

## SUMMARY

The 15°-30° and 30°-50° PHX LED ellipsoidals are state of the art luminaires in function, style, and efficiency. These ellipsoidals have been designed and engineered with a number of innovative details and features enhancing versatility and efficiency without sacrificing performance.

A diverse line of LED choices are available including RGBA, RGBW, 3000k, 5600k, and tunable white 3000k/5600k versions versions.

A 360° rotating barrel help you keep the artistic part of your fixtures' focus intact and with virtually no light leak; you won't need to worry about any extra light illuminating unwanted parts of the ceiling or set pieces.

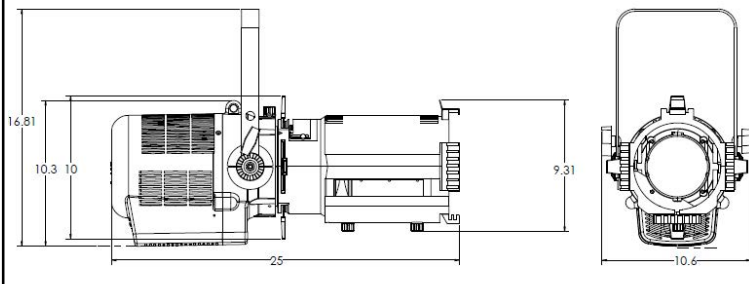
These new and innovative options are what makes the PHX LED ellipsoidals ideal for theatres, special events, television studios, or any location where superior, energy efficient lighting performance is required.



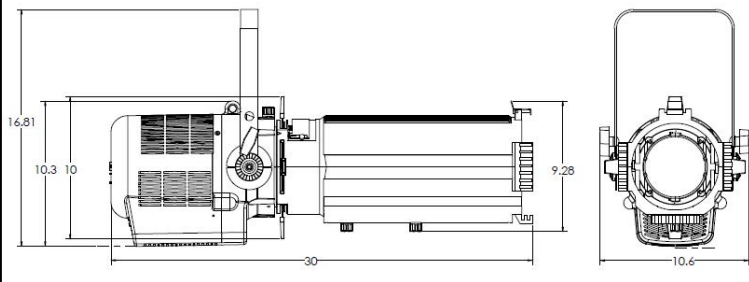
WORSHIP FACILITIES  
**NEW PRODUCT  
AWARDS  
WINNER  
2014**

plasa  
**MEMBERS  
CHOICE  
awards 2013  
WINNER**

### 30-50 Degree Zoom Lens



### 15-30 Degree Zoom Lens



## FEATURES

- 360 degree rotating barrel
- Completely enclosed accessory holder
- Heat resistant Plano-Convex lensing
- Die cast aluminum and sheet metal fabrication
- Color frame, C-Clamp, Soft Focus Pattern Holder, safety cable & 5 Foot PowerCON included
- Carries standard three year Altman Warranty
- 28.25 lbs. (12.81kgs)
- ETL, cETL, & CE listed
- Assembled in the USA

## SPECIFICATIONS

### GENERAL

- 60 LED Array
- ETL listed to UL1573
- IP20 rated for indoor use
- powerCON and DMX in/thru for easy connection
- Control interface with multiple modes

### PHYSICAL

- Rugged die-cast housing
- Available standard in Black or White
- Positive locking double-clutch fixture body
- Pattern slot fits glass or steel gobos
- Wide accessory slot with sliding cover for motorized pattern devices or optional iris
- Yoke made from rigid flat steel with dual locking handles, two mounting positions and indexed tilt angle markings

### ELECTRICAL

- 100-240VAC, 50/60HZ Universal power input
- powerCON® in/thru
- Up to 8 fixtures (20A Max) may be linked via powerCON®
- Requires power from Non-Dim power source

### CONTROL

- DMX512 in/thru via 5-pin XLR connector
- Multiple on-board control options: RGB(A/W) color fades and strobes
- Console free Master/Slave mode
- 8-bit or 16-bit virtual dimming engine provides smooth, high quality fades and minimizes color shift during dimming
- RDM Ansi E1.20 Compliant

## ORDERING GUIDE

| Fixture | Watt-  | - | LED Array | - | Lens Type    | - | Finish Color |
|---------|--------|---|-----------|---|--------------|---|--------------|
| PHX     | 2(250) | - | RGBA      | - | (15Z)15°-30° | - | B (Black)    |
|         |        | - | RGBW      | - | (30Z)30°-55° | - | W (White)    |
|         |        |   | 3K        |   |              |   |              |
|         |        |   | 5K        |   |              |   |              |
|         |        |   | 3K5K      |   |              |   |              |

Example: PHX2-RGBA-15Z-B

## ENVIRONMENTAL

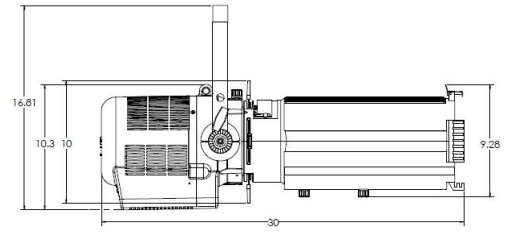
- Ambient operating temperature of -14°F to 104°F (-10°C to 40°C)
- Near silent fan cooling
- Fixture is designed for continuous operation up to 104°F (40°C) - ambient temperature requires free flow of air around fixture housing

| Included Accessories |   |
|----------------------|---|
| 6-CF                 | Black Color Frame, 7½" x 7½"                          |
| 510                  | Malleable Iron Pipe Clamp                             |
| SC-36-BK             | 36" Black Safety Cable with Spring Clamp              |
| PHXZ-SFLGSB          | PHX Soft Focus lens with B Size Pattern Holder        |
| PCL-PBG-12-*         | 5' 20A powerCON with Parallel Blade U Ground (Edison) |

| Additional Accessories |  |
|------------------------|--|
| 510-HD                 | Heavy Duty Malleable Iron Pipe Clamp                             |
| 6-DN                   | 7½" x 7½" w/ 3" Hole Donut, Black                                |
| PHXZ-PHGSB             | B Size Steel Pattern Holder (86mm OD/ 64.5mm IA)                 |
| PHXZ-PHGSB-3T          | B Size Steel Pattern Holder (86mm OD/ 64.5mm IA) 3 Tab Style     |
| PHX-PHISB              | B Size Steel Pattern Holder (86mm OD/ 64.5mm IA) for Iris Slot   |
| PHX-PHISA-GLS          | A Size Glass Pattern Holder (100mm OD/75mm IA) for Iris Slot     |
| PHX-PHISB-GLS          | B Size Glass Pattern Holder (82mm OD/ 64.5mm IA) for Iris Slot   |
| PHX-PHIS86-GLS         | B Size Glass Pattern Holder (86mm OD/ 64.5mm IA) for Iris Slot   |
| PCL-2P&G-12-5-*        | 5' 20A powerCON with 2P&G Stage Pin Connector, Male              |
| PCL-TLG-12-5-*         | 5' 20A powerCON with L5-20P Twist Locking Ground Connector, Male |
| PCL-BARE-12-5-*        | 5' 20A powerCON with Bare End Lead                               |

Additional gobo holder information available at [www.altmanlighting.com](http://www.altmanlighting.com)  
 \*=W for White Cable, Black is standard and no suffix is required

**PHOTOMETRIC PERFORMANCE DATA**  
**ENGINE: RGBA LENS: 15-30 Degree Zoom Lens**



RGBA Full at 15 Degree

|              |                                      |                    |                   |                   |                   |                   |                  |                  |                   |                    |                |
|--------------|--------------------------------------|--------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-------------------|--------------------|----------------|
| <b>15°</b>   | Throw Distance (d)                   | 10'<br>3.05m       | 15'<br>4.57m      | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m    | 40'<br>12.19m    | 45'<br>13.72m     | 50'<br>15.24m      | 55'<br>16.76m  |
|              | Beam Size Diameter                   | 2' - 9"<br>0.85m   | 3' - 11"<br>1.19m | 5'<br>1.54m       | 6' - 2"<br>1.89m  | 7' - 4"<br>2.24m  | 8' - 6"<br>2.58m | 9' - 7"<br>2.93m | 10' - 9"<br>3.28m | 11' - 11"<br>3.63m | 13'<br>3.97m   |
| Full on RGBA | Illuminance = fc (Illuminance = lux) | 984.20 (10,589.99) | 453.13 (4,875.71) | 254.89 (2,742.59) | 163.13 (1,755.26) | 113.28 (1,218.93) | 83.23 (895.54)   | 63.72 (685.65)   | 50.35 (541.75)    | 40.78 (438.81)     | 33.70 (362.66) |
| Red          | Illuminance = fc (Illuminance = lux) | 273.89 (2,947.00)  | 128.24 (1,379.91) | 72.14 (776.19)    | 46.17 (496.77)    | 32.06 (344.98)    | 23.56 (253.45)   | 18.03 (194.05)   | 14.25 (153.32)    | 11.54 (124.19)     | 9.54 (102.64)  |
| Green        | Illuminance = fc (Illuminance = lux) | 513.95 (5,530.10)  | 241.74 (2,601.10) | 135.98 (1,463.12) | 87.03 (936.39)    | 60.44 (650.28)    | 44.40 (477.75)   | 33.99 (365.78)   | 26.86 (289.01)    | 21.76 (234.09)     | 17.98 (193.47) |
| Blue         | Illuminance = fc (Illuminance = lux) | 108.30 (1,165.31)  | 49.20 (529.43)    | 27.68 (297.80)    | 17.71 (190.59)    | 12.30 (132.36)    | 9.04 (97.24)     | 6.92 (74.45)     | 5.47 (58.83)      | 4.43 (47.65)       | 3.66 (39.38)   |
| Amber        | Illuminance = fc (Illuminance = lux) | 174.80 (1,880.85)  | 77.94 (838.59)    | 43.84 (471.71)    | 28.06 (301.89)    | 19.48 (209.65)    | 14.32 (154.03)   | 10.96 (117.93)   | 8.66 (93.18)      | 7.01 (75.47)       | 5.79 (62.38)   |

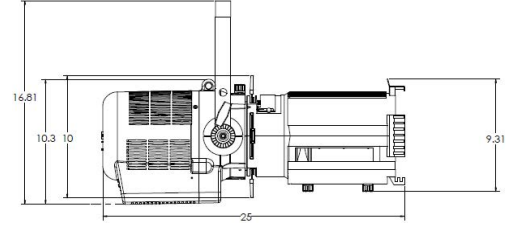
RGBA Full at 22.5 Degree

|              |                                      |                   |                   |                   |                   |                    |                   |                   |                   |                   |                   |
|--------------|--------------------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>22.5°</b> | Throw Distance (d)                   | 10'<br>3.05m      | 15'<br>4.57m      | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m       | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
|              | Beam Size Diameter                   | 4' - 3"<br>1.30m  | 6' - 2"<br>1.88m  | 8' - 1"<br>2.46m  | 9' - 11"<br>3.03m | 11' - 10"<br>3.61m | 13' - 9"<br>4.18m | 15' - 7"<br>4.76m | 17' - 6"<br>5.34m | 19' - 5"<br>5.91m | 21' - 3"<br>6.49m |
| Full on RGBA | Illuminance = fc (Illuminance = lux) | 406.60 (4,375.02) | 181.28 (1,950.53) | 101.97 (1,097.17) | 65.26 (702.19)    | 45.32 (487.63)     | 33.29 (358.26)    | 25.49 (274.29)    | 20.14 (216.73)    | 16.32 (175.55)    | 13.48 (145.08)    |
| Red          | Illuminance = fc (Illuminance = lux) | 117.80 (1,267.53) | 54.49 (586.37)    | 30.65 (329.83)    | 19.62 (211.09)    | 13.62 (146.59)     | 10.01 (107.70)    | 7.66 (82.46)      | 6.05 (65.15)      | 4.91 (52.77)      | 4.05 (43.61)      |
| Green        | Illuminance = fc (Illuminance = lux) | 216.13 (2,325.51) | 100.21 (1,078.24) | 56.37 (606.51)    | 36.08 (388.17)    | 25.05 (269.56)     | 18.41 (198.04)    | 14.09 (151.63)    | 11.13 (119.80)    | 9.02 (97.04)      | 7.45 (80.19)      |
| Blue         | Illuminance = fc (Illuminance = lux) | 44.65 (480.43)    | 19.93 (214.44)    | 11.21 (120.62)    | 7.17 (77.19)      | 4.98 (53.61)       | 3.66 (39.39)      | 2.80 (30.16)      | 2.21 (23.83)      | 1.79 (19.29)      | 1.48 (15.95)      |
| Amber        | Illuminance = fc (Illuminance = lux) | 71.35 (767.67)    | 31.73 (341.37)    | 17.85 (192.02)    | 11.42 (122.89)    | 7.93 (85.34)       | 5.83 (62.70)      | 4.46 (48.01)      | 3.53 (37.93)      | 2.86 (30.72)      | 2.36 (25.39)      |

RGBA Full at 30 Degree

|              |                                      |                   |                   |                   |                    |                   |                   |                    |                   |                   |                    |
|--------------|--------------------------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|
| <b>30°</b>   | Throw Distance (d)                   | 10'<br>3.048m     | 15'<br>4.572m     | 20'<br>6.096m     | 25'<br>7.62m       | 30'<br>9.144m     | 35'<br>10.668m    | 40'<br>12.192m     | 45'<br>13.716m    | 50'<br>15.24m     | 55'<br>16.764m     |
|              | Beam Size Diameter                   | 5' - 10"<br>1.79m | 8' - 6"<br>2.60m  | 11' - 3"<br>3.42m | 13' - 11"<br>4.24m | 16' - 7"<br>5.05m | 19' - 3"<br>5.87m | 21' - 11"<br>6.69m | 24' - 7"<br>7.50m | 27' - 3"<br>8.32m | 29' - 11"<br>9.14m |
| Full on RGBA | Illuminance = fc (Illuminance = lux) | 245.86 (2,645.45) | 112.99 (2,645.45) | 63.56 (683.91)    | 40.68 (437.70)     | 28.25 (303.96)    | 20.75 (223.32)    | 15.89 (170.98)     | 12.55 (135.09)    | 10.17 (109.42)    | 8.41 (90.43)       |
| Red          | Illuminance = fc (Illuminance = lux) | 72.87 (784.03)    | 34.23 (368.29)    | 19.25 (207.17)    | 12.32 (132.59)     | 8.56 (92.07)      | 6.29 (67.65)      | 4.81 (51.79)       | 3.80 (40.92)      | 3.08 (33.15)      | 2.55 (27.39)       |
| Green        | Illuminance = fc (Illuminance = lux) | 130.34 (1,402.46) | 61.03 (656.64)    | 34.33 (369.36)    | 21.97 (236.39)     | 15.26 (164.16)    | 11.21 (121.16)    | 8.58 (92.34)       | 6.78 (72.96)      | 5.49 (59.09)      | 4.54 (48.84)       |
| Blue         | Illuminance = fc (Illuminance = lux) | 26.13 (281.11)    | 12.72 (136.90)    | 7.16 (77.01)      | 4.58 (49.28)       | 3.18 (34.23)      | 2.34 (25.15)      | 1.79 (19.25)       | 1.41 (15.21)      | 1.15 (12.32)      | 0.95 (10.18)       |
| Amber        | Illuminance = fc (Illuminance = lux) | 43.99 (473.28)    | 19.66 (211.50)    | 11.06 (118.97)    | 7.08 (76.14)       | 4.91 (52.88)      | 3.61 (38.85)      | 2.76 (29.74)       | 2.18 (23.50)      | 1.77 (19.04)      | 1.46 (15.73)       |

## PHOTOMETRIC PERFORMANCE DATA ENGINE: RGBA LENS: 30-50 Degree Zoom Lens



### RGBA Full at 30 Degree

| 30°          | Throw Distance (d)                   | 10'<br>3.05m      | 15'<br>4.57m      | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
|--------------|--------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|              | Beam Size Diameter                   | 5' - 6"<br>1.69m  | 8'<br>2.45m       | 10' - 7"<br>3.22m | 13' - 1"<br>3.98m | 15' - 7"<br>4.75m | 18' - 1"<br>5.52m | 20' - 7"<br>6.28m | 23' - 2"<br>7.05m | 25' - 8"<br>7.82m | 28' - 2"<br>8.58m |
| Full on RGBA | Illuminance = fc (Illuminance = lux) | 293.63 (3,160.58) | 130.50 (1,404.70) | 73.41 (790.15)    | 46.98 (505.69)    | 32.63 (351.18)    | 23.97 (258.01)    | 18.35 (197.54)    | 14.50 (156.08)    | 11.75 (126.42)    | 9.71 (104.48)     |
| Red          | Illuminance = fc (Illuminance = lux) | 93.99 (1,011.67)  | 41.77 (449.63)    | 23.50 (252.92)    | 15.04 (161.87)    | 10.44 (112.41)    | 7.67 (82.59)      | 5.87 (63.23)      | 4.64 (49.96)      | 3.76 (40.47)      | 3.11 (33.44)      |
| Green        | Illuminance = fc (Illuminance = lux) | 169.48 (1,824.28) | 75.32 (810.79)    | 42.37 (456.07)    | 27.12 (291.88)    | 18.83 (202.70)    | 13.84 (148.92)    | 10.59 (114.02)    | 8.37 (90.09)      | 6.78 (72.97)      | 5.60 (60.31)      |
| Blue         | Illuminance = fc (Illuminance = lux) | 33.94 (365.32)    | 15.08 (162.37)    | 8.48 (91.33)      | 5.43 (58.45)      | 3.77 (40.59)      | 2.77 (29.82)      | 2.12 (22.83)      | 1.68 (18.04)      | 1.36 (14.61)      | 1.12 (12.08)      |
| Amber        | Illuminance = fc (Illuminance = lux) | 51.89 (558.55)    | 23.06 (248.25)    | 12.97 (139.64)    | 8.30 (89.37)      | 5.77 (62.06)      | 4.24 (45.60)      | 3.24 (34.91)      | 2.56 (27.58)      | 2.08 (22.34)      | 1.72 (18.46)      |

### RGBA Full at 40 Degree

| 40°          | Throw Distance (d)                   | 10'<br>3.05m      | 15'<br>4.57m      | 20'<br>6.09m     | 25'<br>7.62m   | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m      | 55'<br>16.76m      |
|--------------|--------------------------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
|              | Beam Size Diameter                   | 7' - 1"<br>2.16m  | 10' - 5"<br>3.17m | 13 - 8"<br>4.17m | 17'<br>5.18m   | 20' - 3"<br>6.18m | 23' - 7"<br>7.19m | 26 - 11"<br>8.19m | 30' - 2"<br>9.20m | 33' - 6"<br>10.20m | 36' - 9"<br>11.21m |
| Full on RGBA | Illuminance = fc (Illuminance = lux) | 195.31 (2,102.32) | 86.81 (934.37)    | 48.83 (525.58)   | 31.25 (336.37) | 21.70 (233.59)    | 15.94 (171.62)    | 12.21 (131.40)    | 9.65 (103.82)     | 7.81 (84.09)       | 6.46 (69.50)       |
| Red          | Illuminance = fc (Illuminance = lux) | 61.14 (658.05)    | 27.17 (292.47)    | 15.28 (164.51)   | 9.78 (105.29)  | 6.79 (73.12)      | 4.99 (53.72)      | 3.82 (41.13)      | 3.02 (32.50)      | 2.45 (26.32)       | 2.02 (21.75)       |
| Green        | Illuminance = fc (Illuminance = lux) | 110.09 (1,184.96) | 48.93 (526.65)    | 27.52 (296.24)   | 17.61 (189.59) | 12.23 (131.66)    | 8.99 (96.73)      | 6.88 (74.06)      | 5.44 (58.52)      | 4.40 (47.40)       | 3.64 (39.17)       |
| Blue         | Illuminance = fc (Illuminance = lux) | 22.84 (249.89)    | 10.15 (109.29)    | 5.71 (61.47)     | 3.66 (39.34)   | 2.54 (27.32)      | 1.86 (20.07)      | 1.43 (15.37)      | 1.13 (12.14)      | 0.91 (9.84)        | 0.76 (8.13)        |
| Amber        | Illuminance = fc (Illuminance = lux) | 33.58 (361.50)    | 14.93 (160.67)    | 8.40 (90.38)     | 5.37 (57.84)   | 3.73 (40.17)      | 2.74 (29.51)      | 2.10 (22.59)      | 1.66 (17.85)      | 1.34 (14.46)       | 1.11 (11.95)       |

### RGBA Full at 50 Degree

| 50°          | Throw Distance (d)                   | 10'<br>3.048m     | 15'<br>4.572m  | 20'<br>6.096m  | 25'<br>7.62m      | 30'<br>9.144m     | 35'<br>10.668m    | 40'<br>12.192m     | 45'<br>13.716m      | 50'<br>15.24m | 55'<br>16.764m     |
|--------------|--------------------------------------|-------------------|----------------|----------------|-------------------|-------------------|-------------------|--------------------|---------------------|---------------|--------------------|
|              | Beam Size Diameter                   | 8' - 10"<br>2.68m | 13'<br>3.95m   | 17.1'<br>5.22m | 21' - 3"<br>6.48m | 25' - 5"<br>7.75m | 29' - 7"<br>9.01m | 33' - 9"<br>10.28m | 37' - 10"<br>11.54m | 42'<br>12.81m | 46' - 2"<br>14.08m |
| Full on RGBA | Illuminance = fc (Illuminance = lux) | 139.34 (1,499.86) | 61.93 (666.60) | 34.84 (374.96) | 22.29 (239.98)    | 15.48 (166.65)    | 11.37 (122.44)    | 8.71 (93.74)       | 6.88 (74.07)        | 5.57 (59.99)  | 4.61 (49.58)       |
| Red          | Illuminance = fc (Illuminance = lux) | 44.38 (477.73)    | 19.73 (212.33) | 11.10 (119.43) | 7.10 (76.44)      | 4.93 (53.08)      | 3.62 (39.00)      | 2.77 (29.86)       | 2.19 (23.59)        | 1.78 (19.11)  | 1.47 (15.79)       |
| Green        | Illuminance = fc (Illuminance = lux) | 78.54 (845.40)    | 34.91 (375.73) | 19.64 (211.35) | 12.57 (135.26)    | 8.73 (93.93)      | 6.41 (69.01)      | 4.91 (52.84)       | 3.88 (41.75)        | 3.14 (33.82)  | 2.60 (27.95)       |
| Blue         | Illuminance = fc (Illuminance = lux) | 16.32 (175.64)    | 7.25 (78.06)   | 4.08 (43.91)   | 2.61 (28.10)      | 1.81 (19.52)      | 1.33 (14.34)      | 1.02 (10.98)       | 0.81 (8.67)         | 0.65 (7.03)   | 0.54 (5.81)        |
| Amber        | Illuminance = fc (Illuminance = lux) | 24.22 (260.71)    | 10.76 (115.87) | 6.06 (65.18)   | 3.88 (41.71)      | 2.69 (28.97)      | 1.98 (21.28)      | 1.51 (16.29)       | 1.20 (12.87)        | 0.97 (10.43)  | 0.80 (8.62)        |

**PHOTOMETRIC PERFORMANCE DATA**  
**ENGINE: RGBW LENS: 15-30 Degree Zoom Lens**

RGBW Full at 15 Degree

|              |                                      |                      |                   |                   |                   |                   |                   |                  |                   |                    |                |
|--------------|--------------------------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|--------------------|----------------|
| <b>15°</b>   | Throw Distance (d)                   | 10'<br>3.05m         | 15'<br>4.57m      | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m    | 45'<br>13.72m     | 50'<br>15.24m      | 55'<br>16.76m  |
|              | Beam Size Diameter                   | 2' - 9"<br>0.85m     | 3' - 11"<br>1.19m | 5'<br>1.54m       | 6' - 2"<br>1.89m  | 7' - 4"<br>2.24m  | 8' - 6"<br>2.58m  | 9' - 7"<br>2.93m | 10' - 9"<br>3.28m | 11' - 11"<br>3.63m | 13'<br>3.97m   |
| Full on RGBW | Illuminance = fc (Illuminance = lux) | 1,324.30 (14,249.47) | 615.32 (6,620.88) | 346.12 (3,724.25) | 221.52 (2,383.52) | 153.83 (1,655.22) | 113.02 (1,216.08) | 86.53 (931.06)   | 68.37 (735.65)    | 55.38 (595.88)     | 45.77 (492.46) |
| Red          | Illuminance = fc (Illuminance = lux) | 273.89 (2,947.00)    | 128.24 (1,379.91) | 72.14 (776.19)    | 46.17 (496.77)    | 32.06 (344.98)    | 23.56 (253.45)    | 18.03 (194.05)   | 14.25 (153.32)    | 11.54 (124.19)     | 9.54 (102.64)  |
| Green        | Illuminance = fc (Illuminance = lux) | 513.95 (5,530.10)    | 241.74 (2,601.10) | 135.98 (1,463.12) | 87.03 (936.39)    | 60.44 (650.28)    | 44.40 (477.75)    | 33.99 (365.78)   | 26.86 (289.01)    | 21.76 (234.09)     | 17.98 (193.47) |
| Blue         | Illuminance = fc (Illuminance = lux) | 108.30 (1,165.31)    | 49.20 (529.43)    | 27.68 (297.80)    | 17.71 (190.59)    | 12.30 (132.36)    | 9.04 (97.24)      | 6.92 (74.45)     | 5.47 (58.83)      | 4.43 (47.65)       | 3.66 (39.38)   |
| White        | Illuminance = fc (Illuminance = lux) | 483.55 (5,202.99)    | 224.74 (2,418.17) | 126.41 (1,360.22) | 80.91 (870.54)    | 56.18 (604.54)    | 41.28 (444.15)    | 31.60 (340.06)   | 24.97 (268.69)    | 20.23 (217.64)     | 16.72 (179.86) |

RGBW Full at 22.5 Degree

|              |                                      |                   |                   |                   |                   |                    |                   |                   |                   |                   |                   |
|--------------|--------------------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>22.5°</b> | Throw Distance (d)                   | 10'<br>3.05m      | 15'<br>4.57m      | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m       | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
|              | Beam Size Diameter                   | 4' - 3"<br>1.30m  | 6' - 2"<br>1.88m  | 8'<br>2.46m       | 9' - 11"<br>3.03m | 11' - 10"<br>3.61m | 13' - 9"<br>4.18m | 15' - 7"<br>4.76m | 17' - 6"<br>5.34m | 19' - 5"<br>5.91m | 21' - 3"<br>6.49m |
| Full on RGBW | Illuminance = fc (Illuminance = lux) | 554.33 (5,964.54) | 249.28 (2,682.28) | 140.22 (1,508.78) | 89.74 (965.62)    | 62.32 (670.57)     | 45.79 (492.66)    | 35.06 (377.19)    | 27.69 (298.03)    | 22.44 (241.41)    | 18.54 (199.51)    |
| Red          | Illuminance = fc (Illuminance = lux) | 117.80 (1,267.53) | 54.49 (586.37)    | 30.65 (329.83)    | 19.62 (211.09)    | 13.62 (146.59)     | 10.01 (107.70)    | 7.66 (82.46)      | 6.06 (65.15)      | 4.91 (52.77)      | 4.05 (43.61)      |
| Green        | Illuminance = fc (Illuminance = lux) | 216.13 (2,325.51) | 100.21 (1,078.24) | 56.37 (606.51)    | 36.08 (388.17)    | 25.05 (269.56)     | 18.41 (198.04)    | 14.09 (151.63)    | 11.13 (119.80)    | 9.02 (97.04)      | 7.45 (80.19)      |
| Blue         | Illuminance = fc (Illuminance = lux) | 44.65 (480.43)    | 19.93 (214.44)    | 11.21 (120.62)    | 7.17 (77.19)      | 4.98 (53.61)       | 3.66 (39.39)      | 2.80 (30.16)      | 2.21 (23.83)      | 1.79 (19.29)      | 1.48 (15.95)      |
| White        | Illuminance = fc (Illuminance = lux) | 202.35 (2,177.29) | 93.12 (1,001.92)  | 52.38 (563.58)    | 33.52 (360.69)    | 23.28 (250.48)     | 17.10 (184.03)    | 13.09 (140.89)    | 10.35 (111.32)    | 8.38 (90.17)      | 6.93 (74.52)      |

RGBW Full at 30 Degree

|              |                                      |                   |                   |                   |                    |                   |                   |                    |                   |                   |                    |
|--------------|--------------------------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|
| <b>30°</b>   | Throw Distance (d)                   | 10'<br>3.05m      | 15'<br>4.57m      | 20'<br>6.09m      | 25'<br>7.62m       | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m      | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m      |
|              | Beam Size Diameter                   | 5' - 10"<br>1.79m | 8' - 6"<br>2.60m  | 11' - 2"<br>3.42m | 13' - 11"<br>4.24m | 16' - 7"<br>5.05m | 19' - 3"<br>5.87m | 21' - 11"<br>6.69m | 24' - 7"<br>7.50m | 27' - 3"<br>8.32m | 29' - 11"<br>9.14m |
| Full on RGBW | Illuminance = fc (Illuminance = lux) | 329.65 (3,547.03) | 159.09 (1,711.86) | 89.49 (1,711.86)  | 57.27 (616.27)     | 39.77 (427.97)    | 29.22 (314.42)    | 22.37 (240.73)     | 17.68 (190.21)    | 14.32 (154.07)    | 11.83 (127.33)     |
| Red          | Illuminance = fc (Illuminance = lux) | 72.87 (784.03)    | 34.23 (368.29)    | 19.25 (207.17)    | 12.32 (132.59)     | 8.56 (92.07)      | 6.29 (67.65)      | 4.81 (51.79)       | 3.80 (40.92)      | 3.08 (33.15)      | 2.55 (27.39)       |
| Green        | Illuminance = fc (Illuminance = lux) | 130.34 (1,402.46) | 61.03 (656.64)    | 34.33 (369.36)    | 21.97 (236.39)     | 15.26 (164.16)    | 11.21 (120.61)    | 8.58 (92.34)       | 6.78 (72.96)      | 5.49 (59.09)      | 4.54 (48.84)       |
| Blue         | Illuminance = fc (Illuminance = lux) | 26.13 (281.11)    | 12.72 (136.90)    | 7.16 (77.01)      | 4.58 (49.28)       | 3.18 (34.23)      | 2.34 (25.15)      | 1.79 (19.25)       | 1.41 (15.21)      | 1.15 (12.32)      | 0.95 (10.18)       |
| White        | Illuminance = fc (Illuminance = lux) | 122.27 (1,315.57) | 57.42 (617.87)    | 32.30 (347.55)    | 20.67 (222.43)     | 14.36 (154.47)    | 10.55 (113.49)    | 8.08 (86.89)       | 6.38 (68.65)      | 5.17 (55.61)      | 4.27 (45.96)       |

**PHOTOMETRIC PERFORMANCE DATA**  
**ENGINE: RGBW LENS: 30-50 Degree Zoom Lens**

RGBW Full at 30 Degree

| 30°          | Throw Distance (d)                   | 10'<br>3.05m      | 15'<br>4.57m      | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
|--------------|--------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|              | Beam Size Diameter                   | 5' - 6"<br>1.69m  | 8'<br>2.45m       | 10' - 7"<br>3.22m | 13' - 1"<br>3.98m | 15' - 7"<br>4.75m | 18' - 1"<br>5.52m | 20' - 7"<br>6.28m | 23' - 2"<br>7.05m | 25' - 8"<br>7.82m | 28' - 2"<br>8.58m |
| Full on RGBW | Illuminance = fc (Illuminance = lux) | 436.00 (4,693.01) | 193.78 (2,085.78) | 109.00 (1,173.25) | 69.76 (750.88)    | 48.44 (521.45)    | 35.59 (383.10)    | 27.25 (293.31)    | 21.53 (231.75)    | 17.44 (187.72)    | 14.41 (155.14)    |
| Red          | Illuminance = fc (Illuminance = lux) | 93.99 (1,011.67)  | 41.77 (449.63)    | 23.50 (252.92)    | 15.04 (161.87)    | 10.44 (112.41)    | 7.67 (82.59)      | 5.87 (63.23)      | 4.64 (49.96)      | 3.76 (40.47)      | 3.11 (33.44)      |
| Green        | Illuminance = fc (Illuminance = lux) | 169.48 (1,824.28) | 75.32 (810.79)    | 42.37 (456.07)    | 27.12 (291.88)    | 18.83 (202.70)    | 13.84 (148.92)    | 10.59 (114.02)    | 8.37 (90.09)      | 6.78 (72.97)      | 5.60 (60.31)      |
| Blue         | Illuminance = fc (Illuminance = lux) | 33.94 (365.32)    | 15.08 (162.37)    | 8.48 (91.33)      | 5.43 (58.45)      | 3.77 (40.59)      | 2.77 (29.82)      | 2.12 (22.83)      | 1.68 (18.04)      | 1.36 (14.61)      | 1.12 (12.08)      |
| White        | Illuminance = fc (Illuminance = lux) | 160.34 (1,725.92) | 71.26 (767.08)    | 40.09 (431.48)    | 25.65 (276.15)    | 17.82 (191.77)    | 13.09 (140.89)    | 10.02 (107.87)    | 7.92 (85.23)      | 6.41 (69.04)      | 5.30 (57.06)      |

RGBW Full at 40 Degree

| 40°          | Throw Distance (d)                   | 10'<br>3.05m      | 15'<br>4.57m      | 20'<br>6.09m     | 25'<br>7.62m   | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m      | 55'<br>16.76m      |
|--------------|--------------------------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
|              | Beam Size Diameter                   | 7' - 1"<br>2.16m  | 10' - 5"<br>3.17m | 13 - 8"<br>4.17m | 17"<br>5.18m   | 20' - 3"<br>6.18m | 23' - 7"<br>7.19m | 26 - 11"<br>8.19m | 30' - 2"<br>9.20m | 33' - 6"<br>10.20m | 36' - 9"<br>11.21m |
| Full on RGBW | Illuminance = fc (Illuminance = lux) | 290.01 (3,121.65) | 128.89 (1,387.40) | 72.50 (780.41)   | 46.40 (499.46) | 32.22 (346.85)    | 23.67 (254.83)    | 18.13 (195.10)    | 14.32 (154.16)    | 11.60 (124.87)     | 9.59 (103.20)      |
| Red          | Illuminance = fc (Illuminance = lux) | 61.14 (658.05)    | 27.17 (292.47)    | 15.28 (164.51)   | 9.78 (105.29)  | 6.79 (73.12)      | 4.99 (53.72)      | 3.82 (41.13)      | 3.02 (32.50)      | 2.45 (26.32)       | 2.02 (21.75)       |
| Green        | Illuminance = fc (Illuminance = lux) | 110.09 (1,184.96) | 48.93 (526.65)    | 27.52 (296.24)   | 17.61 (189.59) | 12.23 (131.66)    | 8.99 (96.73)      | 6.88 (74.06)      | 5.44 (58.52)      | 4.40 (47.40)       | 3.64 (39.17)       |
| Blue         | Illuminance = fc (Illuminance = lux) | 22.84 (249.89)    | 10.15 (109.29)    | 5.71 (61.47)     | 3.66 (39.34)   | 2.54 (27.32)      | 1.86 (20.07)      | 1.43 (15.37)      | 1.13 (12.14)      | 0.91 (9.84)        | 0.76 (8.13)        |
| White        | Illuminance = fc (Illuminance = lux) | 103.78 (1,117.05) | 46.12 (496.47)    | 25.94 (279.26)   | 16.60 (178.73) | 11.53 (124.12)    | 8.47 (91.19)      | 6.49 (69.82)      | 5.12 (55.16)      | 4.15 (44.68)       | 3.43 (36.93)       |

RGBW Full at 50 Degree

| 50°          | Throw Distance (d)                   | 10'<br>3.05m      | 15'<br>4.57m   | 20'<br>6.09m   | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m      | 45'<br>13.72m       | 50'<br>15.24m | 55'<br>16.76m      |
|--------------|--------------------------------------|-------------------|----------------|----------------|-------------------|-------------------|-------------------|--------------------|---------------------|---------------|--------------------|
|              | Beam Size Diameter                   | 8' - 10"<br>2.68m | 13'<br>3.95m   | 17.1'<br>5.22m | 21' - 3"<br>6.48m | 25' - 5"<br>7.75m | 29' - 7"<br>9.01m | 33' - 9"<br>10.28m | 37' - 10"<br>11.54m | 42'<br>12.81m | 46' - 2"<br>14.08m |
| Full on RGBW | Illuminance = fc (Illuminance = lux) | 206.90 (2,227.07) | 91.96 (989.81) | 51.73 (556.77) | 33.10 (356.33)    | 22.99 (247.45)    | 16.89 (181.80)    | 12.93 (139.19)     | 10.22 (109.98)      | 8.28 (89.08)  | 6.84 (73.62)       |
| Red          | Illuminance = fc (Illuminance = lux) | 44.38 (477.73)    | 19.73 (212.33) | 11.10 (119.43) | 7.10 (76.44)      | 4.93 (53.08)      | 3.62 (39.00)      | 2.77 (29.86)       | 2.19 (23.59)        | 1.78 (19.11)  | 1.47 (15.79)       |
| Green        | Illuminance = fc (Illuminance = lux) | 78.54 (845.40)    | 34.91 (375.73) | 19.64 (211.35) | 12.57 (135.26)    | 8.73 (93.93)      | 6.41 (69.01)      | 4.91 (52.84)       | 3.88 (41.75)        | 3.14 (33.82)  | 2.60 (27.95)       |
| Blue         | Illuminance = fc (Illuminance = lux) | 16.32 (175.64)    | 7.25 (78.06)   | 4.08 (43.91)   | 2.61 (28.10)      | 1.81 (19.52)      | 1.33 (14.34)      | 1.02 (10.98)       | 0.81 (8.67)         | 0.65 (7.03)   | 0.54 (5.81)        |
| White        | Illuminance = fc (Illuminance = lux) | 74.84 (805.59)    | 33.26 (358.04) | 18.71 (201.42) | 11.97 (128.89)    | 8.32 (89.51)      | 6.11 (65.76)      | 4.68 (50.35)       | 3.70 (39.78)        | 2.99 (32.22)  | 2.47 (26.63)       |

**PHOTOMETRIC PERFORMANCE DATA**  
**ENGINE: 3K LENS: 15-30 Degree Zoom Lens**
**3K Full at 15 Degree**

|                                      |                         |                       |                      |                      |                      |                      |                      |                      |                   |                   |
|--------------------------------------|-------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------|-------------------|
| Throw Distance (d)                   | 10'<br>3.05m            | 15'<br>4.57m          | 20'<br>6.09m         | 25'<br>7.62m         | 30'<br>9.14m         | 35'<br>10.67m        | 40'<br>12.19m        | 45'<br>13.72m        | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                   | 2'-9"<br>0.85m          | 3'-11"<br>1.19m       | 5'<br>1.54m          | 6'-2"<br>1.89m       | 7'-4"<br>2.24m       | 8'-6"<br>2.58m       | 9'-7"<br>2.93m       | 10'-9"<br>3.28m      | 11'-11"<br>3.63m  | 13'<br>3.97m      |
| Illuminance = fc (Illuminance = lux) | 2,085.25<br>(22,437.29) | 966.84<br>(10,403.25) | 543.85<br>(5,851.83) | 348.06<br>(3,745.17) | 241.71<br>(2,600.81) | 177.58<br>(1,910.80) | 135.96<br>(1,462.96) | 107.43<br>(1,155.92) | 87.02<br>(936.29) | 71.91<br>(773.79) |

**3k Full at 22.5 Degree**

|                                      |                     |                      |                      |                      |                      |                   |                   |                   |                   |                   |
|--------------------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                   | 10'<br>3.05m        | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m         | 30'<br>9.14m         | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                   | 4'-3"<br>1.30m      | 6'-2"<br>1.88m       | 8'-1"<br>2.46m       | 9'-11"<br>3.03m      | 11'-10"<br>3.61m     | 13'-9"<br>4.18m   | 15'-7"<br>4.76m   | 17'-6"<br>5.34m   | 19'-5"<br>5.91m   | 21'-3"<br>6.49m   |
| Illuminance = fc (Illuminance = lux) | 874.0<br>(9,404.24) | 400.26<br>(4,306.75) | 225.14<br>(2,422.55) | 144.09<br>(1,550.43) | 100.06<br>(1,076.69) | 73.52<br>(791.04) | 56.29<br>(605.64) | 44.47<br>(478.53) | 36.02<br>(387.61) | 29.77<br>(320.34) |

**3K Full at 30 Degree**

|                                      |                      |                      |                      |                   |                   |                   |                   |                   |                   |                   |
|--------------------------------------|----------------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                   | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                   | 5'-10"<br>1.79m      | 8'-6"<br>2.60m       | 11'-2"<br>3.42m      | 13'-11"<br>4.24m  | 16'-7"<br>5.05m   | 19'-3"<br>5.87m   | 21'-11"<br>6.69m  | 24'-7"<br>7.50m   | 27'-3"<br>8.32m   | 29'-11"<br>9.14m  |
| Illuminance = fc (Illuminance = lux) | 496.85<br>(5,346.11) | 233.81<br>(2,515.78) | 131.52<br>(1,415.13) | 84.17<br>(905.68) | 58.45<br>(628.94) | 42.94<br>(462.08) | 32.88<br>(353.78) | 25.98<br>(279.53) | 21.04<br>(226.42) | 17.39<br>(187.12) |

**PHOTOMETRIC PERFORMANCE DATA**  
**ENGINE: 3K LENS: 30-50 Degree Zoom Lens**
**3K Full at 30 Degree Lens**

|                                      |                      |                      |                      |                     |                   |                   |                   |                   |                   |                   |
|--------------------------------------|----------------------|----------------------|----------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                   | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m        | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                   | 5'-6"<br>1.69m       | 8'<br>2.45m          | 10'-7"<br>3.22m      | 13'-1"<br>3.98m     | 15'-7"<br>4.75m   | 18'-1"<br>5.52m   | 20'-7"<br>6.28m   | 23'-2"<br>7.05m   | 25'-8"<br>7.82m   | 28'-2"<br>8.58m   |
| Illuminance = fc (Illuminance = lux) | 616.09<br>(6,631.53) | 273.82<br>(2,947.35) | 154.02<br>(1,657.88) | 98.57<br>(1,061.05) | 68.45<br>(736.84) | 50.29<br>(541.35) | 38.51<br>(414.47) | 30.42<br>(327.48) | 24.64<br>(265.26) | 20.37<br>(219.22) |

**3K Full at 40 Degree**

|                                      |                      |                      |                      |                   |                   |                   |                   |                   |                   |                   |
|--------------------------------------|----------------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                   | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                   | 7'-1"<br>2.16m       | 10'-5"<br>3.17m      | 13'-8"<br>4.17m      | 17'<br>5.18m      | 20'-3"<br>6.18m   | 23'-7"<br>7.19m   | 26'-11"<br>8.19m  | 30'-2"<br>9.20m   | 33'-6"<br>10.20m  | 36'-9"<br>11.21m  |
| Illuminance = fc (Illuminance = lux) | 409.80<br>(4,411.09) | 182.14<br>(1,960.49) | 102.45<br>(1,102.77) | 65.57<br>(705.78) | 45.53<br>(490.12) | 33.45<br>(360.09) | 25.61<br>(275.69) | 20.24<br>(217.83) | 16.39<br>(176.44) | 13.55<br>(145.82) |

**3K Full at 50 Degree**

|                                      |                      |                      |                   |                   |                   |                   |                   |                   |                   |                  |
|--------------------------------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Throw Distance (d)                   | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m    |
| Beam Size Diameter                   | 8'-10"<br>2.68m      | 13'<br>3.95m         | 17.1'<br>5.22m    | 21'-3"<br>6.48m   | 25'-5"<br>7.75m   | 29'-7"<br>9.01m   | 33'-9"<br>10.28m  | 37'-10"<br>11.54m | 42'<br>12.81m     | 46'-2"<br>14.08m |
| Illuminance = fc (Illuminance = lux) | 292.37<br>(3,147.00) | 129.94<br>(1,398.67) | 73.09<br>(786.75) | 46.78<br>(503.52) | 32.49<br>(349.67) | 23.87<br>(256.90) | 18.27<br>(196.69) | 14.44<br>(155.41) | 11.69<br>(125.88) | 9.66<br>(104.03) |

**PHOTOMETRIC PERFORMANCE DATA**
**ENGINE: 5K LENS: 15-30 Degree Zoom Lens**
**5K Full at 15 Degree**

|   |                         |                         |                      |                      |                      |                      |                      |                      |                     |                   |
|---|-------------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m            | 15'<br>4.57m            | 20'<br>6.09m         | 25'<br>7.62m         | 30'<br>9.14m         | 35'<br>10.67m        | 40'<br>12.19m        | 45'<br>13.72m        | 50'<br>15.24m       | 55'<br>16.76m     |
| Beam Size Diameter                      | 2' - 9"<br>0.85m        | 3' - 11"<br>1.19m       | 5'<br>1.54m          | 6' - 2"<br>1.89m     | 7' - 4"<br>2.24m     | 8' - 6"<br>2.58m     | 9' - 7"<br>2.93m     | 10' - 9"<br>3.28m    | 11' - 11"<br>3.63m  | 13'<br>3.97m      |
| Illuminance = fc<br>(Illuminance = lux) | 2,612.50<br>(28,110.50) | 1,076.39<br>(11,581.98) | 605.47<br>(6,514.86) | 387.50<br>(4,169.51) | 269.09<br>(2,895.49) | 197.71<br>(2,127.30) | 151.37<br>(1,628.72) | 119.59<br>(1,286.89) | 96.88<br>(1,042.38) | 80.06<br>(861.47) |

**5k Full at 22.5 Degree**

|   |                         |                      |                      |                      |                      |                   |                   |                   |                   |                   |
|---|-------------------------|----------------------|----------------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m            | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m         | 30'<br>9.14m         | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 4' - 3"<br>1.30m        | 6' - 2"<br>1.88m     | 8' - 1"<br>2.46m     | 9' - 11"<br>3.03m    | 11' - 10"<br>3.61m   | 13' - 9"<br>4.18m | 15' - 7"<br>4.76m | 17' - 6"<br>5.34m | 19' - 5"<br>5.91m | 21' - 3"<br>6.49m |
| Illuminance = fc<br>(Illuminance = lux) | 1,121.00<br>(12,061.96) | 464.05<br>(4,993.21) | 261.03<br>(2,808.68) | 167.06<br>(1,797.56) | 116.01<br>(1,248.30) | 85.23<br>(917.12) | 65.26<br>(702.17) | 51.56<br>(554.80) | 41.77<br>(449.39) | 34.52<br>(371.39) |

**5K Full at 30 Degree**

|   |                      |                      |                      |                    |                   |                   |                    |                   |                   |                    |
|---|----------------------|----------------------|----------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m       | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m      | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m      |
| Beam Size Diameter                      | 5' - 10"<br>1.79m    | 8' - 6"<br>2.60m     | 11' - 2"<br>3.42m    | 13' - 11"<br>4.24m | 16' - 7"<br>5.05m | 19' - 3"<br>5.87m | 21' - 11"<br>6.69m | 24' - 7"<br>7.50m | 27' - 3"<br>8.32m | 29' - 11"<br>9.14m |
| Illuminance = fc<br>(Illuminance = lux) | 496.85<br>(5,346.11) | 233.81<br>(2,515.78) | 131.52<br>(1,415.13) | 84.17<br>(905.68)  | 58.45<br>(628.94) | 42.94<br>(462.08) | 32.88<br>(353.78)  | 25.98<br>(279.53) | 21.04<br>(226.42) | 17.39<br>(187.12)  |

**PHOTOMETRIC PERFORMANCE DATA**
**ENGINE: 5K LENS: 30-50 Degree Zoom Lens**
**5K Full at 30 Degree Lens**

|   |                      |                      |                      |                      |                   |                   |                   |                   |                   |                   |
|---|----------------------|----------------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m         | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 5' - 6"<br>1.69m     | 8'<br>2.45m          | 10' - 7"<br>3.22m    | 13' - 1"<br>3.98m    | 15' - 7"<br>4.75m | 18' - 1"<br>5.52m | 20' - 7"<br>6.28m | 23' - 2"<br>7.05m | 25' - 8"<br>7.82m | 28' - 2"<br>8.58m |
| Illuminance = fc<br>(Illuminance = lux) | 723.16<br>(7,784.04) | 321.40<br>(3,459.57) | 180.79<br>(1,946.01) | 115.71<br>(1,245.45) | 80.35<br>(864.89) | 59.03<br>(635.43) | 45.20<br>(486.50) | 35.71<br>(384.40) | 28.93<br>(311.36) | 23.91<br>(257.32) |

**5K Full at 40 Degree**

|   |                      |                      |                      |                   |                   |                   |                    |                   |                    |                    |
|---|----------------------|----------------------|----------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m      | 45'<br>13.72m     | 50'<br>15.24m      | 55'<br>16.76m      |
| Beam Size Diameter                      | 7' - 1"<br>2.16m     | 10' - 5"<br>3.17m    | 13' - 8"<br>4.17m    | 17'<br>5.18m      | 20' - 3"<br>6.18m | 23' - 7"<br>7.19m | 26' - 11"<br>8.19m | 30' - 2"<br>9.20m | 33' - 6"<br>10.20m | 36' - 9"<br>11.21m |
| Illuminance = fc<br>(Illuminance = lux) | 481.02<br>(5,177.71) | 213.79<br>(2,301.20) | 120.26<br>(1,294.43) | 76.96<br>(828.43) | 53.45<br>(575.30) | 39.27<br>(422.67) | 30.06<br>(323.61)  | 23.75<br>(255.69) | 19.24<br>(207.11)  | 15.90<br>(171.16)  |

**5K Full at 50 Degree**

|   |                      |                      |                   |                   |                   |                   |                    |                     |                   |                    |
|---|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|--------------------|---------------------|-------------------|--------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m      | 45'<br>13.72m       | 50'<br>15.24m     | 55'<br>16.76m      |
| Beam Size Diameter                      | 8' - 10"<br>2.68m    | 13'<br>3.95m         | 17.1'<br>5.22m    | 21' - 3"<br>6.48m | 25' - 5"<br>7.75m | 29' - 7"<br>9.01m | 33' - 9"<br>10.28m | 37' - 10"<br>11.54m | 42'<br>12.81m     | 46' - 2"<br>14.08m |
| Illuminance = fc<br>(Illuminance = lux) | 343.18<br>(3,693.92) | 152.52<br>(1,641.74) | 85.79<br>(923.48) | 54.91<br>(591.03) | 38.13<br>(410.44) | 28.01<br>(301.54) | 21.45<br>(230.87)  | 16.95<br>(182.42)   | 13.73<br>(147.76) | 11.34<br>(122.11)  |





# PHOENIX LED ZOOM PROFILE SPOT

## PHOTOMETRIC PERFORMANCE DATA

### ENGINE: TUNABLE WHITE AT FULL (4200K) LENS: 15-30 Degree Zoom Lens

#### 3K & 5.6K Channels at Full at 15 Degree (4.2K)

|   |                         |                        |                      |                      |                      |                      |                      |                      |                   |                   |
|---|-------------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m            | 15'<br>4.57m           | 20'<br>6.09m         | 25'<br>7.62m         | 30'<br>9.14m         | 35'<br>10.67m        | 40'<br>12.19m        | 45'<br>13.72m        | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 2'-9"<br>0.85m          | 3'-11"<br>1.19m        | 5'<br>1.54m          | 6'-2"<br>1.89m       | 7'-4"<br>2.24m       | 8'-6"<br>2.58m       | 9'-7"<br>2.93m       | 10'-9"<br>3.28m      | 11'-11"<br>3.63m  | 13'<br>3.97m      |
| Illuminance = fc<br>(Illuminance = lux) | 2,121.42<br>(22,834.77) | 9,42.85<br>(10,148.79) | 530.36<br>(5,708.69) | 339.43<br>(3,653.56) | 235.71<br>(2,537.20) | 173.18<br>(1,864.06) | 132.59<br>(1,427.17) | 104.76<br>(1,127.64) | 84.86<br>(913.39) | 70.13<br>(754.87) |

#### 3K & 5.6K Channels at Full at 22.5 Degree (4.2K)

|   |                      |                      |                      |                      |                     |                   |                   |                   |                   |                   |
|---|----------------------|----------------------|----------------------|----------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m         | 30'<br>9.14m        | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 4'-3"<br>1.30m       | 6'-2"<br>1.88m       | 8'-1"<br>2.46m       | 9'-11"<br>3.03m      | 11'-10"<br>3.61m    | 13'-9"<br>4.18m   | 15'-7"<br>4.76m   | 17'-6"<br>5.34m   | 19'-5"<br>5.91m   | 21'-3"<br>6.49m   |
| Illuminance = fc<br>(Illuminance = lux) | 889.16<br>(9,570.83) | 395.18<br>(4,253.70) | 222.29<br>(2,392.71) | 142.27<br>(1,531.33) | 98.80<br>(1,063.42) | 72.58<br>(781.29) | 55.57<br>(598.17) | 43.91<br>(472.63) | 35.57<br>(382.83) | 29.39<br>(316.39) |

#### 3K & 5.6K Channels at Full at 30 Degree (4.2K)

|   |                      |                      |                      |                   |                   |                   |                   |                   |                   |                   |
|---|----------------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 5'-10"<br>1.79m      | 8'-6"<br>2.60m       | 11'-2"<br>3.42m      | 13'-11"<br>4.24m  | 16'-7"<br>5.05m   | 19'-3"<br>5.87m   | 21'-11"<br>6.69m  | 24'-7"<br>7.50m   | 27'-3"<br>8.32m   | 29'-11"<br>9.14m  |
| Illuminance = fc<br>(Illuminance = lux) | 518.47<br>(5,580.86) | 230.44<br>(2,480.38) | 129.62<br>(1,395.21) | 82.96<br>(892.93) | 57.61<br>(620.09) | 42.32<br>(455.58) | 32.40<br>(348.80) | 25.60<br>(275.59) | 20.74<br>(223.23) | 17.14<br>(184.49) |

## PHOTOMETRIC PERFORMANCE DATA

### ENGINE: TUNABLE 3K5K (3K Channel @ FULL) LENS: 15-30 Degree Zoom Lens

#### 3K Channel Full at 15 Degree

|   |                       |                      |                      |                      |                      |                   |                   |                   |                   |                   |
|---|-----------------------|----------------------|----------------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m          | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m         | 30'<br>9.14m         | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 2'-9"<br>0.85m        | 3'-11"<br>1.19m      | 5'<br>1.54m          | 6'-2"<br>1.89m       | 7'-4"<br>2.24m       | 8'-6"<br>2.58m    | 9'-7"<br>2.93m    | 10'-9"<br>3.28m   | 11'-11"<br>3.63m  | 13'<br>3.97m      |
| Illuminance = fc<br>(Illuminance = lux) | 973.59<br>(10,479.65) | 432.71<br>(4,657.62) | 243.40<br>(2,619.91) | 155.77<br>(1,676.74) | 108.18<br>(1,164.40) | 79.48<br>(855.48) | 60.85<br>(654.97) | 48.08<br>(517.51) | 38.94<br>(419.18) | 32.18<br>(346.43) |

#### 3K Channel Full at 22.5 Degree

|   |                     |                     |                     |                   |                   |                   |                   |                   |                   |                   |
|---|---------------------|---------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m        | 15'<br>4.57m        | 20'<br>6.09m        | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 4'-3"<br>1.30m      | 6'-2"<br>1.88m      | 8'-1"<br>2.46m      | 9'-11"<br>3.03m   | 11'-10"<br>3.61m  | 13'-9"<br>4.18m   | 15'-7"<br>4.76m   | 17'-6"<br>5.34m   | 19'-5"<br>5.91m   | 21'-3"<br>6.49m   |
| Illuminance = fc<br>(Illuminance = lux) | 408.06<br>(4392.38) | 181.36<br>(1952.16) | 102.02<br>(1098.09) | 65.29<br>(702.78) | 45.34<br>(488.04) | 33.31<br>(358.56) | 25.50<br>(274.52) | 20.15<br>(216.90) | 16.32<br>(175.69) | 13.49<br>(145.20) |

#### 3K Channel at 30 Degree

|   |                      |                      |                   |                   |                   |                   |                   |                   |                  |                  |
|---|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m    | 55'<br>16.76m    |
| Beam Size Diameter                      | 5'-10"<br>1.79m      | 8'-6"<br>2.60m       | 11'-2"<br>3.42m   | 13'-11"<br>4.24m  | 16'-7"<br>5.05m   | 19'-3"<br>5.87m   | 21'-11"<br>6.69m  | 24'-7"<br>7.50m   | 27'-3"<br>8.32m  | 29'-11"<br>9.14m |
| Illuminance = fc<br>(Illuminance = lux) | 237.94<br>(2,561.24) | 105.75<br>(1,138.33) | 59.49<br>(640.31) | 38.07<br>(409.79) | 26.44<br>(284.58) | 19.42<br>(209.08) | 14.87<br>(160.07) | 11.75<br>(126.48) | 9.52<br>(102.44) | 7.87<br>(84.66)  |



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## PHOTOMETRIC PERFORMANCE DATA

### ENGINE: TUNABLE 3K5K (5.6K Channel @ FULL) LENS: 15-30 Degree Zoom

#### 5.6K Channel Full at 15 Degree

|   |                         |                      |                      |                      |                      |                     |                   |                   |                   |                   |
|---|-------------------------|----------------------|----------------------|----------------------|----------------------|---------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m            | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m         | 30'<br>9.14m         | 35'<br>10.67m       | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 2'-9"<br>0.85m          | 3'-11"<br>1.19m      | 5'<br>1.54m          | 6'-2"<br>1.89m       | 7'-4"<br>2.24m       | 8'-6"<br>2.58m      | 9'-7"<br>2.93m    | 10'-9"<br>3.28m   | 11'-11"<br>3.63m  | 13'<br>3.97m      |
| Illuminance = fc<br>(Illuminance = lux) | 1,171.30<br>(12,607.83) | 520.58<br>(5,603.48) | 292.83<br>(3,151.95) | 187.41<br>(2,017.25) | 130.15<br>(1,400.87) | 95.62<br>(1,028.21) | 73.21<br>(787.98) | 57.84<br>(622.60) | 46.85<br>(504.31) | 38.72<br>(416.78) |

#### 5.6K Channel Full at 22.5 Degree

|   |                      |                      |                      |                  |                   |                   |                   |                   |                   |                   |
|---|----------------------|----------------------|----------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m     | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 4'-3"<br>1.30m       | 6'-2"<br>1.88m       | 8'-1"<br>2.46m       | 9'-11"<br>3.03m  | 11'-10"<br>3.61m  | 13'-9"<br>4.18m   | 15'-7"<br>4.76m   | 17'-6"<br>5.34m   | 19'-5"<br>5.91m   | 21'-3"<br>6.49m   |
| Illuminance = fc<br>(Illuminance = lux) | 490.93<br>(5,284.37) | 218.19<br>(2,348.61) | 122.73<br>(1,321.09) | 78.55<br>(845.5) | 54.55<br>(587.15) | 40.08<br>(431.37) | 30.68<br>(330.27) | 24.24<br>(260.95) | 19.64<br>(211.37) | 16.23<br>(174.69) |

#### 5.6K Channel at 30 Degree

|   |                      |                      |                   |                   |                   |                   |                   |                   |                   |                  |
|---|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m    |
| Beam Size Diameter                      | 5'-10"<br>1.79m      | 8'-6"<br>2.60m       | 11'-2"<br>3.42m   | 13'-11"<br>4.24m  | 16'-7"<br>5.05m   | 19'-3"<br>5.87m   | 21'-11"<br>6.69m  | 24'-7"<br>7.50m   | 27'-3"<br>8.32m   | 29'-11"<br>9.14m |
| Illuminance = fc<br>(Illuminance = lux) | 286.26<br>(3,081.37) | 127.23<br>(1,369.50) | 71.57<br>(770.34) | 45.80<br>(493.02) | 31.81<br>(342.37) | 23.37<br>(251.54) | 17.89<br>(192.58) | 14.14<br>(152.16) | 11.45<br>(123.25) | 9.46<br>(101.86) |

## PHOTOMETRIC PERFORMANCE DATA

### ENGINE: TUNABLE WHITE AT FULL (4.2K) LENS: 30-50 Degree Zoom Lens

#### 3K & 5.6K Channels at Full at 30 Degree Lens (4.2K)

|   |                      |                      |                      |                      |                   |                   |                   |                   |                   |                   |
|---|----------------------|----------------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m         | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 5'-6"<br>1.69m       | 8'<br>2.45m          | 10'-7"<br>3.22m      | 13'-1"<br>3.98m      | 15'-7"<br>4.75m   | 18'-1"<br>5.52m   | 20'-7"<br>6.28m   | 23'-2"<br>7.05m   | 25'-8"<br>7.82m   | 28'-2"<br>8.58m   |
| Illuminance = fc<br>(Illuminance = lux) | 642.91<br>(6,920.22) | 285.74<br>(3,075.65) | 160.73<br>(1,730.05) | 102.87<br>(1,107.23) | 71.43<br>(768.91) | 52.48<br>(564.91) | 40.18<br>(432.51) | 31.75<br>(341.73) | 25.72<br>(276.80) | 21.25<br>(228.76) |

#### 3K & 5.6K Channels at Full at 40 Degree (4.2K)

|   |                      |                      |                      |                   |                   |                   |                   |                   |                   |                   |
|---|----------------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m         | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 7'-1"<br>2.16m       | 10'-5"<br>3.17m      | 13'-8"<br>4.17m      | 17'<br>5.18m      | 20'-3"<br>6.18m   | 23'-7"<br>7.19m   | 26'-11"<br>8.19m  | 30'-2"<br>9.20m   | 33'-6"<br>10.20m  | 36'-9"<br>11.21m  |
| Illuminance = fc<br>(Illuminance = lux) | 432.85<br>(4,659.21) | 192.38<br>(2,070.76) | 108.21<br>(1,164.80) | 69.26<br>(745.47) | 48.10<br>(517.69) | 35.34<br>(380.34) | 27.05<br>(291.20) | 21.38<br>(230.08) | 17.31<br>(186.36) | 14.31<br>(154.02) |

#### 3K & 5.6K Channels at Full at 50 Degree (4.2K)

|   |                      |                      |                   |                   |                   |                   |                   |                   |                   |                   |
|---|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 8'-10"<br>2.68m      | 13'<br>3.95m         | 17'-1"<br>5.22m   | 21'-3"<br>6.48m   | 25'-5"<br>7.75m   | 29'-7"<br>9.01m   | 33'-9"<br>10.28m  | 37'-10"<br>11.54m | 42'<br>12.81m     | 46'-2"<br>14.08m  |
| Illuminance = fc<br>(Illuminance = lux) | 305.49<br>(3,288.27) | 135.77<br>(1,461.45) | 76.37<br>(822.06) | 48.88<br>(526.12) | 33.94<br>(365.36) | 24.94<br>(265.51) | 19.09<br>(205.38) | 15.09<br>(162.38) | 12.22<br>(131.53) | 10.10<br>(108.70) |



# PHOENIX LED ZOOM PROFILE SPOT

## PHOTOMETRIC PERFORMANCE DATA

### ENGINE: TUNABLE 3K5K (3K Channel @ FULL) LENS: 30-50 Degree Zoom Lens

#### 3K Channel Full at 30 Degree Lens

|   |                      |                      |                   |                   |                   |                   |                   |                   |                   |                  |
|---|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m    |
| Beam Size Diameter                      | 5'-6"<br>1.69m       | 8'<br>2.45m          | 10'-7"<br>3.22m   | 13'-1"<br>3.98m   | 15'-7"<br>4.75m   | 18'-1"<br>5.52m   | 20'-7"<br>6.28m   | 23'-2"<br>7.05m   | 25'-8"<br>7.82m   | 28'-2"<br>8.58m  |
| Illuminance = fc<br>(Illuminance = lux) | 295.05<br>(3,175.92) | 131.13<br>(1,411.52) | 73.76<br>(793.98) | 47.21<br>(508.14) | 32.78<br>(352.88) | 24.09<br>(259.25) | 18.44<br>(198.49) | 14.57<br>(156.83) | 11.80<br>(127.03) | 9.75<br>(104.98) |

#### 3K Channel Full at 40 Degree

|   |                      |                   |                   |                   |                   |                   |                   |                  |                  |                  |
|---|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m      | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m    | 50'<br>15.24m    | 55'<br>16.76m    |
| Beam Size Diameter                      | 7'-1"<br>2.16m       | 10'-5"<br>3.17m   | 13'-8"<br>4.17m   | 17'<br>5.18m      | 20'-3"<br>6.18m   | 23'-7"<br>7.19m   | 26'-11"<br>8.19m  | 30'-2"<br>9.20m  | 33'-6"<br>10.20m | 36'-9"<br>11.21m |
| Illuminance = fc<br>(Illuminance = lux) | 198.65<br>(2,138.27) | 88.29<br>(950.34) | 49.66<br>(534.56) | 31.78<br>(342.12) | 22.07<br>(237.58) | 16.22<br>(174.55) | 12.42<br>(133.64) | 9.81<br>(105.59) | 7.95<br>(85.53)  | 6.57<br>(70.68)  |

#### 3K Channel Full at 50 Degree

|   |                      |                   |                   |                   |                   |                   |                  |                   |                 |                  |
|---|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-----------------|------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m      | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m    | 45'<br>13.72m     | 50'<br>15.24m   | 55'<br>16.764m   |
| Beam Size Diameter                      | 8'-10"<br>2.68m      | 13'<br>3.95m      | 17.1'<br>5.22m    | 21'-3"<br>6.48m   | 25'-5"<br>7.75m   | 29'-7"<br>9.01m   | 33'-9"<br>10.28m | 37'-10"<br>11.54m | 42'<br>12.81m   | 46'-2"<br>14.08m |
| Illuminance = fc<br>(Illuminance = lux) | 140.20<br>(1,509.10) | 62.31<br>(670.71) | 35.05<br>(377.27) | 22.43<br>(241.45) | 15.58<br>(167.67) | 11.44<br>(123.19) | 8.76<br>(94.31)  | 6.92<br>(74.52)   | 5.61<br>(60.36) | 4.63<br>(49.88)  |

## PHOTOMETRIC PERFORMANCE DATA

### ENGINE: TUNABLE 3K5K (5.6K Channel @ FULL) LENS: 30-50 Degree Zoom

#### 5.6K Channel Full at 30 Degree Lens

|   |                      |                      |                   |                   |                   |                   |                   |                   |                   |                   |
|---|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m     | 55'<br>16.76m     |
| Beam Size Diameter                      | 5'-6"<br>1.69m       | 8'<br>2.45m          | 10'-7"<br>3.22m   | 13'-1"<br>3.98m   | 15'-7"<br>4.75m   | 18'-1"<br>5.52m   | 20'-7"<br>6.28m   | 23'-2"<br>7.05m   | 25'-8"<br>7.82m   | 28'-2"<br>8.58m   |
| Illuminance = fc<br>(Illuminance = lux) | 354.97<br>(3,820.88) | 157.77<br>(1,698.16) | 88.74<br>(955.22) | 56.80<br>(611.34) | 39.44<br>(424.54) | 28.98<br>(311.90) | 22.19<br>(238.80) | 17.53<br>(188.68) | 14.20<br>(152.83) | 11.73<br>(126.31) |

#### 5.6K Channel Full at 40 Degree

|   |                      |                      |                   |                   |                   |                   |                   |                   |                  |                  |
|---|----------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m         | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m    | 55'<br>16.76m    |
| Beam Size Diameter                      | 7'-1"<br>2.16m       | 10'-5"<br>3.17m      | 13'-8"<br>4.17m   | 17'<br>5.18m      | 20'-3"<br>6.18m   | 23'-7"<br>7.19m   | 26'-11"<br>8.19m  | 30'-2"<br>9.20m   | 33'-6"<br>10.20m | 36'-9"<br>11.21m |
| Illuminance = fc<br>(Illuminance = lux) | 238.99<br>(2,572.50) | 106.22<br>(1,143.33) | 59.75<br>(643.12) | 38.24<br>(411.60) | 26.55<br>(285.83) | 19.51<br>(210.00) | 14.94<br>(160.78) | 11.80<br>(127.03) | 9.56<br>(102.90) | 7.90<br>(85.04)  |

#### 5.6K Channel Full at 50 Degree

|   |                      |                   |                   |                   |                   |                   |                   |                   |                 |                  |
|---|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|------------------|
| Throw Distance (d)                      | 10'<br>3.05m         | 15'<br>4.57m      | 20'<br>6.09m      | 25'<br>7.62m      | 30'<br>9.14m      | 35'<br>10.67m     | 40'<br>12.19m     | 45'<br>13.72m     | 50'<br>15.24m   | 55'<br>16.764m   |
| Beam Size Diameter                      | 8'-10"<br>2.68m      | 13'<br>3.95m      | 17.1'<br>5.22m    | 21'-3"<br>6.48m   | 25'-5"<br>7.75m   | 29'-7"<br>9.01m   | 33'-9"<br>10.28m  | 37'-10"<br>11.54m | 42'<br>12.81m   | 46'-2"<br>14.08m |
| Illuminance = fc<br>(Illuminance = lux) | 168.67<br>(1,815.56) | 74.97<br>(806.91) | 42.17<br>(453.89) | 26.99<br>(290.49) | 18.74<br>(201.72) | 13.77<br>(148.20) | 10.54<br>(113.47) | 8.33<br>(89.65)   | 6.75<br>(72.62) | 5.58<br>(60.01)  |



BRINGING IMAGINATION TO LIGHT

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