE1	RDB18	20"	18"
RDMX RDDA RDDA8 RDD1 RLD2	RDB24	26"	24"
RD1+EB RELV+EB RTRI+EB RPEQ0+EB			
RLDE1+EB RDA+EBI RELD1+EB RELD0+EB	RDB24W	26"	24"

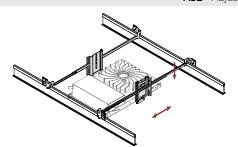


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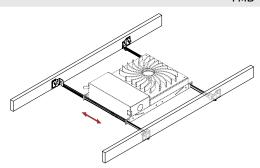
### Mounting Options

#### ASB - Adjustable Standard Bar Hangers



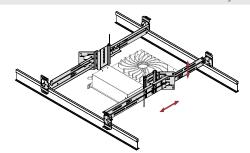
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

#### FMB - Flush Mount Bars



Flush Mount Bars are best used in residential applications, fitting snug to the surface and suitable for Wood, Metal, and Drywall mounting. The flush mounted bars are static and can't be adjusted.

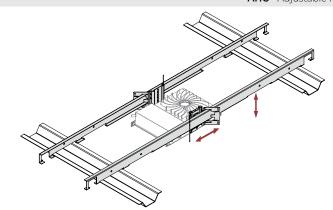
#### ACB - Adjustable Commercial Bar Hangers



Adjustable Commercial Bar hangers can be used in both commercial and residential applications and are by far the most versatile mounting bar we offer with its adjustability to various heights. ACB hangers are suitable for Grid Ceiling, Drywall, Metal, Wood and Frame mounting.

- · Extremely rigid
- · Fits into C-Channel notches in a Butterfly Bracket

#### AHC - Adjustable Hat Channel Bars

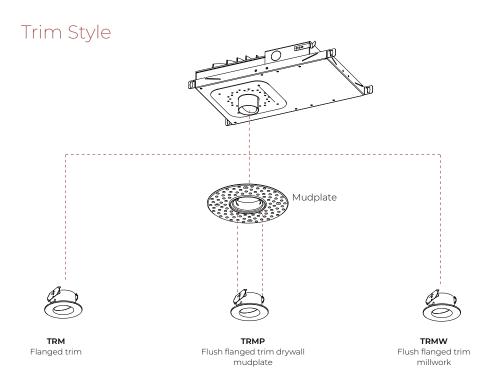


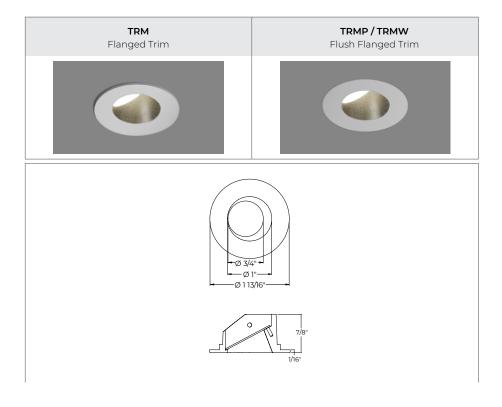
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable for both Drywall and wood ceiling applications.



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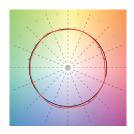


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### Color Quality

COLOR QUALITY - 3500K				
TM-30 Rf	91			
TM-30 R <sub>g</sub>	100			
CRI	90			
R9	> 50			



### Photometrics

Values calculated based on 3500K and 90 CRI for static white. The light distribution will vary depending on trim style and baffle finish.



**WW** - Wall Wash

#### STATIC WHITE

WATTAGE		7 W		10 W		14 W	
Trim style	Baffle finish	lm	lm/W	lm	lm/W	lm	lm/W
	White	243	35	316	32	422	30
Trim	Black, Champagne	190	27	246	25	328	23
	Specular, Semi-specular	217	31	281	28	375	27

#### **MULTIPLIERS**

Please follow the multiplier tables to ensure correct lumen value. CCT and CRI will change the lumen value.

ССТ		CRI	
2700K	0.91	80 CRI	1
3000K	0.96	90 CRI	1
3500K	1	95 CRI	0.77
4000K	1.01		

#### SOLA

WATTAGE			10 W		14 W	
CCT	Trim style	Baffle finish	lm	lm/W	lm	lm/W
3000K	Trim	White	244	24	324	23
		Black, Champagne	190	19	252	18
		Specular, Semi-specular	213	21	283	20
2700K	Trim	White	244	24	324	23
		Black, Champagne	190	19	252	18
		Specular, Semi-specular	213	21	283	20

#### DUO

WATTAGE				7 W		
ССТ	Trim style	Baffle finish	lm	lm/W		
		White	205	29		
6000K	Trim	Black, Champagne	160	23		
		Specular, Semi-specular	179	26		
		White	205	29		
5000K	Trim	Black, Champagne	160	23		
		Specular, Semi-specular	179	26		
		White	180	26		
2700K	Trim	Black, Champagne	140	20		
		Specular, Semi-specular	157	22		



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### Technical Specifications

#### OPTIC

The CircaFlex™ Optic uses advanced beam-splitting technology to allow light to follow an intended optical path with maximal precision, minimal spread, and even distribution.

#### LIGHT SOURCE

#### Static white

Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K and 4000K with a choice of 80 CRI, 90 CRI, or 95 CRI, with elevated R9 value for 90 CRI and above. Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

#### Chromawerx SOLA

Chromawerx SOLA is single-channel control that dims output while warming the color temperature in a pre-determined relationship. Two color temperature range options are offered: 3000K to 1800K, and 2700K to 1800K. A simple analog control adjusts a specially populated LED array to emulate the effect of dimming a filament source.

#### **Chromawerx DUO**

Chromawerx DUO offers a two-channel control system which uses analog or digital protocols for synchronous control of both cool to warm LED arrays - maintaining a CRI above 90. Two color temperature range options are offered: 6500K to 2700K, and 5000K to 2700K. The range of color DUO offers is useful for entraining circadian rhythms, stimulating alertness, and compensating for jet lag among other applications. The Chromawerx drivers are programmed to limit maximum light output and power usage across all color temperatures. When paired with DALI drivers (DDA/DDA8), color tuning follows a linear dimming curve.

#### **ELECTRICAL**

Unless otherwise specified, dimming down to 1%. At maximum driver load: efficiency>84%, PF>0.9, THD<20%.

Integral: 0-10V, ELV, TRIAC, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, Lutron Hi-lume Premier 0.1% EcoSystem Remote: 0-10V, ELV, TRIAC, Lutron Hi-lume 1% Eco, DALI, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, Lutron Hi-lume Premier 0.1% EcoSystem, DMX, Lutron DALI-2 digital

**Emergency battery option**: Remotely-installed, long-life, high-temperature, maintenance-free, Bodine Lithium-lon battery pack with self-test functionality, test switch and charge indicator. IOTA and Fulham options available upon request. Minimum of 90 minutes operation, and recharge time of 24 hours. For fixtures less than 10 W, the battery provides 6 W of emergency light output. For fixtures 10 W and over, the battery provides 10 W.

**PoE**: Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire, or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

#### CONSTRUCTION

**Housing**: For new construction, 20 gauge powder coated steel. 18 gauge galvanized steel junction box with ½" trade size knockouts. Adjustable hanger bars and butterfly brackets are included. Adjustable commercial hat channel and flush mounted brackets are also available.

**Baffle**: Die-cast aluminum mounted with retaining spring clips **Heat sink**: Die-cast aluminum

#### WFIGHT

**Integral**: 4 lbs - 1.8 kg **Remote**: 2.1 lbs. - 0.95 kg

#### **LENS**



Wall Wash

#### **ENVIRONMENT**

Ambient temperature at fixture location shall be within 0°C/32°F - 25°C/77°F, indoor dry or damp as well as outdoor damp use (canopies or marquees)

#### CERTIFICATIONS

**ETL**: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0. **Chicago Plenum**: City of Chicago approved (CCEA) when specified with CP installation type option.

**IC rated**: Suitable for direct contact with insulation when specified with IC or CP installation type options.

#### WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

