

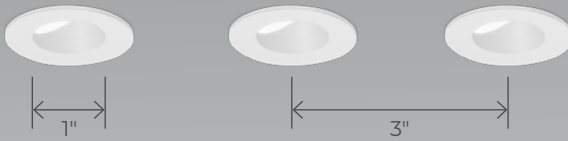
PETITE 1" MULTI-APERTURE

ROUND RECESSED ADJUSTABLE

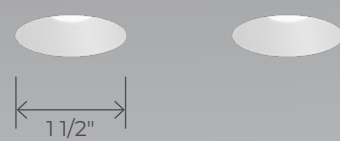
NEW CONSTRUCTION



1 X 3
Adjustable Cut Cone
Flanged Trim



1 X 2
Adjustable
Trimless



The Petite family strikes that perfect balance of compact size, streamlined aesthetics, and high performance. Through their 1" lens apertures, these meticulously engineered downlight, cylinder, and multi-aperture luminaires breathe light into spaces with a quiet, straightforward sophistication.



Array



Beam Angles



Light Source



Ceiling Types



Plenum Clearance

As low as 2 1/8"



Petite Family (Refer to other spec sheets)

Downlight



Multi-aperture



Cylinder



PETITE 1" MULTI-APERTURE

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NEW CONSTRUCTION



Project: _____

Type: _____

Order Guide

LUMINAIRE ID ¹		ARRAY	TRIM STYLE	BAFFLE FINISH Specify NA for Glow ring		TRIM FLANGE FINISH Specify NA for Glow ring and Trimless
<u>UP TO 15°</u> PETIMMRA15 ² - Petite 1" Multi-aperture Round Recessed Adjustable <u>UP TO 30°</u> PETIMMRA30 ³ - Petite 1" Multi-aperture Round Recessed Adjustable Cut Cone		1X2M - 1 X 2 1X3M - 1 X 3	PETIMMRA15 Adjustable TRM - Flanged trim TRMP - Flush flanged trim drywall mudplate TRMW - Flush flanged trim millwork TLMP - Trimless drywall mudplate TLMW - Trimless millwork GLR - Glow ring	PETIMMRA30 Adjustable Cut Cone TRMC - Flanged trim cut cone TRMPC - Flush flanged trim drywall mudplate cut cone TRMWC - Flush flanged trim millwork cut cone	FTMW - Matte white FTMB - Matte black FSPC - Satin silver FSSPC - Matte silver FCHP - Champagne FDBZ - Dark bronze FPF - Primer finish CF# - Custom finish, specify RAL# NA - Not applicable	FTMW - Matte white FTMB - Matte black FSPC - Satin silver FSSPC - Matte silver FCHP - Champagne FDBZ - Dark bronze FPF - Primer finish CF# - Custom finish, specify RAL# NA - Not applicable
¹ Recessed (fixed) and Recessed Wall Wash also available. Consult other spec sheets. ² Adjustability: Up to 15° tilt, 355° rotation. ³ Adjustability: Up to 30° tilt, 355° rotation.						
LENS	CEILING THICKNESS	INSTALLATION TYPE ⁵	MOUNTING OPTION ⁷	LIGHT SOURCE	BEAM	
	1IN					
At baffle SDL ⁴ - Soft diffused lens, Solite NOL - No lens	1IN - Up to 1"	IC ⁶ - Type-IC NIC ⁶ - Type Non-IC CP ⁶ - Chicago Plenum Type-IC (CCEA) ⁵ See page 3 for more details. ⁶ See Wattage section for limitations.	2AB - 2" tall adjustable bar hangers FMB - Flush mount bars ASB - Adjustable standard bar hangers ACB - Adjustable commercial bar hangers AHC - Adjustable hat channel bars NA - No bar hangers ⁷ See page 7 for more details.	SW - Static white ⁸ Not available with GLR and Cut Cone trim options. SOLA ⁸ - Dim-to-warm single channel control DUO ⁸ - Tunable white 2-channel control	35DEG - 35° Narrow flood 45DEG - 45° Flood 60DEG ⁹ - 60° Wide flood ⁹ Only available with TLMP and TLMW trim options. ¹⁰ Only available with TRM, TRMP, and TRMW trim options. 45DEG ¹⁰ - 45° Flood 60DEG ⁹ - 60° Very wide flood	
COLOR QUALITY	CRI	COLOR TEMP.	DRIVER ¹²	VOLTAGE	WATTAGE PER LIGHT	DIMMING ¹⁹
2STP - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse	80CRI - 80+ CRI 90CRI - 90+ CRI 95CRI - 95+ CRI	22K ¹¹ - 2200K 24K ¹¹ - 2400K 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K ¹¹ - 5000K ¹¹ Not available with 95+ CRI.	INTEGRAL ¹³ ¹² A driver provided per light. ¹³ Access above the ceiling is required. ¹⁴ A remote driver box is provided.	120V - 120V 277V - 277V UNV - 120V-277V	7W ^{15,16} - 7 W output, up to 505 lm 10W ^{17,18} - 10 W output, up to 667 lm ¹⁵ Not available with 1 X 3 array when specified with IC/CP. ¹⁶ Not available with 1 X 3 array when specified with NIC and UNV. ¹⁷ Not available with 1 X 3 array or UNV. ¹⁸ Not available with IC/CP.	D1 - 1% 0-10V ELV ²⁰ - ELV 120V TRI ²⁰ - TRIAC 120V ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V PEQO ²¹ - Lutron Hi-lume Premier 0.1% EcoSystem ¹⁹ PoE (Power-over-Ethernet) compatible. Consult factory for details. ²⁰ Available with 120V only. ²¹ On-site commissioning is required.
3STP - 3 Step MacAdam Ellipse	90CRI - 90+ CRI	SOLA 30K18K - 3000K to 1800K 27K18K - 2700K to 1800K DUO 65K27K - 6500K to 2700K 50K27K - 5000K to 2700K			SOLA 10W ^{17,18} - 10 W output, up to 324 lm	SOLA SD1 - Single 0-10V input SELV ²⁰ - ELV 120V STRI ²⁰ - TRIAC 120V
			REMOTE ¹⁴	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 ²²	LUMINAIRE QTY. ²³	LUMINAIRE ID	VOLTAGE	WATTAGE PER LIGHT	DIMMING
RDB# - Remote driver box ²² Specify an RDB number (#) for each required remote driver box.	2X ²⁴ - 2 luminaires 3X ²⁵ - 3 luminaires ²³ Each luminaire requires its own driver. Specify the number of luminaires per driver box. ²⁴ Only available with 1 X 2 array. ²⁵ Only available with 1 X 3 array.	UP TO 15° PETIMMRA15 ²⁶ - Petite 1" Multi-aperture Round Recessed Adjustable UP TO 30° PETIMMRA30 ²⁷ - Petite 1" Multi-aperture Round Recessed Adjustable Cut Cone ²⁶ Adjustability: Up to 15° tilt, 355° rotation. ²⁷ Adjustability: Up to 30° tilt, 355° rotation.	120V - 120V 277V - 277V 120V-277V 347V ²⁸ - 347V ²⁸ Available with RD1 driver only. Please consult factory.	7W ^{29,30} - 7 W output, up to 505 lm 10W ^{31,32} - 10 W output, up to 667 lm ²⁹ Not available with 1 X 3 array when specified with IC/CP. ³⁰ Not available with 1 X 3 array when specified with NIC and UNV. ³¹ Not available with 1 X 3 array or UNV. ³² Not available with IC/CP.	RD1 - 1% 0-10V RELV ³³ - ELV 120V RTRI ³³ - TRIAC 120V RLDE1 ³⁴ - Lutron Hi-lume 1% Eco RDA ³⁴ - DALI RELDO - eldoLED 1% ECOdrive 0-10V ³³ Available with 120V only. ³⁴ On-site commissioning is required. ³⁵ To specify, add +EB to the selected dimming option, e.g. RD1+EB.
				SOLA 10W ^{31,32} - 10 W output, up to 324 lm DUO 7W ^{30,32} - 7 W output, up to 241 lm	RD1 - 1% 0-10V RELV ³³ - ELV 120V RTRI ³³ - TRIAC 120V RLDE1 ³⁴ - Lutron Hi-lume 1% Eco RDA ³⁴ - DALI RELDO - eldoLED 1% ECOdrive 0-10V ³³ Available with 120V only. ³⁴ On-site commissioning is required. ³⁵ To specify, add +EB to the selected dimming option, e.g. RD1+EB.
EXAMPLE CODE:		LIGHT	PETIMMRA15-1X2M-TRM-FTMW-FTMW-SDL-1IN-IC-ASB-SW-35DEG-2STP-90CRI-35K-REMOTE		
			REMOTE DRIVER		RDB1-2X-PETIMMRA15-120V-7W-RD1

PETITE 1" MULTI-APERTURE

ROUND RECESSED ADJUSTABLE

NEW CONSTRUCTION



Housing Dimensions

INSTALLATION TYPES

IC - Type-IC / NIC - Type Non-IC / CP - Chicago Plenum Type-IC (CCEA)	
Integral	Remote
1X2M - 1 X 2	
1X3M - 1 X 3	

- Bar hangers are not shown in the drawings.
- For integral, access above the ceiling is required.
- For remote dimming, a remote driver box is provided.

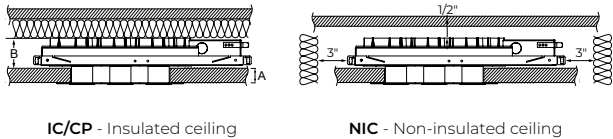
PETITE 1" MULTI-APERTURE

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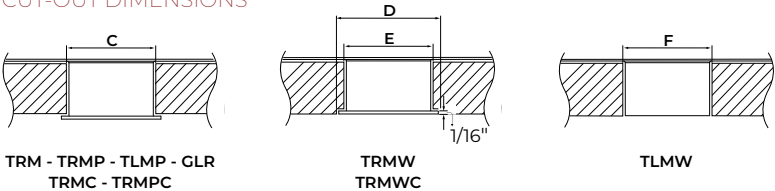
PLENUM CLEARANCE & CEILING THICKNESS



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

* Clearance between sides of luminaire and parts of building must be 1/2" minimum; clearance to insulating materials to be 3" minimum, unless luminaires are IC rated.

CUT-OUT DIMENSIONS



	PETIMRRA15 Adjustable	PETIMRRA30 Adjustable Cut Cone	CUT-OUT DIMENSIONS		
			Drywall	Acoustic Tile	Millwork
C	TRM	TRMC	Ø 1 11/16"		N/A
	TRMP / TLMP	TRMPC	Ø 1 11/16"	N/A	
	GLR	NA	Ø 1 11/16"		
D	TRMW	TRMWC	N/A		Ø 1 13/16"
E					Ø 1 11/16" with 1/16" lip
F	TLMW	NA	N/A	Ø 1 11/16"	

PETITE 1" MULTI-APERTURE

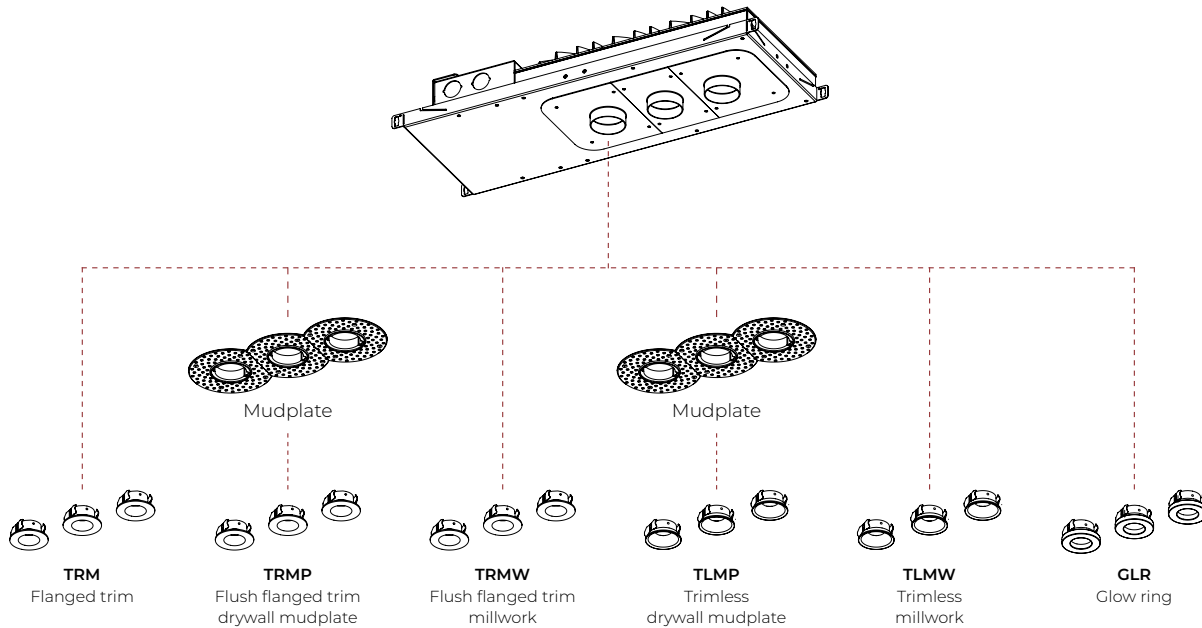
ROUND RECESSED ADJUSTABLE

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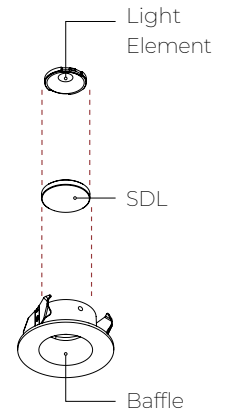


Trim Style

RECESSED ADJUSTABLE



Lens



TRM Flanged Trim	TRMP / TRMW Flush Flanged Trim	TLMP / TLMW Trimless	GLR Glow Ring

29° Cut-off 77° Shielding	23° Cut-off 54° Shielding	34° Cut-off 90° Shielding
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PETITE 1" MULTI-APERTURE

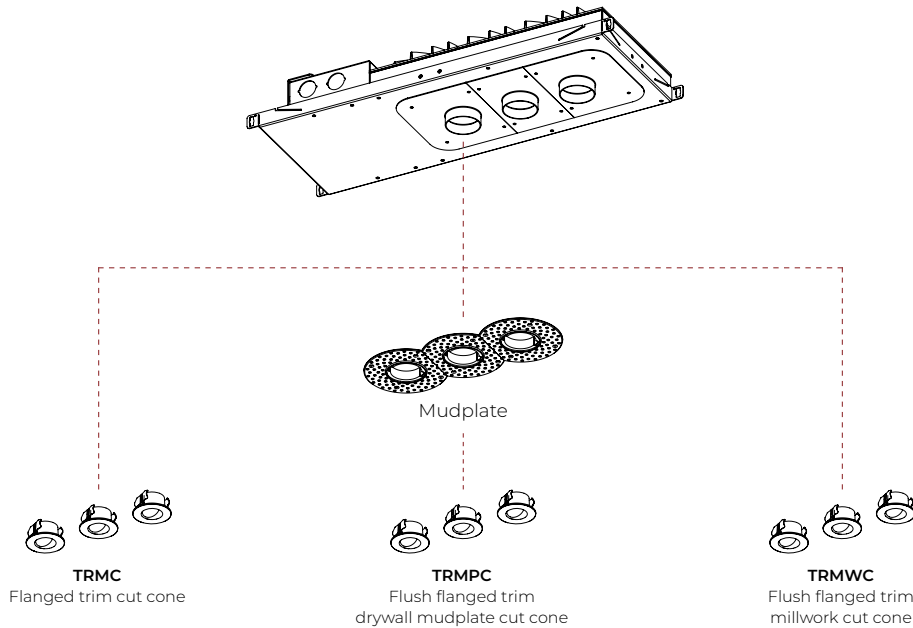
ROUND RECESSED ADJUSTABLE

NEW CONSTRUCTION

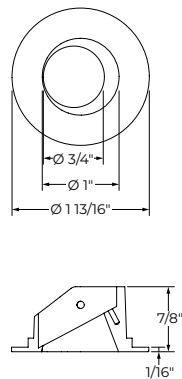


Trim Style

RECESSED ADJUSTABLE CUT CONE



TRMC Flanged Trim Cut Cone	TRMPC / TRMWC Flush Flanged Trim Cut Cone



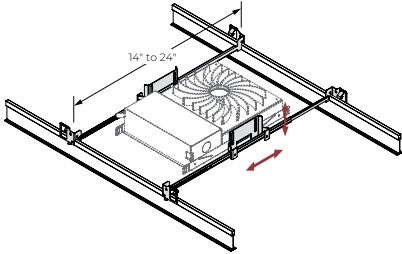
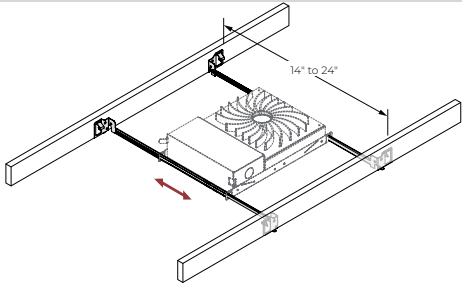
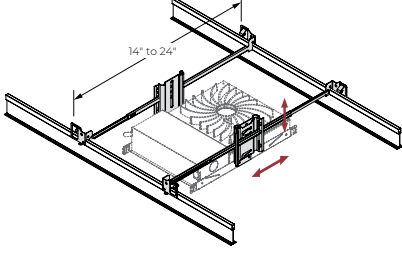
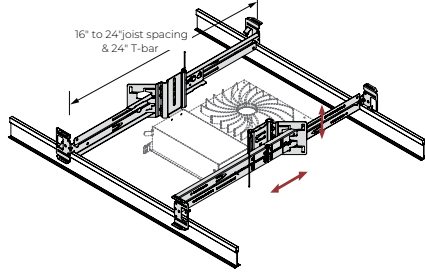
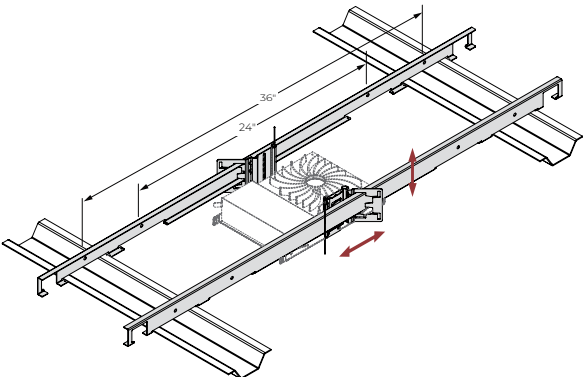
PETITE 1" MULTI-APERTURE

ROUND RECESSED ADJUSTABLE

NEW CONSTRUCTION



Mounting Options

2AB - 2" tall Adjustable Bar Hangers  • Use in commercial and residential applications. • Suitable for grid ceiling and drywall mounting. • Adjustable to various heights. • Low profile adjustable bar hangers, as low as 2". • Joist spacing: 14" to 24".	FMB - Flush Mount Bars  • Use in residential applications. • Suitable for wood, metal, and drywall mounting. • Joist spacing: 14" to 24".
ASB - Adjustable Standard Bar Hangers  • Use in commercial and residential applications. • Suitable for grid ceiling and drywall mounting. • Adjustable to various heights. • Joist spacing: 14" to 24".	ACB - Adjustable Commercial Bar Hangers  • Use in commercial and residential applications. • Suitable for grid ceiling, drywall, metal, wood, and frame mounting. • Adjustable to various heights. • Fits into C-channel notches in a butterfly bracket. • Joist spacing: 16" to 24". Extensions to 36" and 48" available, consult factory. • T-bar spacing: 24"
AHC - Adjustable Hat Channel Bars  • Use in commercial and residential applications. • Suitable for wood ceiling and drywall mounting. • Adjustable to various heights. • Fits into C-channel notches in a butterfly bracket. • Hat channel spacing: 24" and 36".	

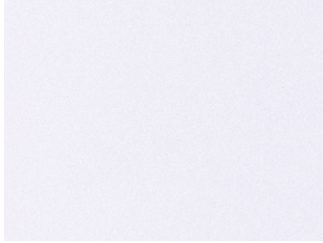
PETITE 1" MULTI-APERTURE

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NEW CONSTRUCTION



Finishes



FTMW - Matte white



FTMB - Matte black



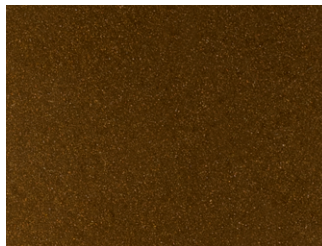
FSPC - Satin silver



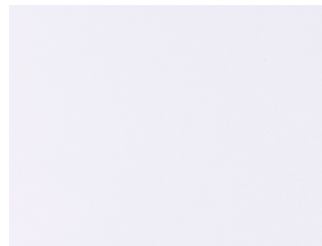
FSSPC - Matte silver



FCHP - Champagne



FDBZ - Dark bronze



FPF - Primer finish

PETITE 1" MULTI-APERTURE

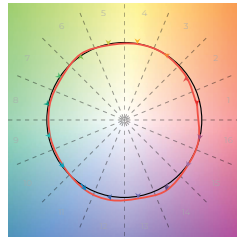
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NEW CONSTRUCTION



Color Quality

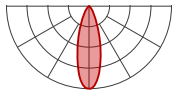
COLOR QUALITY - 3500K	
TM-30 R _t	91
TM-30 R _g	100
CRI	90+
R9	> 50



Photometrics

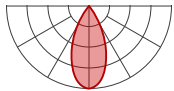
STATIC WHITE - ADJUSTABLE

Values calculated based on 3500K, 90+ CRI, and with no lens. The light distribution will vary depending on baffle finish and trim style. All values are per light.



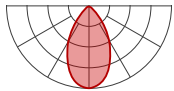
35DEG - 35° Narrow flood

WATTAGE		7 W		10 W	
Trim style	Baffle finish	lm	lm/W	lm	lm/W
Trim	White	425	61	529	53
	Black, Champagne, Dark bronze	327	47	432	43
	Satin silver, Matte silver	382	55	505	50
Trimless	White	449	64	592	59
	Black, Champagne, Dark bronze	413	59	545	55
	Satin silver, Matte silver	283	40	589	59
Glow ring		406	58	535	53



45DEG - 45° Flood

WATTAGE		7 W		10 W	
Trim style	Baffle finish	lm	lm/W	lm	lm/W
Trim	White	425	61	561	56
	Black, Champagne, Dark bronze	344	49	454	45
	Satin silver, Matte silver	407	58	538	54
Trimless	White	505	72	667	67
	Black, Champagne, Dark bronze	436	62	575	57
	Satin silver, Matte silver	481	69	634	63
Glow ring		408	58	539	54



60DEG - 60° Wide flood

WATTAGE		7 W		10 W	
Trim style	Baffle finish	lm	lm/W	lm	lm/W
Trimless	White	318	45	419	42
	Black, Champagne, Dark bronze	247	35	326	33
	Satin silver, Matte silver	283	40	373	37

MULTIPLIERS

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

CCT		CRI		LENS	
2200K	0.80	80+ CRI	1	SDL-Soft diffused lens, Solite	0.91
2400K	0.87	90+ CRI	1	No lens	1
2700K	0.94	95+ CRI	0.77		
3000K	0.98				
3500K	1				
4000K	1.05				
5000K	1.05				

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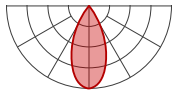
NEW CONSTRUCTION



Photometrics

SOLA/DUO - ADJUSTABLE

Values calculated based on with no lens. The light distribution will vary depending on baffle finish and trim style. All values are per light.



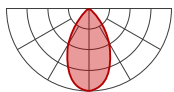
45DEG - 45° Flood

SOLA

WATTAGE 10 W				
CCT	Trim style	Baffle finish	lm	lm/W
3000K	Trim	White	273	27
		Black, Champagne, Dark bronze	221	22
		Satin silver, Matte silver	262	26
2700K	Trim	White	273	27
		Black, Champagne, Dark bronze	221	22
		Satin silver, Matte silver	262	26

DUO

WATTAGE 7 W				
CCT	Trim style	Baffle finish	lm	lm/W
6000K	Trim	White	160	23
		Black, Champagne, Dark bronze	125	18
		Satin silver, Matte silver	140	20
5000K	Trim	White	160	23
		Black, Champagne, Dark bronze	125	18
		Satin silver, Matte silver	140	20
2700K	Trim	White	140	20
		Black, Champagne, Dark bronze	109	16
		Satin silver, Matte silver	122	17



60DEG - 60° Wide flood

SOLA

WATTAGE 10 W				
CCT	Trim style	Baffle finish	lm	lm/W
3000K	Trimless	White	324	32
		Black, Champagne, Dark bronze	262	26
		Satin silver, Matte silver	310	31
2700K	Trimless	White	324	32
		Black, Champagne, Dark bronze	262	26
		Satin silver, Matte silver	310	31

DUO

WATTAGE 7 W				
CCT	Trim style	Baffle finish	lm	lm/W
6000K	Trimless	White	190	27
		Black, Champagne, Dark bronze	148	21
		Satin silver, Matte silver	166	24
5000K	Trimless	White	190	27
		Black, Champagne, Dark bronze	148	21
		Satin silver, Matte silver	166	24
2700K	Trimless	White	166	24
		Black, Champagne, Dark bronze	129	18
		Satin silver, Matte silver	145	21

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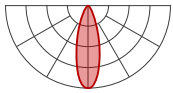
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Photometrics

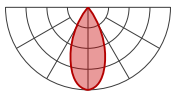
STATIC WHITE - ADJUSTABLE CUT CONE

Values calculated based on 3500K, 90+ CRI, and with no lens. The light distribution will vary depending on baffle finish and trim style. All values are per light.



35DEG - 35° Narrow flood

WATTAGE		7 W		10 W	
Trim style	Baffle finish	lm	lm/W	lm	lm/W
Trim	White	359	51	512	51
	Black, Champagne, Dark bronze	330	47	472	47
	Satin silver, Matte silver	357	51	509	51



45DEG - 45° Flood

WATTAGE		7 W		10 W	
Trim style	Baffle finish	lm	lm/W	lm	lm/W
Trim	White	409	58	584	58
	Black, Champagne, Dark bronze	353	50	504	50
	Satin silver, Matte silver	389	56	556	56

MULTIPLIERS

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

CCT		CRI		LENS	
2200K	0.80	80+ CRI	1	SDL-Soft diffused lens, Solite	0.91
2400K	0.87	90+ CRI	1	No lens	1
2700K	0.94	95+ CRI	0.77		
3000K	0.98				
3500K	1				
4000K	1.05				
5000K	1.05				

PETITE 1" MULTI-APERTURE

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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 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K 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%. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

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-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.

FINISH

Standard powder-coat paint available in matte white, matte black, satin silver, matte silver, champagne, dark bronze, and primer finish. Custom colors also available (provide RAL #). For the primer finish option, fixture must be turned off and the lens masked before applying paint.

CONSTRUCTION

Housing: For new construction, 20 gauge powder coated steel. 18 gauge galvanized steel junction box with ½" trade size knockouts. Adjustable standard 2" tall, flush mount, adjustable standard, adjustable commercial, and adjustable hat channel bar hangers are available as mounting options.

Baffle: Die-cast aluminum mounted with retaining spring clips

Glow ring: Acrylic

Heat sink: Die-cast aluminum

WEIGHT

	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



Soft diffused lens, Solite

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)

PETITE 1" MULTI-APERTURE

ROUND RECESSED ADJUSTABLE

NEW CONSTRUCTION



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.