

Petite Family (Refer to other spec sheets) Downlight



























PETITE 1" MULTI-APERTURE 🖊 Lumenwerx





Project:	
Typo:	

Order Guide

LUMINAIRE ID 1	ARRAY	TRIM STYLE	BAFFLE FINISH	TRIM FLANGE FINISH	LENS
PETIMRRWW					ww
PETIMRRWW - Petite 1" Multi- aperture Round Recessed Wall Wash 1 Recessed (fixed) and Recessed Adjustable also available. Consult other spec sheets.	1X2M - 1 X 2 1X3M - 1 X 3	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#	WW - Wall wash diffuser

CEILING THICKNESS	INSTALLATION TYPE 2	MOUNTING OPTION 6	LIGHT SOURCE	BEAM	COLOR QUALITY
				ww	
05IN - Up to 0.5" 1IN - 0.5" - 1"	IC 3.4 - Type-IC NIC 5 - Type Non-IC CP 3.4 - Chicago Plenum Type-IC (CCEA)	ASB - Adjustable standard bar hangers FMB - Flush mount bars ACB - Adjustable commercial bar	SW - Static white	ww - Wall wash	2STP - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse
	² See page 3 for more details. ³ Not available with 1 X 3 array. ⁴ Up to 7 W for 1 X 2 array. ⁵ Up to 10 W for 1 X 2 array. Up to 7 W for 1 X 3 array.	hangers AHC - Adjustable hat channel bars NA - None See page 5 for more details.	SOLA - Dim-to-warm single channel control DUO - Tunable white 2-channel control		3STP - 3 Step MacAdam Ellipse

CRI	COLOR TEMPERATURE	DRIVER 7	VOLTAGE	WATTAGE PER LIGHT	DIMMING 13	
90CRI - 90 CRI 95CRI - 95 CRI 80CRI - 80 CRI	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	7A driver provided per light. 8 Access above the ceiling is required. 9 A remote driver	277V - 277V UNV - 120V-277V	7W ¹⁰ - 7 W output, up to 243 lm 10W ^{11,12} - 10 W output, up to 316 lm ¹⁰ Not available with 1 X 3 array when specified with 1 C/CP. ¹¹ Not available with 1 X 2 array when ¹² Not available with 1 X 2 array when	D1 - 1% 0-10V ELV 14 - ELV 120V TRI 14 - TRIAC 120V ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V PEQ0 15 - Lutron Hi-lume Premier 0.1% EcoSystem	
90CRI - 90 CRI	SOLA 30K18K - 3000K to 1800K 27K18K - 2700K to 1800K	box is provided, see page 4 for details.			specified with IC/CP.	¹³ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹⁴ Available with 120V only. ¹⁵ On-site commissioning is required.
	<u>DUO</u> 65K27K - 6500K to 2700K 50K27K - 5000K to 2700K		SOLA 10W ^{11, 12} - 10 W output, up to 244 lm	SOLA SDI - Single 0-10V input SELV 14 - ELV 120V STRI 14 - TRIAC 120V		
		REMOTE 9	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 16	LUMINAIRE QTY.	LUMINAIRE ID	VOLTAGE	WATTAGE PER LIGHT	DIMMING	
		PETIMRRWW				
RDB# - Remote driver box *Specify an RDB number (#) for each required remote driver box.	2X ^{17,18} - 2 luminaires 3X ^{17,19} - 3 luminaires ¹⁷ Not available with RLDEI or DUO. ¹⁸ Only available with 1 X 2 array. ¹⁹ Only available with 1 X 3 array.	PETIMRRWW - Petite 1" Multi- aperture Round Recessed Wall Wash	120V - 120V 277V - 277V UNV - 120V-277V 347V ²⁰ - 347V 70 ²⁰ Available with RDI driver only. Please consult factory.	7W ²¹ - 7 W output, up to 243 Im 10W ^{22, 23} - 10 W output, up to 316 Im ²⁷ Not available with 1 X 3 array when specified with IC/CP. ²⁸ Not available with 1 X 2 array when specified with IC/CP. SOLA 10W ^{22, 23} - 10 W output, up to 244 Im DUO 7W ²² - 7 W output, up to 205 Im	RD1 - 1% 0-10V RELV ²⁴ - ELV 120V RTRI ²⁴ - TRIAC 120V RLDE1 ²⁵ - Lutron Hi-lume 1% Eco RDA ²⁵ - DAL1 RELD1 - eldoLED 1% ECOdrive 0-10V ²⁴ Available with 120V only. ²⁵ On-site commissioning is required. ²⁶ For emergency battery, code will be like the service of the servi	RDD1 - Dual 0-10V input for CCT/intensity RLD2 ²⁵ - Lutron DALI-2

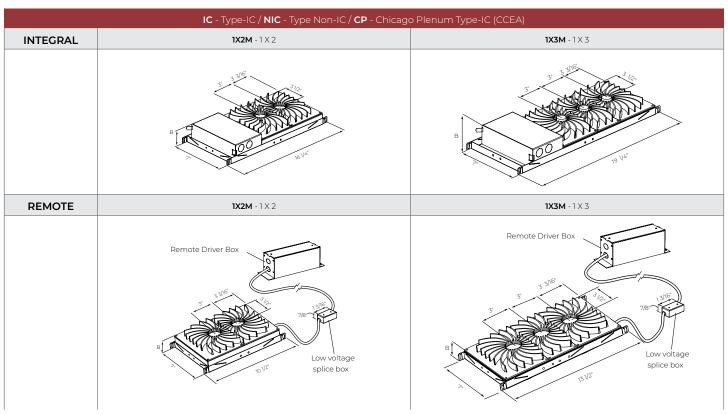
EXAMPLE CODE: LIGHT PETIMRRWW-1X2M-TRM-FTMW-WW-05IN-IC-ASB-SW-WW-2STP-90CRI-35K-REMOTE REMOTE DRIVER RDB1-2X-PETIMRRWW-120V-7W-RD1





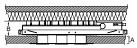


Installation Types

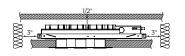


- For integral, access above the ceiling is required.
- For dimension B, see the PLENUM CLEARANCE table below.

PLENUM CLEARANCE

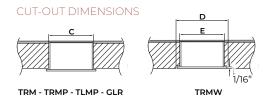






NIC * - Non-insulated ceiling * No insulation within 3" of the fixture.

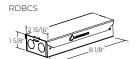
	PLENUM CLEARANCE HEIGHT AND CEILING THICKNESS								
		IC/	CP CP	NIC					
Α	Ceiling thickness	1IN	0.5IN	1IN	0.5IN				
	Integral	2 1/8" (FMB) 4" (ASB, ACB, AHC)		2 5/8" (FMB) 4" (ASB, ACB, AHC)					
В	Remote	1 3/4" (FMB) 4" (ASB, A	2 1/8" (FMB) ACB, AHC)	2 1/4" (FMB) 4" (ASB, A	2 5/8" (FMB) CB, AHC)				

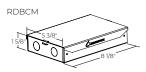


	CUT-OUT DIMENSIONS								
		Drywall	Acoustic tile	Millwork					
c	TRM	Ø11	1/16"	N/A					
	TRMP	Ø 1 11/16"	N,	/A					
D				Ø 1 13/16"					
E	TRMW	N/A		Ø 1 11/16" with 1/16" lip					



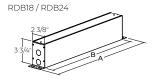
REMOTE DRIVER BOX

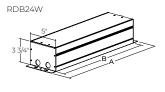




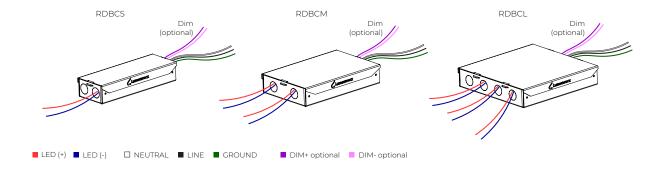


DRIVER	RDB	# DRIVERS
RDI	RDBCS	1X
RSD1	RDBCM	2X
	RDBCL	3X
RELV RTRI RDA RELDO RELDI RPEQO RSELV RSTRI	RDBCS	1X
	RDBCM	2X, 3X





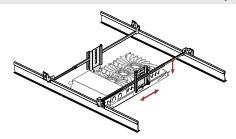
DRIVER	RDB	Α	В
RLDE1	RDB18	20"	18"
RDMX RDDA RDDA8 RDD1 RLD2	RDB24	26"	24"
RELV+EB RTRI+EB RPEQ0+EB			
RLDE1+EB RDA+EBI RELD1+EB RELD0+EB	RDB24W	26"	24"





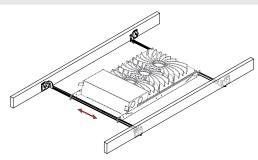
Mounting Options

ASB - Adjustable Standard Bar Hangers



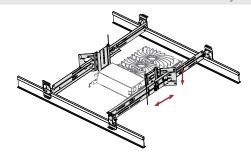
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

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.

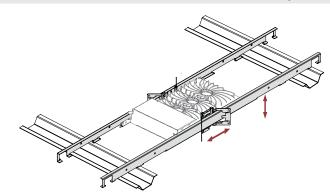
ACB - Adjustable Commercial Bar Hangers



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

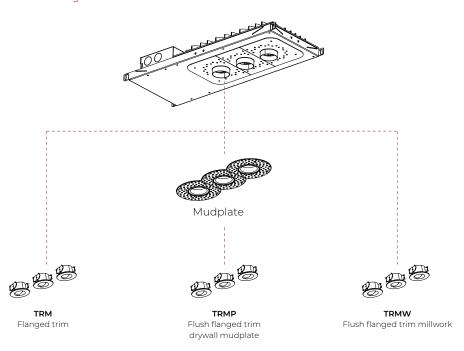


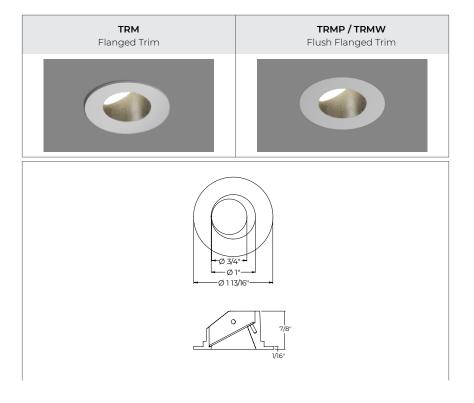
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable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





Trim Style



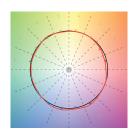






Color Quality

COLOR QUALITY - 3500K				
TM-30 R _f	91			
TM-30 R _g	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. All values are per light.



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
		White	244	24	324	23
3000K	Trim	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

WATTA	7 W			
CCT	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







PETITE 1" MULTI-APERTURE ROUND RECESSED WALL WASH



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, hightemperature, maintenance-free, Bodine Lithium-Ion 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 1/2" 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

	1 X 2	1 X 3
Integral	5.1 lbs - 2.3 kg	6.2 lbs - 2.8 kg
Remote	3.2 lbs - 1.4 kg	4.2 lbs - 1.9 kg

LENS



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).

CERTIFICATION

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.



www.lumenwerx.com

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