

Project Name:	Part Number:	Type:
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# RECESSED 2X4 & 2X2

## COMMERCIAL T5HO & T8



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

### FEATURES

- 2X4 AND 2X2 Recessed Fixtures
- Specification Grade for New Construction or Renovation of any Building
- Multiple Reflector Options: 95% Enhanced Aluminum, 91% White Aluminum, White Formed Steel Ballast Cover
- Multiple Lamp and Ballast Options; T5, T5HO, or T8 and Super T8 High Efficiency
- Prismatic A12 Lens Standard
- Riveted Construction for Durability
- Die Formed 23 Ga Post Painted Steel Housing
- Lay in Grid
- Damp Listed
- Ample KOs on Back and Ends
- Tool-Less Ballast Access



### SUITABLE APPLICATIONS

- Hallways
- Offices
- Multi-purpose
- Gymnasiums

ENERGY EFFICIENT RECESSED FIXTURES WITH REFLECTORS AND HIGH BALLASTS

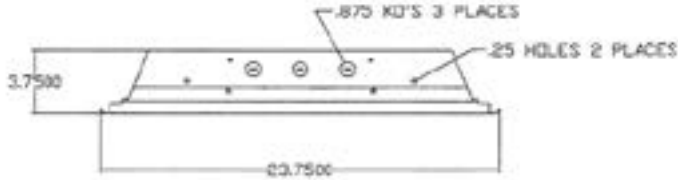
### ORDERING GUIDE:

Series	Reflector	Ballast	Options
<b>F2042</b> 2X4 2 lamp	<b>E</b> 95% Enhanced Reflector	<b>T5/H</b> T5HO	<b>P9</b> 9 Cell Parabolic (2X2 only)
<b>F2043</b> 2X4 3 lamp	<b>W</b> 91% White Reflector	<b>T5/N</b> F28T5 NPF	<b>P18</b> 18 Cell Parabolic (2X4 only)
<b>F2044</b> 2X4 4 lamp	<b>N</b> White Ballast Cover Only	<b>T8/L</b> T8 LPF	<b>P24</b> 24 Cell Parabolic (2X4 only)
<b>F2046</b> 2X4 6 lamp		<b>T8/N</b> T8 NPF	<b>LIXX</b> Lamp installed XX=lamp color (ex. L185=850 5000k)
		<b>T8/PSN</b> T8 NPF Program Start	<b>WC</b> 11 ga Wire Cage (2X4 Only)
<b>F2022</b> 2X2 2 lamp		<b>T8/H</b> T8 HPF	<b>CA</b> Clear Acrylic Lens .062"
<b>F2023</b> 2X2 3 lamp		<b>T8/PSH</b> T8 HPF Program Start	<b>CA</b> Clear Acrylic Lens .062"
<b>F2024</b> 2X2 4 lamp		<b>4H</b> 347-480V (T5HO only,	<b>PC</b> Polycarbonate Lens .062
<b>F2026</b> 2X2 6 lamp		T8 use SD480)	<b>CORDX</b> Cord X=Spec length
			<b>PLUG</b> Specified Type
			<b>MCWHIPX</b> Flexible conduit, X= specify length
			<b>EB</b> Extra Ballast
			<b>SD480</b> 480V Step down transformer

\*Does not qualify for DLC  
\*\*Reduces Max Ambient Temp  
\*Not offered for 495W or 660W

# RECESSED 2X4 & 2X2

## COMMERICAL T5HO & T8



### F2042-E-T8

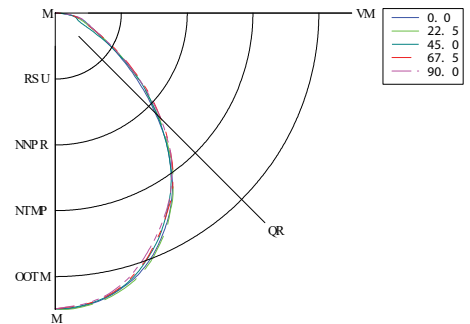
#### Luminaire Properties

Number of Lam ps: 2  
 Lumens Per La mp: 3050  
 Input Watts: 72  
 Distribution: Direct  
 Symmetry: Quadrilatera l  
 Photometric Ty pe: Type C  
 Luminous Shape : Re ctangle  
 Units: Feet  
 Luminous Dimensions :  
 0-180 Axis: 3.8  
 90-270 Axis : 1.8  
 Height: 0.00

#### Zonal Lumen Summary

Zone	Lu mens	% La mp	% Fixt ure
0-30	1897	31	35
0-40	2989	49	56
0-60	4630	76	86
0-90	5364	88	100
90-120	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	5364	88	100

#### Candela Plot



#### Coefficients of Utilization

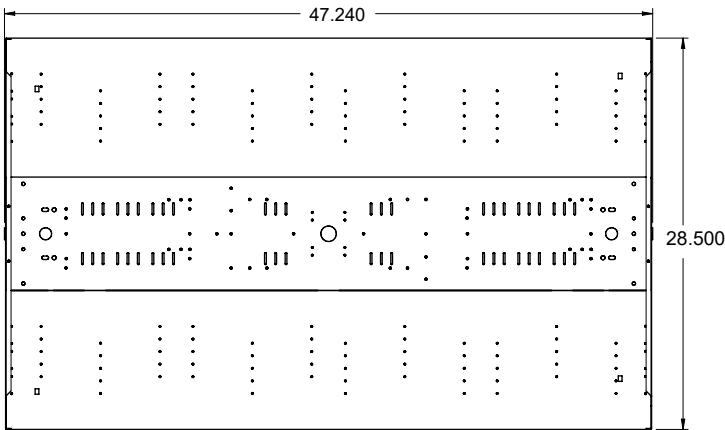
pfc=	0.20	0.80	0.30	0.10	0.70	0.50	0.30	0.10	0.50	0.30	0.10	0.50	0.30	0.10	0.00	0.10	0.00	0.00
pcc->	0.70	0.50	0.30	0.10	0.70	0.50	0.30	0.10	0.50	0.30	0.10	0.50	0.30	0.10	0.00	0.10	0.00	0.00
pw->	0.70	0.50	0.30	0.10	0.70	0.50	0.30	0.10	0.50	0.30	0.10	0.50	0.30	0.10	0.00	0.10	0.00	0.00
RC R	0	105	105	105	105	103	103	103	103	98	98	98	94	94	94	90	90	90
1	97	93	90	87	95	91	88	85	88	85	83	84	82	80	77	77	77	77
2	89	83	77	73	87	81	76	72	78	74	70	75	72	69	66	66	66	66
3	82	74	67	62	80	73	67	62	70	65	61	68	63	60	57	57	57	57
4	76	66	59	54	74	65	59	54	63	57	53	61	56	52	50	50	50	50
5	71	60	53	47	69	59	52	47	57	51	47	56	50	46	44	44	44	44
6	66	55	47	42	64	54	47	42	52	46	42	51	45	41	39	39	39	39
7	61	50	43	38	60	49	42	38	48	42	37	47	41	37	35	35	35	35
8	57	46	39	34	56	45	39	34	44	38	34	43	38	33	32	32	32	32
9	54	42	35	31	52	42	35	31	41	35	31	40	34	30	29	29	29	29
10	50	39	33	28	49	39	32	28	38	32	28	37	32	28	26	26	26	26

# RECESSED 2X4 & 2X2

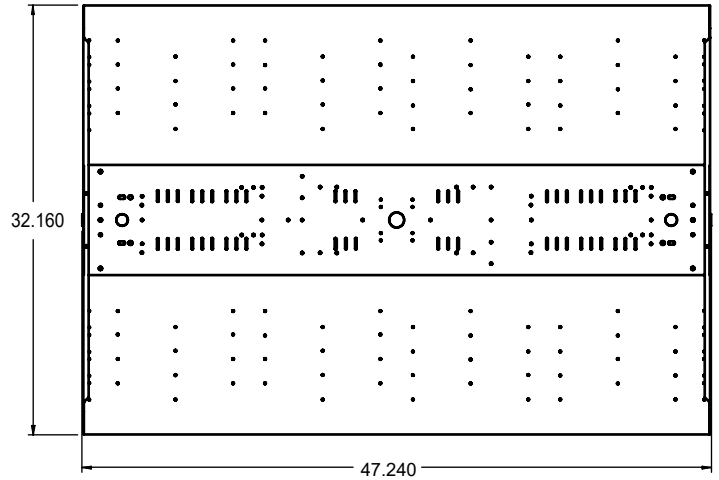
## COMMERICAL

### LINE DRAWINGS

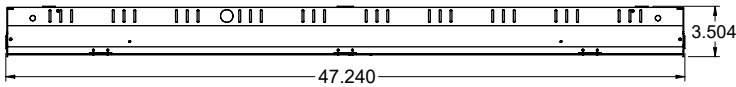
168W - 252W & 495W : Top View



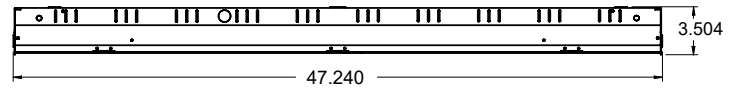
336W & 660W : Top View



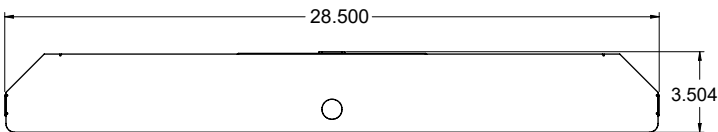
Side View



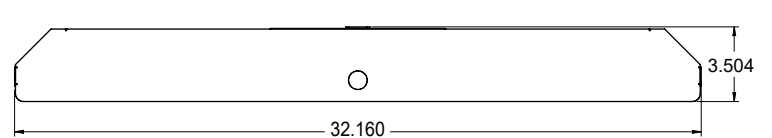
Side View



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 3/4 CONDUIT** - Conduit Hub 3/4"
- **HOOK** - Cast iron hook for single point mount
- **HB-XX-18Y-PAD** - Adjustable Y-Toggle Cables Kit (60", 120", or 180")



SMBKIT



FMB



HUB 3/4 CONDUIT



HOOK



HB-XX-18Y-PAD

# RECESSED 2X4 & 2X2

## COMMERCIAL

### PHOTOMETRIC REPORTS

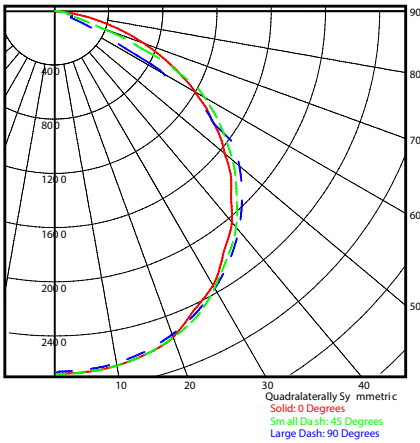
Photometric values based upon tests performed in compliance with LM-79. IES files can be downloaded at [www.ilp-inc.com](http://www.ilp-inc.com)

#### 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

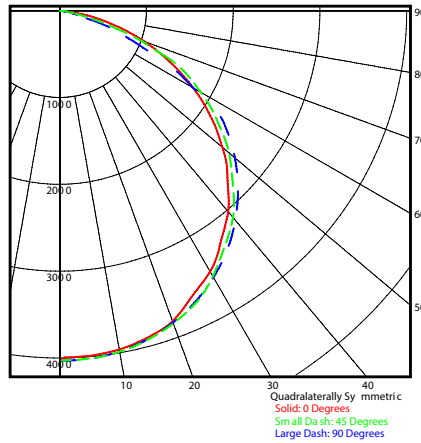


#### PHB-76WLED-UNIV-50

##### 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

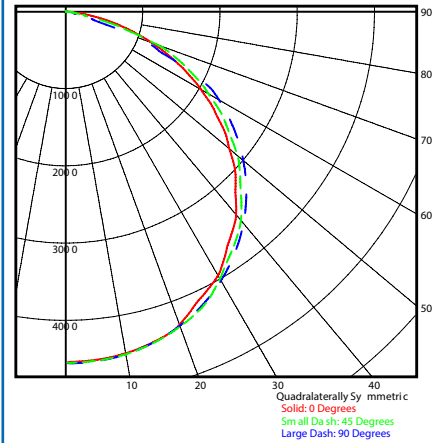


#### PHB-84WLED-UNIV-50

##### 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

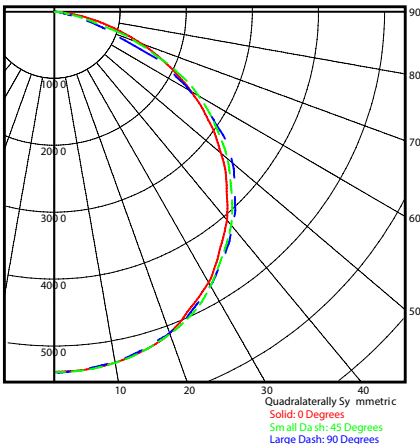


#### PHB-105WLED-UNIV-50

##### 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

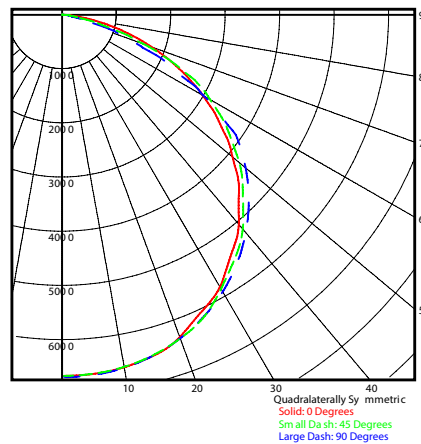


#### PHB-126WLED-UNIV-50

##### 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

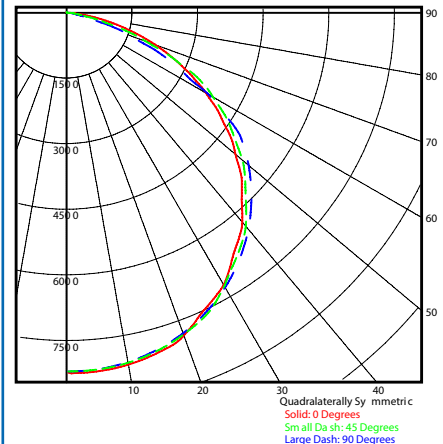


#### PHB-157WLED-UNIV-50

##### 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



# RECESSED 2X4 & 2X2

## COMMERCIAL

### PHOTOMETRIC REPORTS

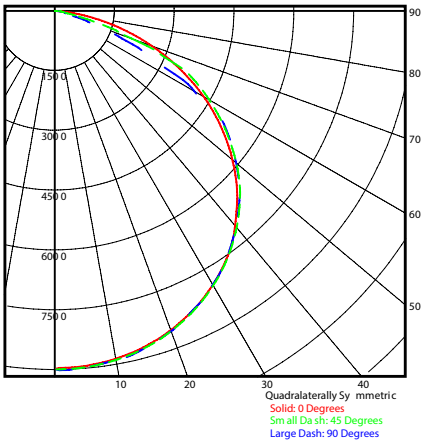
Photometric values based upon tests performed in compliance with LM-79. IES files can be downloaded at [www.ilp-inc.com](http://www.ilp-inc.com)

#### 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

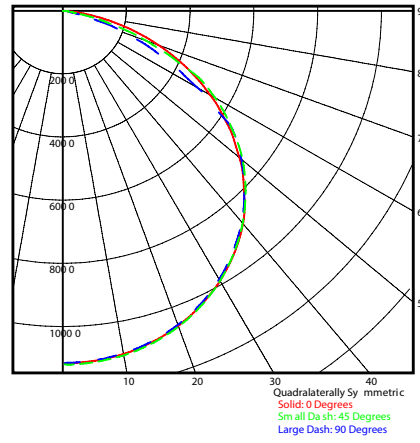


#### PHB-210WLED-UNIV-50

##### 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

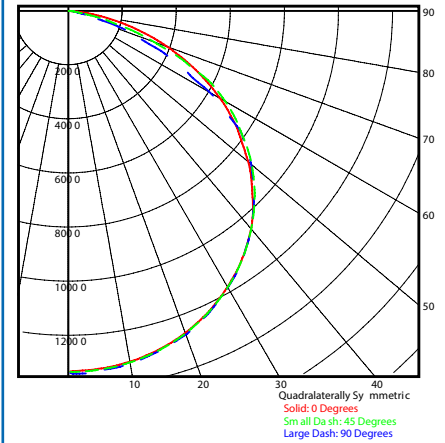


#### PHB-252WLED-UNIV-50

##### 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

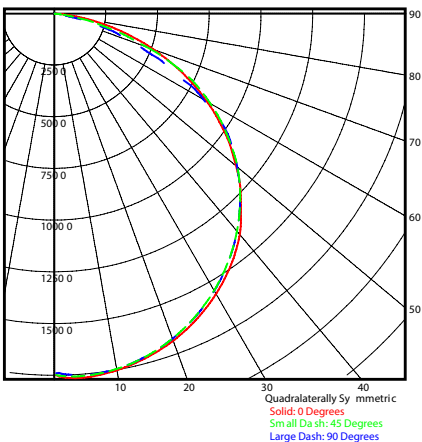


#### PHB-336WLED-UNIV-50

##### 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

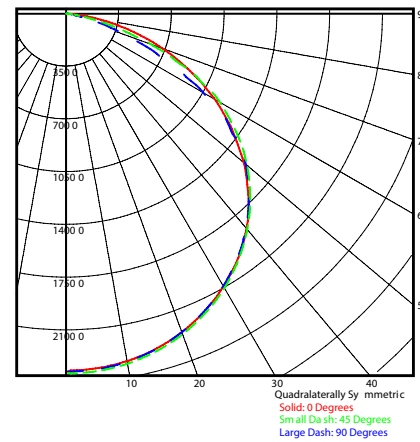


#### PHB-495WLED-UNIV-50

##### 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

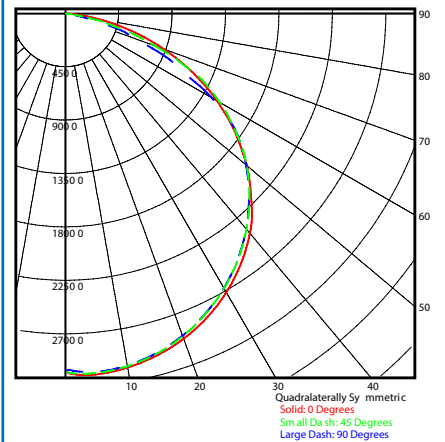


#### PHB-660WLED-UNIV-50

##### 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



# RECESSED 2X4 & 2X2

## COMMERICAL

### PHOTOMETRIC REPORTS

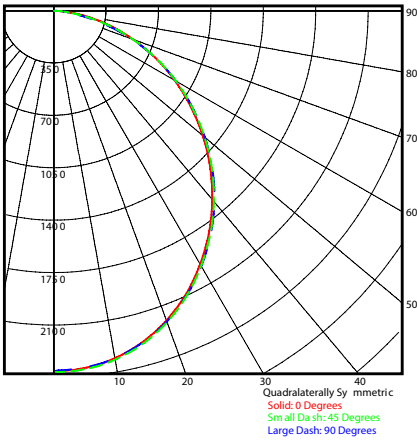
Photometric values based upon tests performed in compliance with LM-79. IES files can be downloaded at [www.ilp-inc.com](http://www.ilp-inc.com)

#### 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

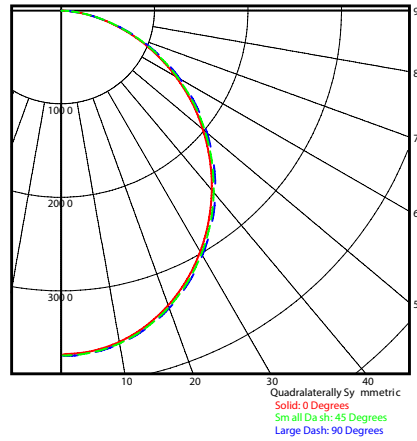


#### PHB-76WLED-UNIV-50-FRL

##### 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

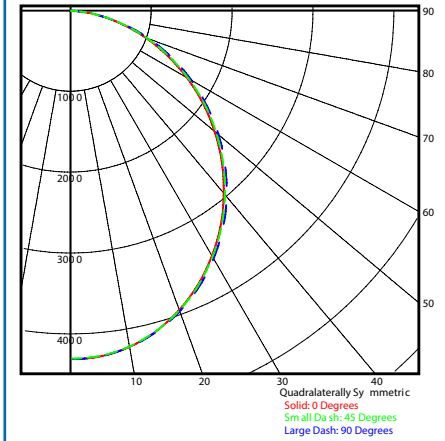


#### PHB-84WLED-UNIV-50-FRL

##### 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

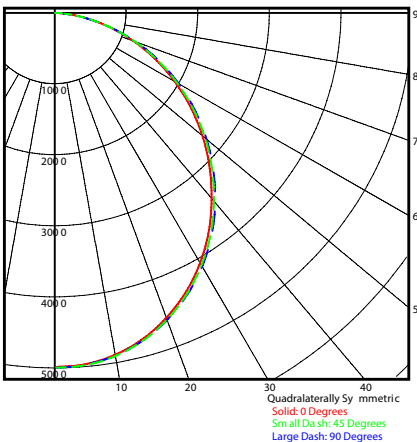


#### PHB-105WLED-UNIV-50-FRL

##### 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

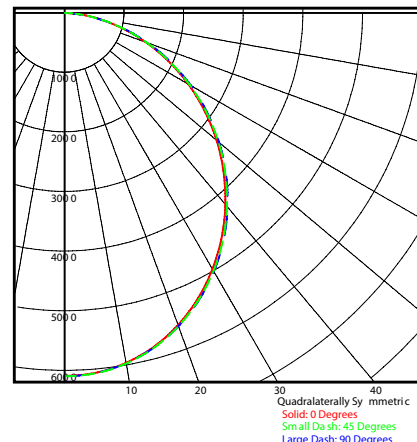


#### PHB-126WLED-UNIV-50-FRL

##### 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

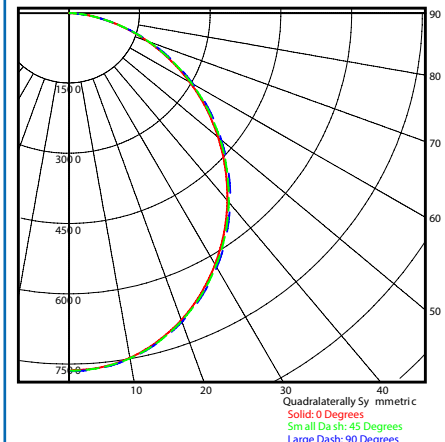


#### PHB-157WLED-UNIV-50-FRL

##### 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



# RECESSED 2X4 & 2X2

## COMMERICAL

### PHOTOMETRIC REPORTS

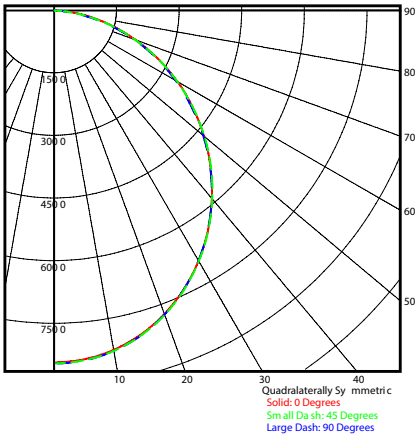
Photometric values based upon tests performed in compliance with LM-79. IES files can be downloaded at [www.ilp-inc.com](http://www.ilp-inc.com)

#### 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

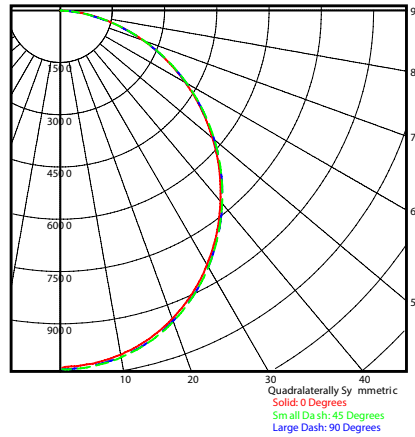


#### PHB-210WLED-UNIV-50-FRL

##### 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

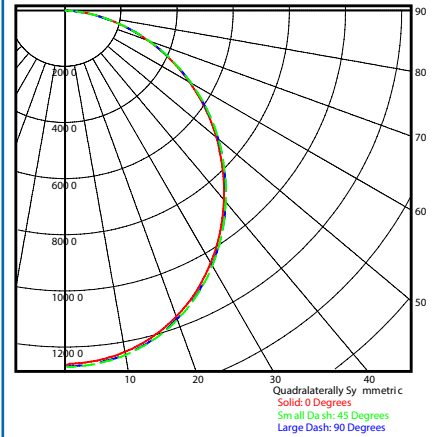


#### PHB-252WLED-UNIV-50-FRL

##### 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

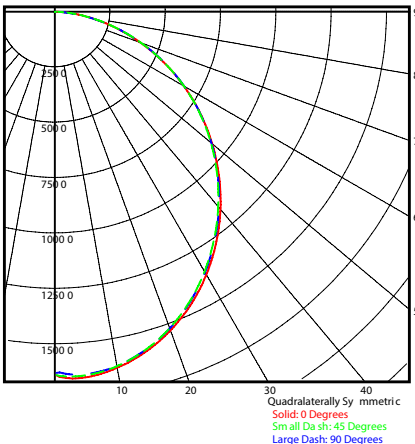


#### PHB-336WLED-UNIV-50-FRL

##### 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

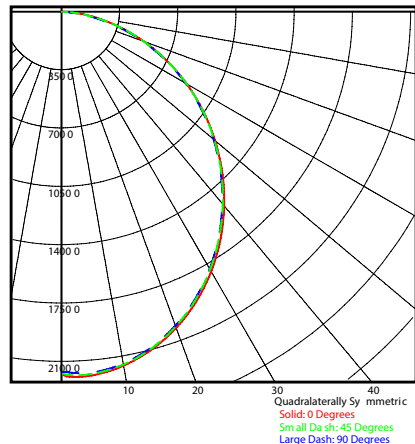


#### PHB-495WLED-UNIV-50-FRL

##### 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

