

## LED COMFO® Spot Light HP

### Datasheet



IP20

LED COMFO® Spot Light HP series is the recessed ceiling spot light solution as a replacement for existing inefficient halogen spot light. High power LED lighting with concave stepping cover design provides high brightness yet good glare control. LED COMFO® Spot Light HP series provides flexible power, color temperature and beam angles with adjustable structure to provide the perfect fit lighting for commercial applications.

### Benefits

Flexible product options

- 15° / 24° / 40° beam angle options
- 6W / 9W / 18W / 30W power options
- 30° vertical adjustable

Reliability

- Die-casting housing
- Spray finished metal rim provides rich product textures

Quality light

- Best-in-class COB platform provides consistent and even color and brightness
- Concave stepping cover design to offer good glare control
- Highly reflective reflector to offer good light uniformity

### Applications

- Merchandise displays
- Commercial buildings
- Retail stores
- Shopping Malls
- Lobbies and corridors

# LED COMFO® Spot Light HP

## Technical Data

### Optical Specifications

|               |                 | 6W                  | 9W      | 18W     | 30W     |
|---------------|-----------------|---------------------|---------|---------|---------|
| Luminous Flux | 3000K           | 472 lm              | 631 lm  | 1309 lm | 2319 lm |
|               | 4000K           | 505 lm              | 675 lm  | 1400 lm | 2480 lm |
|               | 5700K           | 538 lm              | 719 lm  | 1491 lm | 2641 lm |
| Efficacy      | 3000K           | 79 lm/W             | 70 lm/W | 73 lm/W | 77 lm/W |
|               | 4000K           | 84 lm/W             | 75 lm/W | 78 lm/W | 83 lm/W |
|               | 5700K           | 90 lm/W             | 80 lm/W | 83 lm/W | 88 lm/W |
| CCT           |                 | 3000K, 4000K, 5700K |         |         |         |
| CRI           |                 | 80                  |         |         |         |
| SDCM          | 3000K,<br>4000K | 3                   |         |         |         |
| Beam Angle    |                 | 15°, 24°, 40°       |         |         |         |

### Electrical and Mechanical Specifications

|                   |          |                                      |                    |                    |                  |
|-------------------|----------|--------------------------------------|--------------------|--------------------|------------------|
| Input Voltage     |          | 220-240V AC 50/60Hz                  |                    |                    |                  |
| Power Consumption |          | 6W                                   | 9W                 | 18W                | 30W              |
| Power Factor      |          | 0.9                                  | 0.95               | 0.95               | 0.95             |
| Surge Protection  |          | Line-to-line 0.5KV                   | Line-to-line 0.5KV | Line-to-line 0.5KV | Line-to-line 1KV |
| Dimensions        | Diameter | 77mm                                 | 91mm               | 111mm              | 140mm            |
|                   | Height   | 59mm                                 | 65mm               | 85mm               | 106mm            |
| Weight            |          | 0.15kg                               | 0.26kg             | 0.4kg              | 0.68kg           |
| Cover Lens        |          | PC reflector and aluminium plating   |                    |                    |                  |
| Housing           |          | Die-casting aluminium housing, black |                    |                    |                  |

### System Specifications

|                            |          |                                               |      |      |       |
|----------------------------|----------|-----------------------------------------------|------|------|-------|
| Power                      |          | AC line                                       |      |      |       |
| Dimmable                   |          | ON/OFF only                                   |      |      |       |
| Installation               |          | Recessed mounting                             |      |      |       |
| Mounting Hole              | Diameter | 68mm                                          | 75mm | 95mm | 120mm |
| Suitable Ceiling Thickness |          | 2-20mm                                        |      |      |       |
| Operating Temperature      |          | −20°C to +40°C                                |      |      |       |
| Storage Temperature        |          | −30°C to +80°C                                |      |      |       |
| Environment                |          | Indoor (IP20)                                 |      |      |       |
| Lumen Maintenance          |          | L70 @25°C - 25,000hrs                         |      |      |       |
| Safety Approval            |          | Electrical Protection Class II, CB, CCC, RoHS |      |      |       |

Due to the special conditions of manufacturing process of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from typical data.

Exceeding maximum ratings for operation voltage will cause hazardous overload and will likely destroy the LED module.

Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED module.

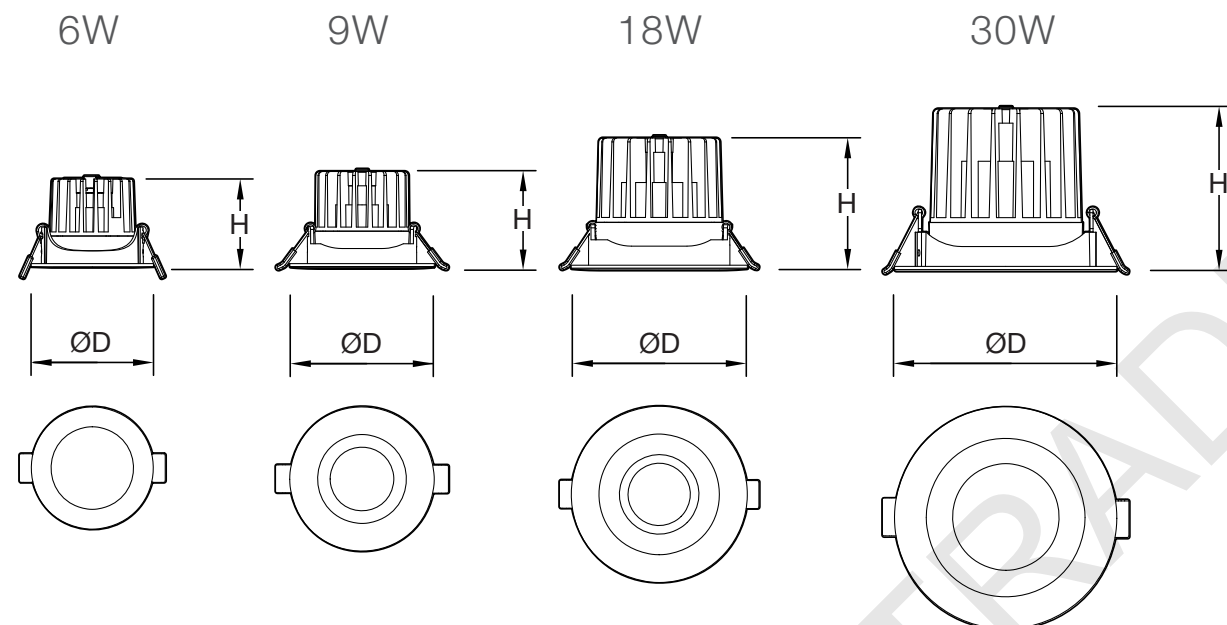
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## Dimensions



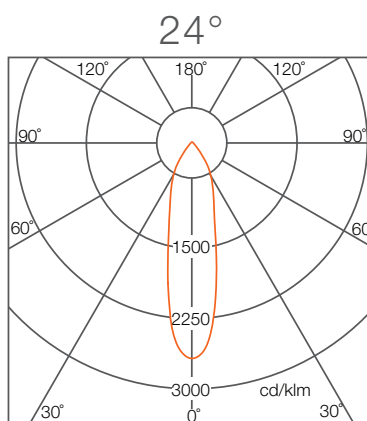
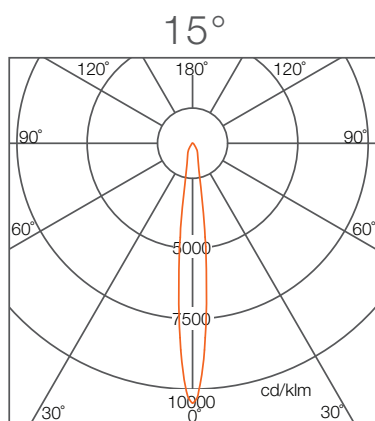
### Dimensions

|    | 6W   | 9W   | 18W   | 30W   |
|----|------|------|-------|-------|
| ØD | 77mm | 91mm | 111mm | 140mm |
| H  | 59mm | 65mm | 85mm  | 106mm |

# LED COMFO® Spot Light HP

## Photometrics

### Light Distribution Curve



### Illuminance at a distance

|      | Center Beam Lux/klm | Beam Width |
|------|---------------------|------------|
| 0.5m | 41473               | 0.11m      |
| 1m   | 10368               | 0.21m      |
| 1.5m | 4608                | 0.32m      |
| 2m   | 2592                | 0.42m      |
| 2.5m | 1659                | 0.53m      |
| 3m   | 1152                | 0.63m      |

For feet multiply by 3.28

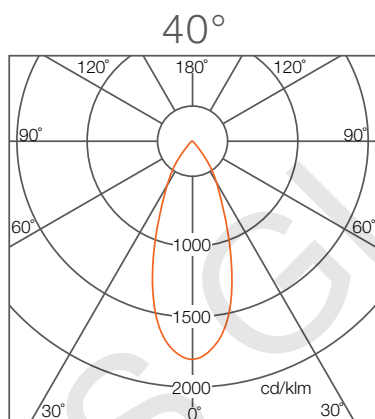
● Spread: 12°  
For fc divide by 10.7

|      | Center Beam Lux/klm | Beam Width |
|------|---------------------|------------|
| 0.5m | 10524               | 0.23m      |
| 1m   | 2631                | 0.45m      |
| 1.5m | 1169                | 0.68m      |
| 2m   | 658                 | 0.91m      |
| 2.5m | 421                 | 1.14m      |
| 3m   | 292                 | 1.36m      |

For feet multiply by 3.28

● Spread: 25.6°  
For fc divide by 10.7

### Light Distribution Curve



### Illuminance at a distance

|      | Center Beam Lux/klm | Beam Width |
|------|---------------------|------------|
| 0.5m | 7234                | 0.36m      |
| 1m   | 1809                | 0.73m      |
| 1.5m | 804                 | 1.09m      |
| 2m   | 452                 | 1.46m      |
| 2.5m | 289                 | 1.82m      |
| 3m   | 201                 | 2.18m      |

For feet multiply by 3.28

● Spread: 40°  
For fc divide by 10.7

Due to the manufacturing processes of LED, the polar candela distribution and distance luminaries only reflect statistical figures and do not necessarily correspond to the actual parameters of individual product that may differ from the typical values.

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## Ordering Codes

### Fixture

| Short Text                             | Power | CCT   | Beam Angle | Material    | EAN10         | EAN40         |
|----------------------------------------|-------|-------|------------|-------------|---------------|---------------|
| LED COMFO SL HP 6W 830 15D 48X1 OSRAM  | 6W    | 3000K | 15°        | AM039950055 | 4052899479227 | 4052899479234 |
| LED COMFO SL HP 6W 840 15D 48X1 OSRAM  | 6W    | 4000K | 15°        | AM039960055 | 4052899479241 | 4052899479258 |
| LED COMFO SL HP 6W 857 15D 48X1 OSRAM  | 6W    | 5700K | 15°        | AM039970055 | 4052899479265 | 4052899479272 |
| LED COMFO SL HP 6W 830 24D 48X1 OSRAM  | 6W    | 3000K | 24°        | AM039980055 | 4052899479289 | 4052899479296 |
| LED COMFO SL HP 6W 840 24D 48X1 OSRAM  | 6W    | 4000K | 24°        | AM039990055 | 4052899479302 | 4052899479319 |
| LED COMFO SL HP 6W 857 24D 48X1 OSRAM  | 6W    | 5700K | 24°        | AM040000055 | 4052899479326 | 4052899479333 |
| LED COMFO SL HP 6W 830 40D 48X1 OSRAM  | 6W    | 3000K | 40°        | AM040010055 | 4052899479340 | 4052899479357 |
| LED COMFO SL HP 6W 840 40D 48X1 OSRAM  | 6W    | 4000K | 40°        | AM040020055 | 4052899479364 | 4052899479371 |
| LED COMFO SL HP 6W 857 40D 48X1 OSRAM  | 6W    | 5700K | 40°        | AM040030055 | 4052899479388 | 4052899479395 |
| LED COMFO SL HP 9W 830 15D 48X1 OSRAM  | 9W    | 3000K | 15°        | AM040040055 | 4052899479401 | 4052899479418 |
| LED COMFO SL HP 9W 840 15D 48X1 OSRAM  | 9W    | 4000K | 15°        | AM040050055 | 4052899479425 | 4052899479432 |
| LED COMFO SL HP 9W 857 15D 48X1 OSRAM  | 9W    | 5700K | 15°        | AM040060055 | 4052899479449 | 4052899479456 |
| LED COMFO SL HP 9W 830 24D 48X1 OSRAM  | 9W    | 3000K | 24°        | AM040070055 | 4052899479463 | 4052899479470 |
| LED COMFO SL HP 9W 840 24D 48X1 OSRAM  | 9W    | 4000K | 24°        | AM040080055 | 4052899479487 | 4052899479494 |
| LED COMFO SL HP 9W 857 24D 48X1 OSRAM  | 9W    | 5700K | 24°        | AM040090055 | 4052899479500 | 4052899479517 |
| LED COMFO SL HP 9W 830 40D 48X1 OSRAM  | 9W    | 3000K | 40°        | AM040100055 | 4052899479524 | 4052899479531 |
| LED COMFO SL HP 9W 840 40D 48X1 OSRAM  | 9W    | 4000K | 40°        | AM040110055 | 4052899479548 | 4052899479555 |
| LED COMFO SL HP 9W 857 40D 48X1 OSRAM  | 9W    | 5700K | 40°        | AM040120055 | 4052899479562 | 4052899479579 |
| LED COMFO SL HP 18W 830 15D 36X1 OSRAM | 18W   | 3000K | 15°        | AM040130055 | 4052899479586 | 4052899479593 |
| LED COMFO SL HP 18W 840 15D 36X1 OSRAM | 18W   | 4000K | 15°        | AM040140055 | 4052899479609 | 4052899479616 |
| LED COMFO SL HP 18W 857 15D 36X1 OSRAM | 18W   | 5700K | 15°        | AM040150055 | 4052899479623 | 4052899479630 |
| LED COMFO SL HP 18W 830 24D 36X1 OSRAM | 18W   | 3000K | 24°        | AM040160055 | 4052899479647 | 4052899479654 |
| LED COMFO SL HP 18W 840 24D 36X1 OSRAM | 18W   | 4000K | 24°        | AM040170055 | 4052899479661 | 4052899479678 |
| LED COMFO SL HP 18W 857 24D 36X1 OSRAM | 18W   | 5700K | 24°        | AM040180055 | 4052899479685 | 4052899479692 |
| LED COMFO SL HP 18W 830 40D 36X1 OSRAM | 18W   | 3000K | 40°        | AM040190055 | 4052899479708 | 4052899479715 |
| LED COMFO SL HP 18W 840 40D 36X1 OSRAM | 18W   | 4000K | 40°        | AM040200055 | 4052899479722 | 4052899479739 |
| LED COMFO SL HP 18W 857 40D 36X1 OSRAM | 18W   | 5700K | 40°        | AM040210055 | 4052899479746 | 4052899479753 |
| LED COMFO SL HP 30W 830 15D 24X1 OSRAM | 30W   | 3000K | 15°        | AM040220055 | 4052899479760 | 4052899479777 |
| LED COMFO SL HP 30W 840 15D 24X1 OSRAM | 30W   | 4000K | 15°        | AM040230055 | 4052899479784 | 4052899479791 |
| LED COMFO SL HP 30W 857 15D 24X1 OSRAM | 30W   | 5700K | 15°        | AM040240055 | 4052899479807 | 4052899479814 |
| LED COMFO SL HP 30W 830 24D 24X1 OSRAM | 30W   | 3000K | 24°        | AM040250055 | 4052899479821 | 4052899479838 |
| LED COMFO SL HP 30W 840 24D 24X1 OSRAM | 30W   | 4000K | 24°        | AM040260055 | 4052899479845 | 4052899479852 |
| LED COMFO SL HP 30W 857 24D 24X1 OSRAM | 30W   | 5700K | 24°        | AM040270055 | 4052899479869 | 4052899479876 |
| LED COMFO SL HP 30W 830 40D 24X1 OSRAM | 30W   | 3000K | 40°        | AM040280055 | 4052899479883 | 4052899479890 |
| LED COMFO SL HP 30W 840 40D 24X1 OSRAM | 30W   | 4000K | 40°        | AM040290055 | 4052899479906 | 4052899479913 |
| LED COMFO SL HP 30W 857 40D 24X1 OSRAM | 30W   | 5700K | 40°        | AM040300055 | 4052899479920 | 4052899479937 |

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