

# HAPEN

## Architectural Pendant Cylinder Luminaire Lumen & Kelvin Selectable

**HOUSING:** Premium powder-coat, aluminum, bronze housing.

### ELECTRICAL:

- Operating temperature (ambient): -40°C to 45°C (-40°F to 113°F).
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers are standard.
- Surge protection = 4kV.
- Power factor > 0.90.

### OPTICAL SYSTEM:

- Silicon dioxide glass lens.
- Field selectable 2700k(soft white), 3000k (warm white), 3500k(warm/neutral white), 4000k (neutral white) and 5000k (cool white) color temperatures\*.
- Tri-Lumen selectable provides a range of 978 to 1907 nominal lumens\*.
- Long-life LEDs provide 140,000 hours of operation with at least 70% of initial lumen output (L70), and 41,000 hours with at least 90% of initial lumen output (L90)\*\*.
- Fixtures comes installed with 40 degree reflector.
- Available field replaceable reflectors for 25° and 60°.
- LED color maintenance < 0.0004 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color rendering index > 90.

\* Default 4000k color temperature and highest lumen output. \*\*L70 hours are IES TM-21-11 calculated hours.

### MOUNTING:

- Optional Ceiling Mount Kit.
- Optional Cord Mount Kit.
- Optional Stem Mount Kit (Sold separately).

### CODE COMPLIANCE:

- cULus listed for wet locations.
- Energy Star certified.
- Complies with FCC part 15, class B.

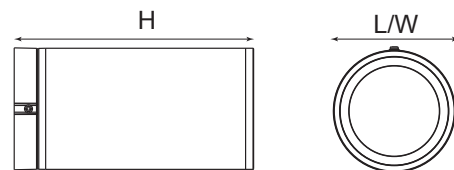
**WARRANTY:** 5 year warranty on all electronics and housing



### ORDERING INFORMATION

Example: HAPEN4-221L-5CCT-SM

| Series | Nominal Lumen Output<br>(Selectable) |                      | Kelvin Selectable                          | Mounting Method                                               |
|--------|--------------------------------------|----------------------|--------------------------------------------|---------------------------------------------------------------|
| HAPEN4 | 221L                                 | 2000 / 1600 / 1000lm | 5CCT 2700K / 3000K / 3500K / 4000K / 5000K | <b>SM</b> Ceiling Mounting Kit<br><b>CM</b> Cord Mounting Kit |



| Model #             | L (in) | W (in) | H (in) | Weight (lbs) |
|---------------------|--------|--------|--------|--------------|
| HAPEN4-221L-5CCT-SM | 4.17   | 4.17   | 8.27   | 2.39         |
| HAPEN4-221L-5CCT-CM | 4.17   | 4.17   | 67.30  | 2.58         |



Job Name: \_\_\_\_\_

Type: \_\_\_\_\_

Part #: \_\_\_\_\_

Notes: \_\_\_\_\_

## ACCESSORIES (ORDER SEPARATELY)

### Reflector

HAPEN4-REFL-25 =25° Reflector for HAPEN4-221L-5CCT

HAPEN4-REFL-60 = 60° Reflector for  
HAPEN4-221L-5CCT

### Mounting Option

HAPEN-MT-STEM = Stem Mount for HAPEN4-221L-5CCT (consists of 4 stems measuring 12") †

### Mounting Accessory

HAPEN-JBOX-COVER = Junction Box Cover for HAPEN4-221L-5CCT

† Note: Must order HAPEN4-221L-5CCT-CM version (cord mount) to use stem mount kit. e: Must order HAPEN

*Shown with Stem  
Option (HAPEN-MT-  
STEM)*

## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

## LUMEN TABLES

| Series               | Measure-<br>ments | Low Lumens |       |       |       |        | Mid Lumens |       |       |       |        | High Lumens |       |       |       |       |
|----------------------|-------------------|------------|-------|-------|-------|--------|------------|-------|-------|-------|--------|-------------|-------|-------|-------|-------|
|                      |                   | 2700K      | 3000K | 3500K | 4000K | 5000K  | 2700K      | 3000K | 3500K | 4000K | 5000K  | 2700K       | 3000K | 3500K | 4000K | 5000K |
| HAPEN4-<br>221L-5CCT | Lumens            | 978        | 1026  | 1074  | 1119  | 1200   | 1305       | 1367  | 1438  | 1509  | 1615   | 1527        | 1597  | 1679  | 1766  | 1907  |
|                      | Watt              | 11.42      | 11.41 | 11.37 | 11.5  | 11.56  | 15.69      | 15.68 | 15.62 | 15.84 | 15.98  | 18.82       | 18.74 | 18.65 | 18.99 | 19.18 |
|                      | Efficac           | 85.64      | 89.92 | 94.46 | 97.30 | 103.81 | 83.17      | 87.18 | 92.06 | 95.27 | 101.06 | 81.14       | 85.22 | 90.03 | 93.00 | 99.43 |

## ELECTRICAL DATA

| Series           | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                  |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                  |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| HAPEN4-221L-5CCT | 2700K | 0.10           | 0.05 | 0.04 | 0.13       | 0.07 | 0.06 | 0.16        | 0.08 | 0.07 |
|                  | 3000K | 0.10           | 0.05 | 0.04 | 0.13       | 0.07 | 0.06 | 0.16        | 0.08 | 0.07 |
|                  | 3500K | 0.09           | 0.05 | 0.04 | 0.13       | 0.07 | 0.06 | 0.16        | 0.08 | 0.07 |
|                  | 4000K | 0.10           | 0.05 | 0.04 | 0.13       | 0.07 | 0.06 | 0.16        | 0.08 | 0.07 |
|                  | 5000K | 0.10           | 0.05 | 0.04 | 0.13       | 0.07 | 0.06 | 0.16        | 0.08 | 0.07 |

## PHOTOMETRICS

### HAPEN4-221L-5CCT (Optional 250 reflector)

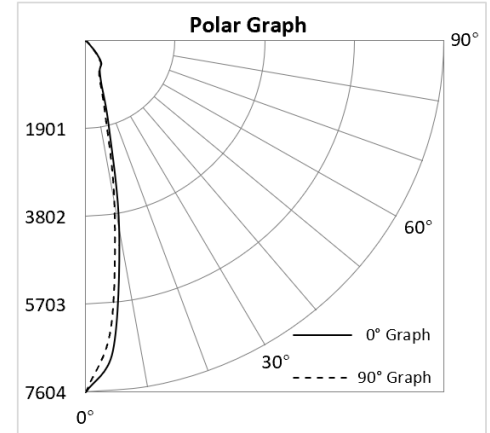
#### Luminaire Data

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Description                    | Architectural Pendant<br>Lumen/Kelvin Selectable |
| Total Lumens                   | 1,819                                            |
| Input Wattage                  | 19                                               |
| Efficacy (lm/W)                | 96                                               |
| Spacing Criterion<br>(0-180°)  | 0.38                                             |
| Spacing Criterion<br>(90-270°) | 0.34                                             |

Photometrics calculated at  
4000k, and highest lumen  
setting

#### Zonal Lumen Summary

| Zone    | Lumens | %Fixt  |
|---------|--------|--------|
| 0-20°   | 1,033  | 56.8%  |
| 0-30°   | 1,363  | 75.0%  |
| 0-40°   | 1,698  | 93.4%  |
| 20-50°  | 752    | 41.3%  |
| 40-70°  | 103    | 5.7%   |
| 0-60°   | 1,799  | 98.9%  |
| 0-80°   | 1,803  | 99.1%  |
| 0-90°   | 1,803  | 99.1%  |
| 90-180° | 16     | 0.9%   |
| 0-180°  | 1,819  | 100.0% |



### HAPEN4-221L-5CCT (Optional 400 reflector)

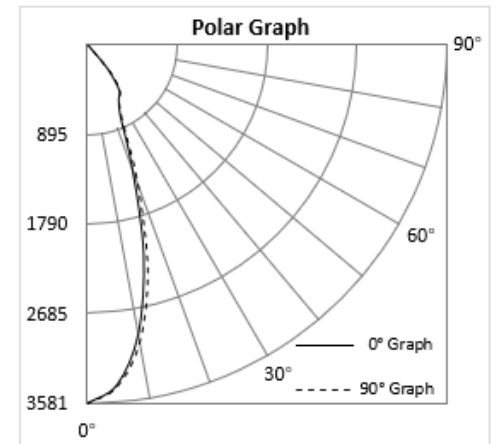
#### Luminaire Data

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Description                    | Architectural Pendant<br>Lumen/Kelvin Selectable |
| Total Lumens                   | 1,766                                            |
| Input Wattage                  | 19                                               |
| Efficacy (lm/W)                | 93                                               |
| Spacing Criterion<br>(0-180°)  | 0.58                                             |
| Spacing Criterion<br>(90-270°) | 0.6                                              |

Photometrics calculated at  
4000k, and highest lumen  
setting

#### Zonal Lumen Summary

| Zone    | Lumens | %Fixt  |
|---------|--------|--------|
| 0-20°   | 913    | 51.7%  |
| 0-30°   | 1,309  | 74.1%  |
| 0-40°   | 1,648  | 93.3%  |
| 20-50°  | 830    | 47.0%  |
| 40-70°  | 115    | 6.5%   |
| 0-60°   | 1,758  | 99.5%  |
| 0-80°   | 1,765  | 100.0% |
| 0-90°   | 1,766  | 100.0% |
| 90-180° | 0      | 0.0%   |
| 0-180°  | 1,766  | 100.0% |



### HAPEN4-221L-5CCT (Optional 600 reflector)

#### Luminaire Data

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Description                    | Architectural Pendant<br>Lumen/Kelvin Selectable |
| Total Lumens                   | 1,798                                            |
| Input Wattage                  | 19                                               |
| Efficacy (lm/W)                | 95                                               |
| Spacing Criterion<br>(0-180°)  | 0.86                                             |
| Spacing Criterion<br>(90-270°) | 0.8                                              |

Photometrics calculated at  
4000k, and highest lumen  
setting

#### Zonal Lumen Summary

| Zone    | Lumens | %Fixt  |
|---------|--------|--------|
| 0-20°   | 684    | 38.1%  |
| 0-30°   | 1,236  | 68.7%  |
| 0-40°   | 1,665  | 92.6%  |
| 20-50°  | 1,074  | 59.7%  |
| 40-70°  | 113    | 6.3%   |
| 0-60°   | 1,771  | 98.5%  |
| 0-80°   | 1,782  | 99.1%  |
| 0-90°   | 1,783  | 99.1%  |
| 90-180° | 15     | 0.9%   |
| 0-180°  | 1,798  | 100.0% |

