



## LLH : LED LINEAR HIGHBAY

### DESCRIPTION

A rugged, high-value LED solution for highbay and lowbay applications, replacing multi-lamp fluorescent luminaires or up to 1000 watt HID fixtures.

### FEATURES

- >130 lpw ultra-high efficiency delivers superior performance over fluorescent and HID, saving up to 60% of energy costs
- Universal 0-10V driver for continuous dimming

### LISTINGS

- UL Listed for dry and damp locations
- DesignLights Consortium® Premium Qualified - meets the requirements for the highest DLC qualification for efficacy and lumen maintenance

### PERFORMANCE

- Rated lifetime L70  
>100,000 @ 40°C (104°F)  
>72,000 @ 50°C (122°F)
- 4000K, 5000K CCT
- CRI: 80+

### ELECTRICAL

- Input voltage: 120-277V, 347-480V
- Dimmable power supply (0-10V)
- Driver efficiency: >85%
- Power Factor: >.9
- THD: <20%
- Dimming sink current: 2mA

### THERMAL

- -22°F to 122°F (-30°C to 50°C) operating temperature

### CONSTRUCTION

- Heavy gauge steel body with welded frame construction resists twisting and bowing
- Diffuse frosted acrylic lens to control glare (standard) or optional clear lens for higher light output (sold separately)
- 10 ft. Y-toggle aircraft cable mounting hardware included
- Built-in 2.5kV surge protection

### WARRANTY

- 5 year limited warranty; see eiko.com for warranty details

|                |         |
|----------------|---------|
| project name   | type    |
| catalog number |         |
| comments       | voltage |
| approved by    | date    |



LLH-06D/1D/2D



LLH-3D



LLH-4D/5D



LLH-7D

### APPLICATIONS

- Warehouses
- Manufacturing Plants
- Distribution Centers
- Grocery Stores
- Gymnasiums
- Indoor Recreational Facilities
- Cold Storage
- Big Box Retail
- Service Repair Centers



## ORDERING INFORMATION

EXAMPLE: LLH-4D-50K-U

| Model                    | Lumen Package                                                                                                                                                                                                        | CCT                                      | Voltage                                    | Sensor                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| LLH : LED Linear Highbay | <b>06D</b> - 65W; 8,450 lm<br><b>1D</b> - 110W; 14,400 lm<br><b>2D</b> - 162W; 21,000 lm<br><b>3D</b> - 223W; 29,000 lm<br><b>4D</b> - 265W; 34,500 lm<br><b>5D</b> - 321W; 42,000 lm<br><b>7D</b> - 425W; 55,000 lm | <b>40K</b> - 4000K<br><b>50K</b> - 5000K | <b>U</b> - 120-277V<br><b>V</b> - 347-480V | <b>S1A</b> - Occupancy Sensor<br><b>(Blank)</b> - No sensor |

## PERFORMANCE SUMMARY

| Order Code | Item #        | Length | Watts | Nominal Lumens | LPW | CCT   | Lens    | Dimming | Volts    | Replaces           | DLC Premium |
|------------|---------------|--------|-------|----------------|-----|-------|---------|---------|----------|--------------------|-------------|
| 10568      | LLH-06D-40K-U | 2'     | 65W   | 8,450          | 130 | 4000K | Frosted | 0-10V   | 120-277V | HBF 6x T8/4x T5    | ✓           |
| 10570      | LLH-06D-50K-U | 2'     | 65W   | 8,450          | 130 | 5000K | Frosted | 0-10V   | 120-277V | HBF 6x T8/4x T5    | ✓           |
| 10571      | LLH-1D-40K-U  | 2'     | 110W  | 14,400         | 130 | 4000K | Frosted | 0-10V   | 120-277V | HBF 6x T8/4x T5    | ✓           |
| 10572      | LLH-1D-50K-U  | 2'     | 110W  | 14,400         | 130 | 5000K | Frosted | 0-10V   | 120-277V | HBF 6x T8/4x T5    | ✓           |
| 10573      | LLH-1D-40K-V  | 2'     | 110W  | 14,400         | 130 | 4000K | Frosted | 0-10V   | 347-480V | HBF 6x T8/4x T5    | ✓           |
| 10576      | LLH-1D-50K-V  | 2'     | 110W  | 14,400         | 130 | 5000K | Frosted | 0-10V   | 347-480V | HBF 6x T8/4x T5    | ✓           |
| 10579      | LLH-2D-40K-U  | 2'     | 162W  | 21,000         | 130 | 4000K | Frosted | 0-10V   | 120-277V | HBF 8x T8/6x T5 HO | ✓           |
| 10582      | LLH-2D-50K-U  | 2'     | 162W  | 21,000         | 130 | 5000K | Frosted | 0-10V   | 120-277V | HBF 8x T8/6x T5 HO | ✓           |
| 10585      | LLH-2D-40K-V  | 2'     | 162W  | 21,000         | 130 | 4000K | Frosted | 0-10V   | 347-480V | HBF 8x T8/6x T5 HO | ✓           |
| 10588      | LLH-2D-50K-V  | 2'     | 162W  | 21,000         | 130 | 5000K | Frosted | 0-10V   | 347-480V | HBF 8x T8/6x T5 HO | ✓           |
| 10590      | LLH-3D-40K-U  | 2'     | 223W  | 29,000         | 130 | 4000K | Frosted | 0-10V   | 120-277V | 8x T5 HO           | ✓           |
| 10593      | LLH-3D-50K-U  | 2'     | 223W  | 29,000         | 130 | 5000K | Frosted | 0-10V   | 120-277V | 8x T5 HO           | ✓           |
| 10595      | LLH-3D-40K-V  | 2'     | 223W  | 29,000         | 130 | 4000K | Frosted | 0-10V   | 347-480V | 8x T5 HO           | ✓           |
| 10596      | LLH-3D-50K-V  | 2'     | 223W  | 29,000         | 130 | 5000K | Frosted | 0-10V   | 347-480V | 8x T5 HO           | ✓           |
| 10597      | LLH-4D-40K-U  | 4'     | 265W  | 34,500         | 130 | 4000K | Frosted | 0-10V   | 120-277V | 10x T5 HO          | ✓           |
| 10599      | LLH-4D-50K-U  | 4'     | 265W  | 34,500         | 130 | 5000K | Frosted | 0-10V   | 120-277V | 10x T5 HO          | ✓           |
| 10602      | LLH-4D-40K-V  | 4'     | 265W  | 34,500         | 130 | 4000K | Frosted | 0-10V   | 347-480V | 10x T5 HO          | ✓           |
| 10604      | LLH-4D-50K-V  | 4'     | 265W  | 34,500         | 130 | 5000K | Frosted | 0-10V   | 347-480V | 10x T5 HO          | ✓           |
| 10605      | LLH-5D-40K-U  | 4'     | 321W  | 42,000         | 130 | 4000K | Frosted | 0-10V   | 120-277V | 1000W HID          | ✓           |
| 10606      | LLH-5D-50K-U  | 4'     | 321W  | 42,000         | 130 | 5000K | Frosted | 0-10V   | 120-277V | 1000W HID          | ✓           |
| 10607      | LLH-5D-40K-V  | 4'     | 321W  | 42,000         | 130 | 4000K | Frosted | 0-10V   | 347-480V | 1000W HID          | ✓           |
| 10608      | LLH-5D-50K-V  | 4'     | 321W  | 42,000         | 130 | 5000K | Frosted | 0-10V   | 347-480V | 1000W HID          | ✓           |
| 10609      | LLH-7D-40K-U  | 4'     | 425W  | 55,000         | 130 | 4000K | Frosted | 0-10V   | 120-277V | 1000W HID          | ✓           |
| 10610      | LLH-7D-50K-U  | 4'     | 425W  | 55,000         | 130 | 5000K | Frosted | 0-10V   | 120-277V | 1000W HID          | ✓           |
| 10611      | LLH-7D-40K-V  | 4'     | 425W  | 55,000         | 130 | 4000K | Frosted | 0-10V   | 347-480V | 1000W HID          | ✓           |
| 10612      | LLH-7D-50K-V  | 4'     | 425W  | 55,000         | 130 | 5000K | Frosted | 0-10V   | 347-480V | 1000W HID          | ✓           |

✓DesignLights Consortium® Premium Qualified

†Quick Ship Sensor Option

## FIXTURE SIZE CROSS REFERENCE

Fixture sizes are different; please refer to chart below for current fixture size.

| LLH-C SERIES | Fixture Size | LLH-D SERIES                                                                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|--------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |              | 06D                                                                                 | 1D                                                                                  | 2D                                                                                  | 3D                                                                                  | 4D                                                                                  | 5D                                                                                  | 7D                                                                                  |
| 1C           | 1x2          |  |  |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 2C           | 1.5x2        |                                                                                     |                                                                                     |                                                                                     |  |                                                                                     |                                                                                     |                                                                                     |
| 3C           | 1x4          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |  |                                                                                     |
| 4C           | 1.5x4        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| 5C           |              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

\*For reference only; refer to performance summary above for fixture performance.

## AVAILABLE ACCESSORIES

| Order Code | Item #           | Description                                             |
|------------|------------------|---------------------------------------------------------|
| 09850      | FHSCP-UNV-10.7WL | 10.7W Emergency Battery Backup                          |
| 09852      | FHSCP-UNV-13.7WL | 13.7W Emergency Battery Backup                          |
| 09854      | FHSCP-UNV-17WL   | 17W Emergency Battery Backup                            |
| 09849      | FHSCP-UNV-5WL    | 5W Emergency Battery Backup                             |
| 09851      | FHSCP-UNV-7.8WL  | 7.8W Emergency Battery Backup                           |
| 09226      | LLH-CHAIN        | Mounting Chain for LLH, 1.05 meters (1 pair)            |
| 09336      | LLH-CL-2x1       | Clear Lens for LLH-1C-xxK-U                             |
| 09337      | LLH-CL-2x1.5     | Clear Lens for LLH-2C-xxK-U                             |
| 09338      | LLH-CL-4x1       | Clear Lens for LLH-3C-xxK-U                             |
| 09700      | LLH-CL-4x1.5     | Replacement Clear Lens for LLH-4C-xxK-U, LLH-5C-xxK-U   |
| 09339      | LLH-FL-2x1       | Replacement Frosted Lens for LLH-1C-xxK-U               |
| 09340      | LLH-FL-2x1.5     | Replacement Frosted Lens for LLH-2C-xxK-U               |
| 09341      | LLH-FL-4x1       | Replacement Frosted Lens for LLH-3C-xxK-U               |
| 09701      | LLH-FL-4x1.5     | Replacement Frosted Lens for LLH-4C-xxK-U, LLH-5C-xxK-U |

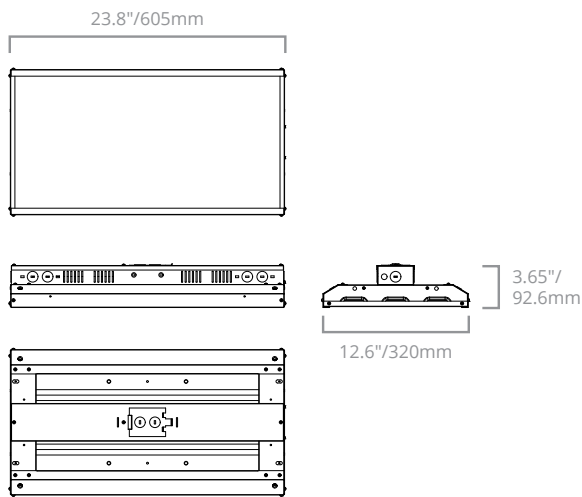
| Order Code | Item #                  | Description                                                  |
|------------|-------------------------|--------------------------------------------------------------|
| 09227      | LLH-PENDANT BOX         | Pendant Box for 120/277V LLH, 1/2" Nominal Pipe Dia.         |
| 09906      | LLH-PENDANT BOX-347/480 | Pendant Box for 347/480V LLH, 1/2" Nominal Pipe Diameter     |
| 09818      | LLH-SMK-1               | Surface Mount Kit, 12.6"                                     |
| 09819      | LLH-SMK-2               | Surface Mount Kit, 17.3"                                     |
| 09230      | LLH-V HOOK-1            | V-Hook (1 pair) for LLH-1C-xxK-U, LLH-3C-xxK-U               |
| 09229      | LLH-V HOOK-1.5          | V-Hook (1 pair) for LLH-2C-xxK-U, LLH-4C-xxK-U, LLH-5C-xxK-U |
| 09222      | LLH-WG-2x1              | Wireguard for LLH-1C-xxK-U                                   |
| 09223      | LLH-WG-2x1.5            | Wireguard for LLH-2C-xxK-U                                   |
| 09224      | LLH-WG-4x1              | Wireguard for LLH-3C-xxK-U                                   |
| 09702      | LLH-WG-4x1.5            | Wireguard for LLH-4C-xxK-U, LLH-5C-xxK-U                     |
| 08845      | LLH-YTK                 | Y-Toggle Cable – 10 ft. (1 only/2 needed per order)          |

For sensor options, see Eiko Sensor Overview at [eiko.com](https://eiko.com) 

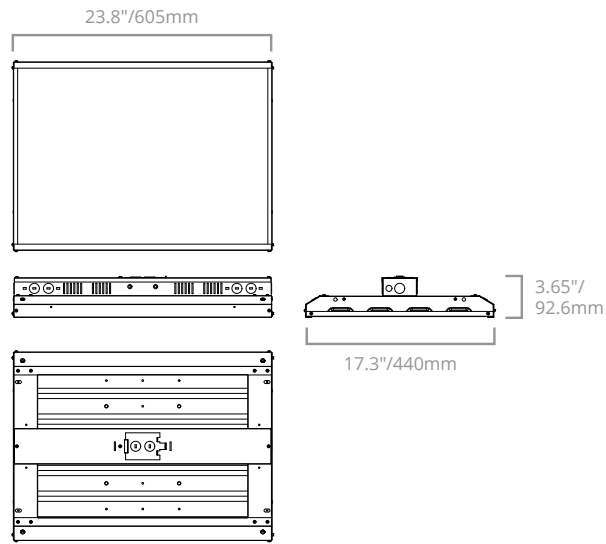
## ACCESSORIES CROSS REFERENCE

| Order Code | Item #                  | Description                                                  | 06D | 1D | 2D | 3D | 4D | 5D | 7D | "U" | "V" |
|------------|-------------------------|--------------------------------------------------------------|-----|----|----|----|----|----|----|-----|-----|
| 09850      | FHSCP-UNV-10.7WL        | 10.7W Emergency Battery Backup                               | ✓   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓   | ✗   |
| 09852      | FHSCP-UNV-13.7WL        | 13.7W Emergency Battery Backup                               | ✓   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |     |     |
| 09854      | FHSCP-UNV-17WL          | 17W Emergency Battery Backup                                 | ✓   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |     |     |
| 09849      | FHSCP-UNV-5WL           | 5W Emergency Battery Backup                                  | ✓   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |     |     |
| 09851      | FHSCP-UNV-7.8WL         | 7.8W Emergency Battery Backup                                | ✓   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |     |     |
| 09226      | LLH-CHAIN               | Mounting Chain for LLH, 1.05 meters (1 pair)                 | ✓   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓   | ✓   |
| 09336      | LLH-CL-2x1              | Clear Lens for LLH-1C-xxK-U                                  | ✓   | ✓  | ✓  | ✗  | ✗  | ✗  | ✗  | ✓   | ✓   |
| 09337      | LLH-CL-2x1.5            | Clear Lens for LLH-2C-xxK-U                                  | ✗   | ✗  | ✗  | ✓  | ✗  | ✗  | ✗  | ✓   | ✓   |
| 09338      | LLH-CL-4x1              | Clear Lens for LLH-3C-xxK-U                                  | ✗   | ✗  | ✗  | ✗  | ✓  | ✓  | ✗  | ✓   | ✓   |
| 09700      | LLH-CL-4x1.5            | Replacement Clear Lens for LLH-4C-xxK-U, LLH-5C-xxK-U        | ✗   | ✗  | ✗  | ✗  | ✗  | ✗  | ✓  | ✓   | ✓   |
| 09339      | LLH-FL-2x1              | Replacement Frosted Lens for LLH-1C-xxK-U                    | ✓   | ✓  | ✓  | ✗  | ✗  | ✗  | ✗  | ✓   | ✓   |
| 09340      | LLH-FL-2x1.5            | Replacement Frosted Lens for LLH-2C-xxK-U                    | ✗   | ✗  | ✗  | ✓  | ✗  | ✗  | ✗  | ✓   | ✓   |
| 09341      | LLH-FL-4x1              | Replacement Frosted Lens for LLH-3C-xxK-U                    | ✗   | ✗  | ✗  | ✗  | ✓  | ✓  | ✗  | ✓   | ✓   |
| 09701      | LLH-FL-4x1.5            | Replacement Frosted Lens for LLH-4C-xxK-U, LLH-5C-xxK-U      | ✗   | ✗  | ✗  | ✗  | ✗  | ✗  | ✓  | ✓   | ✓   |
| 09227      | LLH-PENDANT BOX         | Pendant Box for 120/277V LLH, 1/2" Nominal Pipe Dia.         | ✓   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓   | ✗   |
| 09906      | LLH-PENDANT BOX-347/480 | Pendant Box for 347/480V LLH, 1/2" Nominal Pipe Dia.         | ✓   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✗   | ✓   |
| 09818      | LLH-SMK-1               | Surface Mount Kit, 12.6"                                     | ✓   | ✓  | ✓  | ✗  | ✓  | ✓  | ✗  | ✓   | ✓   |
| 09819      | LLH-SMK-2               | Surface Mount Kit, 17.3"                                     | ✗   | ✗  | ✗  | ✓  | ✗  | ✗  | ✓  | ✓   | ✓   |
| 09230      | LLH-V HOOK-1            | V-Hook (1 pair) for LLH-1C-xxK-U, LLH-3C-xxK-U               | ✓   | ✓  | ✓  | ✗  | ✓  | ✓  | ✗  | ✓   | ✓   |
| 09229      | LLH-V HOOK-1.5          | V-Hook (1 pair) for LLH-2C-xxK-U, LLH-4C-xxK-U, LLH-5C-xxK-U | ✗   | ✗  | ✗  | ✓  | ✗  | ✗  | ✓  | ✓   | ✓   |
| 09222      | LLH-WG-2x1              | Wireguard for LLH-1C-xxK-U                                   | ✓   | ✓  | ✓  | ✗  | ✗  | ✗  | ✗  | ✓   | ✓   |
| 09223      | LLH-WG-2x1.5            | Wireguard for LLH-2C-xxK-U                                   | ✗   | ✗  | ✗  | ✓  | ✗  | ✗  | ✗  | ✓   | ✓   |
| 09224      | LLH-WG-4x1              | Wireguard for LLH-3C-xxK-U                                   | ✗   | ✗  | ✗  | ✗  | ✓  | ✓  | ✗  | ✓   | ✓   |
| 09702      | LLH-WG-4x1.5            | Wireguard for LLH-4C-xxK-U, LLH-5C-xxK-U                     | ✗   | ✗  | ✗  | ✗  | ✗  | ✗  | ✓  | ✓   | ✓   |
| 08845      | LLH-YTK                 | Y-Toggle Cable – 10 ft. (1 only/2 needed per order)          | ✓   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓   | ✓   |

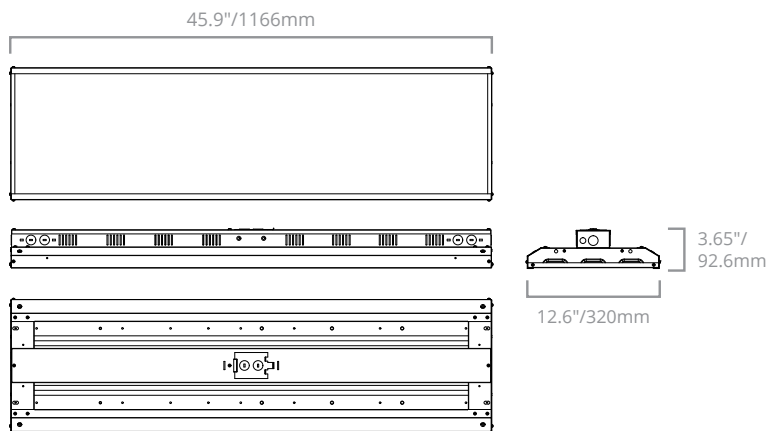
DIMENSIONS



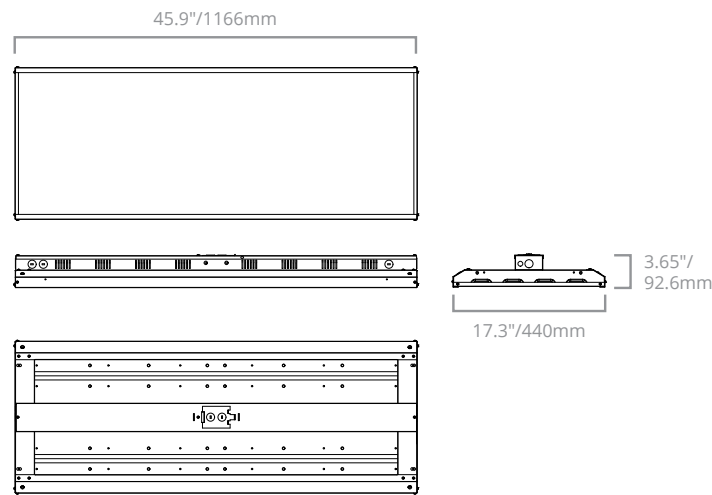
LLH-06D/1D/2D



LLH-3D



LLH-4D/5D

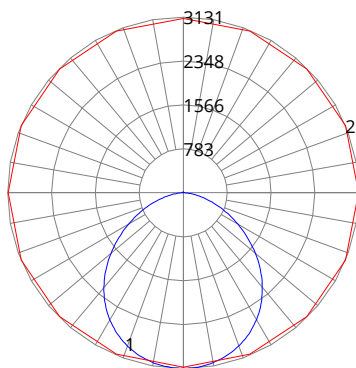


LLH-7D

# PHOTOMETRICS

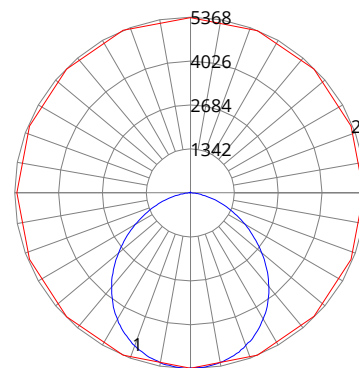
LLH-06D-xxK-y

| ZONAL LUMEN SUMMARY |         |          |
|---------------------|---------|----------|
| Zone                | Lumens  | %Fixture |
| 0-30                | 2415.38 | 29.8%    |
| 0-40                | 3925.65 | 48.4%    |
| 0-60                | 6674.89 | 82.4%    |
| 0-80                | 7968.02 | 98.3%    |
| 0-90                | 8066.81 | 99.5%    |
| 60-80               | 1293.13 | 16.0%    |
| 70-80               | 434.40  | 5.4%     |
| 80-90               | 98.79   | 1.2%     |
| 0-180               | 8105.08 | 100%     |



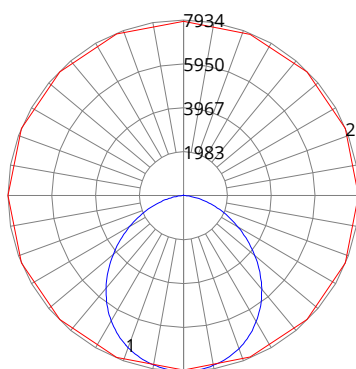
LLH-1D-xxK-y

| ZONAL LUMEN SUMMARY |          |          |
|---------------------|----------|----------|
| Zone                | Lumens   | %Fixture |
| 0-30                | 4124.4   | 29.8%    |
| 0-40                | 6690.37  | 48.3%    |
| 0-60                | 11369.92 | 82.1%    |
| 0-80                | 13618.25 | 98.4%    |
| 0-90                | 13797.97 | 99.7%    |
| 60-80               | 2248.33  | 16.2%    |
| 70-80               | 763.37   | 5.5%     |
| 80-90               | 179.72   | 1.3%     |
| 0-180               | 13841.93 | 100%     |



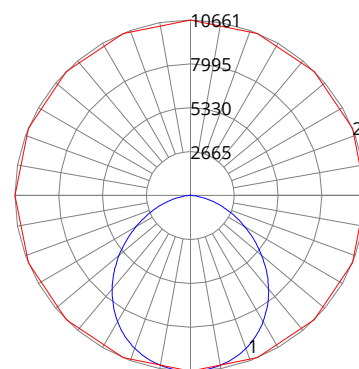
LLH-2D-xxK-y

| ZONAL LUMEN SUMMARY |          |          |
|---------------------|----------|----------|
| Zone                | Lumens   | %Fixture |
| 0-30                | 6085.76  | 30.0%    |
| 0-40                | 9850.05  | 48.6%    |
| 0-60                | 16662.35 | 82.2%    |
| 0-80                | 19931.55 | 98.3%    |
| 0-90                | 20202.57 | 99.6%    |
| 60-80               | 3269.19  | 16.1%    |
| 70-80               | 1114.31  | 5.5%     |
| 80-90               | 271.02   | 1.3%     |
| 0-180               | 20273.93 | 100%     |



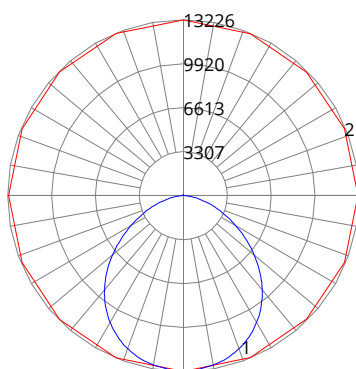
LLH-3D-xxK-y

| ZONAL LUMEN SUMMARY |          |          |
|---------------------|----------|----------|
| Zone                | Lumens   | %Fixture |
| 0-30                | 8224.91  | 29.9%    |
| 0-40                | 13331.08 | 48.5%    |
| 0-60                | 22593.37 | 82.2%    |
| 0-80                | 27035.74 | 98.3%    |
| 0-90                | 27392.8  | 99.6%    |
| 60-80               | 4442.36  | 16.2%    |
| 70-80               | 1514.17  | 5.5%     |
| 80-90               | 357.07   | 1.3%     |
| 0-180               | 27496.39 | 100%     |



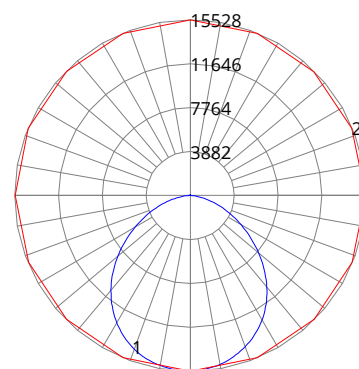
LLH-4D-xxK-y

| ZONAL LUMEN SUMMARY |          |          |
|---------------------|----------|----------|
| Zone                | Lumens   | %Fixture |
| 0-30                | 10218.99 | 29.8%    |
| 0-40                | 16619.88 | 48.5%    |
| 0-60                | 28250.23 | 82.5%    |
| 0-80                | 33703.2  | 98.4%    |
| 0-90                | 34124.94 | 99.6%    |
| 60-80               | 5452.98  | 15.9%    |
| 70-80               | 1835.73  | 5.4%     |
| 80-90               | 421.73   | 1.2%     |
| 0-180               | 34253.9  | 100%     |



LLH-5D-xxK-y

| ZONAL LUMEN SUMMARY |          |          |
|---------------------|----------|----------|
| Zone                | Lumens   | %Fixture |
| 0-30                | 11957.77 | 29.8%    |
| 0-40                | 19397.12 | 48.4%    |
| 0-60                | 32941.45 | 82.2%    |
| 0-80                | 39411.08 | 98.4%    |
| 0-90                | 39927.84 | 99.7%    |
| 60-80               | 6469.63  | 16.1%    |
| 70-80               | 2197.49  | 5.5%     |
| 80-90               | 516.76   | 1.3%     |
| 0-180               | 40067.53 | 100%     |



LLH-7D-xxK-y

| ZONAL LUMEN SUMMARY |          |          |
|---------------------|----------|----------|
| Zone                | Lumens   | %Fixture |
| 0-30                | 16296.36 | 29.7%    |
| 0-40                | 26494.6  | 48.2%    |
| 0-60                | 45140.66 | 82.2%    |
| 0-80                | 54066.22 | 98.4%    |
| 0-90                | 54795.46 | 99.8%    |
| 60-80               | 8925.56  | 16.2%    |
| 70-80               | 3030.24  | 5.5%     |
| 80-90               | 729.24   | 1.3%     |
| 0-180               | 54931.57 | 100%     |

