

# 5/50 Ellipsoidals 5°, 10°, 15°, 20°, 30°, 40°, 50°, Zoom



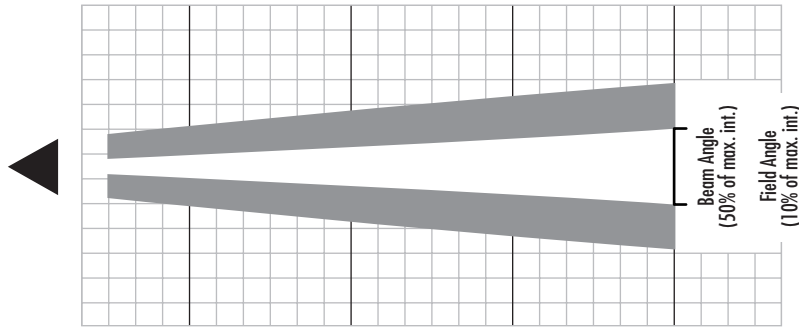
## FEATURES

- Insulated handle centers lamp within reflector
  - Lamp housing secured by bottom insulated handle
  - Peak/Flat fields easily achieved by moving lamp housing within reflector housing
  - Lamp housing removes completely for easy lamp replacement
  - Yoke hardware includes positive locking clutch disk for tilt control
  - Shutters equipped with thermal insulated fingerholes
  - Lens tube moves outside of shroud and is secured by top insulated handle
  - Rugged DIE-CAST lens tube mounts 6" diameter lens. Includes integral color frame holder
- 5°** - Rugged lens tube mounts 1 - 10" diameter lens. Includes integral color frame holder
- 10°** - Rugged lens tube mounts 1 - (8"x14") diameter lens. Includes integral color frame holder
- 15°** - Rugged DIE-CAST lens tube mounts the 6" diameter lens. Includes integral color frame holder
- 20°** - Rugged DIE-CAST lens tube mounts 6" diameter lens. Includes integral color frame holder
- 30°** - Rugged DIE-CAST lens tube mounts ALL 4-1/2 AND 6" diameter lens. Includes integral color frame holder  
- Achieves 20°, 30° or 40° by relocating lenses
- 40°** - Rugged lens tube mounts ALL 4-1/2" AND 6" diameter lens. Includes integral color frame holder  
- Achieves 20°, 30° or 40° reconfiguration by relocating lenses
- 50°** - Rugged lens tube mounts the 4-1/2" diameter lens. Includes integral color frame holder
- Zoom** - Rugged die-cast lens holders mount all 4-1/2" and 6" diameter lens  
- Variable field range between 15° - 35°

## PRODUCT DATA

### 5° Peak Focus

Illumination at Beam Center (footcandles)	77	65	55	48
Field Diameter (feet)	9.9	10.8	11.7	12.6
Distance (feet)	110	120	130	140

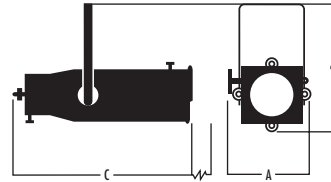


Distance (meters)	30	35	40	45
Field Diameter (meters)	2.7	3.2	3.6	4.1
Illumination at Beam Center (lux)	1043	766	586	463

#### Photometric Performance

- 5/50 Series 5° Ellipsoidal w/1000W Lamp No. 176-033, FEL
- For illumination from any distance, divide candlepower by the distance squared
- For field diameter at a specific distance, multiply field multiplier by distance

Field Angle	Beam Angle	Candlepower Peak (Cosine)	Field Multiplier
5°	3.3°	939,000(938,000)	.09

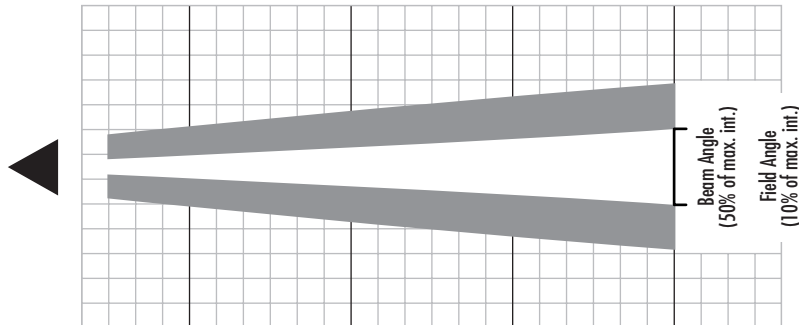


#### Dimensional Data - in. [cm] lbs. [kg]

A	15.0 [38.10]
B	40.5 [102.87]
C	25.5 [64.77]
Weight	30.1 [13.65]

### 10° Peak Focus

Illumination at Beam Center (footcandles)	186	115	78	56
Field Diameter (feet)	9.4	11.9	14.5	17.0
Distance (feet)	55	70	85	100

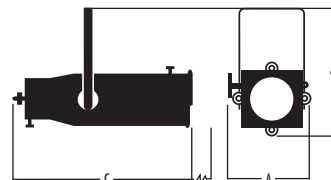


Distance (meters)	15	20	25	30
Field Diameter (meters)	2.6	3.4	4.3	5.1
Illumination at Beam Center (lux)	2502	1407	900	625

#### Photometric Performance

- 5/50 Series 10° Ellipsoidal w/1000W Lamp No. 176-033, FEL
- For illumination from any distance, divide candlepower by the distance squared
- For field diameter at a specific distance, multiply field multiplier by distance

Field Angle	Beam Angle Peak (Cosine)	Candlepower Peak (Cosine)	Field Multiplier
10°	5.8° (6.7°)	563,000(563,000)	.14

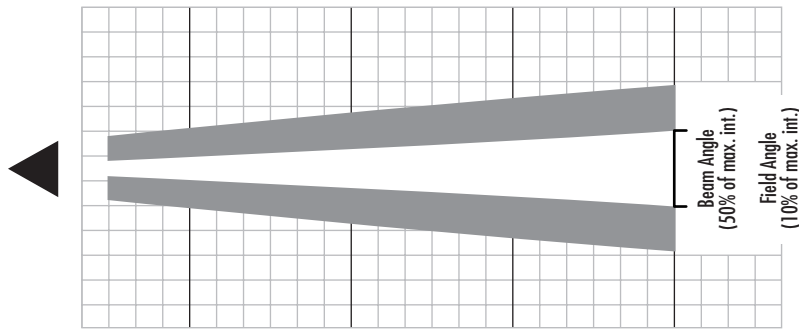


#### Dimensional Data - in. [cm] lbs. [kg]

A	15.0 [38.10]
B	29.5 [74.90]
C	25.5 [64.77]
Weight	20.9 [9.48]

### 15° Peak Focus

Illumination at Beam Center (footcandles)	120	85	62	48
Field Diameter (feet)	13.3	15.8	18.5	21.1
Distance (feet)	50	60	70	80

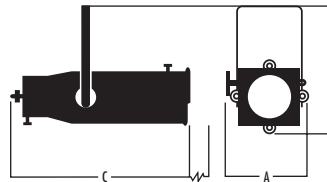


Distance (meters)	13	17	21	25
Field Diameter (meters)	3.4	4.5	5.5	6.6
Illumination at Beam Center (lux)	1810	1055	694	490

#### Photometric Performance

- 5/50 Series 15° Ellipsoidal w/1000W Lamp No. 176-033, FEL
- For illumination from any distance, divide candlepower by the distance squared
- For field diameter at a specific distance, multiply field multiplier by distance

Field Angle	Beam Angle Peak (Cosine)	Candlepower Peak (Cosine)	Field Multiplier
15°	6.8(10.0°)	306,000(286,000)	.26

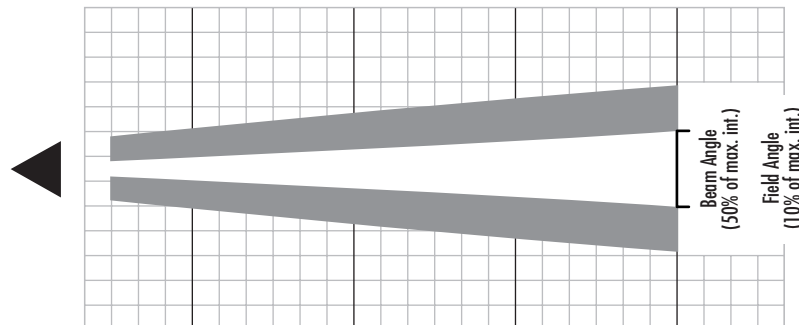


#### Dimensional Data - in. [cm] lbs. [kg]

A	15.0 [38.10]
B	29.5 [74.90]
C	25.5 [64.77]
Weight	19.3 [8.75]

### 20° Peak Focus

Illumination at Beam Center (footcandles)	249	140	90	62
Field Diameter (feet)	10.5	14.0	17.5	21.0
Distance (feet)	30	40	50	60

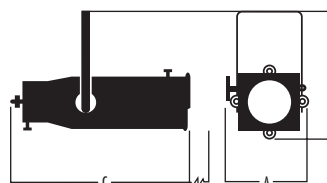


Distance (meters)	10	12.5	15	17.5
Field Diameter (meters)	3.5	4.4	5.3	6.1
Illumination at Beam Center (lux)	2240	1434	996	731

#### Photometric Performance

- 5/50 Series 20° Ellipsoidal w/1000W Lamp No. 176-033, FEL
- For illumination from any distance, divide candlepower by the distance squared
- For field diameter at a specific distance, multiply field multiplier by distance

Field Angle	Beam Angle Peak (Cosine)	Candlepower Peak (Cosine)	Field Multiplier
20°	8.3(15.3°)	224,000(171,000)	.35



#### Dimensional Data - in. [cm] lbs. [kg]

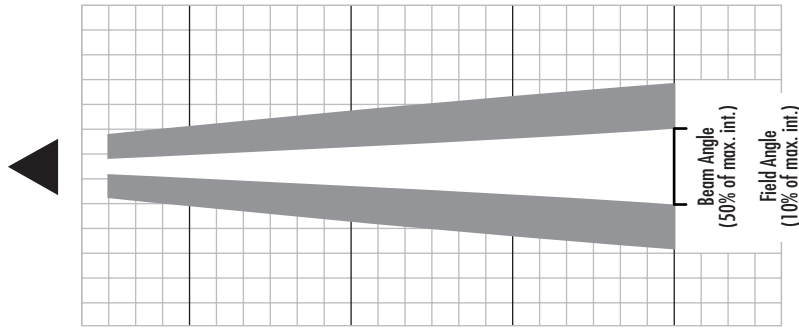
A	15.0 [38.10]
B	28.0 [71.12]
C	25.5 [64.77]
Weight	19.7 [8.93]

### Leviton Mfg. Co., Inc. Lighting Management Systems

## PRODUCT DATA

### 30° Peak Focus

Illumination at Beam Center (footcandles)	385	171	96	62
Field Diameter (feet)	10.8	16.2	21.6	27.0
Distance (feet)	20	30	40	50

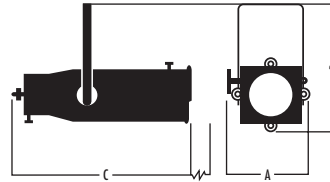


Distance (meters)	7	11	15	19
Field Diameter (meters)	3.8	5.9	8.1	6.3
Illumination at Beam Center (lux)	3143	1273	684	427

#### Photometric Performance

- 5/50 Series 30° Ellipsoidal w/1000W Lamp No. 176-033, FEL
- For illumination from any distance, divide candlepower by the distance squared
- For field diameter at a specific distance, multiply field multiplier by distance

Field Angle	Beam Angle Peak (Cosine)	Candlepower Peak (Cosine)	Field Multiplier
30°	11.0(20.0°)	154,000(118,000)	.54

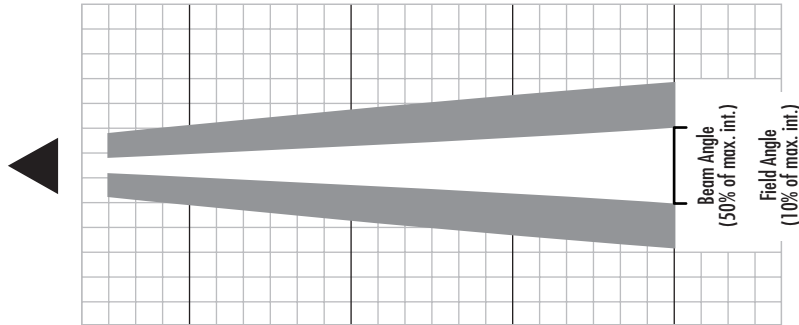


#### Dimensional Data - in. [cm] lbs. [kg]

A	15.0 [38.10]
B	28.0 [71.12]
C	25.5 [64.77]
Weight	20.9 [9.48]

### 40° Peak Focus

Illumination at Beam Center (footcandles)	687	172	76	43
Field Diameter (feet)	9.3	18.6	27.9	37.2
Distance (feet)	15	25	35	45

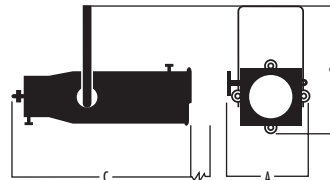


Distance (meters)	3	7	11	15
Field Diameter (meters)	2.2	5.1	8.0	11.0
Illumination at Beam Center (lux)	2285	1244	925	498

#### Photometric Performance

- 5/50 Series 40° Ellipsoidal w/1000W Lamp No. 176-033, FEL
- For illumination from any distance, divide candlepower by the distance squared
- For field diameter at a specific distance, multiply field multiplier by distance

Field Angle	Beam Angle Peak (Cosine)	Candlepower Peak (Cosine)	Field Multiplier
40°	15.0(26.7°)	112,000(48,000)	.73

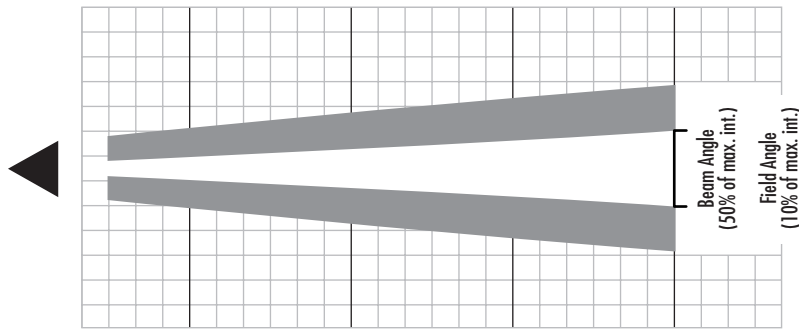


#### Dimensional Data - in. [cm] lbs. [kg]

A	15.0 [38.10]
B	28.0 [71.12]
C	25.5 [64.77]
Weight	20.3 [9.20]

**50° Peak Focus**

Illumination at Beam Center (footcandles)	687	172	76	43
Field Diameter (feet)	9.3	18.6	27.9	37.2
Distance (feet)	10	20	30	40

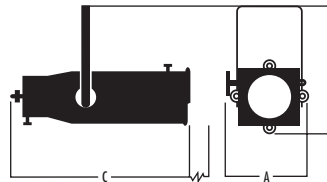


Distance (meters)	3	7	11	12.5
Field Diameter (meters)	2.8	5.6	8.4	11.2
Illumination at Beam Center (lux)	7633	1908	872	477

**Photometric Performance**

- 5/50 Series 50° Ellipsoidal w/1000W Lamp No. 176-033, FEL
- For illumination from any distance, divide candlepower by the distance squared
- For field diameter at a specific distance, multiply field multiplier by distance

Field Angle	Beam Angle Peak (Cosine)	Candlepower Peak (Cosine)	Field Multiplier
50°	17.5(26.7°)	68,200(27,000)	.73

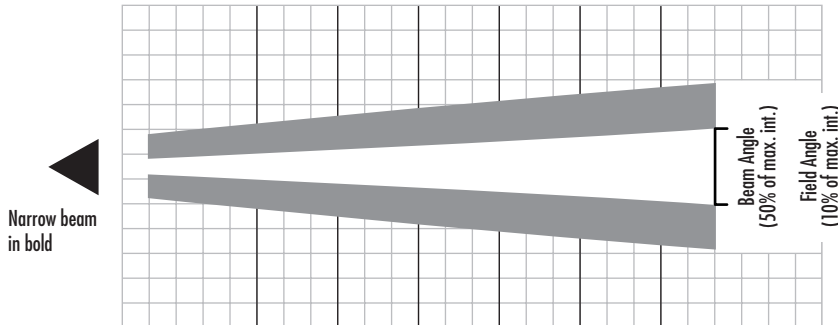


**Dimensional Data - in. [cm] lbs. [kg]**

A	15.0 [38.10]
B	28.0 [71.12]
C	25.5 [64.77]
Weight	20.9 [9.48]

**Zoom Peak Focus**

Distance (meters)	6	9	12	15	18	21
Diameter Beam/Field (meters)	1.5/3.8	2.2/5.7	2.9/7.6	3.7/9.5	<b>5.2/13.2</b>	<b>6.6/16.8</b>
Illumination (lux at beam center)	3778	1679	<b>944</b>	<b>604</b>	<b>333</b>	<b>212</b>

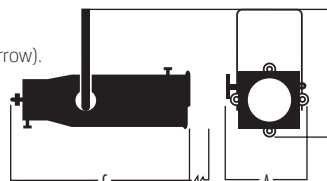


Distance (feet)	20	30	40	50	60	70
Diameter Beam/Field (feet)	4.9/12.6	7.4/18.9	<b>9.8/25.2</b>	<b>12.3/31.5</b>	<b>15.8/40.8</b>	<b>18.4/46.7</b>
Illumination (f.c. at beam center)	340	151	<b>85</b>	<b>54.4</b>	<b>33.3</b>	<b>21.2</b>

**Photometric Performance**

- Photometric Data 1000W lamp No. 176-033 ANSI code FEL
- For field diameter at any distance, multiply that distance by 0.63(wide) and 0.26(narrow).
- For illumination at any distance, divide 270,000 by the distance squared (wide) or divide 136,000 by the distance squared (narrow).

Field Angle	Efficiency Peak (Cosine)	Candlepower Peak (Cosine)
Wide	8559(9299)	136,000(82,000)
Narrow	6649(7106)	270,000(206,000)



**Dimensional Data - in. [cm] lbs. [kg]**

A	15.0 [38.10]
B	28.0 [71.12]
C	25.5 [64.77]
Weight	20.5 [9.2]

**Leviton Mfg. Co., Inc. Lighting Management Systems**

## PRODUCT DATA

### SPECIFICATIONS

- Housing shall be constructed of die-cast aluminum, sheet steel and aluminum, with a high temperature black finish.

### MECHANICAL

- Optical Train consists of a medium two-pin socket accommodating 500-1000 watt tungsten halogen lamps, specular Alzak® double-flatted elliptical reflector and plano convex lense(s) of low expansion, borosilicate glass.

- 5° - Lens configuration 1-(10"x23") will provide a field angle of 5°.
- 10° - Lens configuration 1-(8"x14") will provide a field angle of 10°.
- 15° - Lens configuration 1-(6"x12") will provide a field angle of 15°.
- 20° - Lens configuration 1-(6"x9") will provide a field angle of 20°.
- 30° - Lens configuration 1-(4-1/2" x 9", 6"x 9") will provide a field angle of 30°.
- 40° - Lens configuration 1-(4-1/2"x9", 6"x9") will provide a field angle of 40°.
- 50° - Lens configuration 2-(4-1/2" x 6-1/2") will provide a field angle of 50°.
- Zoom** - Lens configurations of one 4.5" x 9" and one 6" x 12" shall be operator adjustable to achieve 15°-35° field angles. Lens focus handles shall be thermally insulated.
- The gate assembly contains four adjustable nickel/chromium stainless steel framing shutters and a pattern slot. Each shutter operates in an independent plane, with plus or minus 30° of rotation throughout the gate. Maximum angular rotation between adjacent shutters is 120°. Shutter blades are equipped with thermally insulated handles with fingerholes. Optional customer-installed Iris assembly is available.
- The socket assembly is designed for a rapid filament alignment by use of a thermoplastic focus handle on socket housing which permits precise peak/flat field control. The entire assembly may be removed without tools for lamp replacement.

- Socket shall be precision type TP-22 UL recognized, steatite insulated, die-cast aluminum construction rated 600 volts, 1000 watts, 250°C, continuous operation. Lamp seal temperatures will not be exceeded.

- 5° - Performance with 1000 watt, 200 hour 3200°k lamp shall be 939,000 beam candlepower with 5° field, as shown in reference chart.
- 10° - Performance with 1000 watt, 200 hour 3200°k lamp shall be 563,000 beam candlepower with 10° field, as shown in reference chart.
- 15° - Performance with 1000 watt, 200 hour 3200°k lamp shall be 306,000 beam candlepower with 15° field, as shown in reference chart.
- 20° - Performance with 1000 watt, 200 hour 3200°k lamp shall be 224,000 beam candlepower with 20° field, as shown in reference chart.
- 30° - Performance with 1000 watt, 200 hour 3200°k lamp shall be 154,000 beam candlepower with 30° field, as shown in reference chart.
- 40° - Performance with 1000 watt, 200 hour 3200°k lamp shall be 112,000 beam candlepower with 40° field, as shown in reference chart.
- 50° - Performance with 750 watt, 200 hour 3200°k lamp shall be 68,500 beam candlepower with 50° field, as shown in reference chart.

- Zoom** - Performance with 1000 watt, 300 hour, 3200°K (ANSI code FEL) lamp shall be 270,000 beam candlepower in peak focus with a 15° field angle, and 136,000 beam candlepower in peak focus with a 35° field angle.

- Mounting unit is provided with heavy steel yoke, painted malleable iron C-Clamp for up to 2" I.D. pipe with a tapped and threaded hanger pin. Fixtures will rotate vertically through the yoke for simple focusing.

### ELECTRICAL

- The electrical unit shall be provided with 3/8" 3-wire VHT leads, with connector as specified by option number. Fixture is UL listed and CS Certified.

CAT. NO.	DESCRIPTION
oEL05-50B	5 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, Bare Wire
oEL05-22B	5 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Male Stage Pin installed
oEL05-42B	5 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 15A Edison Plug Installed
oEL05-62B	5 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Locking Plug Installed
oEL10-50B	10 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, Bare Wire
oEL10-22B	10 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Male Stage Pin installed
oEL10-42B	10 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 15A Edison Plug Installed
oEL10-62B	10 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Locking Plug Installed
oEL15-50B	15 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, Bare Wire
oEL15-50W	15 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, Bare Wire - WHITE
oEL15-22B	15 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Male Stage Pin installed
oEL15-22W	15 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Male Stage Pin installed - WHITE
oEL15-42B	15 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 15A Edison Plug Installed
oEL15-42W	15 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 15A Edison Plug - WHITE
oEL15-62B	15 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Locking Plug Installed
oEL15-62W	15 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Locking Plug - WHITE
oEL20-50B	20 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, Bare Wire
oEL20-22B	20 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Male Stage Pin installed
oEL20-42B	20 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 15A Edison Plug Installed
oEL20-62B	20 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Locking Plug Installed
oEL30-50B	30 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, Bare Wire
oEL30-50W	30 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, Bare Wire - WHITE
oEL30-22B	30 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Male Stage Pin installed
oEL30-22W	30 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Male Stage Pin installed - WHITE
oEL30-42B	30 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 15A Edison Plug Installed
oEL30-42W	30 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 15A Edison Plug - WHITE
oEL30-62B	30 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Locking Plug Installed
oEL30-62W	30 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Locking Plug - WHITE
oEL40-50B	40 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, Bare Wire
oEL40-50W	40 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, Bare Wire - WHITE
oEL40-22B	40 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Male Stage Pin installed
oEL40-42B	40 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 15A Edison Plug Installed
oEL40-62B	40 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Locking Plug Installed
oEL40-62W	40 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Locking Plug - WHITE
oEL50-50B	50 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, Bare Wire
oEL50-50W	50 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, Bare Wire - WHITE
oEL50-22B	50 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Male Stage Pin installed
oEL50-42B	50 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 15A Edison Plug Installed
oEL50-62B	50 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Locking Plug Installed
oEL50-62W	50 Degree Ellipsoidal with "C" Clamp, Color Frame, and Safety Cable, 20A Locking Plug - WHITE

**Leviton Mfg. Co., Inc. Lighting Management Systems**

20497 SW Teton Avenue, Portland, OR 97062 1-800-736-6682 Tech Line: 1-800-959-6004 Fax: 503-404-5594 www.leviton.com/lms  
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CAT. NO.	DESCRIPTION
<b>ACCESSORIES</b>	
A5KCF-000	Color Frame - 5 deg Ellipsoidal/10" 5K Fresnel (12" frame)
A2KCF-000	Color Frame for 8" Fresnel, 10 Degree 5/50 Ellipsoidal
AELGP-H00	Glass Pattern Holder, 6" Ellipsoidal
AELIK-000	Iris Assembly Kit for 5/50 Ellipsoidal
AELPH-000	Pattern Holder, 6" Ellipsoidal
ABRBD-000	Four Leaf Barndoor, Broad
ABRCF-000	Color Frame, Broad
AELCF-000	6" Color Frame
SMP-10436-02	T-Handle for standard C-Clamp
TAoCC-000	C-Clamp for 1 1/2" ID pipe
TAoCS-000	Combo Stud - Flat Yoke
TAoSC-000	Safety Cable 30"
AS153-380	Retaining Latch Replacement, Mini-Pro
CTP-1-9701	Operating Pole
AELDO-000	Donut, 6"
<b>LAMPS</b>	
LoFEL-000	FEL 1000W 120V 3200K 300HR
LoFEP-220	FEP/CP77 1000W 220V 3200K 250HR
LoFEP-240	FEP/CP77 1000W 240V 250HR
LoEHF-000	EHF 750W 3000K 120V 300HR
LoEHG-000	EHG 750W 120V 3000K 2000HR
LoEHB-000	EHB 500W 120V 3200K 500HR
LoEHD-000	EHD 500W 120V 3000K
LoFLK-000	FLK 575W 115V 3200K 300HR HX-600

LEVITON SPECIFICATION SUBMITTAL	
JOB NAME:	CATALOG NUMBERS:
JOB NUMBER:	

**Leviton Manufacturing Co., Inc. Lighting Management Systems**

20497 SW Teton Avenue, Portland, OR 97062  
 Telephone: 1-800-736-6682 • FAX: 503-404-5594 • Tech Line (6:00AM-4:00PM P.S.T. Monday-Friday): 1-800-959-6004

**Leviton Manufacturing of Canada, Ltd.**

165 Hymus Boulevard, Pointe Claire, Quebec H9R 1E9 • Telephone: 1-800-469-7890 • FAX: 1-800-563-1853

**Leviton S. de R.L. de C.V.**

Lago Tana 43, Mexico DF, Mexico CP 11290 • Tel. (+52) 55-5082-1040 • FAX: (+52) 5386-1797 • www.leviton.com.mx

Visit our Website at: [www.leviton.com/lms](http://www.leviton.com/lms)

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