

FLUXWERX®

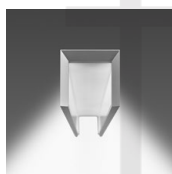
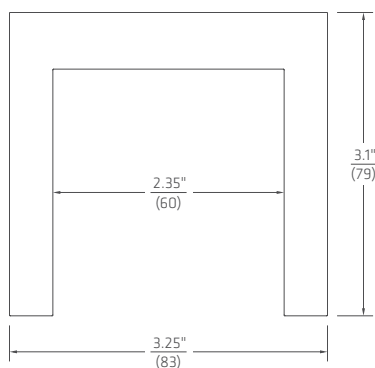
SPECIFICATION DATA
PROFILE 100 DN LED (PF1-B)

CATALOG

PROJECT

NOTES

CROSS SECTION



PERFORMANCE SUMMARY

	A	B	C	D
Light (lm/4ft)	2100	2550	3100	3950
Energy (W/4ft)	19	23	29	38
Efficacy (lm/W)	112	110	108	105
Color Rendering (CRI)	80+			
Color Accuracy (SDCM)	< 2			
L70 Estimate (h)	200,000			
Lumen Maintenance per TM21 (@ 60,000 h)	L90			

Summary values are nominal and based on 4000K CCT. DLC qualified for each lumen output (A, B, C, D) in 3000K, 3500K and 4000K (except 3500K and 4000K in "D" lumens).

FEATURES

- An open aperture design with fully luminous interior. No horizontal lenses or diffusers.
- Fluxwerx Anidolic extraction optics provide precisely controlled optical distributions with no view of the LED point source, for low glare and wide row spacing.
- Up to 15 ft o.c. spacing, delivering 40 fc at less than 0.4 W/ft².
- Five endcap styles, preinstalled for perfect fit & finish.
- Direct and direct/indirect general area lighting versions.
- Also available in vertical surface illumination (VSI) symmetric and asymmetric distributions.
- Precision machined, clear anodized extruded aluminum body.

ENDCAP OPTIONS

(A) ANGLE



(B) BEVEL



(F) FLAT



(P) CAPSULE



(S) SQUARE



SPECIFICATION DATA
PROFILE 100 DN LED (PF1-B)

ORDER GUIDE

1	2	3	4	5	6	7	8	9	10	11	OPTIONS	CONTROLS
PF1		B										

1 FAMILY	2 ENDCAP	3 OPTICAL DISTRIBUTION	4 ENERGY ¹	5 CCT	6 FINISH ²
PF1 Profile Area	A Angle B Bevel F Flat P Capsule S Square	A 40 Up 60 Dn B 100 Dn D 20 Up 80 Dn E 50 Up 50 Dn F 65 Up 35 Dn G 80 Up 20 Dn	A 19 W B 23 W C 29 W D 38 W	30 3000 K 35 3500 K 40 4000 K W2 2700-6500 K ¹⁰	A Clear Anodized B Black Powdercoat S Metallic Silver Powdercoat W White Powdercoat C Custom Color (RAL)
¹ Nominal input power /4ft. For 347 V with E1-4/L1/W1 add 4 W to above.				² Fixture finish only. Canopies are standard white.	

7 LENGTH	8 CEILING TYPE ⁴	9 DRIVER	10 VOLTAGE	11 SUSPENSION
04 4 ft 06 6 ft 08 8 ft XX x ft ³	D Drywall G Grid S Structure R Remote	F1 Non-Dim F2 0-10 V Dim 3% 120-277 V F3 0-10 V Dim 3% 347 V (Class 2 control wiring) E1 eldoLED ECO 0-10 V Dim 1% E2 eldoLED SOLO 0-10 V Dim 0.1% E3 eldoLED ECO DALI Dim 1% E4 eldoLED SOLO DALI Dim 0.1% L1 Lutron Hi-Lume 1% EcoSystem (LDE1) W1 eldoLED DUAL DALI Dynamic White 0.1% ¹⁰	M 120-277 V 3 347 V ⁵	03 ≤ 3 ft 06 ≤ 6 ft 12 ≤ 12 ft 25 ≤ 25 ft
³ Specify run length in 2' nominal increments. Important: Row lengths cannot be modified on site (factory installed endcaps & joiners).	⁴ Integrated driver with mounting, power feed, suspension + canopy, except for remote.	⁵ 347 V Driver for F1/F3. 347 V Transformer & Driver for E1-4/L1/W1.		

OPTIONS		CONTROLS	
WIRING & EMERGENCY ⁶	ROW LAYOUT	SENSORS & CONTROLLERS	DYNAMIC WHITE ¹⁰
A Alternate Wiring (2nd circuit in 8ft modules for EM/NL or presentation switching) B Battery Pack C Chicago Plenum H Emergency Switching (GTD or Controller)	N Non-Power End F 4 ft End Module G 6 ft Modules ⁷	SE1 Canopy Integrated Enlighted Smart Sensor ⁸ RE1 Remote Enlighted Smart Sensor VN1 Acuity nLight Converter ⁹	WF1 Fluxwerx Wall Control WN1 Acuity nLight WC1 0-10 V Linear Dim WC2 0-10 V Log Dim WD1 DALI Linear Dim WD2 DALI Inverse Log Dim
⁶ BP & GTD available for 120-277 V in Grid (G), Structure (S) and Remote (R) ceilings.	⁷ For 12 ft & 18 ft rows.	⁸ For Enlighted in drywall ceilings, use Remote (R) ceiling option. Enlighted with Independent Up Dn or 8 ft Alternate Wiring (A) requires 2 sensors per luminaire and only one can be canopy integrated (SE1). ⁹ For nLight in Drywall (D) and Structure (S) ceilings, contact Fluxwerx.	¹⁰ Dynamic White is available with 40 60 (A) & 100 Dn (B) distributions. Use W1 driver. Refer to later section for DW spec & performance details.

PRODUCT DETAILS



LINEAR ANIDOLIC OPTIC

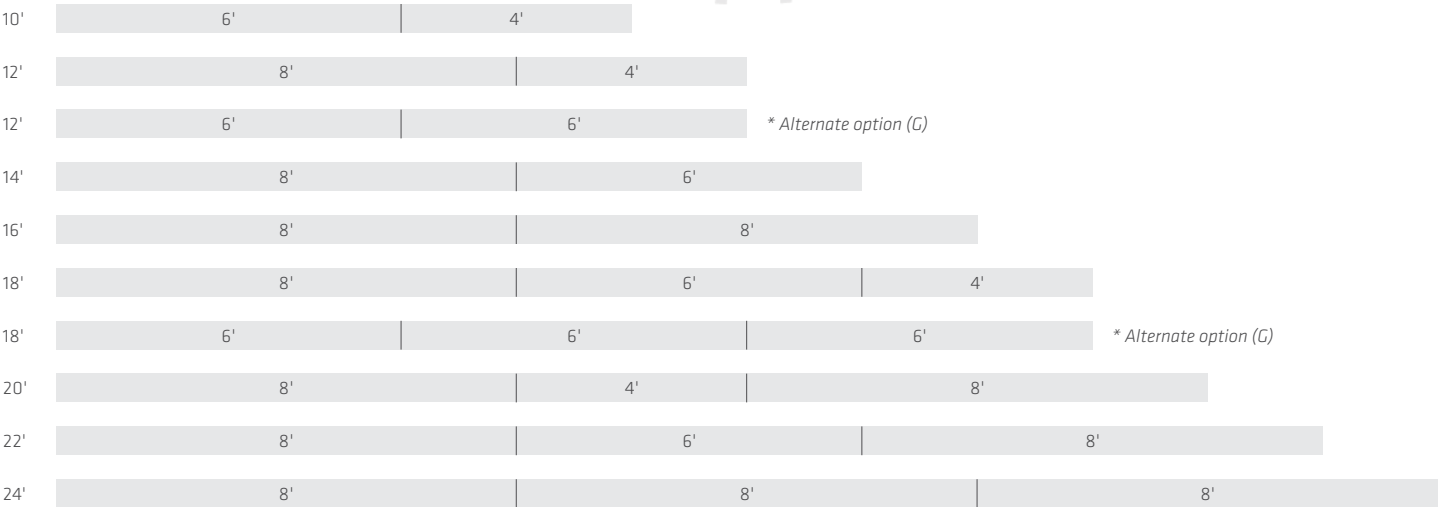
RUN LENGTHS

Standalone fixtures are available in 4', 6' + 8' nominal lengths.



! IMPORTANT
*Endcaps and joiners are integral luminaire components.
 Do not remove them to change run layouts.*

Run lengths are available in 2' nominal increments.

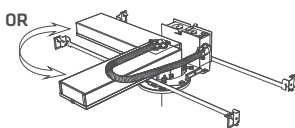
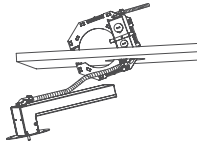
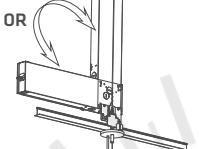
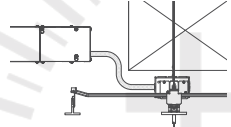
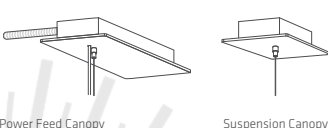
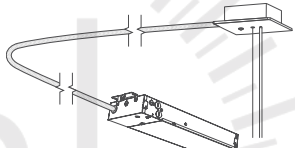
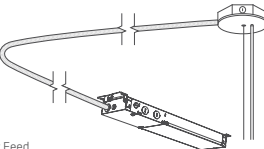
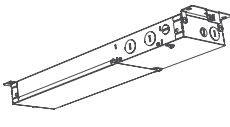
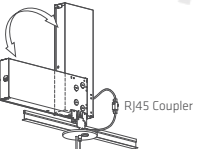
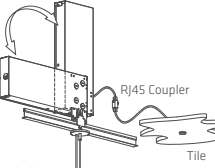
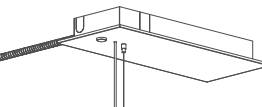
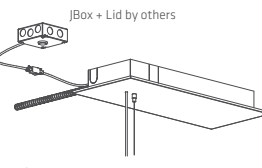
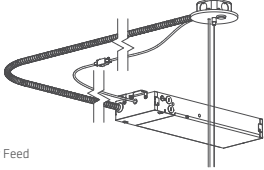
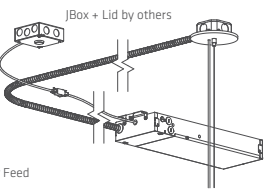


SPECIFICATION DATA

PROFILE 100 DN LED (PF1-B)

INTEGRATED DRIVER, MOUNTING, POWER FEEDS + SUSPENSION

Refer to separate product specification datasheets for detailed dimensions of mounting hardware components, driver enclosures, canopies and wiring.

(D) DRYWALL	New or Retrofit	(G) GRID	ON or OFF Grid	(S) STRUCTURE	Exposed Ceilings	(R) REMOTE																																													
<p>Integrated driver, power feed and mounting suspension points suitable for GWB or plaster thicknesses of < 0.875" (22 mm).</p> <div><div><p>Perpendicular or Parallel</p></div><div><p>Retrofit Method</p></div></div> <table><tr><td>✓ 120-277 V</td><td>✓ 347 V</td><td>✗ Battery Pack</td></tr><tr><td>✓ 0-10 V Dim</td><td>✓ Lutron</td><td>✓ eldoLED</td></tr><tr><td colspan="3">✗ Canopy Integrated Enlighted Sensor</td></tr><tr><td colspan="3">✗ Remote Enlighted Sensor</td></tr></table>	✓ 120-277 V	✓ 347 V	✗ Battery Pack	✓ 0-10 V Dim	✓ Lutron	✓ eldoLED	✗ Canopy Integrated Enlighted Sensor			✗ Remote Enlighted Sensor			<p>Integrated clip, driver, power feed and mounting suspension points suitable for accessible ceiling grid heights of < 1.75" (44 mm).</p> <div><div><p>Horizontal or Vertical</p></div><div><p>Detached Method</p></div></div> <table><tr><td>✓ 120-277 V</td><td>✓ 347 V</td><td>✓ Battery Pack</td></tr><tr><td>✓ 0-10 V Dim</td><td>✓ Lutron</td><td>✓ eldoLED</td></tr><tr><td colspan="3">✓ Canopy Integrated Enlighted Sensor</td></tr><tr><td colspan="3">✓ Remote Enlighted Sensor</td></tr></table>	✓ 120-277 V	✓ 347 V	✓ Battery Pack	✓ 0-10 V Dim	✓ Lutron	✓ eldoLED	✓ Canopy Integrated Enlighted Sensor			✓ Remote Enlighted Sensor			<p>Integrated driver with mounting, power feed, suspension + canopy suitable for exposed surface conduit or recessed junction boxes.</p> <div><div><p>Power Feed Canopy Suspension Canopy</p></div><div><p>Battery Pack Option</p></div></div> <table><tr><td>✓ 120-277 V</td><td>✓ 347 V</td><td>✓ Battery Pack</td></tr><tr><td>✓ 0-10 V Dim</td><td>✓ Lutron</td><td>✓ eldoLED</td></tr><tr><td colspan="3">✓ Canopy Integrated Enlighted Sensor</td></tr><tr><td colspan="3">✓ Remote Enlighted Sensor</td></tr></table>	✓ 120-277 V	✓ 347 V	✓ Battery Pack	✓ 0-10 V Dim	✓ Lutron	✓ eldoLED	✓ Canopy Integrated Enlighted Sensor			✓ Remote Enlighted Sensor			<p>External remote mounted driver. Power feed and suspension points suitable for exposed conduit or recessed junction boxes. See Notes for wire gauge guide.</p> <div><div><p>Power Feed</p></div><div><p>Multivolt 120-277 V Driver</p></div></div> <table><tr><td>✓ 120-277 V</td><td>✓ 347 V</td><td>✓ Battery Pack</td></tr><tr><td>✓ 0-10 V Dim</td><td>✓ Lutron</td><td>✓ eldoLED</td></tr><tr><td colspan="3">✓ Canopy Integrated Enlighted Sensor</td></tr><tr><td colspan="3">✓ Remote Enlighted Sensor</td></tr></table>	✓ 120-277 V	✓ 347 V	✓ Battery Pack	✓ 0-10 V Dim	✓ Lutron	✓ eldoLED	✓ Canopy Integrated Enlighted Sensor			✓ Remote Enlighted Sensor		
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<p>Enlighted Sensor Option: (D) DRYWALL</p> <p>For Enlighted Sensors in drywall ceilings, use REMOTE (R) mounting enclosure options.</p>	<p>Enlighted Sensor Option: (G) GRID</p> <p>Canopy Integrated Sensor</p> <p>5.5" round canopy preinstalled with Enlighted wireless sensor and large driver enclosure with Enlighted control unit. Plenum rated cable whips and RJ45 plugs enable quick field connection.</p> <div><div><p>RJ45 Coupler</p></div><p>Horizontal or Vertical</p></div> <p>Remote Sensor</p> <p>Enlighted wireless sensor supplied with tile mount collar for remote sensor placement in a ceiling tile. Plenum rated cable whips and RJ45 plugs enable quick field connection.</p> <div><div><p>RJ45 Coupler Tile</p></div><p>Horizontal or Vertical</p></div>	<p>Enlighted Sensor Option: (S) STRUCTURE</p> <p>Canopy Integrated Sensor</p> <p>Large driver enclosure with Enlighted control unit and enclosure shroud preinstalled with Enlighted wireless sensor. Hidden cable whips and RJ45 plugs enable quick field connection.</p> <div><div><p>Power Feed Canopy</p></div></div> <p>Remote Sensor</p> <p>Enlighted wireless sensor supplied with tile mount collar for remote sensor placement to a horizontal surface or jBox lid (by others). Plenum rated cable whips and RJ45 plugs enable quick sensor field connection.</p> <div><div><p>jBox + Lid by others</p></div><p>Power Feed Canopy</p></div>	<p>Enlighted Sensor Option: (R) REMOTE</p> <p>Canopy Integrated Sensor</p> <p>5.5" round canopy preinstalled with Enlighted wireless sensor for a 4" octagon jBox (by others). Remote mounted, large driver enclosure with Enlighted control unit. Plenum rated cable whips and RJ45 plugs enable quick sensor field connection.</p> <div><div><p>Power Feed</p></div></div> <p>Remote Sensor</p> <p>Enlighted wireless sensor supplied with tile mount collar for remote sensor placement to a horizontal surface or jBox lid (by others). Plenum rated cable whips and RJ45 plugs enable quick sensor field connection.</p> <div><div><p>jBox + Lid by others</p></div><p>Power Feed</p></div>																																																

SPECIFICATION DATA
PROFILE 100 DN LED (PF1-B)

NOTES

CONSTRUCTION

- Anodized, extruded + machined architectural grade aluminum
- Precision machined aluminum joints and endcaps are factory preinstalled for seamless fit
- Stainless steel fasteners
- 0.04" (1.0 mm) stainless steel aircraft cable suspensions
- Clear anodized surface finish or powdercoated in white, metallic silver or black, canopies in white 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 or 2700-6500 K with CRI \geq 80 and R9 \geq 0, all with color accurate binning \leq 2 SDCM

ELECTRICAL

- No electrical connections are required at fixture level for installation; low voltage power cords 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%
- 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
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

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)
- Not suitable for natatorium environments, e.g. swimming pools, hot tubs and saunas. 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.
- Clean only by wiping with a slightly water-damp, soft, clean cloth.

WEIGHT

- Fixture only: ~ 2.0 lb/ft (3 kg/m)

WARRANTY

- 5 year limited warranty on all components and workmanship

INDEPENDENT TESTING

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

APPROVALS

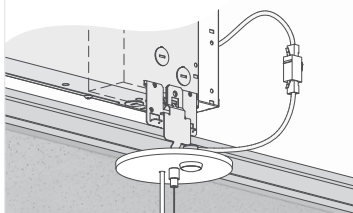
- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- Lighting Facts®
- DesignLights Consortium®
Most options DLC qualified, please check catalog number in the QPL list (www.designlights.org/QPL)

CONTROLS & SENSORS

Fluxwerx products are designed for simple integration with a wide range of sensors, lighting controls and building management systems. Many projects incorporate occupancy sensing, daylight harvesting, individual or central adjustment of light levels and luminaire or space monitoring in order to save energy, reduce costs and maximize occupant comfort. Fluxwerx offers a number of standard driver and controller options to support various wired and wireless network protocols. In our suspended products, the packaging of drivers and controls in the mounting system maintains clean aesthetics, simplifies installation & maintenance, increases flexibility and supports future system upgrades.

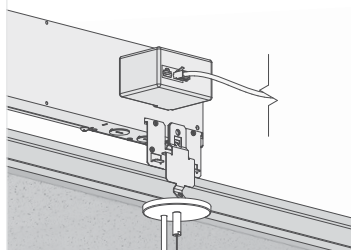
enlighted™

Enlighted wireless, networked smart sensor integrates occupancy sensing, daylight harvesting, energy usage, temperature and light level control. Option: Canopy-integrated or remote Enlighted sensor (SE1 or RE1)
Model: SU-5E-CL



nLIGHT

nLight wired, 2-way network supports luminaire light level control as well as occupancy and daylight sensors. Option: Acuity nLight Converter (VN1)
Model: nPS-80-EZ or nPS-80-EZ-ER



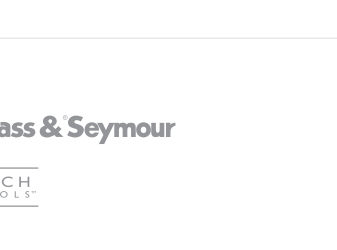
eldoLED®

EldoLED drivers support common wired protocols, 0-10 V and DALI. They also provide access to finer dimming control, dynamic white and Bluetooth low-energy (BLE) wireless.
Options: ECO 1% (E1), SOLO 0.1% (E2)



LUTRON®

Lutron EcoSystem network protocol enables on/off, dimming, occupancy sensing and daylight harvesting. Option: EcoSystem Hi Lume 1% (L1)



legrand® Wattstopper® Pass & Seymour

LEVITON®

EATON®

DISTECH
CONTROLS™

CRESTRON®

SPECIFICATION DATA

PROFILE 100 DN LED (PF1-B)

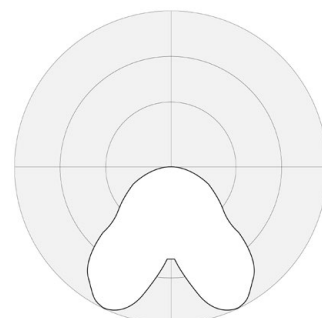
PERFORMANCE DATA

A 19 W	CCT	LIGHT (lm/4ft)	ENERGY (W/4ft)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION PF1-BA40	4000 K	2077	18.49	112.3	82.8	4.2	< 2
	3500 K	2022	18.49	109.4	82.8	4.2	
	3000 K	1967	18.5	106.3	82.5	3.6	
REPORT 11692617.22							

B 23 W	CCT	LIGHT (lm/4ft)	ENERGY (W/4ft)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION PF1-BB40	4000 K	2553	23.13	110.4	82.8	4.2	< 2
	3500 K	2521	23.13	109	82.8	4.2	
	3000 K	2490	23.13	107.6	82.4	3.2	
REPORT 11692617.21							

C 29 W	CCT	LIGHT (lm/4ft)	ENERGY (W/4ft)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION PF1-BC40	4000 K	3106	28.74	108.1	82.7	3.9	< 2
	3500 K	3067	28.74	106.7	82.7	3.9	
	3000 K	3029	28.74	105.4	82.4	3.2	
REPORT 11692617.20							

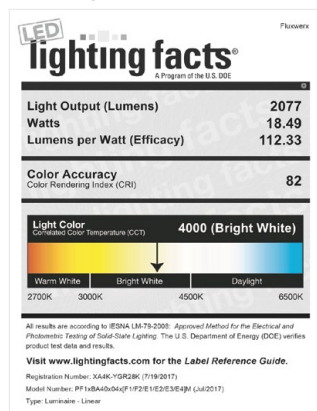
D 38 W	CCT	LIGHT (lm/4ft)	ENERGY (W/4ft)	EFFICACY (lm/W)	(CRI)	COLOR ACCURACY (R9)	(SDCM)
VERSION PF1-BD40	4000 K	3941	37.46	105.2	82.7	3.8	< 2
	3500 K	3892	37.46	103.9	82.7	3.8	
	3000 K	3843	37.48	102.5	82.4	3.2	
REPORT 11692617.17							



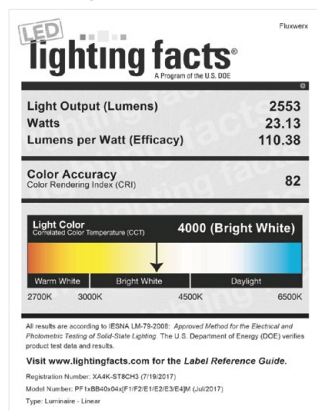
1.5% Up | 98.5% Dn
Profile Suspended
PF1-B
4000 K

Integrating Sphere and Photometric results at 4000K by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3000K and 3500K scaled based on integrating sphere results at 38W (D). Candelpower Distribution scaled per total lumens of Integrating Sphere results.

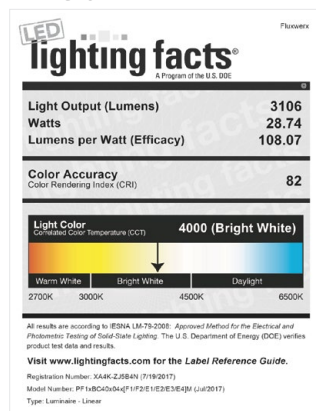
PF1-BA40



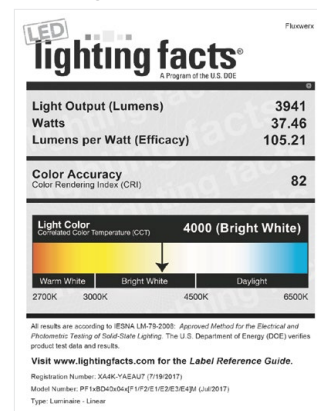
PF1-BB40



PF1-BC40



PF1-BD40



SPECIFICATION DATA

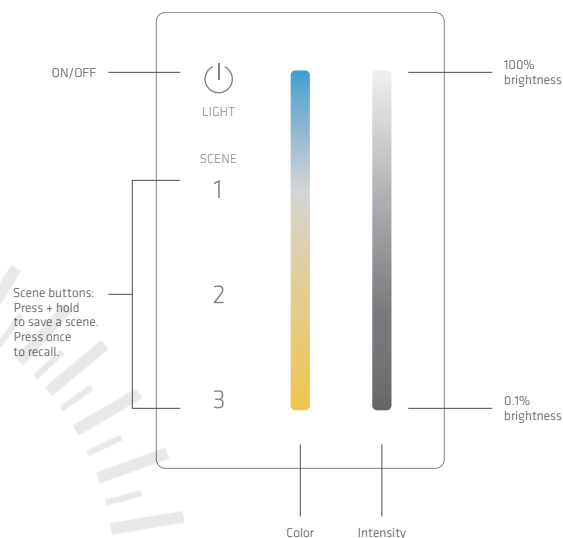
PROFILE 100 DN LED (PF1-B)

DYNAMIC WHITE CONTROL OPTIONS

CONTROLS PROTOCOL	CONTROL CURVE	CONTROLS BRAND	DW CODE	CONTROLLER COMPONENTS* (ordered separately)
DALI	Linear	FLUXWERX	WF1	Fluxwerx Wall Controller
		e.g. Lutron, Crestron	WD1	Controller supplied by others
	Inverse Log	e.g. Distech, Helvar	WD2	
nLight	Linear	Acuity	WN1	Field-installed nLight converter per driver (supplied with luminaire)
0-10 V	Linear	e.g. Leviton, Watt Stopper, Crestron, Pass & Seymour	WC1	Controller supplied by others Fluxwerx 0-10 V converter per zone
	Log	e.g. Lutron, Cooper Controls	WC2	

* See Dynamic White controller data sheet

FLUXWERX WALL CONTROLLER



DYNAMIC WHITE PERFORMANCE DATA

A 19W	CCT	LIGHT (lm/4ft)	ENERGY (W/4ft)	EFFICACY (lm/W)	COLOR ACCURACY (CRI)	COLOR ACCURACY (R9)
VERSION PF1-BAW2	2700 K	1780	19.08	93	82.4	4.5
	3000 K	1790	18.10	99	83.9	10.7
	3500 K	1850	17.48	106	85.9	19.2
REPORT FLUXWERX	4000 K	1870	17.19	109	86.7	22.9
	5000 K	1870	17.27	108	86	17.9
	6500 K	1920	18.84	102	83.7	4.7

B 23W	CCT	LIGHT (lm/4ft)	ENERGY (W/4ft)	EFFICACY (lm/W)	COLOR ACCURACY (CRI)	COLOR ACCURACY (R9)
VERSION PF1-BBW2	2700 K	2210	23.75	93	82.4	4.5
	3000 K	2220	22.91	97	83.9	10.7
	3500 K	2280	22.13	103	85.9	19.2
REPORT FLUXWERX	4000 K	2310	21.76	106	86.7	22.9
	5000 K	2320	21.86	106	86	17.9
	6500 K	2370	23.45	101	83.7	4.7

C 29W	CCT	LIGHT (lm/4ft)	ENERGY (W/4ft)	EFFICACY (lm/W)	COLOR ACCURACY (CRI)	COLOR ACCURACY (R9)
VERSION PF1-BCW2	2700 K	2660	29.79	89	82.4	4.5
	3000 K	2670	28.53	94	83.9	10.7
	3500 K	2750	27.55	100	85.9	19.2
REPORT FLUXWERX	4000 K	2790	27.09	103	86.7	22.9
	5000 K	2800	27.22	103	86	17.9
	6500 K	2850	29.41	97	83.7	4.7

Integrating Sphere and Photometric results scaled from PF1-B, PF1-A and PF1-A Dynamic White results from an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Candlepower Distribution scaled per total lumens of Integrating Sphere results.