Project Name:	Part Number:	Type:

PREMIUM HIGH BAY

INDUSTRIAL

ILP
407-478-3759
www.ilp-inc.com

FEATURES

- Premium efficiency delivers maximum savings
- Aluminum body with steel channel for added rigidity
- Tool-less hinged bottom ballast access door
- High gloss polyester white paint
- Riveted construction and vented ballast channel
- Clear Acrylic, Frosted Acrylic or Polycarbonate Lens options
- V-Clips for Dual Point Chain or Cable Hanging (std.)
- Multiple dimming & sensor options to fully control occ. & unocc. light levels
- 0-10V dimming driver
  - PHB - 50W / 105W / 126W / 210W (100% - 10%)
  - PHB - 76W / 84W / 157W / 168W / 252W / 336W / 495W / 660W (100% - 5%)
- ETL Damp Location Rated
- 5 Year Warranty
- DesignLights Consortium® Premium Qualified Luminaire



126W without a lens



126W with a frosted lens (LED info located on second page)

SUITABLE APPLICATIONS

- Gymnasiums
- Distribution Centers
- Warehouses
- Manufacturing Plants

LED INFO	50 W	76 W	84 W	105 W	126 W	157 W	168 W	210 W	252 W	336 W	495 W	660 W
L_{70}	>100K	>100K	>100K	>100K	>100K	>100K	>100K	>100K	>100K	>100K	>100K	>100K
Delivered Lumens	7,511 lm	11,900 lm	14,036 lm	15,920 lm	20,444 lm	25,179 lm	27,730 lm	34,070 lm	40,820 lm	55,505 lm	74,800 lm	97,264 lm
Watts	51 W	77 W	85 W	104 W	127 W	157 W	170 W	210 W	251 W	338 W	498 W	659 W
Efficacy	148 lm/W	153 lm/W	164 lm/W	150 lm/W	161 lm/W	160 lm/W	162 lm/W	162 lm/W	162 lm/W	164 lm/W	150 lm/W	148 lm/W
CCT	5000K	5000K	5000K	5000K	5000K	5000K	5000K	5000K	5000K	5000K	5000K	5000K
CRI	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
Max Temp	140˚F	145˚F	140˚F	144˚F	130˚F	140˚F	142˚F	146˚F	142˚F	143˚F	115˚F	115˚F
Min Temp	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F

LED System Data for Frosted Lens is located on the second page. LED System data above based on PHB-50WLED-UNIV-50, PHB-76WLED-UNIV-50, PHB-84WLED-UNIV-50, PHB-105WLED-UNIV-50, PHB-126WLED-UNIV-50, PHB-157WLED-UNIV-50, PHB-168WLED-UNIV-50, PHB-210WLED-UNIV-50, PHB-252WLED-UNIV-50, PHB-336WLED-UNIV-50, PHB-495WLED-UNIV-50 & PHB-660WLED-UNIV-50. LED Lumen Maintenance Estimates based on TM-21 projections for the light source at 25˚C ambient.

ORDERING GUIDE:

Series	Watts	Driver	Color	Options	
☐ **PHB** Premium High Bay	☐ **50WLED**	☐ **UNIV** 120-277 V Driver	☐ **50**	☐ **FRL**	Frosted Acrylic Lens
	☐ **76WLED**		☐ **40**	☐ **PCL***	Polycarbonate Lens
	☐ **84WLED**		☐ **35***	☐ **CORDx**	Cord (X = ft)
	☐ **105WLED**		☐ **30***	☐ **DIM**	Leads Attached to Driver
	☐ **126WLED**			☐ **USBD**	User Select Bi-Level Dim On/Off Sensor
	☐ **157WLED**			☐ **BDxx**	Preset Bi-Level Dim Sensor (xx=%eg.20,30)
	☐ **168WLED**			☐ **BDxxPC**	Preset Bi-level Dim Sensor w/ Photocell
	☐ **210WLED**			☐ **DHPC**	Daylight Harvesting with Motion & Photocell
	☐ **252WLED**			☐ **FIOS**	On/Off Occupancy Sensor Installed
	☐ **336WLED**			☐ **FIOSPC**	On/Off Occupancy Sensor w/ Photocell
	☐ **495WLED**			☐ **FIOSPC/DLH**	On/Off Occupancy Sensor w/ Daylight Harvesting
	☐ **660WLED**			☐ **ES/HB**	EasySense High Bay Sensor
				☐ **ES/PCD**	EasySense Pre-Programmed Control Device
				☐ **ES/IR†**	EasySense Commissioning IR Blaster
				☐ **WC***	11GA Wire Cage
				☐ **SMZBKIT**	Surface Mount Bracket Kit
				☐ **FMB**	Fixture Mounting Bracket
				☐ **HOOK**	Cast Iron, Single Point Mount
				☐ **HUB ¾ CONDUIT**	Conduit Hub ¾" for Pendant Mounts only (Must be used w/ FMB for 50W)
				☐ **HB-XX-18Y-PAD**	Y-Toggle Cable System (XX = in)
				☐ **FI/ILBCP05****	5W LED Factory Installed Battery Backup
				☐ **FI/ILBCP07****	7W LED Factory Installed Battery Backup
				☐ **FI/ILBCP10****	10W LED Factory Installed Battery Backup
				☐ **FI/ILBCP12****	12W LED Factory Installed Battery Backup
				☐ **SD480***	480V Step Down Transformer
				☐ **SD347***	347V Step Down Transformer

DLC Standard:
PHB-50WLED-UNIV-50-FRL, PHB50WLED-UNIV-40-FRL, PHB-105WLED-UNIV-40-FRL
PHB-105WLED-UNIV-50-FRL, PHB-495WLED-UNIV-40-FRL

* Does not qualify for DLC
**Reduces Max Ambient Temp
† One needed per project

PREMIUM HIGH BAY

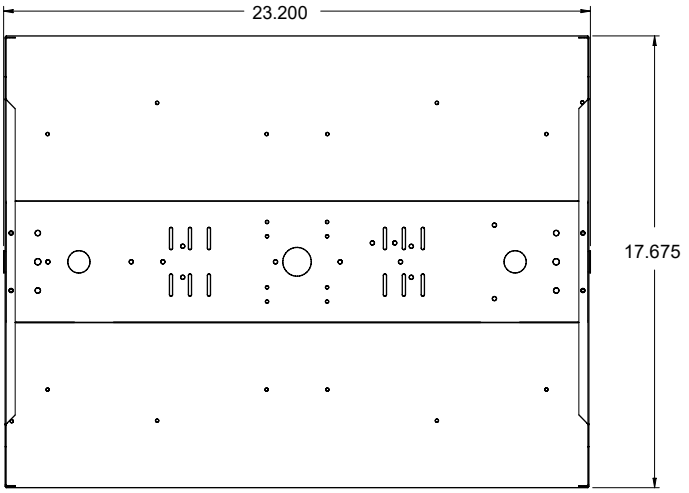
INDUSTRIAL

FROSTED LED INFO	50 W	76 W	84 W	105 W	126 W	157 W	168 W	210 W	252 W	336 W	495 W	660 W
Calculated L_{70} (TM-21)	>100K	>100K	>100K	>100K	>100K	>100K	>100K	>100K	>100K	>100K	>100K	>100K
Delivered Lumens	6,498 lm	10,211 lm	11,993 lm	13,727 lm	17,444 lm	21,495 lm	23,560 lm	29,640 lm	35,342 lm	47,171 lm	62,930 lm	88,936 lm
Total Input Watts	50 W	77 W	85 W	104 W	127 W	157 W	170 W	210 W	251 W	337 W	494 W	657 W
Luminaire Efficacy Rating(LER)	128 lm/W	131 lm/W	140 lm/W	131 lm/W	137 lm/W	136 lm/W	138 lm/W	141 lm/W	140 lm/W	140 lm/W	127 lm/W	135 lm/W
Correlated Color Temperature	5000K	5000K	5000K	5000K	5000K	5000K	5000K	5000K	5000K	5000K	5000K	5000K
Color Rendering Index(CRI)	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
Max Ambient Temperature	140˚F	145˚F	140˚F	144˚F	130˚F	140˚F	142˚F	146˚F	142˚F	143˚F	115˚F	115˚F
Min Ambient Temperature	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F	-40˚F
Universal Driver	120-277 V	120-277 V	120-277 V	120-277 V	120-277 V	120-277 V	120-277 V	120-277 V	120-277 V	120-277 V	120-277 V	120-277 V

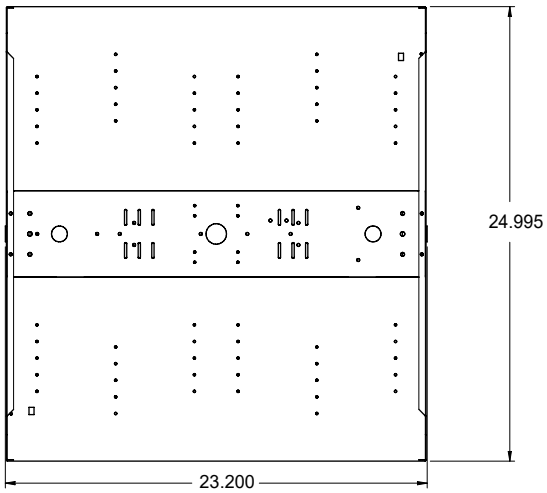
LED System data above based on PHB-50WLED-UNIV-50-FRL, PHB-76WLED-UNIV-50-FRL, PHB-84WLED-UNIV-50-FRL, PHB-105WLED-UNIV-50-FRL, PHB-126WLED-UNIV-50-FRL, PHB-157WLED-UNIV-50-FRL, PHB-168WLED-UNIV-50-FRL, PHB-210WLED-UNIV-50-FRL, PHB-252WLED-UNIV-50-FRL, PHB-336WLED-UNIV-50-FRL, PHB-495WLED-UNIV-50-FRL, & PHB-660WLED-UNIV-50-FRL. LED Lumen Maintenance Estimates based on TM-21 projections for the light source at 25˚C ambient.

LINE DRAWINGS

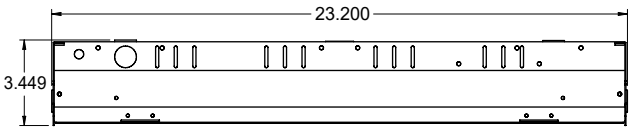
50W : Top View



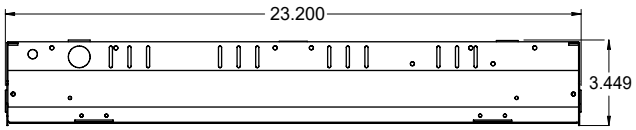
76W - 157W : Top View



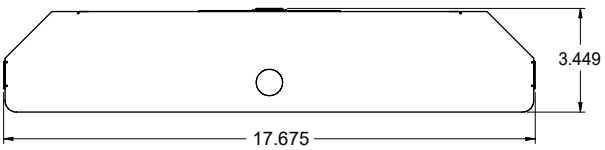
Side View



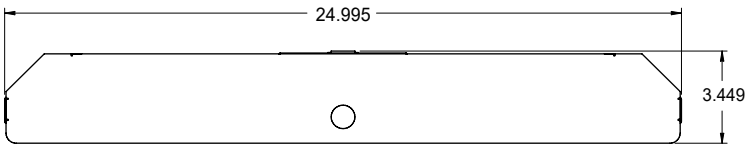
Side View



End View



End View

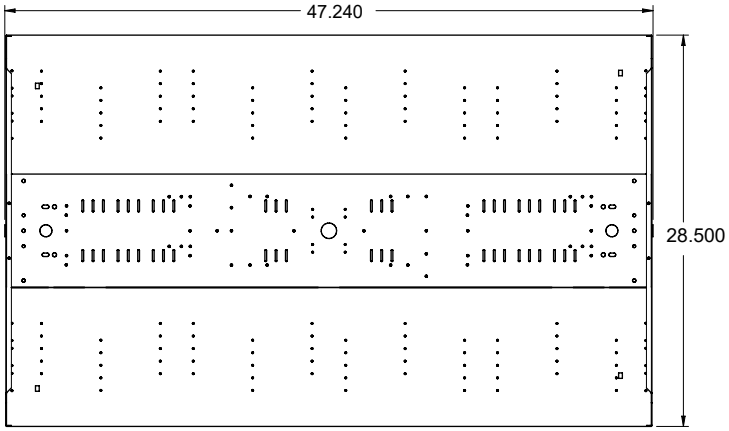


PREMIUM HIGH BAY

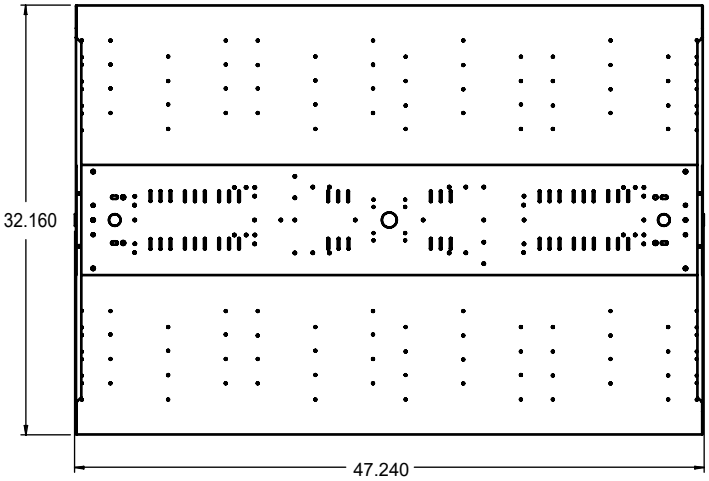
INDUSTRIAL

LINE DRAWINGS

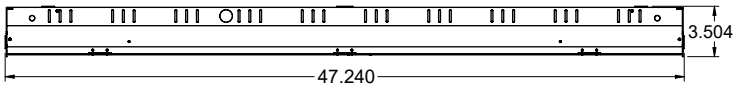
168W - 252W & 495W : Top View



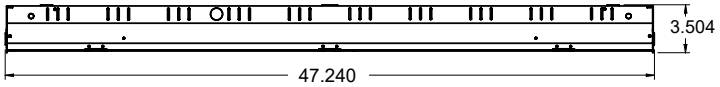
336W & 660W : Top View



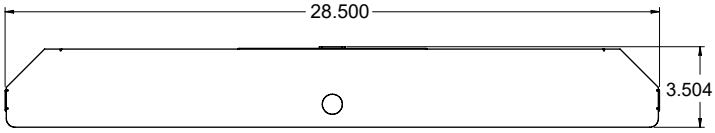
Side View



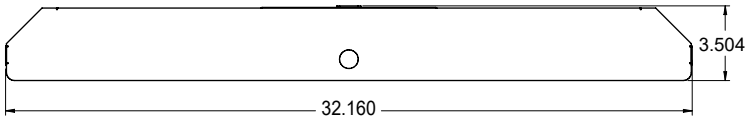
Side View



End View



End View



MOUNTING OPTIONS

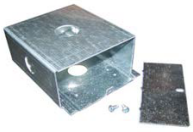
- **V-Clips (std)** - For dual point chain or cable hanging
- **SMBKIT** - Surface Mount V-Clip Brackets with 2" space above fixture
- **FMB** - Fixture Mounting Box - Includes rigid box to attach to the fixture, provides for single point mounting to accept a pendant, hook or conduit hub (sold separately).
- **HUB ¾ CONDUIT** - Conduit Hub ¾"
- **HOOK** - Cast iron hook for single point mount
- **HB-XX-18Y-PAD** - Adjustable Y-Toggle Cables Kit (60", 120", or 180")



V-Clips (std.)



SMBKIT



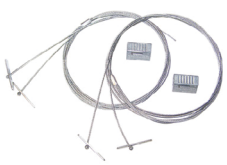
FMB



HUB ¾ CONDUIT



HOOK



HB-XX-18Y-PAD

PREMIUM HIGH BAY

INDUSTRIAL

PHOTOMETRIC REPORTS

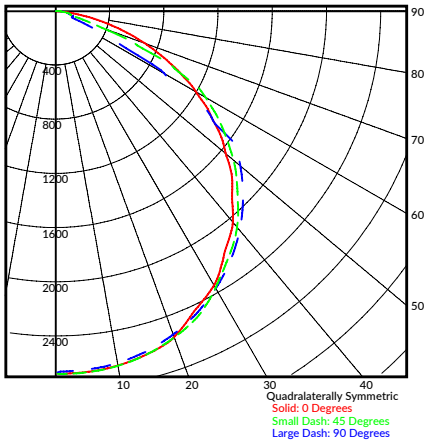
Photometric values based upon tests performed in compliance with LM-79. IES files can be downloaded at www.ilp-inc.com

PHB-50WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	99.9%
EFFICIENCY (Uplight):	0.1%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.29
SPACING CRITERION (90- Deg):	1.31
LUMENS/LAMP:	7433.67
INPUT WATTS:	50.72

PLANE AND CONE DIAGRAM

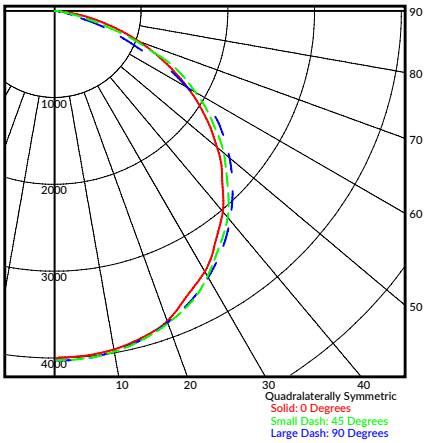


PHB-76WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.28
SPACING CRITERION (90- Deg):	1.31
LUMENS/LAMP:	11519.74
INPUT WATTS:	77.69

PLANE AND CONE DIAGRAM

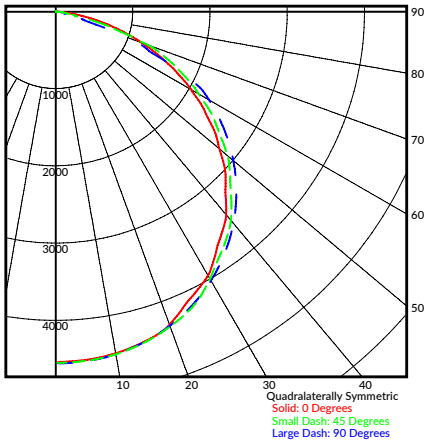


PHB-84WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	99.8%
EFFICIENCY (Uplight):	0.2%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.28
SPACING CRITERION (90- Deg):	1.31
LUMENS/LAMP:	13260.73
INPUT WATTS:	85.31

PLANE AND CONE DIAGRAM

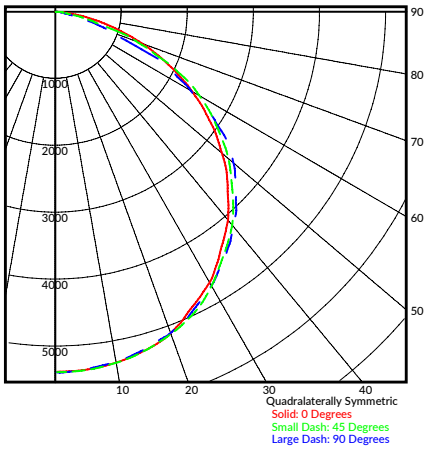


PHB-105WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.28
SPACING CRITERION (90- Deg):	1.31
LUMENS/LAMP:	15464.5
INPUT WATTS:	106.2

PLANE AND CONE DIAGRAM

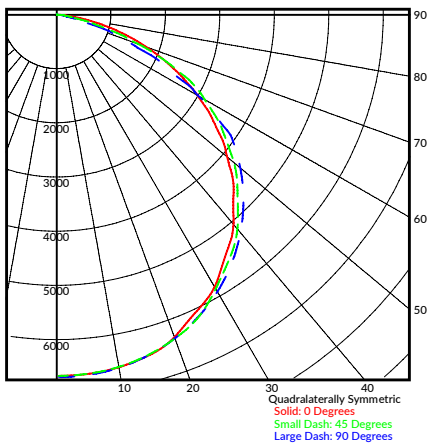


PHB-126WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	99.8%
EFFICIENCY (Uplight):	0.2%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.28
SPACING CRITERION (90- Deg):	1.31
LUMENS/LAMP:	19311.38
INPUT WATTS:	126.9

PLANE AND CONE DIAGRAM

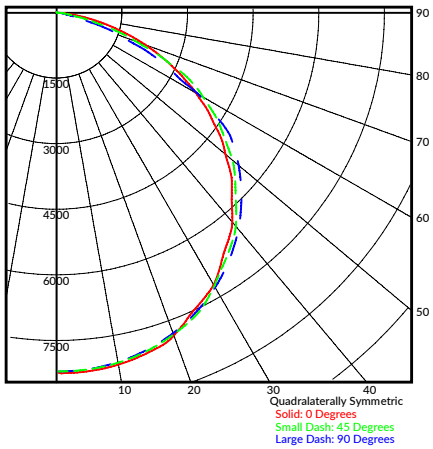


PHB-157WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	99.8%
EFFICIENCY (Uplight):	0.2%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.29
SPACING CRITERION (90- Deg):	1.31
LUMENS/LAMP:	23783.98
INPUT WATTS:	156.82

PLANE AND CONE DIAGRAM



PREMIUM HIGH BAY

INDUSTRIAL

PHOTOMETRIC REPORTS

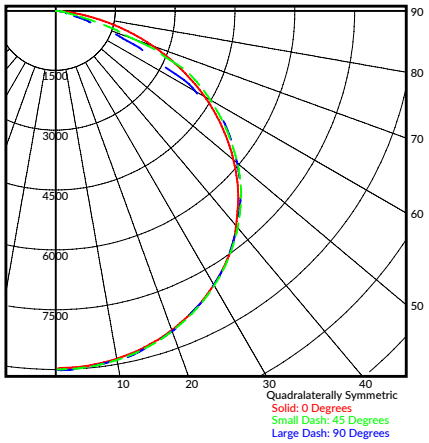
Photometric values based upon tests performed in compliance with LM-79. IES files can be downloaded at www.ilp-inc.com

PHB-168WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.31
SPACING CRITERION (90- Deg):	1.31
LUMENS/LAMP:	26258.46
INPUT WATTS:	171.23

PLANE AND CONE DIAGRAM

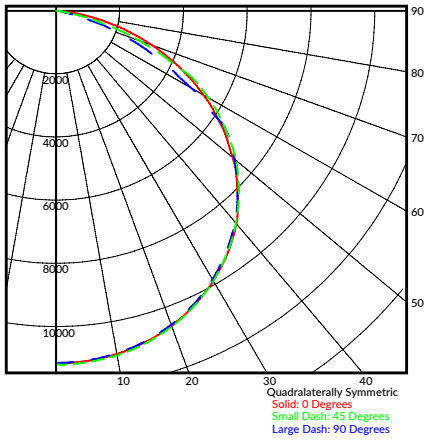


PHB-210WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.31
SPACING CRITERION (90- Deg):	1.31
LUMENS/LAMP:	32771.95
INPUT WATTS:	211

PLANE AND CONE DIAGRAM

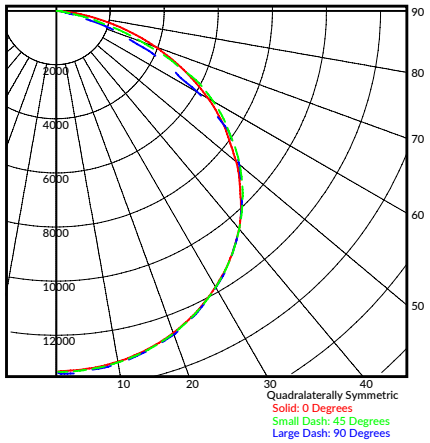


PHB-252WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.31
SPACING CRITERION (90- Deg):	1.32
LUMENS/LAMP:	39452.02
INPUT WATTS:	257.53

PLANE AND CONE DIAGRAM

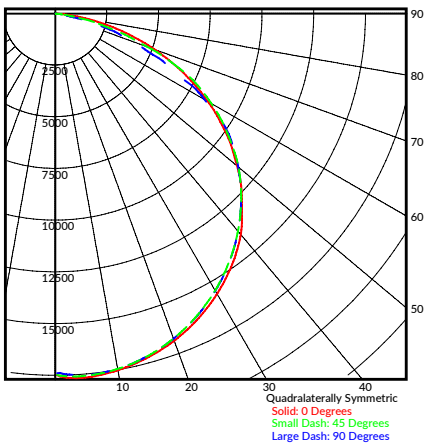


PHB-336WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.33
SPACING CRITERION (90- Deg):	1.32
LUMENS/LAMP:	52417.07
INPUT WATTS:	338

PLANE AND CONE DIAGRAM

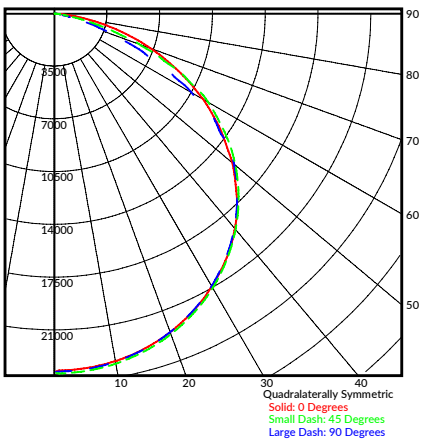


PHB-495WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.31
SPACING CRITERION (90- Deg):	1.30
LUMENS/LAMP:	69738.69
INPUT WATTS:	498.1

PLANE AND CONE DIAGRAM

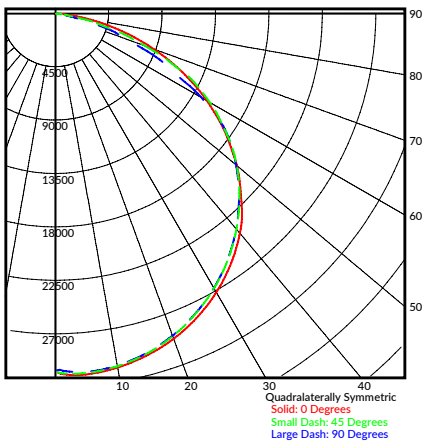


PHB-660WLED-UNIV-50

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.33
SPACING CRITERION (90- Deg):	1.31
LUMENS/LAMP:	90183.16
INPUT WATTS:	669.8

PLANE AND CONE DIAGRAM



PREMIUM HIGH BAY

INDUSTRIAL

PHOTOMETRIC REPORTS

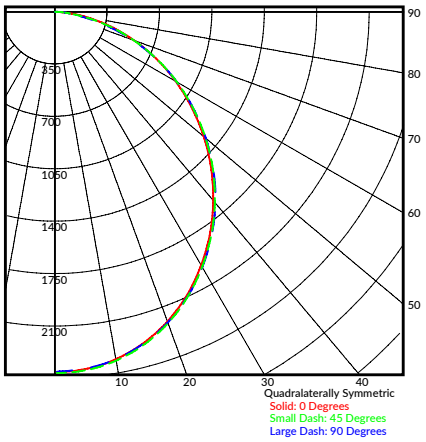
Photometric values based upon tests performed in compliance with LM-79. IES files can be downloaded at www.ilp-inc.com

PHB-50WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	99.9%
EFFICIENCY (Uplight):	0.1%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.21
SPACING CRITERION (90- Deg):	1.22
LUMENS/LAMP:	6411.68
INPUT WATTS:	50.79

PLANE AND CONE DIAGRAM

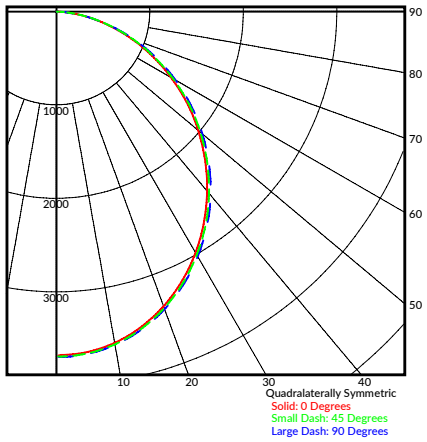


PHB-76WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.21
SPACING CRITERION (90- Deg):	1.22
LUMENS/LAMP:	9852.46
INPUT WATTS:	78.12

PLANE AND CONE DIAGRAM

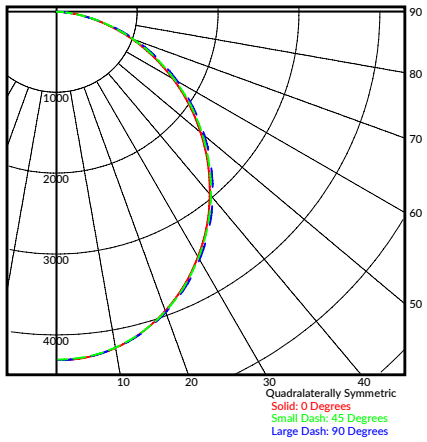


PHB-84WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.21
SPACING CRITERION (90- Deg):	1.23
LUMENS/LAMP:	11501.17
INPUT WATTS:	85.16

PLANE AND CONE DIAGRAM

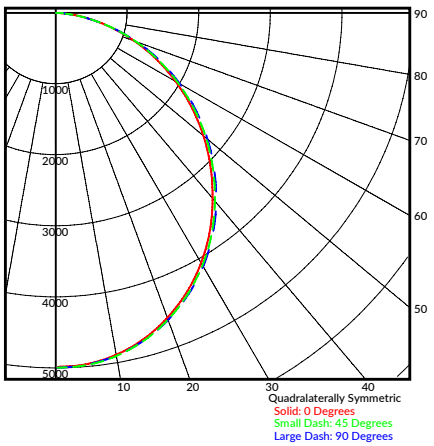


PHB-105WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.21
SPACING CRITERION (90- Deg):	1.23
LUMENS/LAMP:	13426.68
INPUT WATTS:	105.97

PLANE AND CONE DIAGRAM

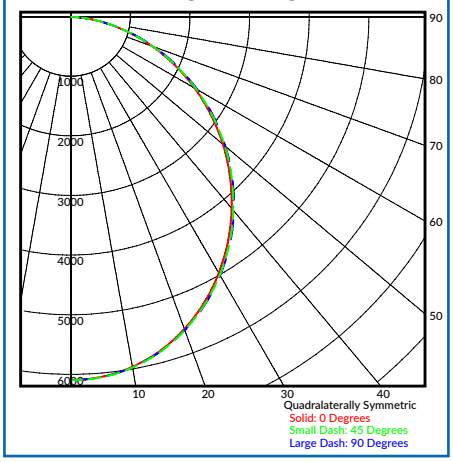


PHB-126WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.21
SPACING CRITERION (90- Deg):	1.22
LUMENS/LAMP:	16446.07
INPUT WATTS:	126.76

PLANE AND CONE DIAGRAM

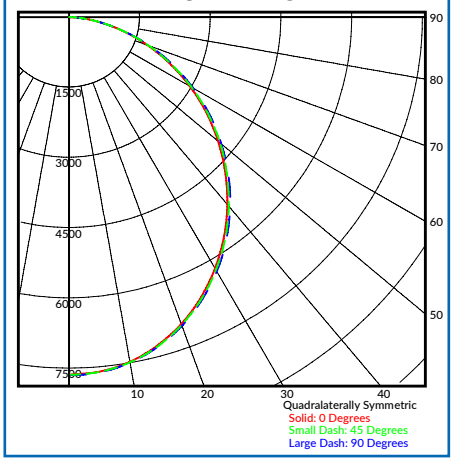


PHB-157WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.21
SPACING CRITERION (90- Deg):	1.22
LUMENS/LAMP:	20431.13
INPUT WATTS:	156.6

PLANE AND CONE DIAGRAM



PREMIUM HIGH BAY

INDUSTRIAL

PHOTOMETRIC REPORTS

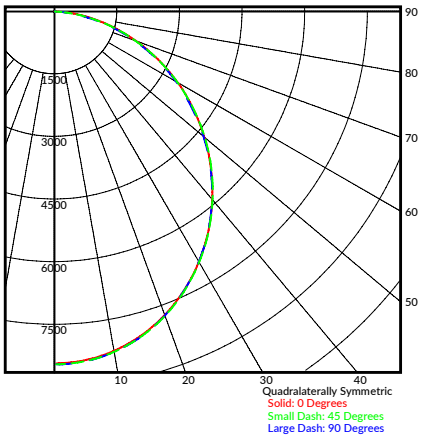
Photometric values based upon tests performed in compliance with LM-79. IES files can be downloaded at www.ilp-inc.com

PHB-168WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.22
SPACING CRITERION (90- Deg):	1.22
LUMENS/LAMP:	22932.58
INPUT WATTS:	174.24

PLANE AND CONE DIAGRAM

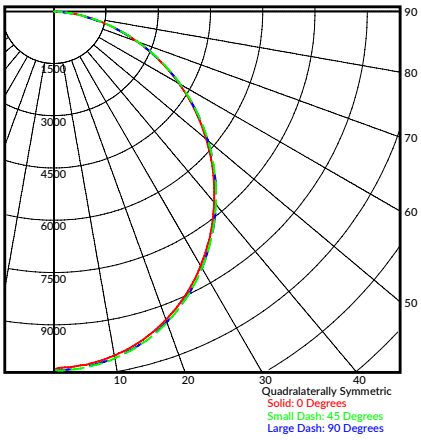


PHB-210WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.22
SPACING CRITERION (90- Deg):	1.23
LUMENS/LAMP:	28154.84
INPUT WATTS:	210.12

PLANE AND CONE DIAGRAM

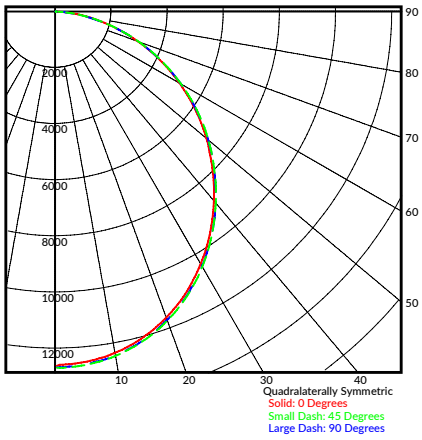


PHB-252WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.22
SPACING CRITERION (90- Deg):	1.23
LUMENS/LAMP:	34760.81
INPUT WATTS:	254.01

PLANE AND CONE DIAGRAM

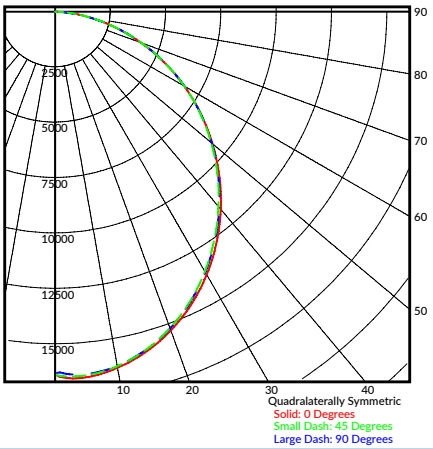


PHB-336WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.24
SPACING CRITERION (90- Deg):	1.23
LUMENS/LAMP:	45294.26
INPUT WATTS:	336.9

PLANE AND CONE DIAGRAM

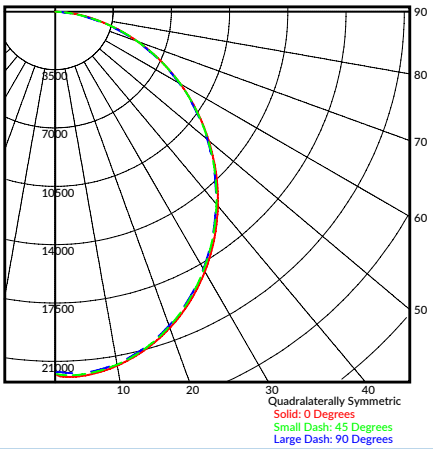


PHB-495WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.23
SPACING CRITERION (90- Deg):	1.22
LUMENS/LAMP:	58790.05
INPUT WATTS:	495.6

PLANE AND CONE DIAGRAM



PHB-660WLED-UNIV-50-FRL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	100.0%
EFFICIENCY (Uplight):	0.0%
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0- Deg):	1.22
SPACING CRITERION (90- Deg):	1.23
LUMENS/LAMP:	78261.98
INPUT WATTS:	665.14

PLANE AND CONE DIAGRAM

