PFX-3415

LED BOLLARD
LUMEN AND CCT FIELD SELECTABLE

FEATURES

- Field selectable 3000k (warm white), 4000k (neutral white), and 5000k (cool white) color temperatures.*
- Long-life LEDs provide at least 70% of initial lumen output (L70) for > 163,000 hours of operation, and at least 90% of initial lumen output(L90) for > 50,000 hours of operation.**
- LED chromaticity based on < 5-step ANSI quadrangles.
- LED color maintenance < 0.003 chromaticity shift (Δu'v') over the initial 6,000 hours of operation.
- Provides a range of 905 to 3,296 nominal lumens and 69 to 148 nominal lumens per watt (lm/W).
- 0-10vdc dimming drivers, are standard.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index (Ra) > 80.
- Cast aluminum housing with choice of dark bronze or black powder coat finish.
- High-impact, polycarbonate lens.
- Easy installation in new construction or retrofit applications.

RDL

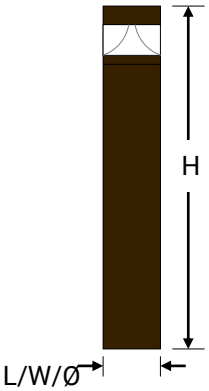
RD

WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from -40°C to 55°C (-40°F to 131°F).
- IP65 rated for ingress protection.
- Complies with FCC Part 15, class A.
- Surge protection = 4kV.
- 5-year warranty of all electronics and housing.

* Contact factory for other color temperatures and lumen packages.
** L70 & L90 hours are IES TM-21-11 calculated hours.

DIMENSION



PFX-3415-BOL

MODEL	Ø	H	Weight (lbs)
RD	6	44	12
RDL	6	44	13

NOTE: All dimensions measured in inches.

ORDERING GUIDE

PFX 3415-BOL-RD-3L-LKFS-BLK

Series	Model		Nominal Lumen Output		Select	Housing Color		Required Mounting Means Order Separately	
PFX-3415 BOL	RD	Round Dome	3L	3,000 lm	LKFS	BLK Blank	Black Bronze	BOL-R-MTGKIT BOL-S-MTGKIT	Anchor bolt for round bollard Anchor bolt for square bollard
	RDL	Round Dome Louvered	2L	2,000 lm					

973-340-6040
3 Luger Rd. #1 - Denville, NJ 07834
info@paraflex.com
paraflex.com

PFX-3415

LED BOLLARD
LUMEN AND CCT FIELD SELECTABLE

ELECTRICAL DAT A

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
PFX-3415 BOL-RD-3L-LKFS	Lumens	1819	1818	1895	2512	2530	2614	3103	3249	3251
	Watts	13	12	13	18	17	18	23	22	23
	Efficacy	140	148	146	138	147	144	136	146	143
	Input Current (A)	120V = 0.11A	120V = 0.10A	120V = 0.11A	120V = 0.15A	120V = 0.14A	120V = 0.15A	120V = 0.19A	120V = 0.18A	120V = 0.19A
		240V = 0.05A	240V = 0.05A	240V = 0.05A	240V = 0.08A	240V = 0.07A	240V = 0.08A	240V = 0.10A	240V = 0.09A	240V = 0.10A
		277V = 0.05A	277V = 0.04A	277V = 0.05A	277V = 0.06A	277V = 0.06A	277V = 0.06A	277V = 0.08A	277V = 0.08A	277V = 0.08A

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
PFX-3415 BOL-RDL-2L-LKFS	Lumens	905	973	983	1263	1351	1359	1573	1692	1687
	Watts	13	12	13	18	17	18	23	22	23
	Efficacy	71	79	77	71	78	76	69	76	74
	Input Current (A)	120V = 0.11A	120V = 0.10A	120V = 0.11A	120V = 0.15A	120V = 0.14A	120V = 0.15A	120V = 0.19A	120V = 0.18A	120V = 0.19A
		240V = 0.05A	240V = 0.05A	240V = 0.05A	240V = 0.08A	240V = 0.07A	240V = 0.08A	240V = 0.10A	240V = 0.09A	240V = 0.10A
		277V = 0.05A	277V = 0.04A	277V = 0.05A	277V = 0.06A	277V = 0.06A	277V = 0.06A	277V = 0.08A	277V = 0.08A	277V = 0.08A

973-340-6040
3 Luger Rd. #1 - Denville, NJ 07834
info@paraflex.com
paraflex.com

PFX-3415

LED BOLLARD
LUMEN AND CCT FIELD SELECTABLE

PHOTOMETRIC DATA

PFX-3415-BOL-RD-3L-LKFS Luminaire Data

Description	BOLLARD (ROUND DOME) 3L 5K - LKFS
Total Lumens	3,251
Input Wattage	23
Efficacy (lm/W)	143
Max. Cd.	765.57 (45H, 52V)
IES Classification	Type VS
Longitudinal Classification	Very Short

Zonal Lumen Summary

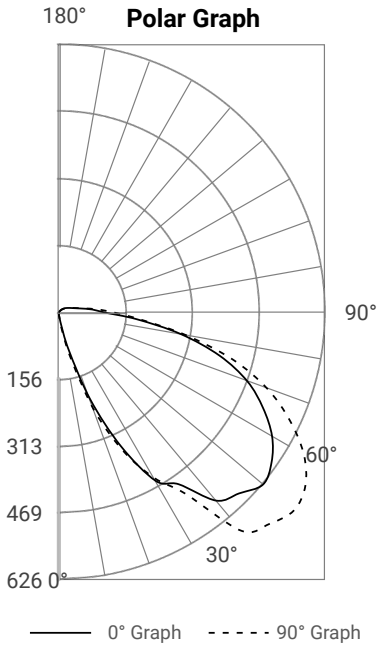
Zone	Lumens	%Fixt
0-30°	200	6.2%
0-60°	1,724	53.0%
0-80°	2,790	85.8%
80-90°	240	7.4%
0-90°	3,030	93.2%
90-110°	161	5.0%
110-180°	0	0.0%
0-180°	3,251	100.0%

Luminaire Classification Systems (LCS)

LCS Zone		Lumens	%Lum
FL	0-30	96	3.0%
FM	30-60	756	23.3%
FH	60-80	539	16.6%
FVH	80-90	124	3.8%
BL	0-30	104	3.2%
BM	30-60	768	23.6%
BH	60-80	528	16.2%
BVH	80-90	116	3.6%
UL	90-100	110	3.4%
UH	100-180	111	3.4%
Total		3,251	100.0%
BUG Rating		B2-U3-G2	

Photometrics calculated at 5000k - high lumens setting

Polar Graph



PFX-3415-BOL-RDL-2L-LKFS Luminaire Data

Description	BOLLARD (RDL) 2L 5K - LKFS
Total Lumens	1,688
Input Wattage	23
Efficacy (lm/W)	74
Max. Cd.	292.72 (225H, 67V)
IES Classification	Type VS
Longitudinal Classification	Short

Zonal Lumen Summary

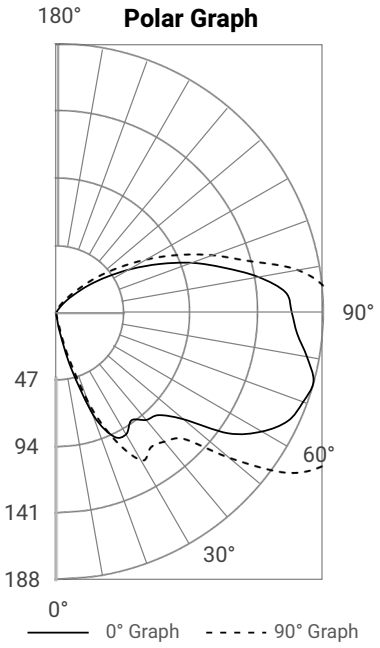
Zone	Lumens	%Fixt
0-30°	61	3.6%
0-60°	455	27.0%
0-80°	959	56.8%
80-90°	231	13.7%
0-90°	1,190	70.5%
90-110°	345	20.4%
110-180°	0	0.0%
0-180°	1,688	100.0%

Luminaire Classification Systems (LCS)

LCS Zone		Lumens	%Lum
FL	0-30	32	1.9%
FM	30-60	201	11.9%
FH	60-80	253	15.0%
FVH	80-90	115	6.8%
BL	0-30	29	1.7%
BM	30-60	192	11.4%
BH	60-80	250	14.8%
BVH	80-90	116	6.9%
UL	90-100	202	12.0%
UH	100-180	296	17.5%
Total		1,688	100.0%
BUG Rating		B1-U3-G2	

Photometrics calculated at 5000k - high lumens setting

Polar Graph



973-340-6040
3 Luger Rd. #1 - Denville, NJ 07834
info@paraflex.com
paraflex.com

PFX-3415

LED BOLLARD
LUMEN AND CCT FIELD SELECTABLE

INSTALLATION

ROUND ANCHOR BOLT INSTALLATION

MOUNTING ACCESSORIES PREPARATION

Remove the accessories in Fig1 from the package, and make sure all parts in good condition and right qtys.

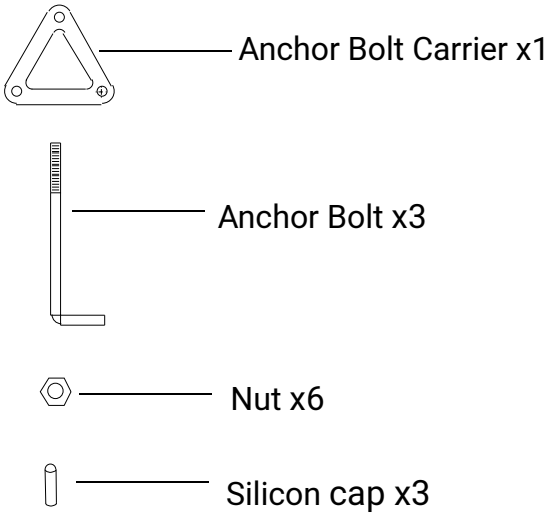


Fig1

INSTALLING ANCHOR BOLT

- Prepare site. Get the anchor bolt carrier assembled asFig2 and protect the threads from concrete splash with silicon caps.
- Ensure that concrete base is suitable for the bollard load.
- Sink the anchor bolts into the concrete as Fig3 leavingthe threaded portion 1/2~2" as Fig4 above the cement . And remove the silicon caps.

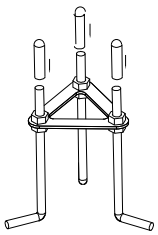


Fig 2

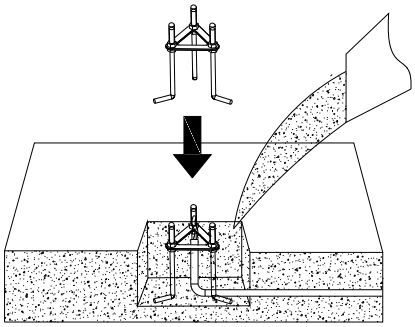


Fig 3

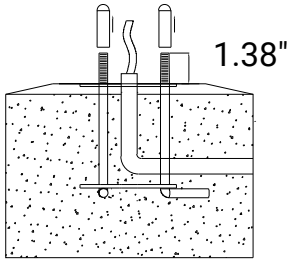


Fig 4

973-340-6040
3 Luger Rd. #1 - Denville, NJ 07834
info@paraflex.com
paraflex.com