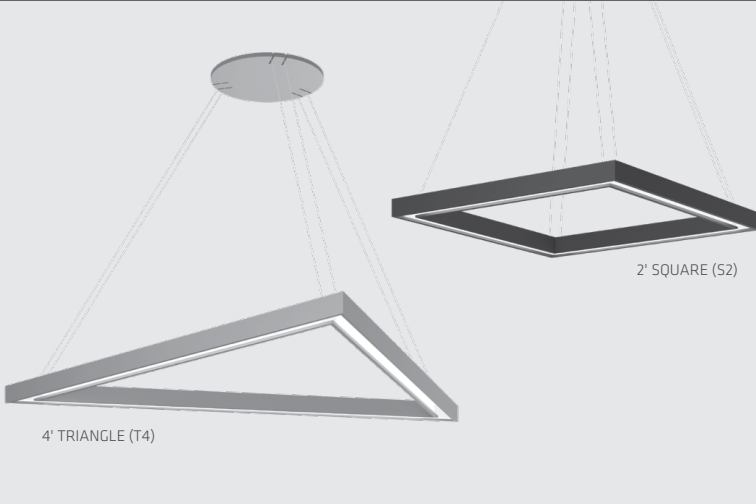


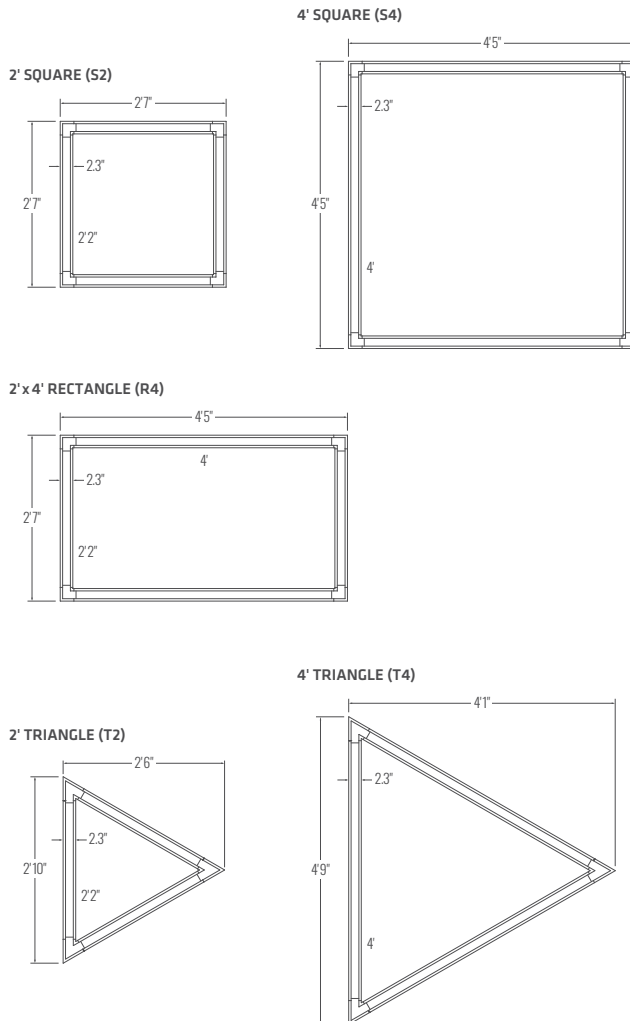
PROFILE MINI FRAME (PA1 | PA3)



4' TRIANGLE (T4)

2' SQUARE (S2)

TOP VIEW DIMENSIONS



CATALOG

PROJECT

NOTES

PERFORMANCE FOCUS

40 Up | 60 Dn, 80 CRI 4000 K (PA1xAx40)

	Energy (W/4ft)	Light (lm/4ft)	Efficacy (lm/W)
A	11 W	1400	127
B	14 W	1750	127
C	18 W	2150	128
D	22 W	2750	126
E	28 W	3400	124

Color Matching (SDCM)	Lumen Maintenance (hr)	
	L90 per TM21	L70 Estimate
< 2	> 60,000	> 200,000

Nominal values, refer to back pages for full performance data.

FEATURES

- 1.5" aperture, open cross section with no horizontal diffuser creates a slim, internally luminous frame.
- Choice of 5 shapes with angled corners – 2' | 4' Square, 2' | 4' Triangle and 2'x4' Rectangle – assembled from precision machined, aluminum extrusions & die cast corners.
- Fluxwerx Anidolic optics provide a precisely controlled lower distribution, with no view of the LEDs, together with wide outer throw upper distribution, for low glare and wide row spacing.
- Up to 12' x 12' oc. spacing, delivering 40 fc at less than 0.40 W/ft².
- Both direct and direct/indirect general area lighting distributions available, as well as independent Up | Dn dimming control.
- Powered by low voltage stainless steel conductive aircraft cables. No visible power cords.

Declare.



SPECIFICATION DATA

PROFILE MINI FRAME (PA1 | PA3)

ORDER GUIDE

1	2	3	4	5	6	7	8	9	10	11	OPTIONS	CONTROLS

1	FAMILY	2	CORNER	3	DISTRIBUTION	4	ENERGY ²	5	CRI-CCT	6	FINISH ³		
PA1	Profile Mini Frame	A	Angle (Fixed 60° or 90°)	A	40 Up 60 Dn	A	11 W/4 ft ¹	30	80 CRI 3000 K	B	Black Powdercoat		
				B	100 Dn	B	14 W/4 ft	35	80 CRI 3500 K			S	Metallic Silver Powdercoat
				D	20 Up 80 Dn	C	18 W/4 ft	40	80 CRI 4000 K			93	90 CRI 3000 K
				F	65 Up 35 Dn	D	22 W/4 ft	90	90 CRI 3500 K	W	White Powdercoat		
						E	28 W/4 ft ¹	94	90 CRI 4000 K	C	Custom Color (RAL)		
PA3	Profile Mini Frame Independent Up Dn			B	Independent Up Dn Control (Full: 60 Up 40 Dn)	D	22 W/4 ft						
						E	28 W/4 ft ¹						
							¹ A: Not 2' Square or 2' Triangle. E: Only 2' Square & 2' Triangle. ² Nominal 4 ft input power. Add 4 W for BP or 347 V.				³ Matching fixture & canopy finish. Silver cables.		

7	LENGTH	8	CEILING TYPE ⁴	9	DRIVER	10	VOLTAGE	11	SUSPENSION
S2	2' Square	D Drywall G Grid S Structure R Remote ⁴ Integrated driver with mounting, power feed, suspension + canopy, except for remote.	F1 Non-Dim F2 0-10 V Dim 3% F4 Line Voltage Dim (Fwd/Rev) 3% 120 V E1 eldoLED ECO 0-10 V Dim 1% E2 eldoLED SOLO 0-10 V Dim 0.1% E3 eldoLED ECO DALI-2 DT6 Dim 1% E4 eldoLED SOLO DALI-2 DT6 Dim 0.1% L1 Lutron Hi-Lume 1% EcoSystem (LDE1)	M 120-277 V 1 120 V ⁵ 2 277 V ⁵ 3 347 V ⁶	03 ≤ 3 ft 06 ≤ 6 ft 12 ≤ 12 ft 25 ≤ 25 ft				
T2	2' Triangle								
R4	2'x4' Rectangle								
S4	4' Square								
T4	4' Triangle								
						⁵ Fixed voltage only for (F4) Line Dim Driver or nLight controls. ⁶ 347 V transformer, remote driver enclosure.			

OPTIONS	CONTROLS
WIRING & EMERGENCY ⁷	TYPE & LOCATION ⁸
B1 Battery Pack C Chicago CCEA H1 Emergency Switching (GTD or Controller)	R Remote Sensor / Controller on Ceiling S Sensor / Controller on Canopy V Controller on Driver / Plenum Side Y Controller on Canopy / Room side
⁷ BP & GTD available for 120-277 V. GTD not compatible with (F4) Line Dim driver.	N1 Acuity nLight Wired ⁹ N2 Acuity nLight Air r10 ⁹ N3 Acuity nLight Air RPP20 ⁹ E1 Enlighted Smart Sensor ¹⁰ L1 Lutron Athena Wireless M1 LeGrand Encelium X / SensiLum V1 Leviton Intellect Wireless
	⁸ Controls selection may be limited by version, protocol or other features – see Controls page. ⁹ Controller (V,Y) only. ¹⁰ Sensor/Controller (R,S) only.

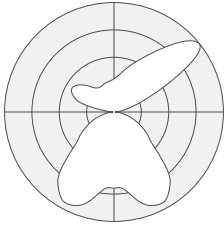
SPECIFICATION DATA

PROFILE MINI FRAME (PA1 | PA3)

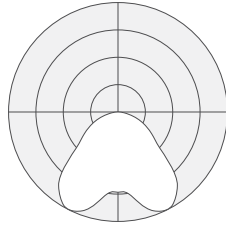
DISTRIBUTIONS

Plot for each side of Profile Mini Frame. Creates a symmetric distribution overall.

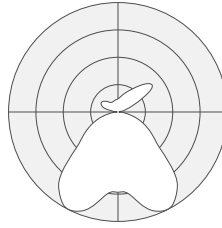
40 Up | 60 Dn (PA1xA)



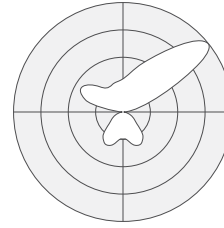
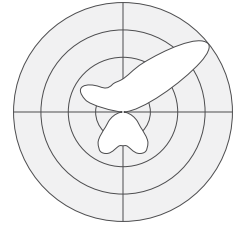
100 Dn (PA1xB)



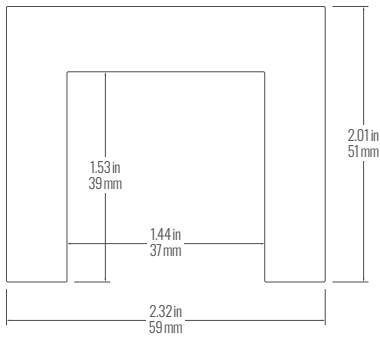
20 Up | 80 Dn (PA1xD)



65 Up | 35 Dn (PA1xF)

Indep. Up | Dn (PA3xB)
(Full: 60 Up | 40 Dn)

CROSS SECTION

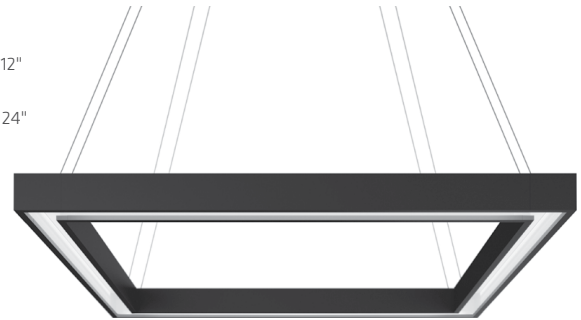


SUSPENSION

Powered by low voltage stainless steel aircraft cables.

MINIMUM CEILING DROP LENGTH:

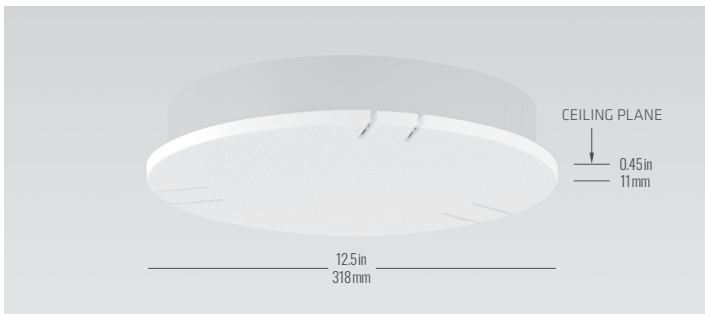
- 2' Square or Triangle: 12"
- 2' x 4' Rectangle: 18"
- 4' Square or Triangle: 24"



2' SQUARE (S2)

CANOPY

Canopy finish matches fixture finish unless otherwise specified.



(G) GRID, (D) DRYWALL

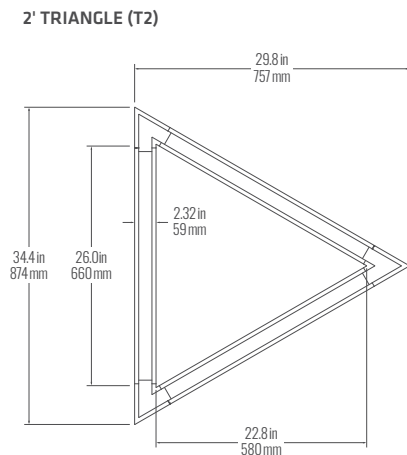
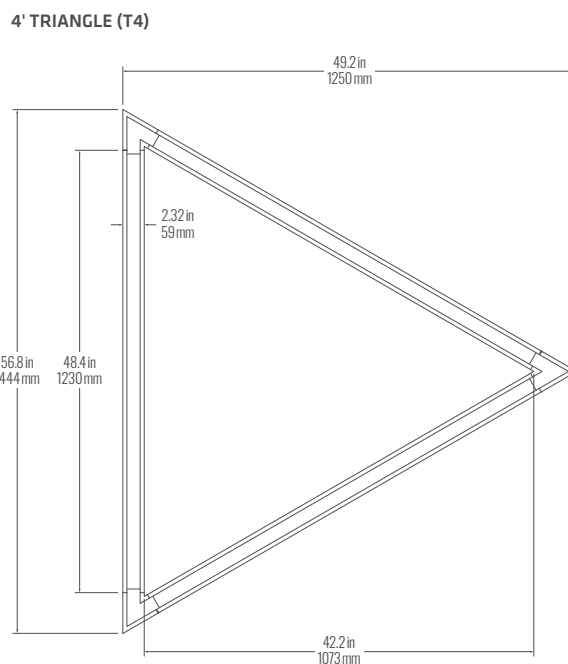
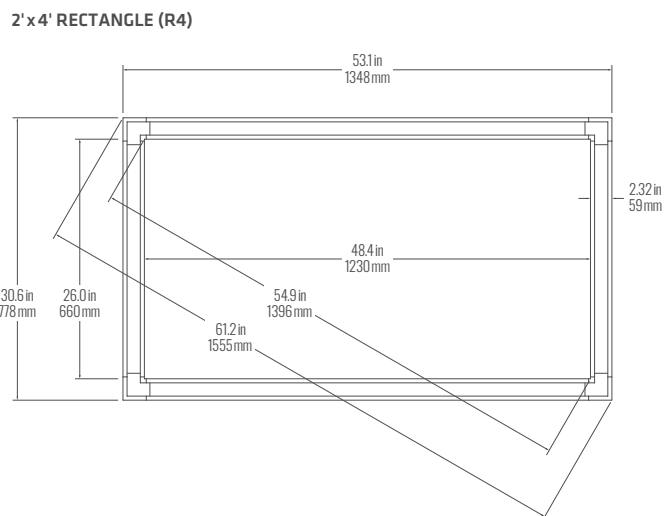
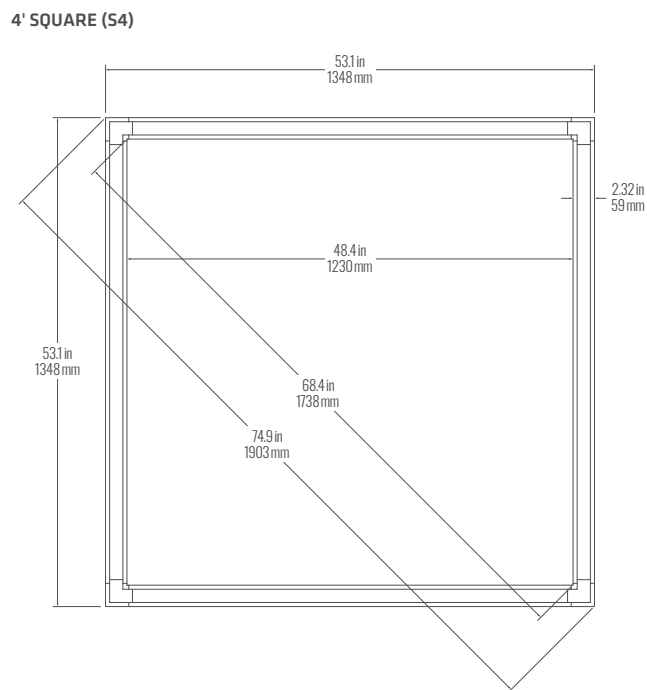
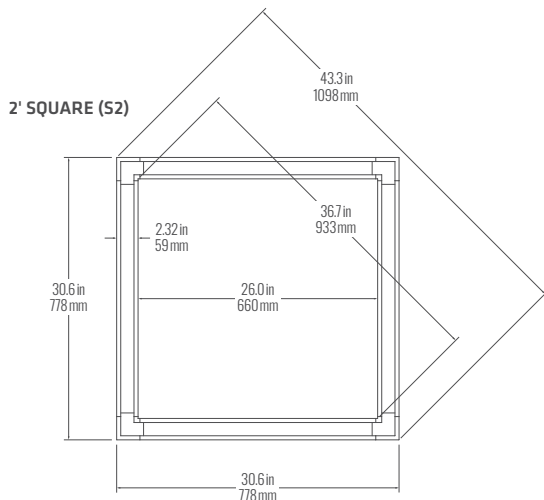


(S) STRUCTURE, (R) REMOTE

SPECIFICATION DATA

PROFILE MINI FRAME (PA1 | PA3)

DIMENSIONS



SPECIFICATION DATA

PROFILE MINI FRAME (PA1 | PA3)

CEILING INTEGRATION

INTEGRATED DRIVER, MOUNTING, POWERED SUSPENSION CABLES AND CANOPY

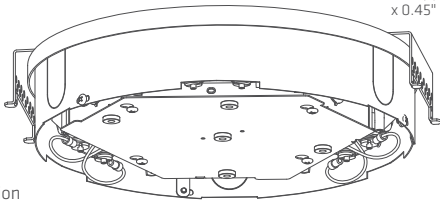
Refer to separate IDF (Integrated Driver for Spoke/Frame) datasheet for wiring and detailed dimensions of driver and mounting hardware.

✓ 0-10 V Dim	✓ DALI	✓ eldoLED	✓ Lutron	✓ 347 V	✓ Battery Pack	✓ Emergency Switch
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(D) DRYWALL

- For GWB or panel ceiling < 0.875" (22 mm) thick
- Requires Structural members on 2 sides
- Default mount tab for 5/8" GWB

Canopy: 12.5" (318 mm) round
x 0.45" (11 mm) tall



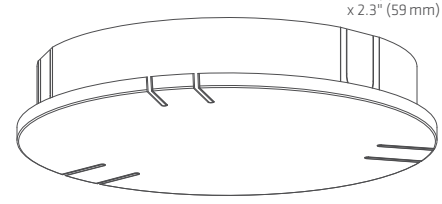
New Construction
or Retrofit installation

RECESSED 120-277 V
MOUNTING + DRIVER ENCLOSURE

(S) STRUCTURE

For exposed ceiling with conduit or recessed junction box.

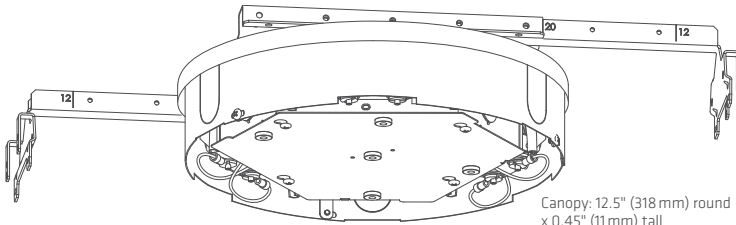
Canopy: 12.5" (318 mm) round
x 2.3" (59 mm) tall



SURFACE 120-277 V
MOUNTING + CANOPY

(G) GRID

- For accessible ceiling grid (acoustic tile) < 1.75" (44 mm) tall
- Integrated Hanger bars for 12, 20 or 24" grid spacing



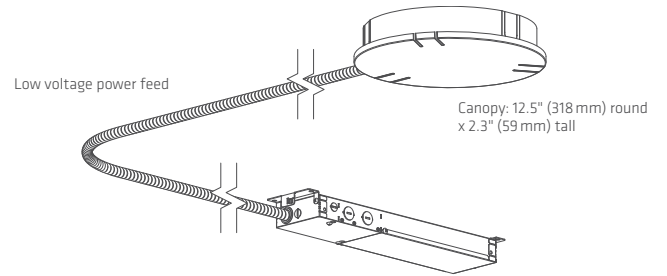
Off Grid installation

RECESSED 120-277 V
MOUNTING + DRIVER ENCLOSURE

Canopy: 12.5" (318 mm) round
x 0.45" (11 mm) tall

(R) REMOTE

Remote mounted driver with power feed to surface mount suspension point.
See notes for wire gauge guide.

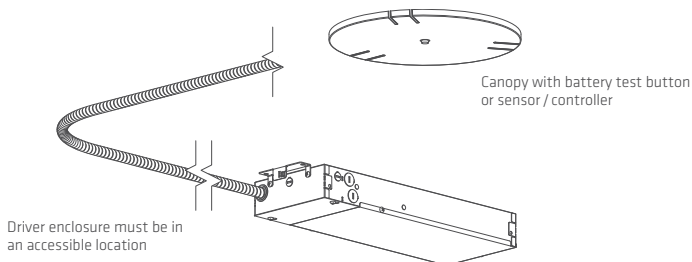


Low voltage power feed

Canopy: 12.5" (318 mm) round
x 2.3" (59 mm) tall

SURFACE 120-277 V
MOUNTING + CANOPY + DRIVER ENCLOSURE

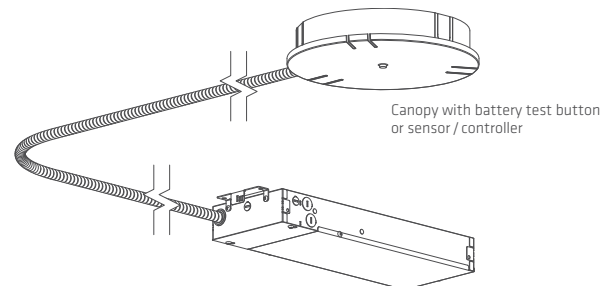
(B) BATTERY PACK (H) EMERGENCY SWITCH OR (3) 347 V OPTION



Driver enclosure must be in
an accessible location

Canopy with battery test button
or sensor / controller

(B) BATTERY PACK (H) EMERGENCY SWITCH OR (3) 347 V OPTION



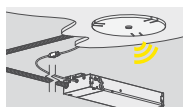
Canopy with battery test button
or sensor / controller

CONTROLS & SENSORS

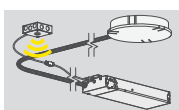
LUMINAIRE INTEGRATION



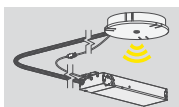
V
Controller,
Enclosure/Plenum Side



Y
Controller,
Canopy/Room Side



R
Sensor,
Remote/on Ceiling



S
Sensor,
on Canopy

Sensor/Controller preinstalled into suspension canopy or ceiling collar (for remote tile or J-box lid installation). Plenum rated cable whips and connectors for fast field activation.

INDEPENDENT UP|DOWN



Separate on/off & dimming control of uplight & downlight. Ideal for presentations & video conferencing.

PRODUCT VERSION

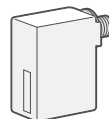
3 Independent Up|Dn*

* Some Controls unavailable with Independent Up/Down due to space constraints – contact Fluxwerx.

(N1) Acuity
nLight Wired



nLight wired, digital network.
Model: nPS-80-EZ or nPS-80-EZ-ER
(with **H** – Emergency Switching)

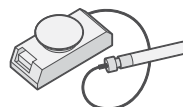


VN1 nLight Wired Controller, Enclosure/Plenum Side

(N2, N3) Acuity
nLight Air



Acuity nLight wireless network interfaces.
Models: rIO, rPP20

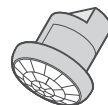


VN2 nLight rIO Controller, Enclosure/Plenum Side
YN2 nLight rIO Controller, Canopy/Room Side
VN3 nLight rPP20 Controller, Enclosure/Plenum Side
nLight in Drywall and Structure ceilings requires (R) Remote driver enclosure

(E1) Siemens
Enlighted



Siemens Enlighted wireless smart
sensor-controllers.
Model: SU-5E-CL



RE1 Enlighted Smart Sensor, Remote/on Ceiling
SE1 Enlighted Smart Sensor, on Fixture/Canopy

(L1) Lutron
Athena



Lutron Athena wireless smart controllers
& sensors.

Models: A-WN-D01-RF, A-WN-D01-OCC

For YL1 and SL1:
Default Athena color to match fixture/canopy color
Canopy Athena
WH WH
SV BK
BK BK
For VL1 and RL1: default WH



VL1 Athena Controller, Enclosure/Plenum Side
YL1 Athena Controller, Canopy/Room Side
RL1 Athena Sensor, Remote/on Ceiling
SL1 Athena Sensor, on Canopy

(M1) Legrand
Encelium X



Encelium X wireless smart controllers
& sensors.
Models: ZBHA-CLM, EN-CLM-PIR

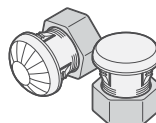


VM1 X Control Module, Enclosure/Plenum Side
YM1 X Control Module, Canopy/Room Side
RM1 SensiLUM Sensor, Remote/on Ceiling
SM1 SensiLUM Sensor, on Canopy

(V1) Leviton
Intellect



Leviton Intellect wireless smart controllers
& sensors.
Models: ZL0x0, ZL0x5



VV1 Intellect Controller, Enclosure/Plenum Side
YV1 Intellect Controller, Canopy/Room Side
RV1 Intellect Sensor, Remote/on Ceiling
SV1 Intellect Sensor, on Canopy

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Pass & Seymour®

EATON

DISTECH
CONTROLS

CRESTRON

CASAMBI

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Due to continuous product improvements, specifications and dimensions are subject to change without notice.

Certain options have limited compatibility with some other product selections. Consult www.fluxwerx.com for most current technical information.

SPECIFICATION DATA
PROFILE MINI FRAME (PA1 | PA3)

NOTES

CONSTRUCTION

- Extruded + machined architectural grade aluminum
- Precision cast aluminum corners are factory preinstalled for seamless fit
- Stainless steel fasteners
- 0.06" (1.6 mm) low voltage stainless steel conductive aircraft cable suspensions
- White, metallic silver or black powdercoat finish. Canopy matches fixture colour as standard.

OPTICAL

- Anidolic optical structures with linear light extraction elements
- Precision molded high transmittance clear acrylic lenses
- Long life mid-flux LED system designed for typical TM21 lumen maintenance \geq L90 @ 60,000 h
- Available in 3000 K, 3500 K, 4000 K with CRI \geq 80 and R9 \geq 0, or CRI \geq 90 and R9 \geq 50, all with color accurate binning \leq 2 SDCM

ELECTRICAL

- No electrical connections are required at fixture level for installation; low voltage power cables factory preinstalled
- High efficiency multivolt drivers, integrated with suspension and mounting components, for 50–60 Hz 120–277 V or 347 V
- Power Factor > 0.90
- Total Harmonic Distortion $< 20\%$
- Dim level: Standard 3%, optional 1% or 0.1%
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

EMERGENCY

- Optional Battery Pack delivers 10 W Class 2 rated output for 90 min. Use 12 W input energy to estimate emergency flux, typically 1150–1750 lm (@ 100–150 lm/W).
- Optional GTD (Generator Transfer Switch), 120–277 V, disables 0–10 V control during emergency for full light output

WIRE GAUGE

- Recommended low voltage wire gauge (AWG) for minimal losses over distance when REMOTE mounting:
 - 30 ft | 18 ga
 - 50 ft | 14 ga
 - 80 ft | 12 ga

ENVIRONMENTAL & CARE

- Designed for use in dry or damp indoor locations with ambient temperatures of 0–30°C (32–86°F)
- The luminaire may be damaged by chemicals such as chlorine, solvents, ammonia, alcohol or sulfur in the area of operation or in cleaning products. Damage from contaminants is not covered under warranty.
- Not suitable for natatorium environments, e.g. swimming pools, hot tubs and saunas.
- Clean only by wiping with a slightly water-damp, soft, clean cloth.

WEIGHT

- Frame fixture:
 - 2' Triangle: 10 lb (4.5 kg)
 - 4' Triangle: 17 lb (7.7 kg)
 - 2' Square: 10.5 lb (4.7 kg)
 - 4' Square: 20 lb (9.1 kg)
 - 2' x 4' Rectangle: 15.5 lb (7.0 kg)
- Driver enclosure & canopy:
 - Max with standard driver: 12 lb (5.4 kg)
 - Max with battery pack or 347V: 19 lb (8.6 kg)

WARRANTY

- 5 year limited warranty on all components and workmanship

INDEPENDENT TESTING



- IESNA LM79
- IESNA LM80 (LED @ 10,000 h)



APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- Living Building Challenge (LBC) Declared

Protected by one or more US patents: 10215344, 10830415, 9733411, 9823406, D731700, D780971, 10077891;
EU patents: 002263020-0001, 002263020-0002, 002263020-0003.

DRIVERS + EMERGENCY

STANDARD DRIVER OPTIONS	
OPTOTRONIC® ADVANCE 	F1 Non-Dim F2 0–10 V Dim 3% F4 Line Voltage Dim 3% (Forward/Reverse) 120 V
eldoLED®	E1 eldoLED ECO 0–10 V Dim 1% E2 eldoLED SOLO 0–10 V Dim 0.1% E3 eldoLED ECO DALI-2 DT6 Dim 1% E4 eldoLED SOLO DALI-2 DT6 Dim 0.1%
	L1 Lutron Hi-Lume 1% EcoSystem (LDE1)

EMERGENCY OPTIONS	
 	B Battery Pack Bodine BSL310 (10 W) H Emergency Switching Functional Devices ESRB Emergency Lighting Relay

Driver and emergency selection may be limited by product or version.
For further options, contact Fluxwerx.



SPECIFICATION DATA

PROFILE MINI FRAME (PA1| PA3)

FAMILY PERFORMANCE

COLOR

80 CRI	4000 K	3500 K	3000 K
Color Rendering (CRI)	83	83	83
Red Index (R9)	6	6	6
Color Matching (SDCM)	< 2		

90 CRI	4000 K	3500 K	3000 K
Color Rendering (CRI)	92	92	92
Red Index (R9)	63	63	59
Color Matching (SDCM)	< 2		

Typical colorimetry values.

LUMEN MAINTENANCE

	A 11 W	B 14 W	C 18 W	D 22 W	E 28 W
L90 per TM-21 (hr)	> 60,000				
L70 Estimate (hr)	> 200,000				

OUTPUT MULTIPLIERS

MULTIPLIER	Applies To	
90 CRI	0.81	All 80 CRI
Battery Pack (Total Fixture Output)	0.87	Energy B (14 W)

For 90 CRI or emergency BP, use multipliers to scale published Light (lm), Efficacy (lm/W), Intensity (Cd), Luminance (Cd/m²) and IES files.

VERSION PERFORMANCE

PA1xA – 40 Up| 60 Dn, 80 CRI

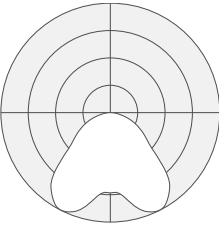
CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm/4ft)	POWER (W/4ft)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	
PA1xAx40 4000 K	A	11 W	1396	11.00	126.9			<p>Profile Mini Frame 47% Up 53% Dn (each side)</p>
	B	14 W	1751	13.80	126.9			
	C	18 W	2175	17.04	127.6			
	D	22 W	2746	21.88	125.5			
	E	28 W	3430	27.60	124.3			
PA1xAx35 3500 K	A	11 W	1364	11.00	124.0			
	B	14 W	1711	13.80	124.0			
	C	18 W	2125	17.04	124.7			
	D	22 W	2683	21.88	122.6			
	E	28 W	3351	27.60	121.4			
PA1xAx30 3000 K	A	11 W	1332	11.00	121.1			
	B	14 W	1671	13.80	121.1			
	C	18 W	2075	17.04	121.8			
	D	22 W	2620	21.88	119.7			
	E	28 W	3272	27.60	118.6			

SPECIFICATION DATA

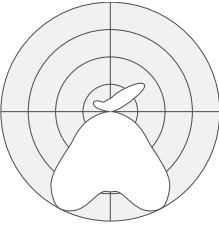
PROFILE MINI FRAME (PA1 | PA3)

VERSION PERFORMANCE

PA1xB – 100 Dn, 80 CRI

CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm/4ft)	POWER (W/4ft)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	
PA1xBx40 4000 K	A	11 W	1298	11.00	118.0			 <p>Profile Mini Frame 100% Dn (each side)</p>
	B	14 W	1628	13.80	118.0			
	C	18 W	2022	17.04	118.7			
	D	22 W	2555	21.88	116.8			
	E	28 W	3194	27.60	115.7			
PA1xBx35 3500 K	A	11 W	1269	11.00	115.4			
	B	14 W	1592	13.80	115.4			
	C	18 W	1970	17.04	124.7			
	D	22 W	2489	21.88	122.6			
	E	28 W	3111	27.60	122.6			
PA1xBx30 3000 K	A	11 W	1240	11.00	112.7			
	B	14 W	1555	13.80	112.7			
	C	18 W	1918	17.04	112.6			
	D	22 W	2423	21.88	110.7			
	E	28 W	3029	27.60	109.7			

PA1xD – 20 Up | 80 Dn, 80 CRI

CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm/4ft)	POWER (W/4ft)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	
PA1xDx40 4000 K	A	11 W	1352	11.00	122.9			 <p>Profile Mini Frame 25% Up 75% Dn (each side)</p>
	B	14 W	1696	13.80	122.9			
	C	18 W	2106	17.04	123.6			
	D	22 W	2661	21.88	121.6			
	E	28 W	3326	27.60	120.5			
PA1xDx35 3500 K	A	11 W	1317	11.00	119.7			
	B	14 W	1652	13.80	119.7			
	C	18 W	2052	17.04	124.7			
	D	22 W	2592	21.88	122.6			
	E	28 W	3240	27.60	122.6			
PA1xDx30 3000 K	A	11 W	1282	11.00	116.5			
	B	14 W	1608	13.80	116.5			
	C	18 W	1997	17.04	117.2			
	D	22 W	2524	21.88	115.3			
	E	28 W	3155	27.60	114.3			

SPECIFICATION DATA
PROFILE MINI FRAME (PA1 | PA3)

VERSION PERFORMANCE

PM1xF – 65 Up | 35 Dn, 80 CRI

CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm/4ft)	POWER (W/4ft)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	
PA1xFx40 4000 K	A	11 W	1470	11.00	133.7			<p>Profile Mini Frame 69% Up 31% Dn (each side)</p>
	B	14 W	1845	13.80	133.7			
	C	18 W	2291	17.04	134.4			
	D	22 W	2877	21.88	131.5			
	E	28 W	3636	27.60	131.8			
PA1xFx35 3500 K	A	11 W	1437	11.00	130.6			
	B	14 W	1802	13.80	130.6			
	C	18 W	2238	17.04	124.7			
	D	22 W	2812	21.88	122.6			
	E	28 W	3553	27.60	122.6			
PA1xFx30 3000 K	A	11 W	1403	11.00	127.5			
	B	14 W	1760	13.80	127.5			
	C	18 W	2186	17.04	128.3			
	D	22 W	2746	21.88	125.5			
	E	28 W	3470	27.60	125.7			

PM3xB – Indep. Up | Dn, 80 CRI

CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm/4ft)	POWER (W/4ft)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	
PA3xBx40 4000 K	D	22 W	2800	21.88	128.0			<p>Profile Mini Frame 63% Up 37% Dn (each side)</p>
	E	28 W	3498	27.60	126.7			
PA3xBx35 3500 K	D	22 W	2736	21.88	122.6			
	E	28 W	3417	27.60	122.6			
PA3xBx30 3000 K	D	22 W	2672	21.88	122.1			
	E	28 W	3337	27.60	120.9			

Photometry Reports: 12757824, 12861772, 13756856.01 – 04
Photometry baseline established with integrating sphere and goniophotometer results from an independent accredited testing laboratory per IES LM-79, ANSI C78.377. Remaining values scaled from baseline data per IES LM-63. Output and power may vary by up to 5%.