# Day-Brite CFI

## Industrial

## HCY Round High Bay

### Dual Select (8,000 to 38,000lm)



Project:

Location:

Cat.No:

Type:

Qty:

Notes:

**The Day-Brite / CFI HCY sealed high bay** is an ideal choice where functional high bay lighting is needed with an aesthetic appeal. The round form factor lends itself to retail and institutional applications.

Correlated Color Temperatures

Lumen Select Switch

UN3 Universal 120-347V

## Ordering guide

Example: HCY0824L8CST-UN3-DIM-BST-BK

| Series | Lumens[1] (nominal) | Color (CRI/CCT) | Voltage | Options | Optics | Finish |
|---|---|---|---|---|---|---|
| HCY | | 8CST | UN3 | DIM | BST | |
| **HCY** Round High Bay LED dual select | **0824L** 8,000/14,000/24,000lm<br>**2438L** 24,000/32,000/38,000lm | **8CST** 80 CRI, Color Select (3500/4000/5000K) | **UN3** Universal voltage 120-347V | **DIM** 0-10V dimming | **BST** Selectable Beam Spread 60° / 90° (± 10°) | **BK** Black<br>**WH** White |

1. Nominal delivered lumens at 25°C ambient.

Note: Many luminaire components, such as reflectors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

## Accessories (order separately)

| Cat Code | Description |
|---|---|
| **IHB-EM-DVR-40W-WH** | Emergency LED Driver 40W White |
| **IHB-EM-DVR-40W-BK** | Emergency LED Driver 40W Black |
| **HCY4-LCSMLG*** | Clear polycarbonate lens cover for HCY4 |
| **HCY4-PRLG** | Clear polycarbonate reflector HCY2438L |
| **HCY4-PRSM** | Clear polycarbonate reflector HCY0824L |
| **HCY4-WGLG** | Wire guard for HCY2438L |
| **HCY4-WGSM** | Wire guard for HCY0824L |
| **HCY-REMOTE** | Round Highbay DS Remote 4 Sensor program |
| **HCY-SENSOR** | Round Highbay DS Sensor |
| **HCY-SURFACT-BKT** | Surface Mount for Large & Small Fixture |

* Reflector must be ordered with this accessory.


Reflector


Bracket


Sensor


Remote


Wireguard


Lens Cover

## Features

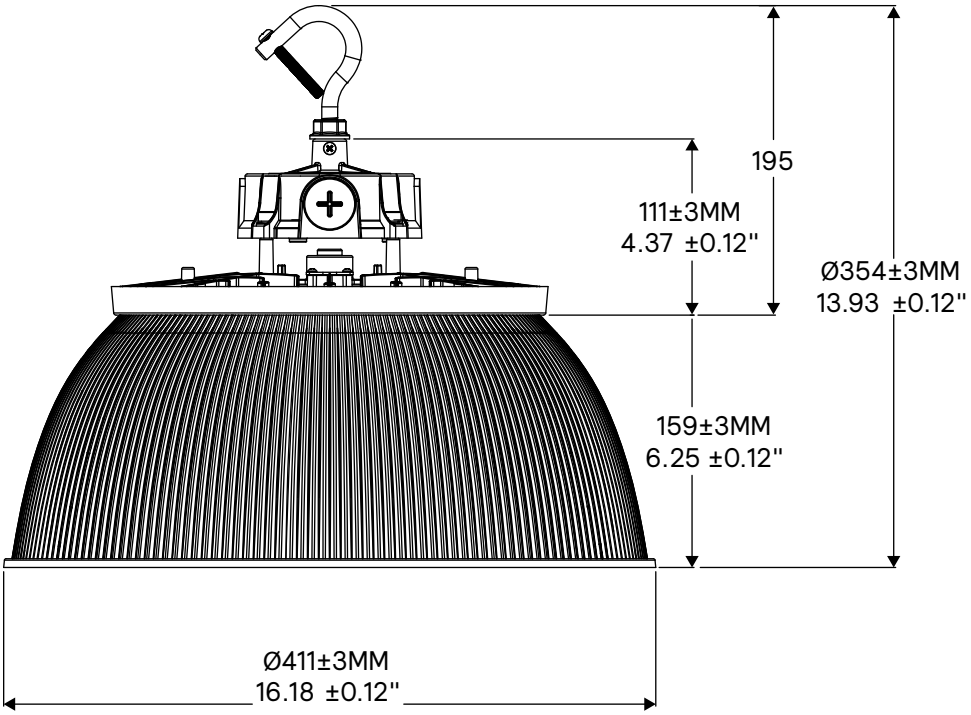
- Die cast frame and driver containment housing.
- Corrosion resistant black and white finish.
- Clear polycarbonate lens protects LEDs.
- Heavy duty hook provided for connection to customer-supplied suspension.
- Driver surge protection is 4kV L-N and 6kV LN-GND.
- Lumen maintenance up to 70% (L70) at 50,000 hrs.
- Default HCY4-SENSOR settings are 1 minute timeout to 20% dim level, then 1 minute timeout to off. HCY4-REMOTE must be used to change default sensor settings.
- HCY4-SENSOR may be used up to 50ft mounting height.
- Note that using the sensor together with the reflector will affect sensor performance.
- Exposed leads for wiring connection with sleeving for environmental protection.
- 6' cord provided for power connection and dimming connection.
- Field CCT and Lumen selectable.
  - Default CCT setting is 4000K.
  - Default lumen setting for small is 24000lm.
  - Default lumen setting for large is 38000lm.
- Field Selectable Optics - 60° / 90° selectable (±10°)
- cULus listed for use in wet locations for -30°C to 50°C ambient.
- • IP65 and NEMA4X rated. IK08 impact rated.
- Components are RoHS compliant.
- DesignLights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (www.designlights.org/QPL)
- Five year limited luminaire warranty. Visit www.signify.com/warranties for complete warranty information.

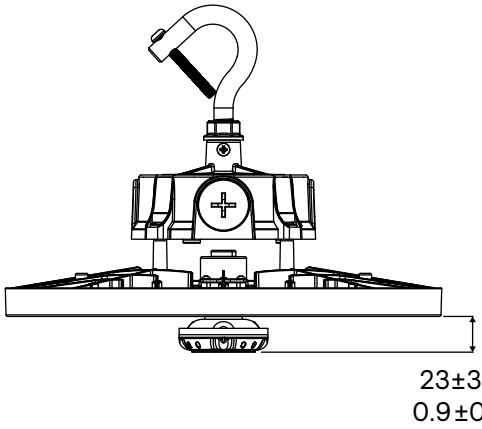
# HCY Round High Bay

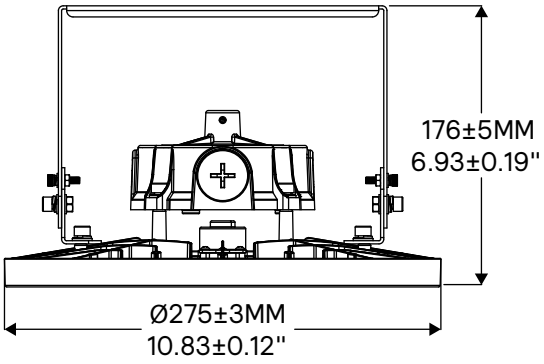
## Dual Select (8,000 to 38,000lm)

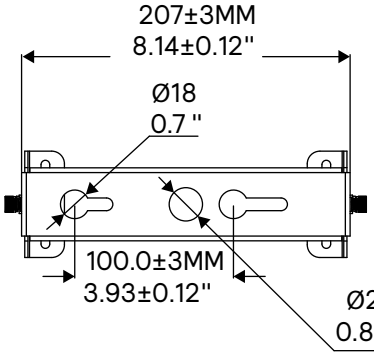


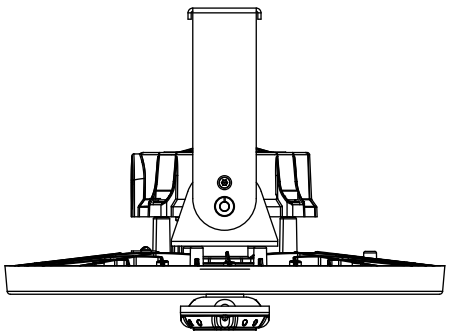
### 150W Dimensions



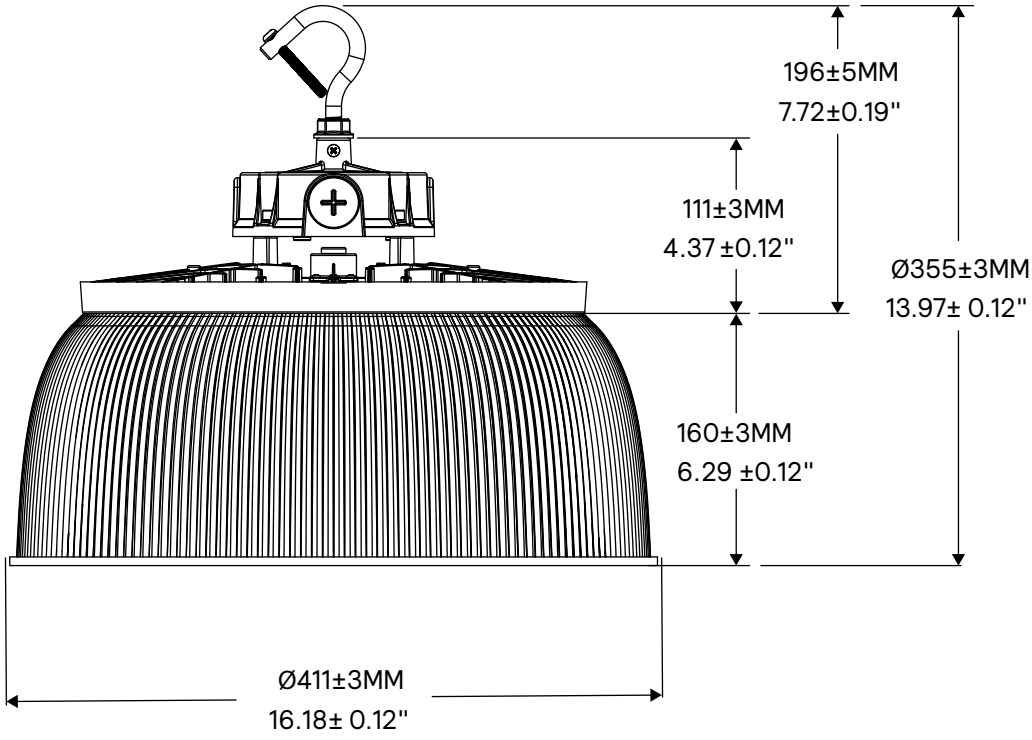



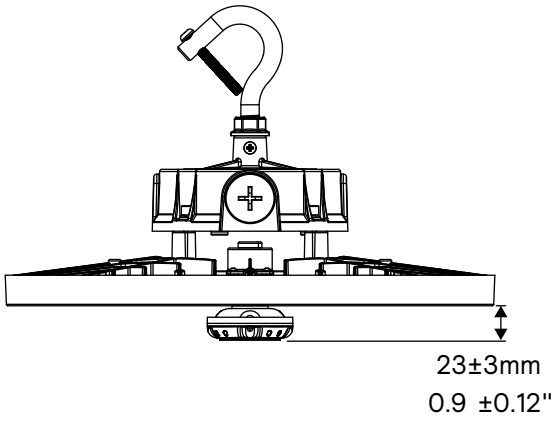
# HCY Round High Bay

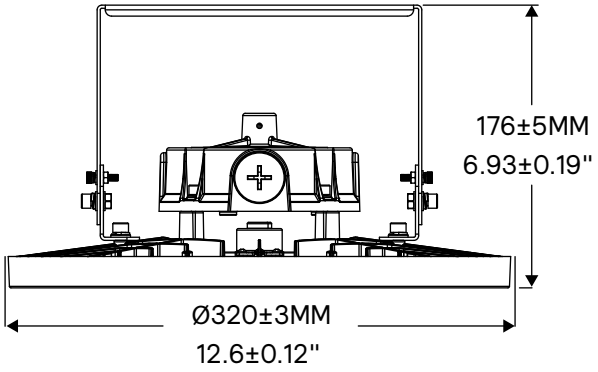
## Dual Select (8,000 to 38,000lm)

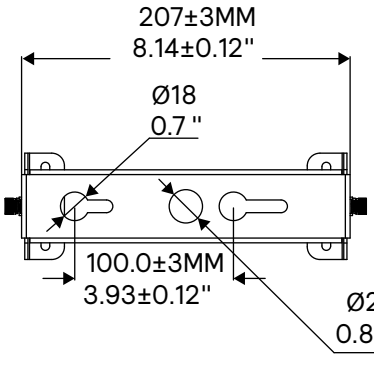


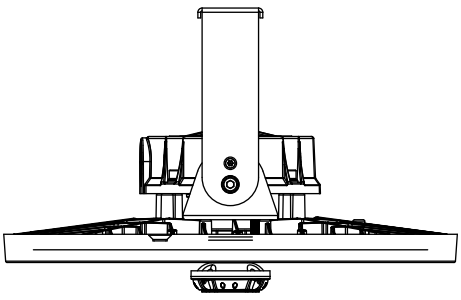
### 240W Dimensions



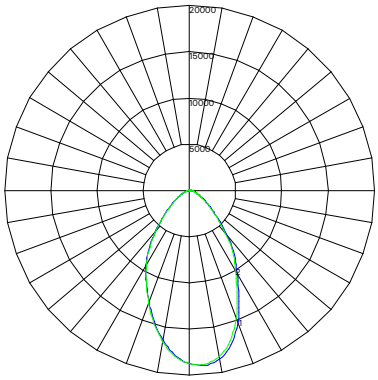
# HCY Round High Bay

## Dual Select (8,000 to 38,000lm)

### Photometry

#### HCY 150W 3500K 60 DEG

| | |
|---|---|
| **Luminaire Lumens** | 23320 |
| **Luminaire Efficacy Rating (LER)** | 156 |
| **Total Luminaire Watts** | 149 |
| **Spacing Criterion (0–180)** | 0.9 |
| **Spacing Criterion (90–270)** | 0.92 |




| Candela Distribution | | | | | | Flux |
|---|---|---|---|---|---|---|
| | 0 | 22.5 | 45 | 67.5 | 90 | Lumens |
| 0 | 18778 | 18778 | 18778 | 18778 | 18778 | |
| 5 | 18766 | 18919 | 19012 | 19021 | 18896 | 1732 |
| 15 | 16530 | 16981 | 17285 | 17322 | 16913 | 4433 |
| 25 | 11864 | 12238 | 12569 | 12642 | 12172 | 5364 |
| 35 | 7868 | 8105 | 8304 | 8422 | 8117 | 4893 |
| 45 | 4184 | 4276 | 4349 | 4379 | 4236 | 3285 |
| 55 | 2066 | 2112 | 2152 | 2167 | 2110 | 1904 |
| 65 | 964 | 989 | 1020 | 1034 | 1021 | 1003 |
| 75 | 385 | 401 | 420 | 430 | 437 | 444 |
| 85 | 46 | 54 | 54 | 72 | 79 | 94 |
| 90 | 23 | 23 | 18 | 21 | 26 | |

| Zonal Lumen Summary | | |
|---|---|---|
| Zone | Lumens | %Fixture |
| 0-20 | 6165 | 26 |
| 0-30 | 11530 | 49 |
| 0-40 | 16423 | 70 |
| 0-60 | 21612 | 93 |
| 0-80 | 23059 | 99 |
| 0-90 | 23153 | 99 |
| 90-180 | 167 | 1 |
| 0-180 | 23320 | 100 |

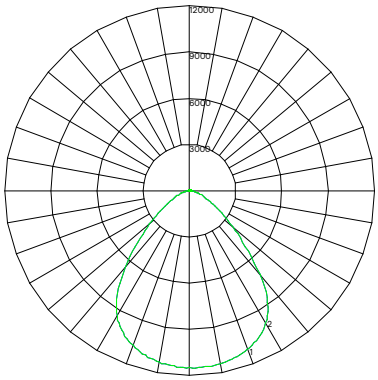
| Avg. Luminance (cd/m²) | | | |
|---|---|---|---|
| | 0 | 45 | 90 |
| 45 | 134070 | 139362 | 135746 |
| 55 | 81625 | 85017 | 83350 |
| 65 | 51688 | 54666 | 54741 |
| 75 | 33715 | 36746 | 38234 |
| 85 | 11928 | 14005 | 20494 |

**Coefficients of Utilization %** (Based on a floor reflectance of 0.2)

| Pc--- | | 80 | | | | 70 | | | 50 | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pw--- | | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 50 | 30 | 10 | 0 |
| RCR | 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 109 | 109 | 109 | 96 |
| | 1 | 107 | 102 | 97 | 93 | 104 | 99 | 95 | 94 | 91 | 88 | 79 |
| | 2 | 97 | 89 | 82 | 76 | 94 | 86 | 80 | 82 | 77 | 72 | 65 |
| | 3 | 89 | 78 | 69 | 63 | 86 | 76 | 68 | 72 | 66 | 60 | 55 |
| | 4 | 81 | 69 | 60 | 53 | 78 | 67 | 59 | 64 | 57 | 51 | 47 |
| | 5 | 74 | 62 | 52 | 46 | 72 | 60 | 52 | 58 | 50 | 44 | 40 |
| | 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 52 | 45 | 39 | 35 |
| | 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 47 | 40 | 34 | 31 |
| | 8 | 59 | 46 | 37 | 32 | 58 | 45 | 37 | 43 | 36 | 31 | 28 |
| | 9 | 56 | 42 | 34 | 28 | 54 | 41 | 34 | 40 | 33 | 28 | 25 |
| | 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 37 | 30 | 25 | 23 |

#### HCY 150W 3500K 90 DEG

| | |
|---|---|
| **Luminaire Lumens** | 22449 |
| **Luminaire Efficacy Rating (LER)** | 148 |
| **Total Luminaire Watts** | 152 |
| **Spacing Criterion (0–180)** | 1.24 |
| **Spacing Criterion (90–270)** | 1.28 |




| Candela Distribution | | | | | | Flux |
|---|---|---|---|---|---|---|
| | 0 | 22.5 | 45 | 67.5 | 90 | Lumens |
| 0 | 11498 | 11498 | 11498 | 11498 | 11498 | |
| 5 | 11464 | 11477 | 11482 | 11487 | 11493 | 1090 |
| 15 | 11158 | 11215 | 11252 | 11251 | 11251 | 3145 |
| 25 | 10373 | 10521 | 10599 | 10629 | 10566 | 4758 |
| 35 | 8547 | 8780 | 8955 | 9052 | 8852 | 5275 |
| 45 | 5076 | 5182 | 5257 | 5291 | 5141 | 3938 |
| 55 | 2475 | 2548 | 2594 | 2625 | 2563 | 2295 |
| 65 | 1135 | 1165 | 1200 | 1216 | 1213 | 1181 |
| 75 | 437 | 454 | 471 | 486 | 495 | 502 |
| 85 | 51 | 54 | 55 | 64 | 84 | 99 |
| 90 | 25 | 20 | 21 | 21 | 29 | |

| Zonal Lumen Summary | | |
|---|---|---|
| Zone | Lumens | %Fixture |
| 0-20 | 4235.44 | 18.9 |
| 0-30 | 8993.42 | 40.1 |
| 0-40 | 14268.18 | 63.6 |
| 0-60 | 20501.52 | 91.3 |
| 0-80 | 22184.61 | 98.8 |
| 0-90 | 22283.37 | 99.3 |
| 90-180 | 166 | 0.7 |
| 0-180 | 22449 | 100 |

| Avg. Luminance (cd/m²) | | | |
|---|---|---|---|
| | 0 | 45 | 90 |
| 45 | 162664 | 168455 | 164726 |
| 55 | 97769 | 102482 | 101247 |
| 65 | 60855 | 64363 | 65029 |
| 75 | 38300 | 41276 | 43314 |
| 85 | 13144 | 14244 | 21765 |

**Coefficients of Utilization %** (Based on a floor reflectance of 0.2)

| Pc--- | | 80 | | | | 70 | | | 50 | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pw--- | | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 50 | 30 | 10 | 0 |
| RCR | 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 99 |
| | 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 101 | 98 | 96 | 88 |
| | 2 | 103 | 96 | 91 | 86 | 101 | 95 | 90 | 91 | 87 | 83 | 77 |
| | 3 | 96 | 87 | 80 | 75 | 93 | 85 | 79 | 82 | 77 | 73 | 68 |
| | 4 | 89 | 79 | 71 | 66 | 87 | 77 | 70 | 75 | 69 | 64 | 60 |
| | 5 | 82 | 71 | 64 | 58 | 80 | 70 | 63 | 68 | 62 | 57 | 54 |
| | 6 | 77 | 65 | 57 | 52 | 75 | 64 | 57 | 63 | 56 | 51 | 48 |
| | 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 57 | 51 | 46 | 44 |
| | 8 | 67 | 55 | 47 | 42 | 66 | 54 | 47 | 53 | 47 | 42 | 40 |
| | 9 | 63 | 51 | 44 | 39 | 62 | 50 | 43 | 49 | 43 | 38 | 36 |
| | 10 | 59 | 47 | 40 | 35 | 58 | 47 | 40 | 46 | 39 | 35 | 33 |

| Catalog No. | Delivered Lumens | Input Watts | Efficacy |
|---|---|---|---|
| **HCY0824L8CST-UN3-DIM** | 8000 | 50 | 160 |
| **HCY0824L8CST-UN3-DIM** | 14000 | 90 | 156 |
| **HCY0824L8CST-UN3-DIM** | 23000 | 150 | 153 |
| **HCY2438L8CST-UN3-DIM** | 24000 | 150 | 160 |
| **HCY2438L8CST-UN3-DIM** | 33000 | 210 | 157 |
| **HCY2438L8CST-UN3-DIM** | 37000 | 240 | 154 |

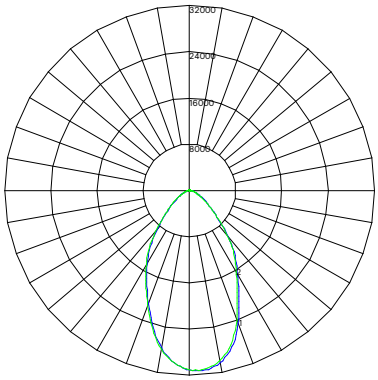
# HCY Round High Bay

## Dual Select (8,000 to 38,000lm)

### Photometry

#### HCY 240W 3500K 60 DEG

| | |
|---|---|
| **Luminaire Lumens** | 37391 |
| **Luminaire Efficacy Rating (LER)** | 162 |
| **Total Luminaire Watts** | 230 |
| **Spacing Criterion (0–180)** | 0.9 |
| **Spacing Criterion (90–270)** | 0.9 |




| Candela Distribution | | | | | | Flux |
|---|---|---|---|---|---|---|
| | 0 | 22.5 | 45 | 67.5 | 90 | Lumens |
| 0 | 31083 | 31083 | 31083 | 31083 | 31083 | |
| 5 | 30837 | 31037 | 31156 | 31203 | 31058 | 2867 |
| 15 | 27022 | 27574 | 28046 | 28119 | 27655 | 7284 |
| 25 | 19466 | 19857 | 20251 | 20181 | 19568 | 8644 |
| 35 | 13364 | 13502 | 13699 | 13735 | 13383 | 7929 |
| 45 | 6994 | 6982 | 7133 | 7164 | 7110 | 5230 |
| 55 | 3394 | 3458 | 3331 | 3434 | 3403 | 2928 |
| 65 | 1603 | 1641 | 1594 | 1621 | 1602 | 1516 |
| 75 | 668 | 696 | 704 | 693 | 682 | 675 |
| 85 | 122 | 118 | 116 | 137 | 135 | 144 |
| 90 | 31 | 30 | 20 | 22 | 18 | |

| Zonal Lumen Summary | | |
|---|---|---|
| Zone | Lumens | %Fixture |
| 0-20 | 10150.53 | 27.1 |
| 0-30 | 18794.92 | 50.3 |
| 0-40 | 26723.63 | 71.5 |
| 0-60 | 34882.37 | 93.3 |
| 0-80 | 37073.16 | 99.1 |
| 0-90 | 37216.68 | 99.5 |
| 90-180 | 174.48 | 0.5 |
| 0-180 | 37391.15 | 100 |

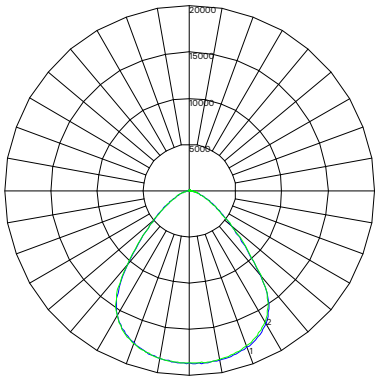
| Avg. Luminance (cd/m²) | | | |
|---|---|---|---|
| | 0 | 45 | 90 |
| 45 | 158305 | 161433 | 160915 |
| 55 | 94694 | 92945 | 94964 |
| 65 | 60687 | 60353 | 60657 |
| 75 | 41307 | 43557 | 42143 |
| 85 | 22404 | 21321 | 24782 |

**Coefficients of Utilization %** (Based on a floor reflectance of 0.2)

| Pc--- | | 80 | | | | 70 | | | 50 | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pw--- | | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 50 | 30 | 10 | 0 |
| RCR | 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 100 |
| | 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 102 | 100 | 98 | 90 |
| | 2 | 104 | 98 | 93 | 89 | 102 | 97 | 92 | 93 | 89 | 86 | 80 |
| | 3 | 98 | 90 | 83 | 79 | 95 | 88 | 82 | 85 | 81 | 77 | 72 |
| | 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 78 | 73 | 69 | 65 |
| | 5 | 86 | 75 | 68 | 63 | 84 | 74 | 68 | 72 | 67 | 62 | 59 |
| | 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 67 | 61 | 57 | 54 |
| | 7 | 76 | 65 | 57 | 52 | 74 | 64 | 57 | 62 | 56 | 52 | 50 |
| | 8 | 71 | 60 | 53 | 48 | 70 | 59 | 53 | 58 | 52 | 48 | 46 |
| | 9 | 67 | 56 | 49 | 45 | 66 | 56 | 49 | 54 | 48 | 44 | 42 |
| | 10 | 64 | 53 | 46 | 41 | 63 | 52 | 46 | 51 | 45 | 41 | 39 |

#### HCY 240W 3500K 90 DEG

| | |
|---|---|
| **Luminaire Lumens** | 36210 |
| **Luminaire Efficacy Rating (LER)** | 153 |
| **Total Luminaire Watts** | 236 |
| **Spacing Criterion (0–180)** | 1.3 |
| **Spacing Criterion (90–270)** | 1.3 |




| Candela Distribution | | | | | | Flux |
|---|---|---|---|---|---|---|
| | 0 | 22.5 | 45 | 67.5 | 90 | Lumens |
| 0 | 18702 | 18702 | 18702 | 18702 | 18702 | |
| 5 | 18685 | 18711 | 18700 | 18687 | 18684 | 1777 |
| 15 | 18367 | 18435 | 18430 | 18395 | 18330 | 5153 |
| 25 | 17392 | 17491 | 17523 | 17473 | 17337 | 7870 |
| 35 | 14857 | 14997 | 15068 | 15067 | 14826 | 8796 |
| 45 | 8458 | 8473 | 8611 | 8663 | 8657 | 6312 |
| 55 | 4039 | 4162 | 4002 | 4147 | 4097 | 3504 |
| 65 | 1829 | 1902 | 1849 | 1900 | 1865 | 1748 |
| 75 | 711 | 742 | 764 | 770 | 742 | 731 |
| 85 | 98 | 98 | 100 | 139 | 126 | 138 |
| 90 | 19 | 19 | 16 | 26 | 20 | |

| Zonal Lumen Summary | | |
|---|---|---|
| Zone | Lumens | %Fixture |
| 0-20 | 6929.33 | 19.1 |
| 0-30 | 14799.39 | 40.9 |
| 0-40 | 23594.94 | 65.2 |
| 0-60 | 33410.7 | 92.3 |
| 0-80 | 35889.88 | 99.1 |
| 0-90 | 36028.04 | 99.5 |
| 90-180 | 181.79 | 0.5 |
| 0-180 | 36209.83 | 100 |

| Avg. Luminance (cd/m²) | | | |
|---|---|---|---|
| | 0 | 45 | 90 |
| 45 | 191426 | 194895 | 195936 |
| 55 | 112684 | 111667 | 114315 |
| 65 | 69258 | 70011 | 70636 |
| 75 | 43952 | 47224 | 45886 |
| 85 | 17970 | 18401 | 23175 |

**Coefficients of Utilization %** (Based on a floor reflectance of 0.2)

| Pc--- | | 80 | | | | 70 | | | 50 | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pw--- | | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 50 | 30 | 10 | 0 |
| RCR | 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 99 |
| | 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 101 | 99 | 96 | 89 |
| | 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 92 | 87 | 84 | 78 |
| | 3 | 96 | 87 | 81 | 75 | 94 | 86 | 80 | 83 | 78 | 73 | 69 |
| | 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 75 | 70 | 65 | 61 |
| | 5 | 83 | 72 | 64 | 59 | 81 | 71 | 64 | 69 | 63 | 58 | 55 |
| | 6 | 77 | 66 | 58 | 53 | 76 | 65 | 58 | 63 | 57 | 52 | 49 |
| | 7 | 72 | 60 | 53 | 47 | 71 | 60 | 52 | 58 | 52 | 47 | 44 |
| | 8 | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 54 | 47 | 43 | 40 |
| | 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 50 | 43 | 39 | 37 |
| | 10 | 60 | 48 | 41 | 36 | 59 | 47 | 40 | 46 | 40 | 36 | 34 |

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